

JANIS Book

of photon-induced cross-sections

Comparison of evaluated and experimental data from

ENDF/B-VII.1, JENDL/PD-2004, TENDL-2011 and EXFOR

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OECD NEA Data Bank

Introduction

This document compares evaluated cross-sections below 200 MeV with corresponding experimental data from the EXFOR database for a number of evaluated libraries (Table 1), nuclear reactions and associated reaction products (Table 2). This document was produced using tools based on the NEA Java-based nuclear information software (JANIS) and associated databases [1].

Caveat: When studying plots, please take into account that the energy resolution of experimental data is not always comparable with the resolution of the evaluated data.

Graphical comparison of nuclear data

Experimental data sets are identified by their EXFOR entry number. All experimental data are plotted on the graph but the legend will ignore all of them if there are more than 20 data sets.

Evaluated data are plotted with full lines for exclusive cross-sections explicitly defined by a MT number, whereas dashed lines indicate residual production cross-sections given in MT5. A star '*' after the name of the library indicates additional operations performed by JANIS, e.g. summation over the ground and metastable yields, reconstruction of residual production cross-sections over the whole energy range.

The data are plotted in log-log scale (on the left hand side) and lin-log scale (on the right hand side). The best representation depends on the Q value of the reaction and/or the magnitude of the variation in the cross-section values.

Table of reactions and Q values

In order to identify individual contributions in residual production cross-sections, reactions leading to the same product are listed along with their associated Q values. The latter are calculated using mass excess from the 2003 Nubase and Atomic Mass Evaluation [2].

Navigation in this document

The data are sorted by element, then by isotope and finally by reaction. In order to facilitate access to the information, two navigation modes are available in addition to the usual bookmark. At the top of each page, on the first row, the previous (<<) and next (>>) "Isotope links" allow the reader to move from one isotope to another while staying on the same MT reaction. On the second row, the "MT links" allow scanning all reactions of a given isotope. The latter navigation mode is actually similar to the use of the page up and page down keys.

References

- [1] N. Soppera *et al.*, *Journal of the Korean Physical Society*, 59 (2011) 1329. See also www.oecd-nea.org/janis.
- [2] G. Audi, A.H. Wapstra, *et al.*, *Nuclear Physics A* 729 (2003) 3-676.

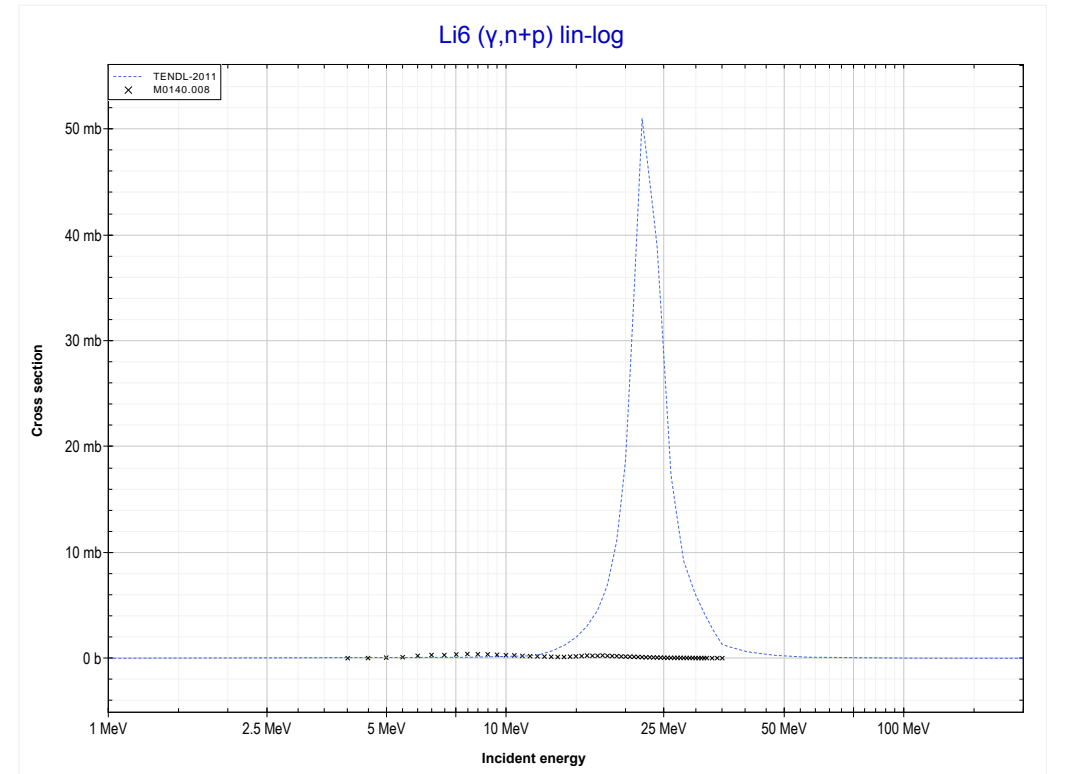
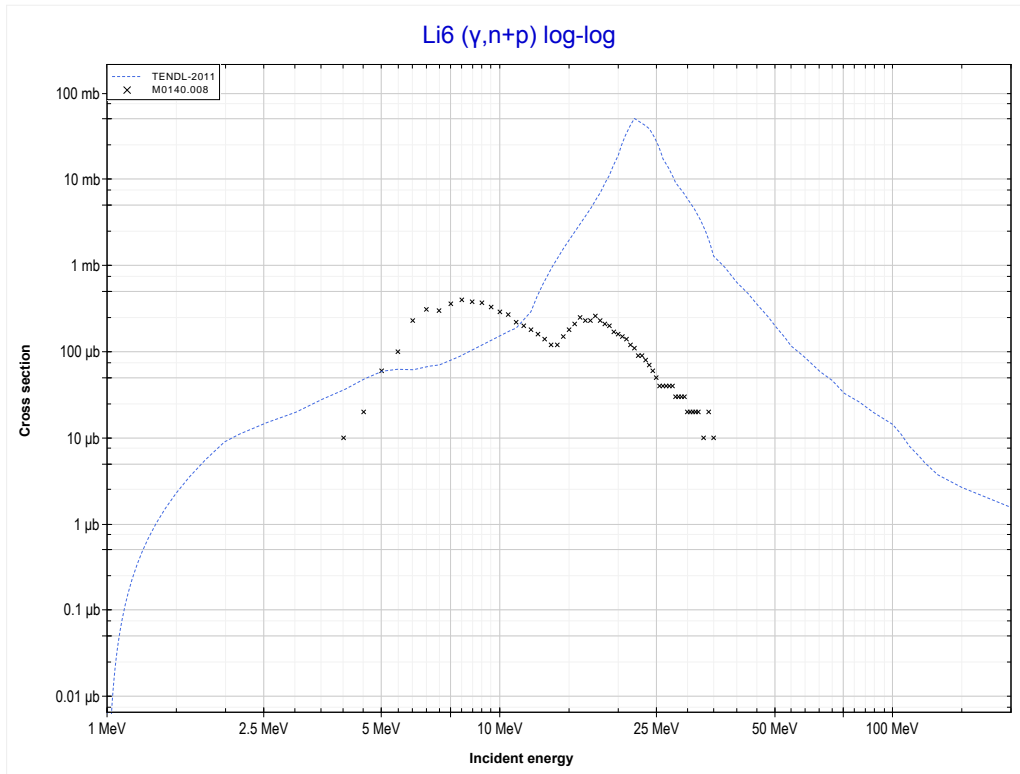
Table 1: list of databases used in the inter-comparison

Library	Release date
ENDF/B-VII.1	December 2011
JENDL/PD-2004	2004
TENDL-2011	December 2011
EXFOR	May 2012

Table 2: list of exclusive reactions used in the inter-comparison

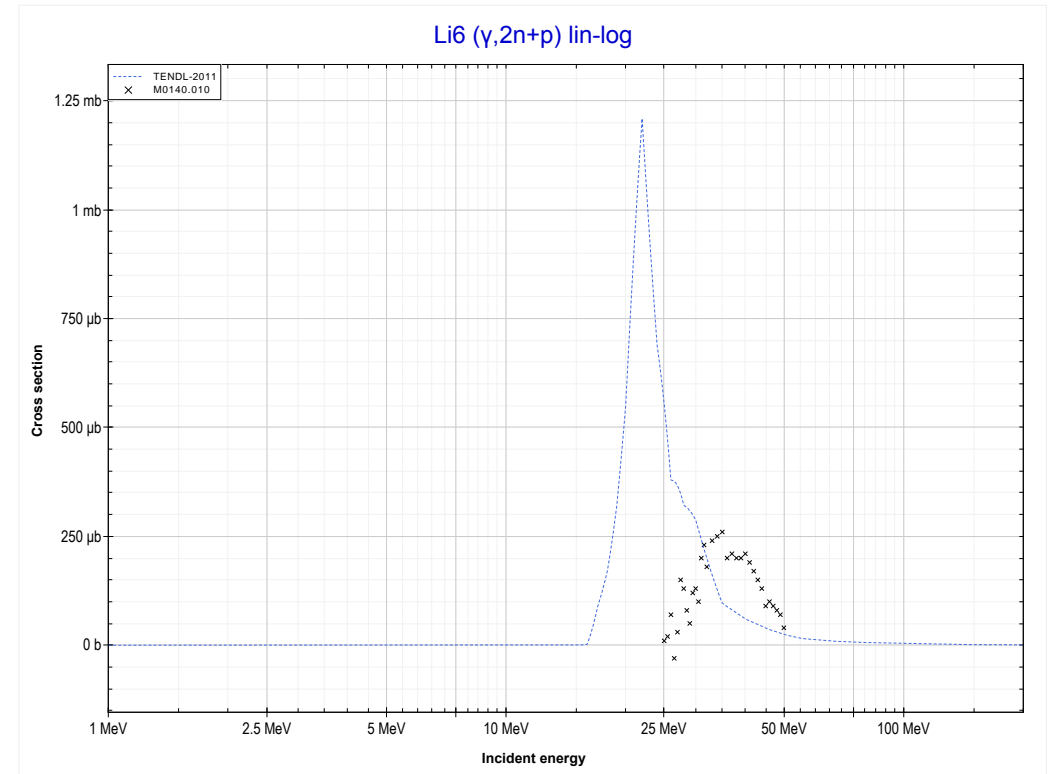
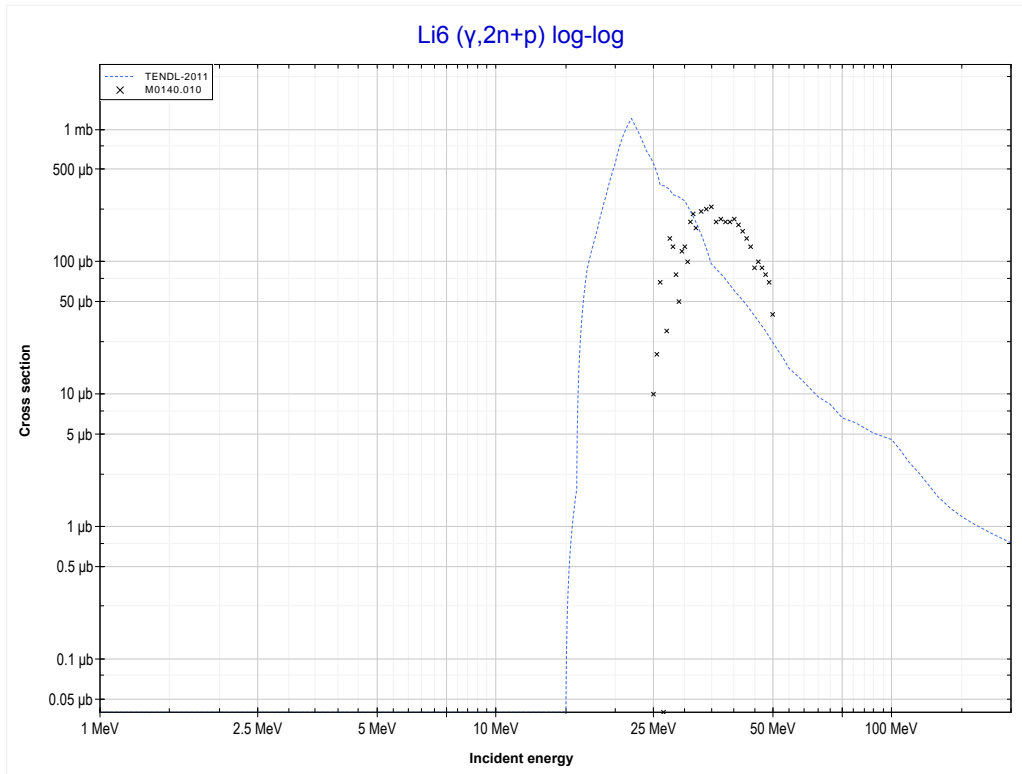
MT	Reaction	MT	Reaction	MT	Reaction	MT	Reaction
4	n	102	gamma	159	2n+p+a	181	3n+p+a
11	2n+d	103	p	160	7n	182	d+t
16	2n	104	d	161	8n	183	n+p+d
17	3n	105	t	162	5n+p	184	n+p+t
18	fission	106	h	163	6n+p	185	n+d+t
22	n+a	107	a	164	7n+p	186	n+p+h
23	n+3a	108	2a	165	4n+a	187	n+d+h
24	2n+a	109	3a	166	5n+a	188	n+t+h
25	3n+a	111	2p	167	6n+a	189	n+t+a
28	n+p	112	p+a	168	7n+a	190	2n+2p
29	n+2a	113	t+2a	169	4n+d	191	p+h
30	2n+2a	114	d+2a	170	5n+d	192	d+h
32	n+d	115	p+d	171	6n+d	193	h+a
33	n+t	116	p+t	172	3n+t	194	4n+2p
34	n+h	117	d+a	173	4n+t	195	4n+2a
35	n+d+2a	152	5n	174	5n+t	196	4n+p+a
36	n+t+2a	153	6n	175	6n+t	197	3p
37	4n	154	2n+t	176	2n+h	198	n+3p
41	2n+p	155	t+a	177	3n+h	199	3n+2p+a
42	3n+p	156	4n+p	178	4n+h	200	5n+2p
44	n+2p	157	3n+d	179	3n+2p		
45	n+p+a	158	n+d+a	180	3n+2a		

	3-Li-6	4-Be-9 >>
	MT28 ($\gamma, n+p$) or MT5 (He4 production)	MT41 ($\gamma, 2n+p$) >>



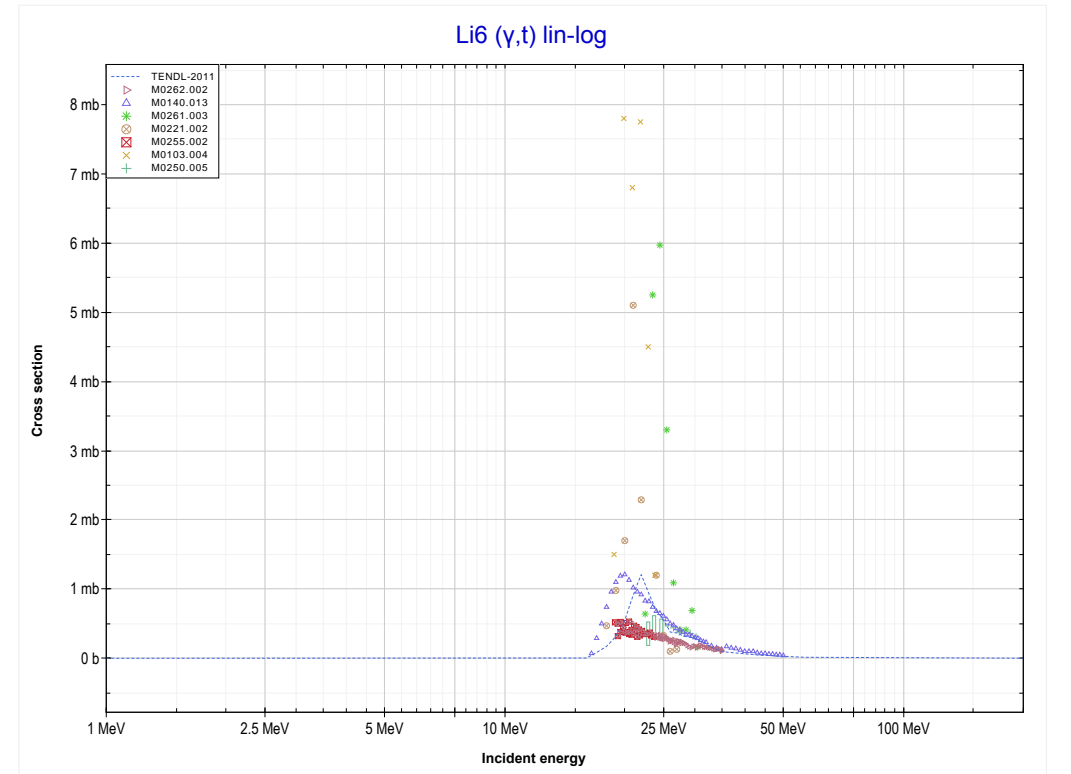
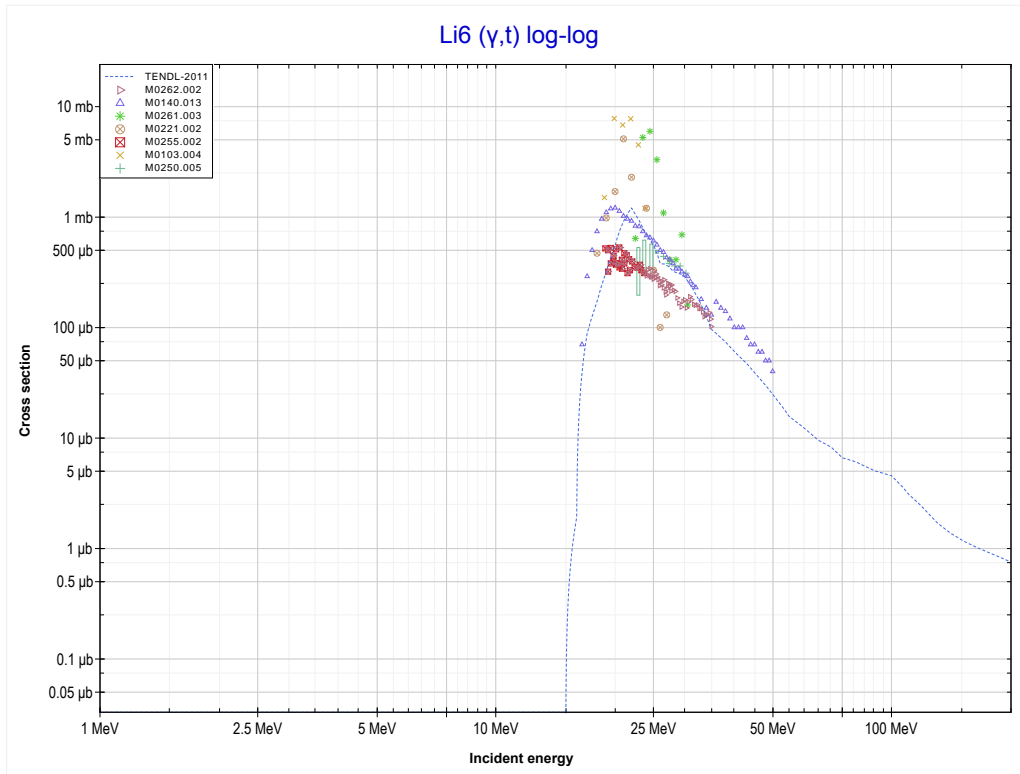
Reaction	Q-Value
Li6(γ, d)He4	-1473.84 keV
Li6($\gamma, n+p$)He4	-3698.41 keV

	3-Li-6	3-Li-7 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (He3 production)	MT105 (γ, t) >>



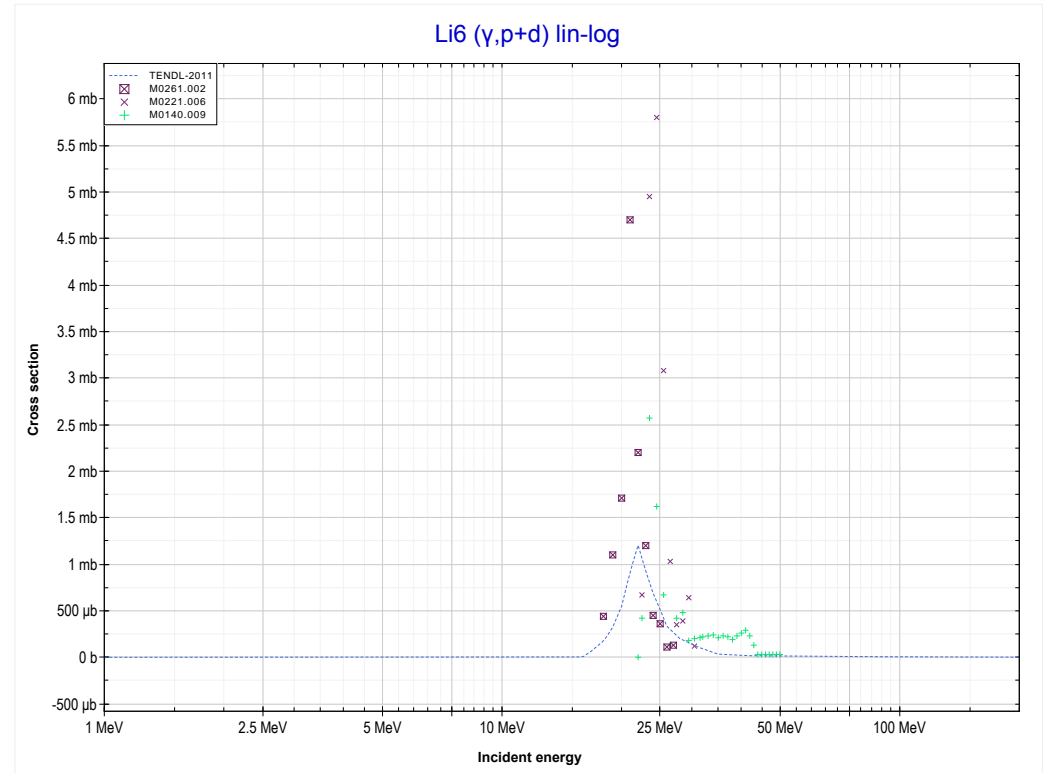
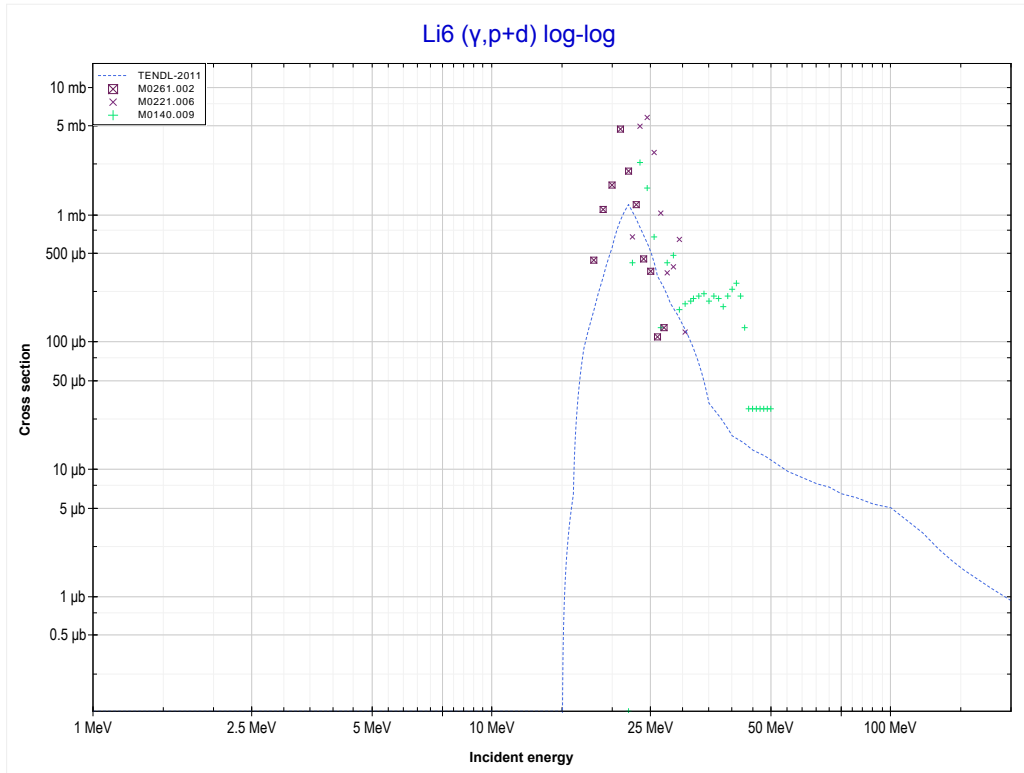
Reaction	Q-Value
Li6(γ, t)He3	-15794.23 keV
Li6($\gamma, n+d$)He3	-22051.46 keV
Li6($\gamma, 2n+p$)He3	-24276.03 keV

	3-Li-6	3-Li-7 >>
<< MT41 ($\gamma,2n+p$)	MT105 (γ,t) or MT5 (He3 production)	MT115 ($\gamma,p+d$) >>



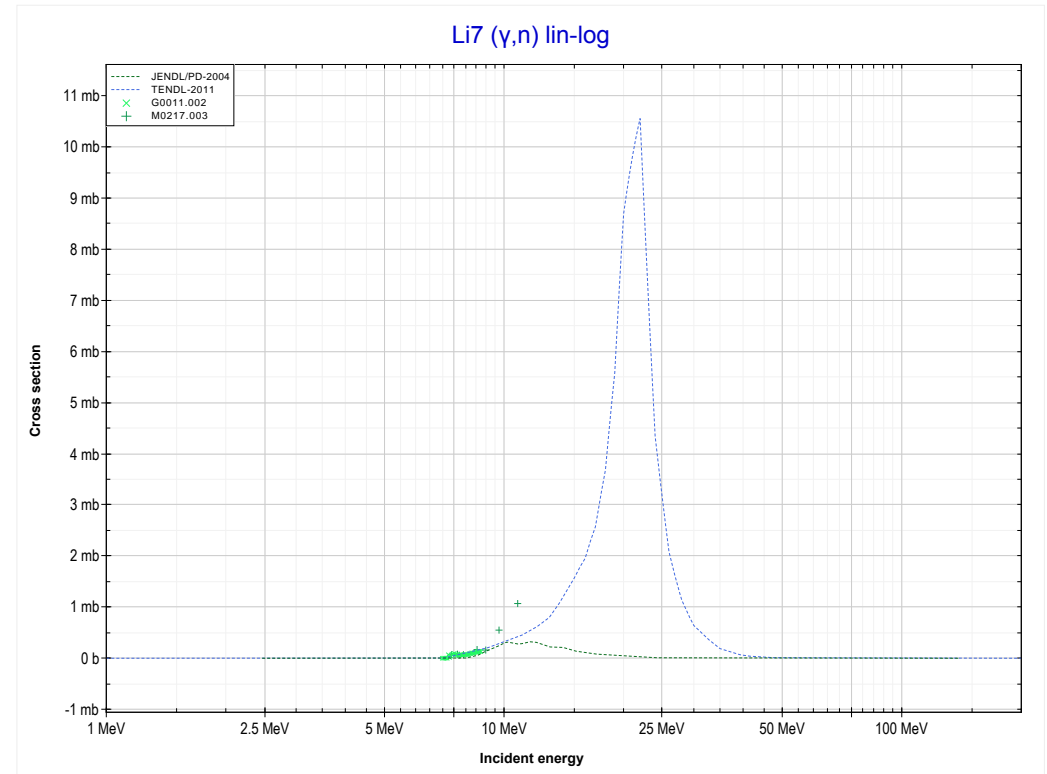
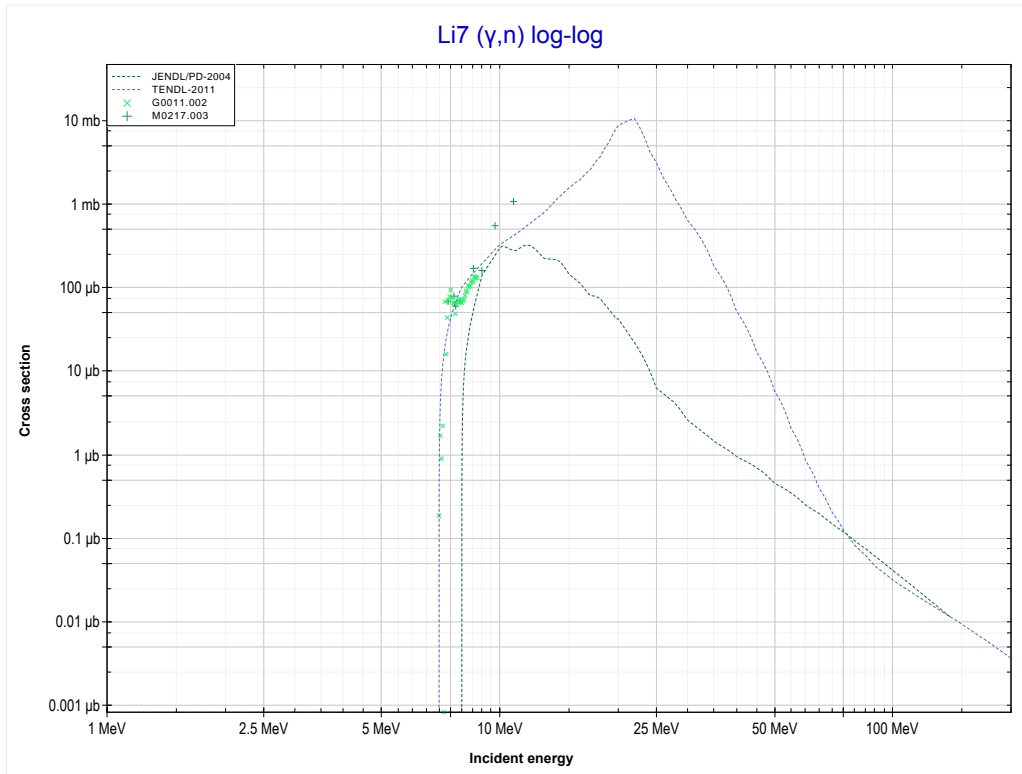
Reaction	Q-Value
Li6(γ,t)He3	-15794.23 keV
Li6($\gamma,n+d$)He3	-22051.46 keV
Li6($\gamma,2n+p$)He3	-24276.03 keV

	3-Li-6	
<< MT105 (γ,t)	MT115 (γ,p+d) or MT5 (H3 production)	MT4 (γ,n) >>



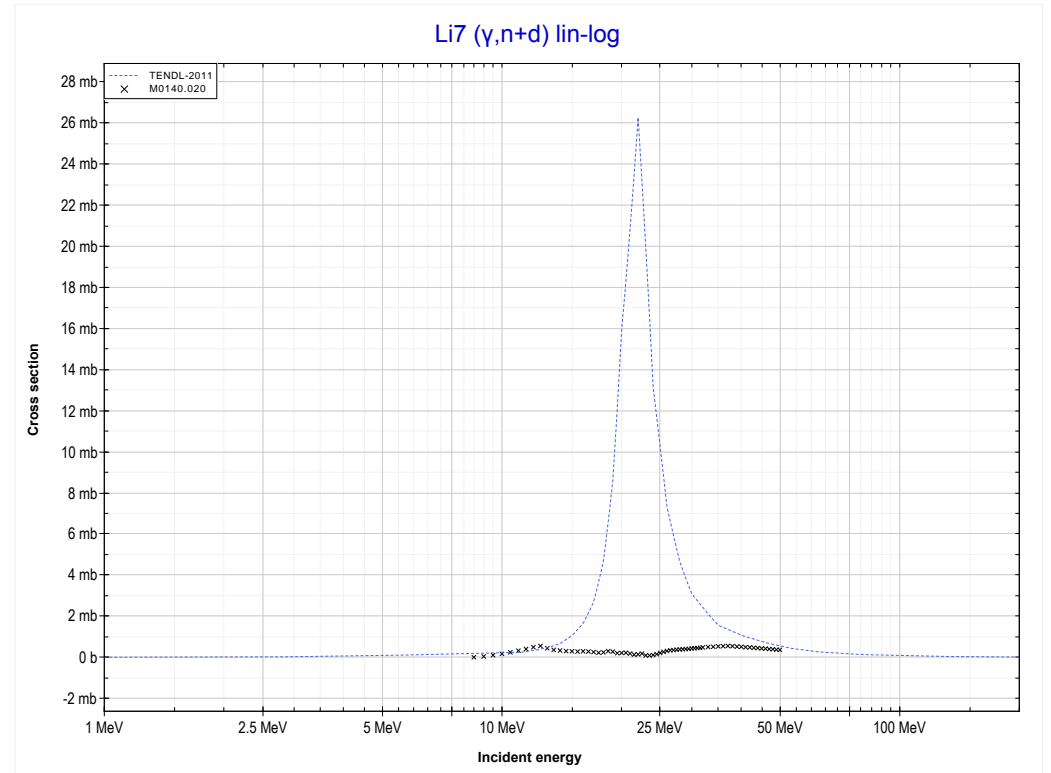
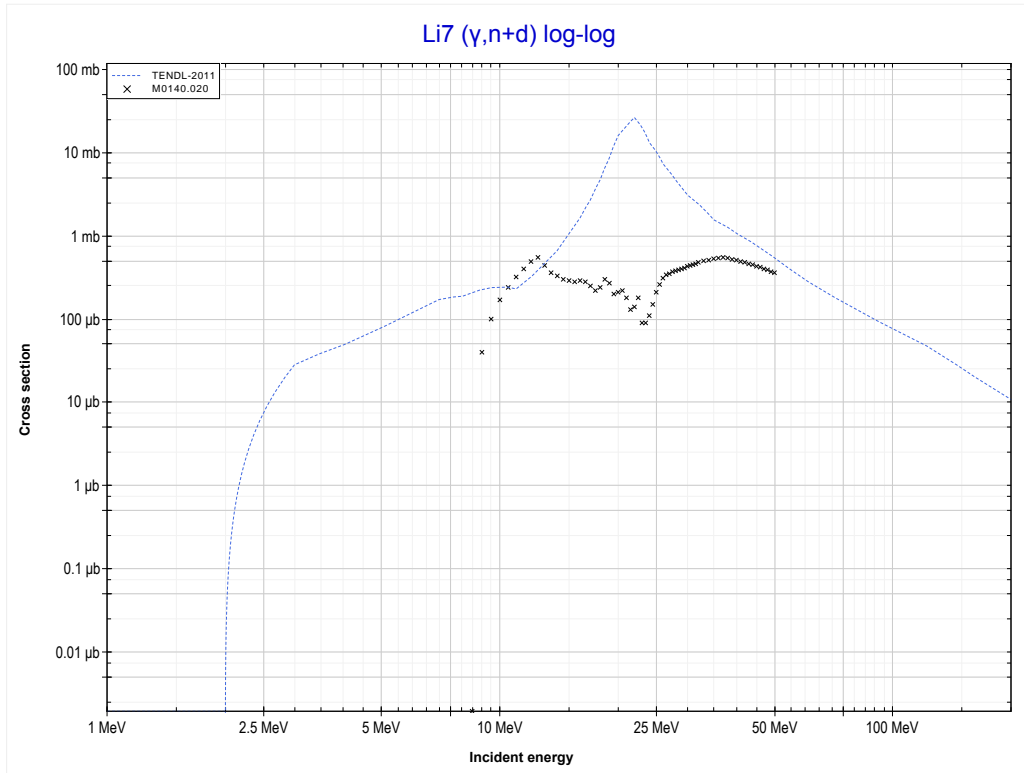
Reaction	Q-Value
Li6(γ,He3)H3	-15794.23 keV
Li6(γ,p+d)H3	-21287.71 keV
Li6(γ,n+2p)H3	-23512.27 keV

	3-Li-7	4-Be-9 >>
<< MT115 ($\gamma, p+d$)	MT4 (γ, n) or MT5 (Li6 production)	MT32 ($\gamma, n+d$) >>



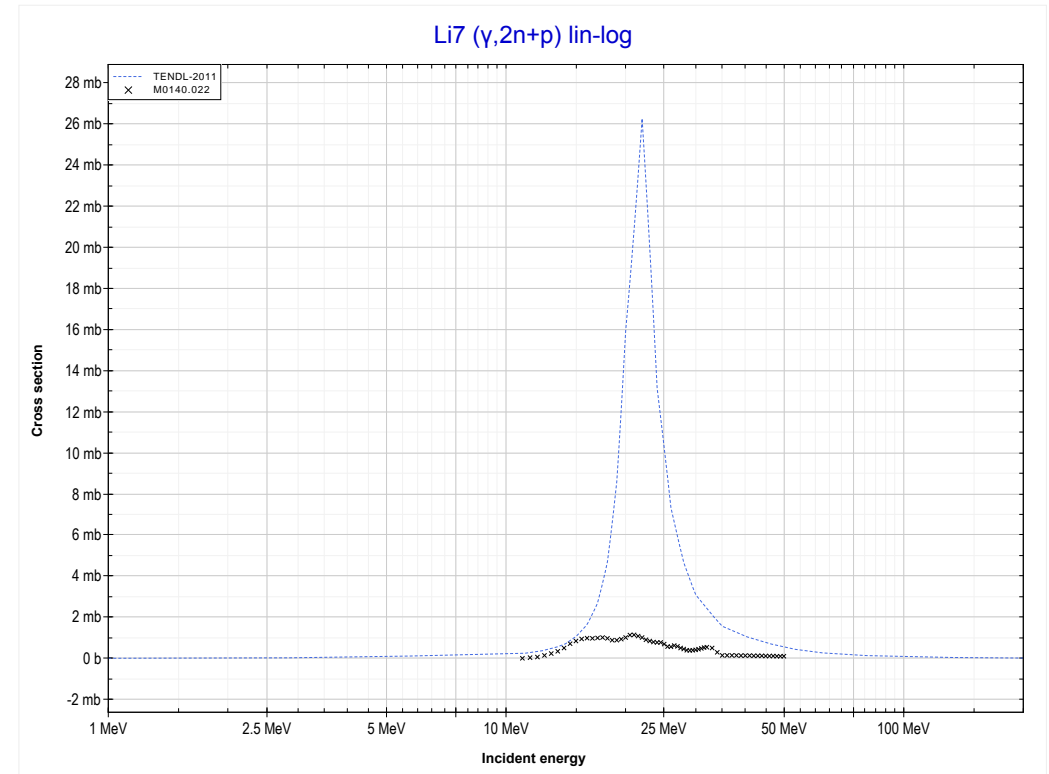
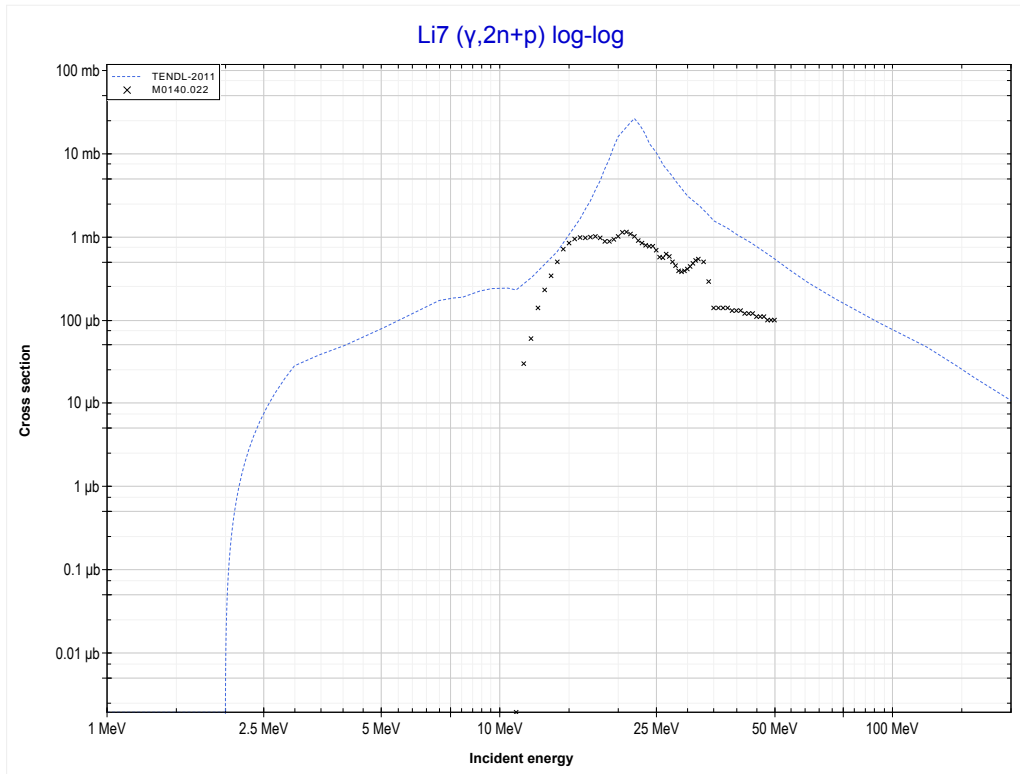
Reaction	Q-Value
Li7(γ, n)Li6	-7249.97 keV

3-Li-7		
<< MT4 (γ, n)	MT32 ($\gamma, n+d$) or MT5 (He4 production)	MT41 ($\gamma, 2n+p$) >>



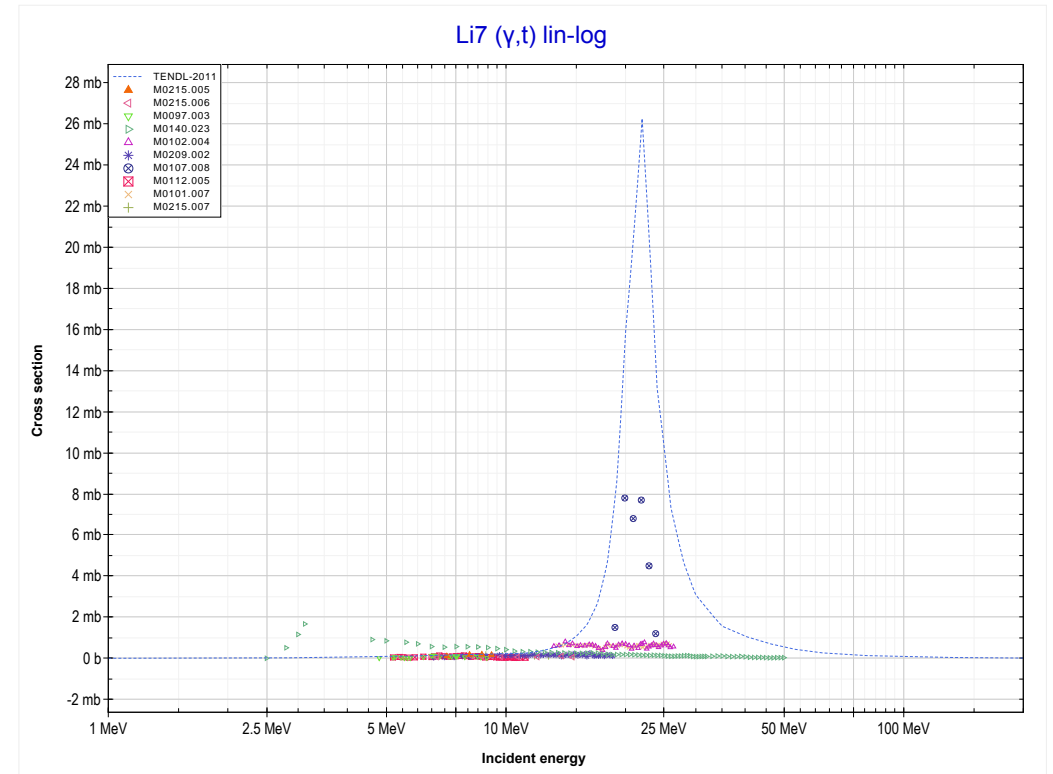
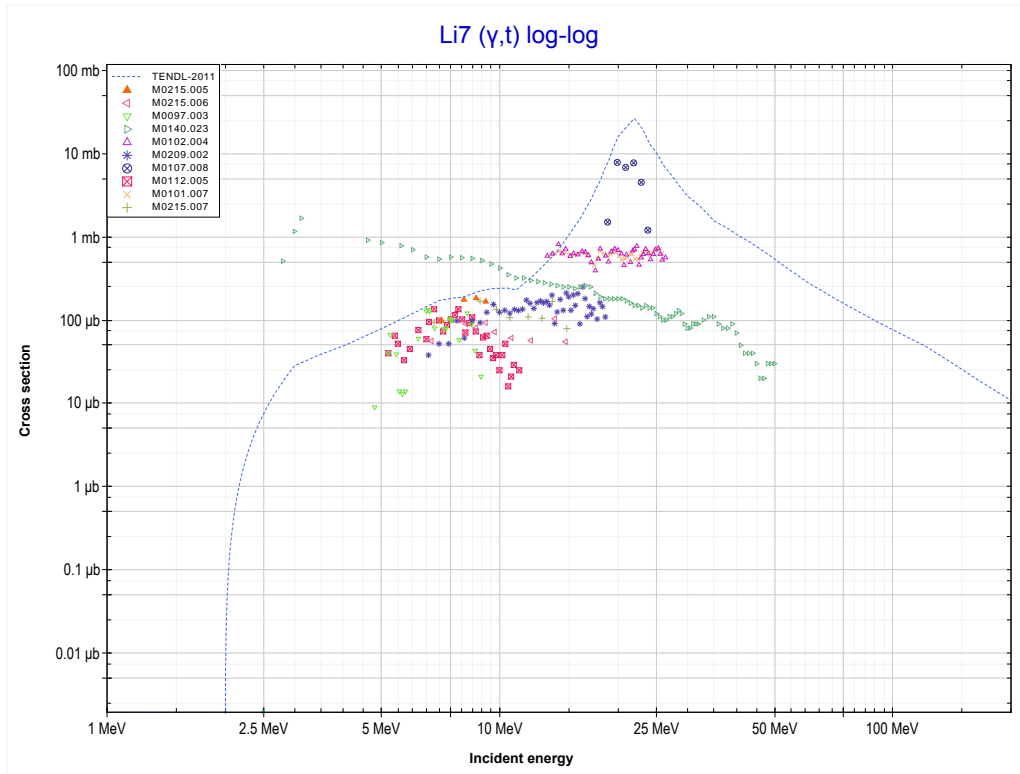
Reaction	Q-Value
$\text{Li7}(\gamma, t)\text{He4}$	-2466.58 keV
$\text{Li7}(\gamma, n+d)\text{He4}$	-8723.81 keV
$\text{Li7}(\gamma, 2n+p)\text{He4}$	-10948.38 keV

<< 3-Li-6	3-Li-7	4-Be-9 >>
<< MT32 ($\gamma, n+d$)	MT41 ($\gamma, 2n+p$) or MT5 (He4 production)	MT105 (γ, t) >>



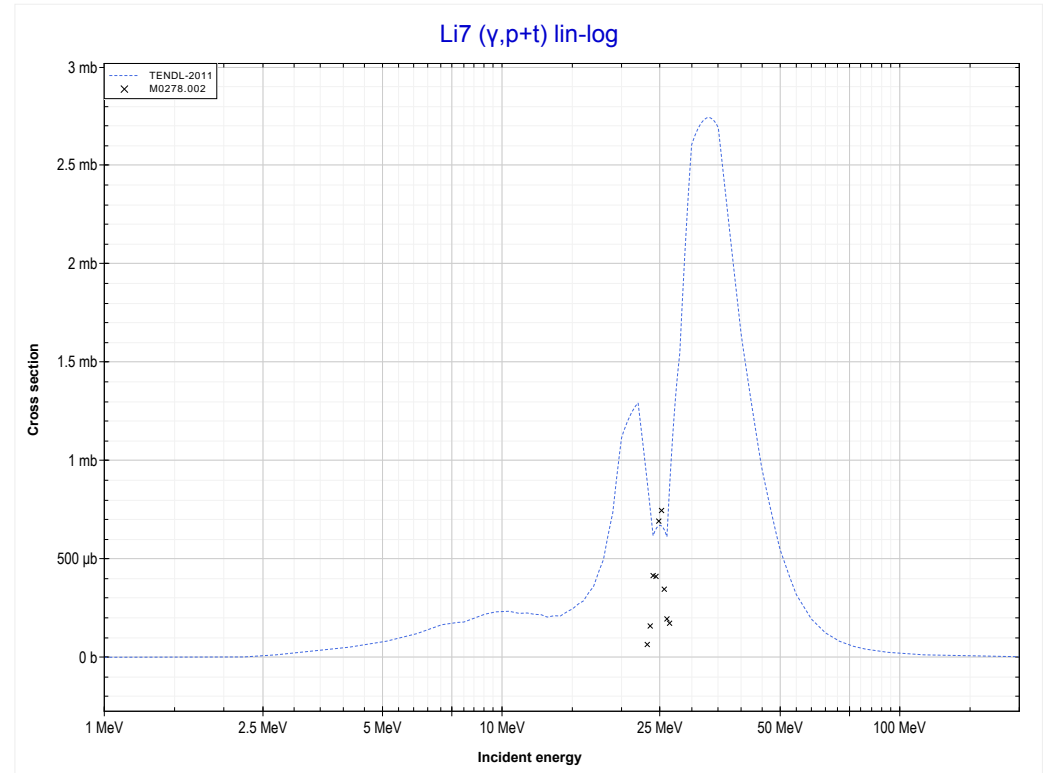
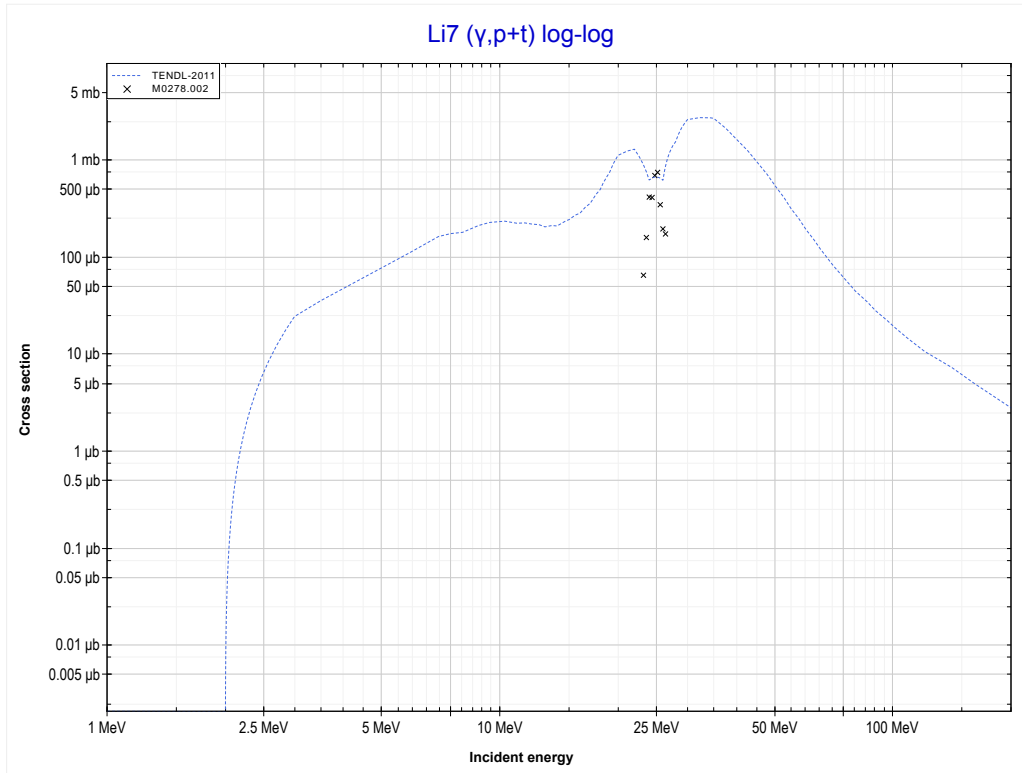
Reaction	Q-Value
Li7(γ, t)He4	-2466.58 keV
Li7($\gamma, n+d$)He4	-8723.81 keV
Li7($\gamma, 2n+p$)He4	-10948.38 keV

<< 3-Li-6	3-Li-7	
<< MT41 ($\gamma,2n+p$)	MT105 (γ,t) or MT5 (He4 production)	MT116 ($\gamma,p+t$) >>



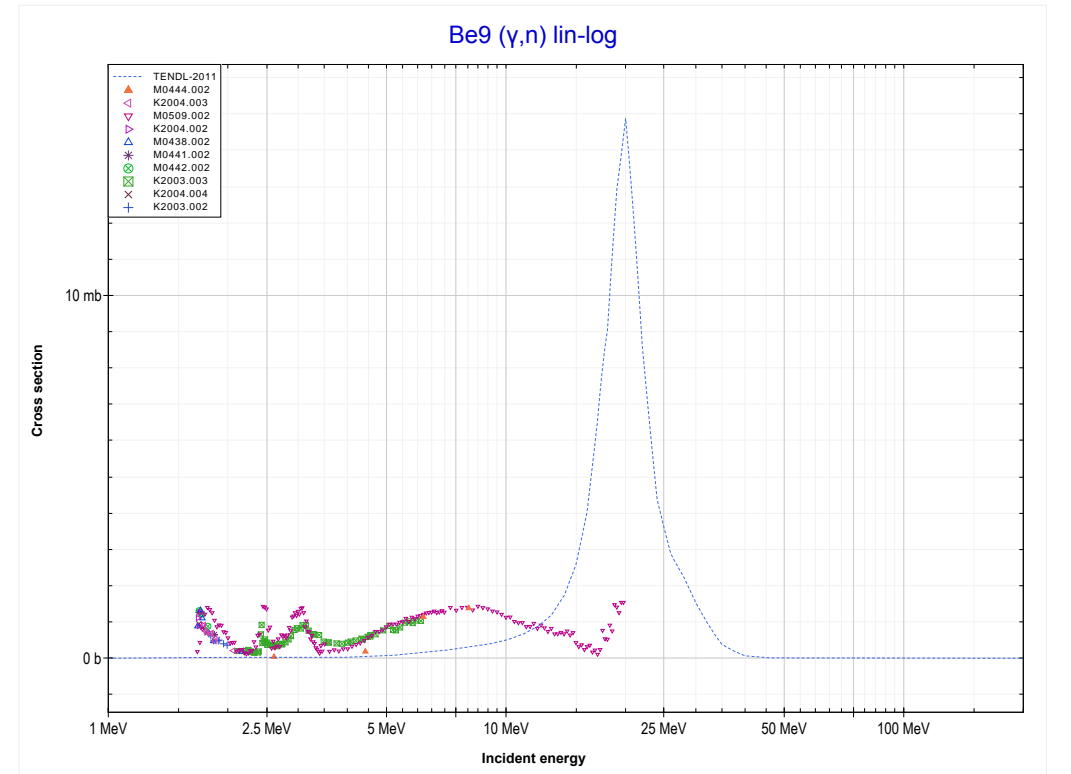
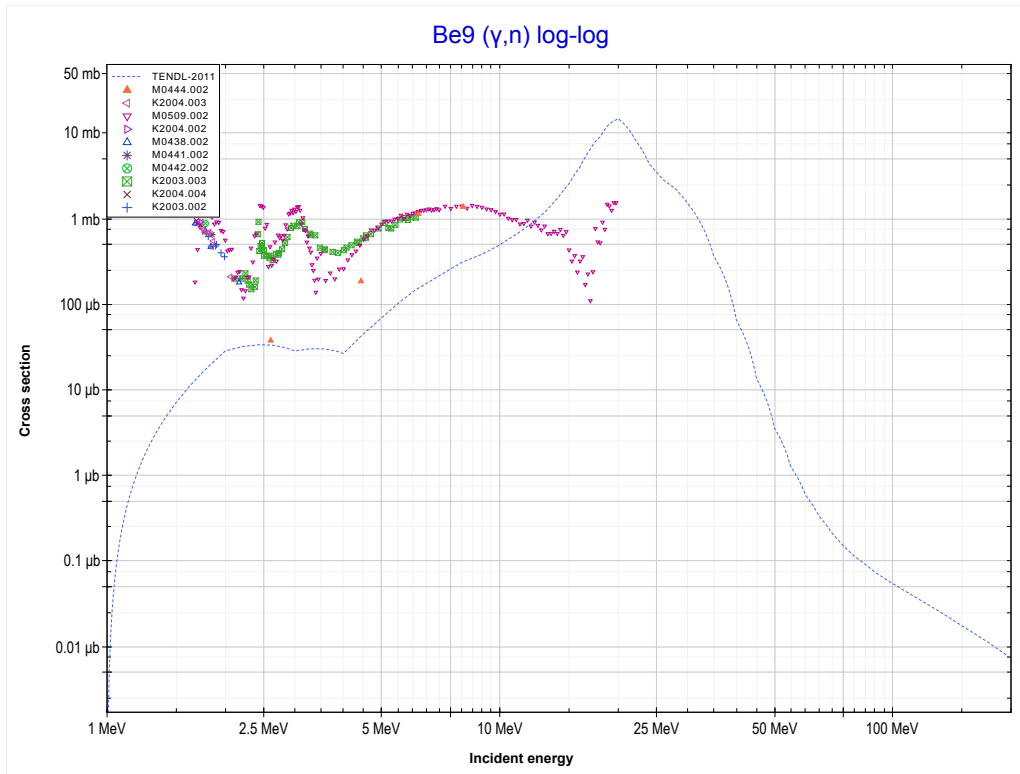
Reaction	Q-Value
Li7(γ,t)He4	-2466.58 keV
Li7($\gamma,n+d$)He4	-8723.81 keV
Li7($\gamma,2n+p$)He4	-10948.38 keV

	3-Li-7	
<< MT105 (γ,t)	MT116 ($\gamma,p+t$) or MT5 (H3 production)	MT4 (γ,n) >>



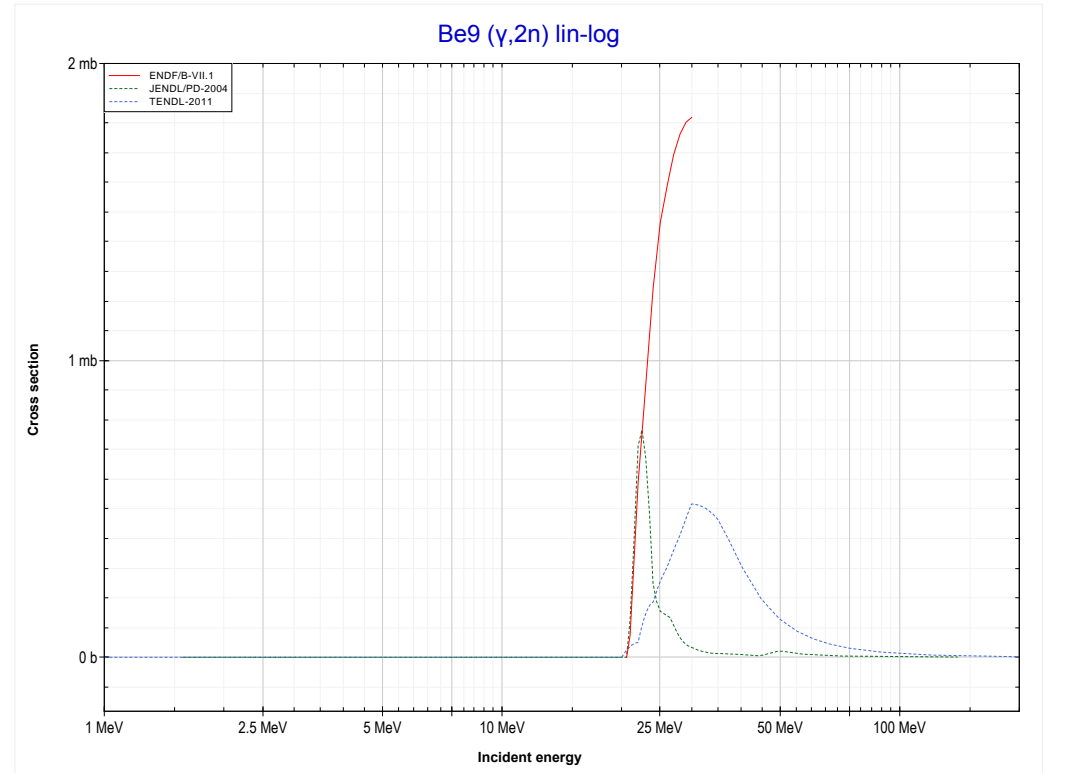
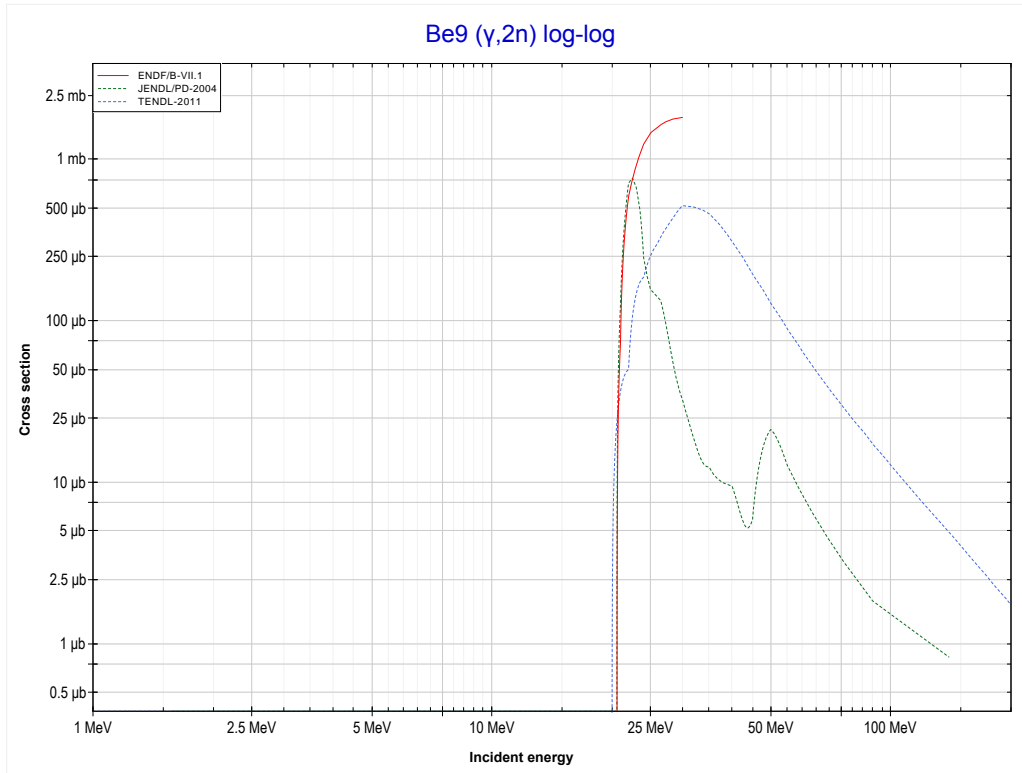
Reaction	Q-Value
Li7(γ,α)H3	-2466.58 keV
Li7($\gamma,p+t$)H3	-22280.44 keV
Li7($\gamma,n+He3$)H3	-23044.20 keV
Li7($\gamma,2d$)H3	-26313.11 keV
Li7($\gamma,n+p+d$)H3	-28537.68 keV
Li7($\gamma,2n+2p$)H3	-30762.24 keV

<< 3-Li-7	4-Be-9	5-B-10 >>
<< MT116 ($\gamma, p+t$)	MT4 (γ, n) or MT5 (Be8 production)	MT16 ($\gamma, 2n$) >>



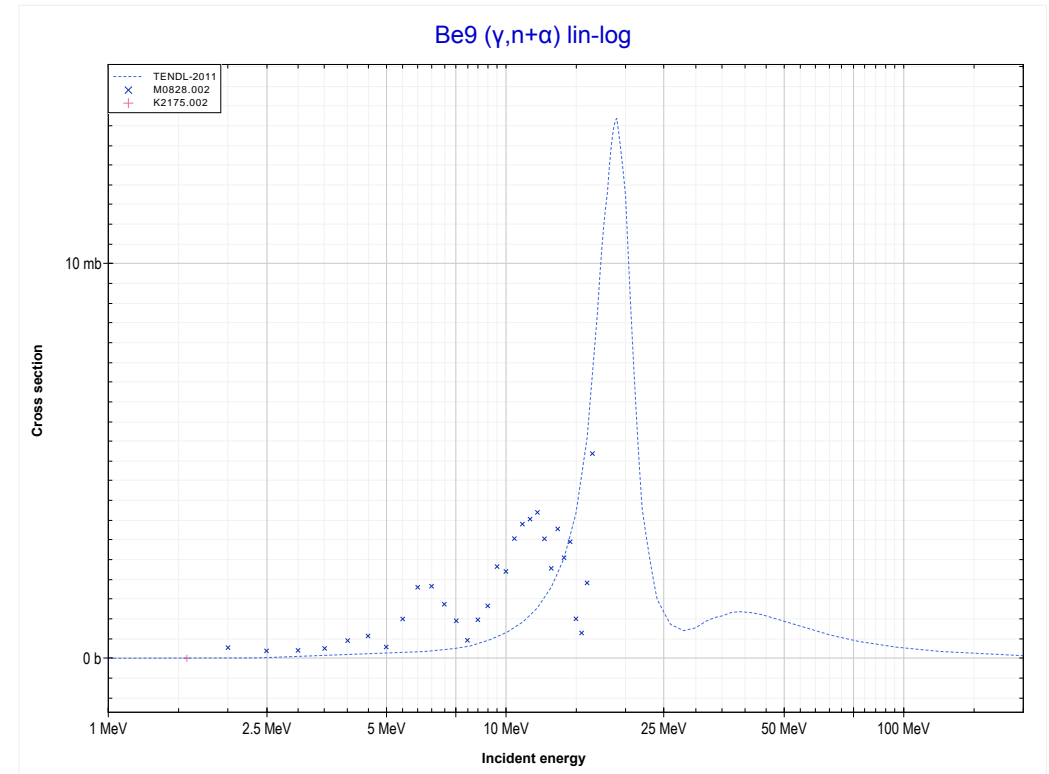
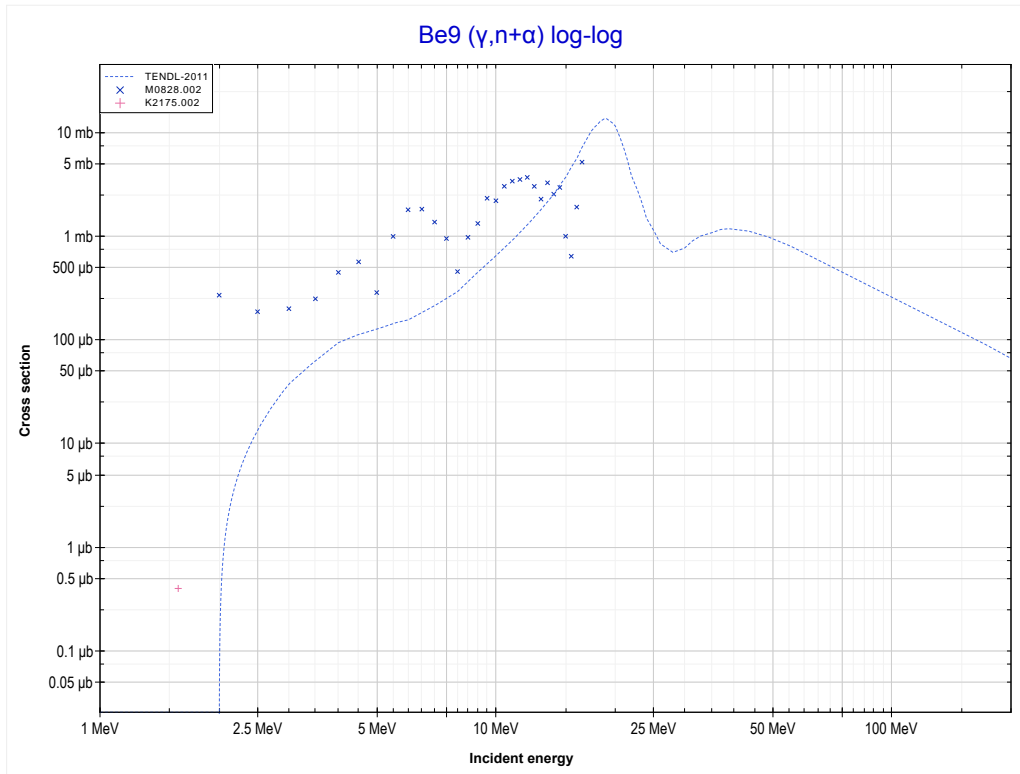
Reaction	Q-Value
Be9(γ, n)Be8	-1665.39 keV

	4-Be-9	5-B-10 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Be7 production)	MT22 ($\gamma, n+\alpha$) >>



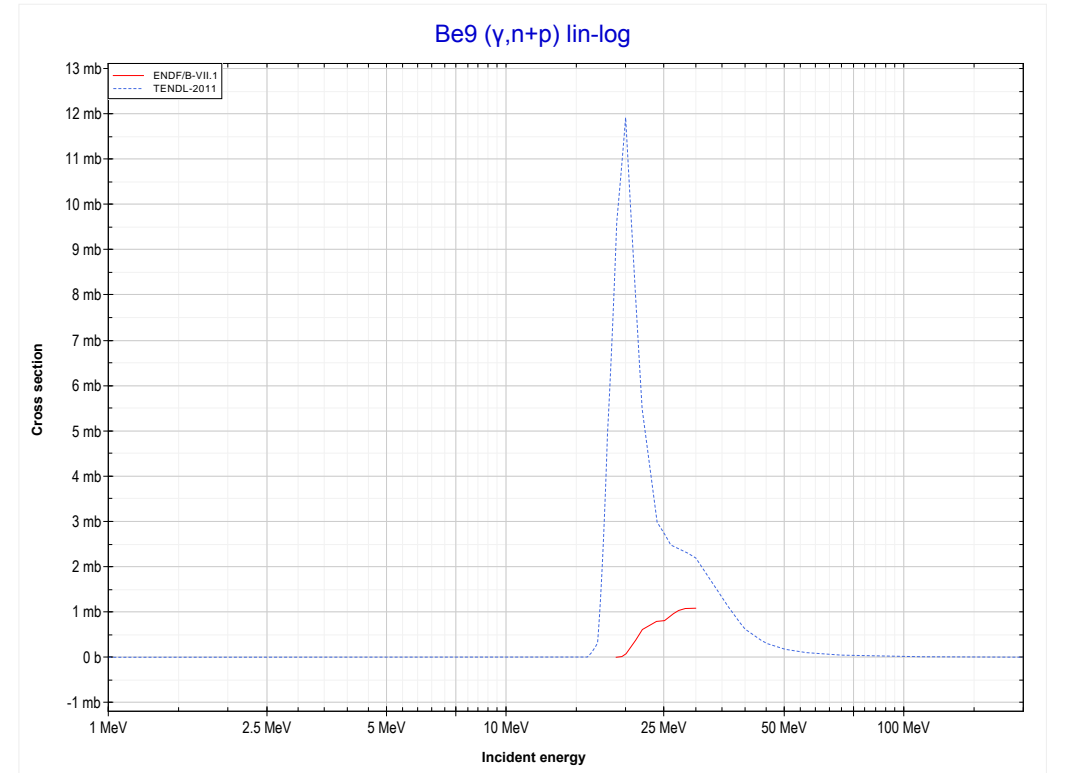
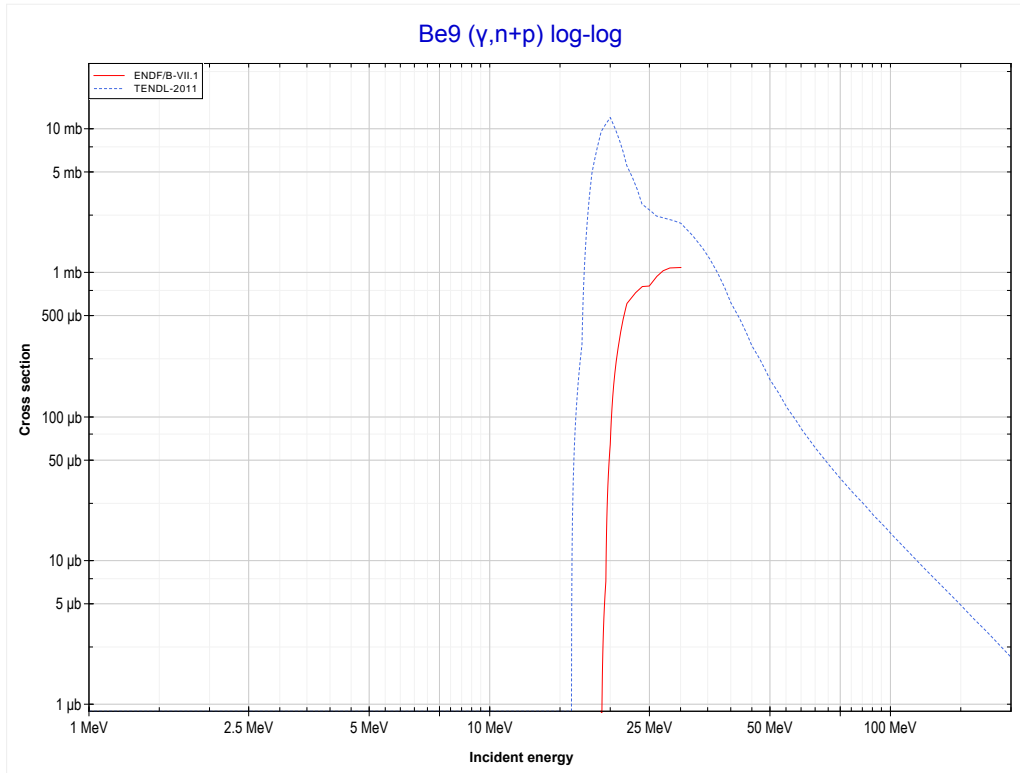
Reaction	Q-Value
Be9($\gamma, 2n$)Be7	-20565.06 keV

	4-Be-9	6-C-12 >>
<< MT16 ($\gamma,2n$)	MT22 ($\gamma,n+\alpha$) or MT5 (He4 production)	MT28 ($\gamma,n+p$) >>



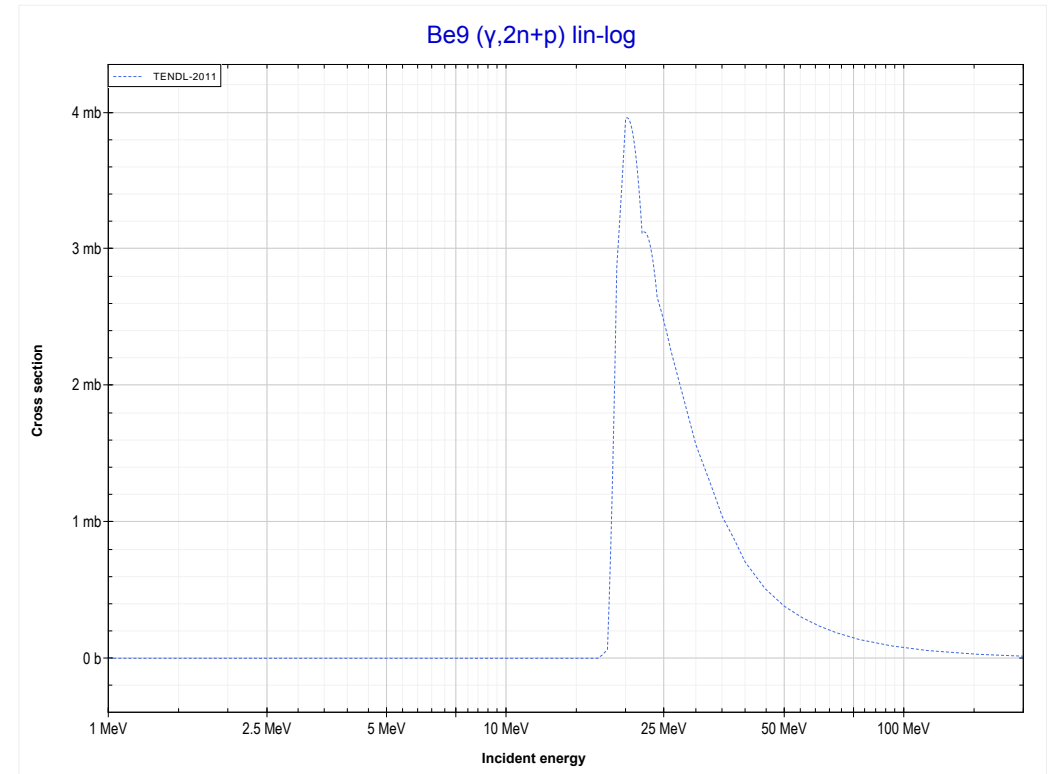
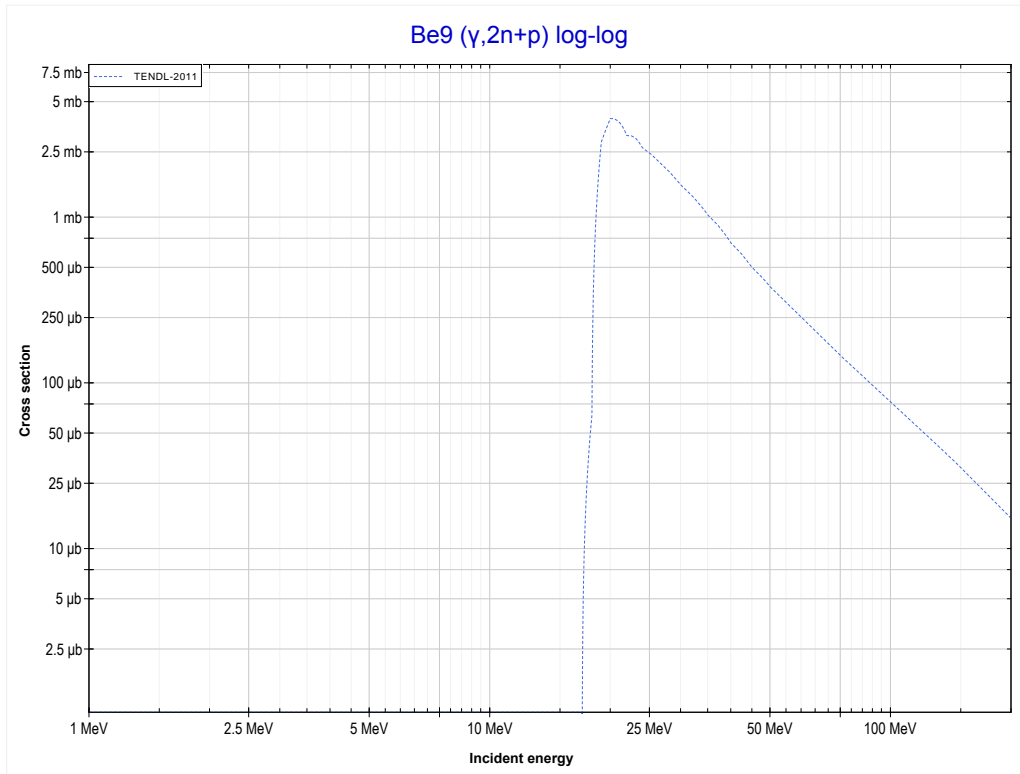
Reaction	Q-Value
Be9($\gamma,n+\alpha$)He4	-1573.55 keV
Be9($\gamma,d+t$)He4	-19162.84 keV
Be9($\gamma,n+p+t$)He4	-21387.41 keV
Be9($\gamma,2n+\text{He3}$)He4	-22151.16 keV
Be9($\gamma,n+2d$)He4	-25420.08 keV
Be9($\gamma,2n+p+d$)He4	-27644.64 keV
Be9($\gamma,3n+2p$)He4	-29869.21 keV

<< 3-Li-6	4-Be-9	5-B-10 >>
<< MT22 ($\gamma, n+\alpha$)	MT28 ($\gamma, n+p$) or MT5 (Li7 production)	MT41 ($\gamma, 2n+p$) >>



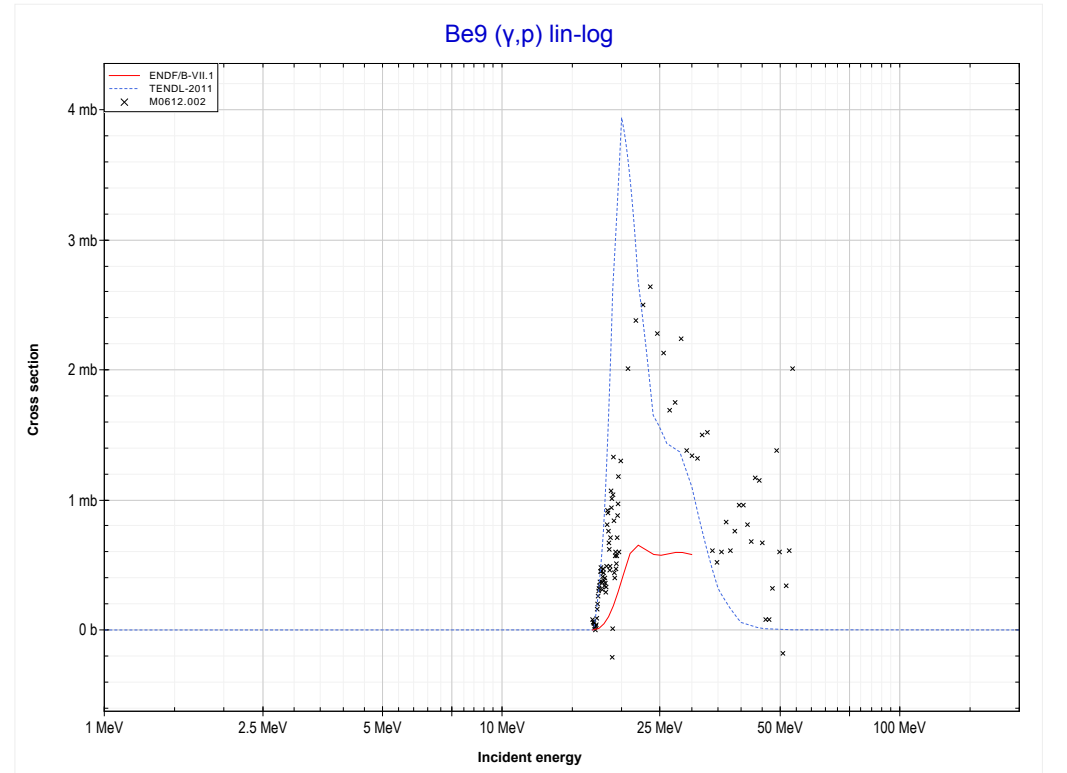
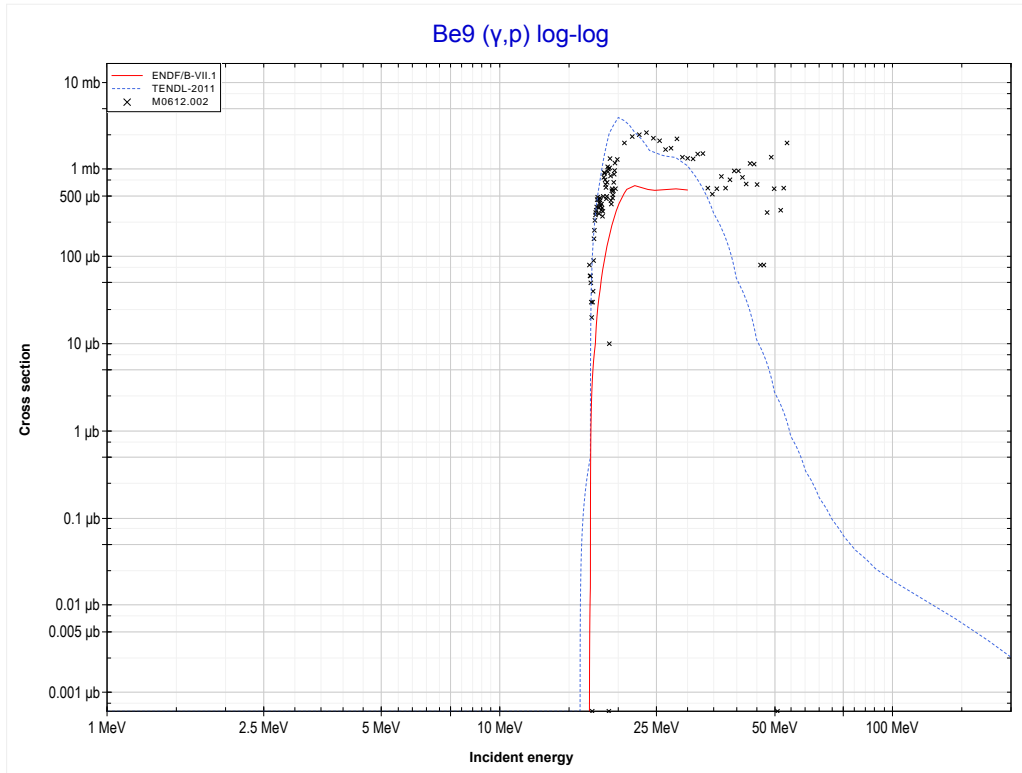
Reaction	Q-Value
Be9(γ, d)Li7	-16696.26 keV
Be9($\gamma, n+p$)Li7	-18920.83 keV

<< 3-Li-7	4-Be-9	5-B-10 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Li6 production)	MT103 (γ, p) >>



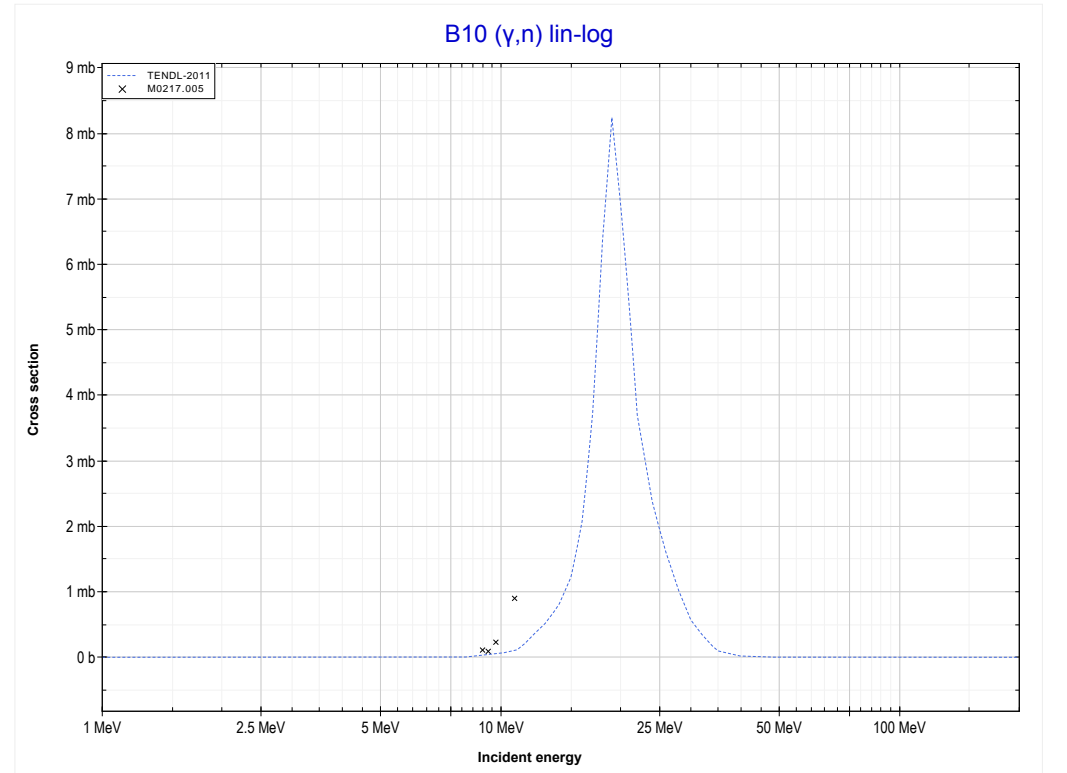
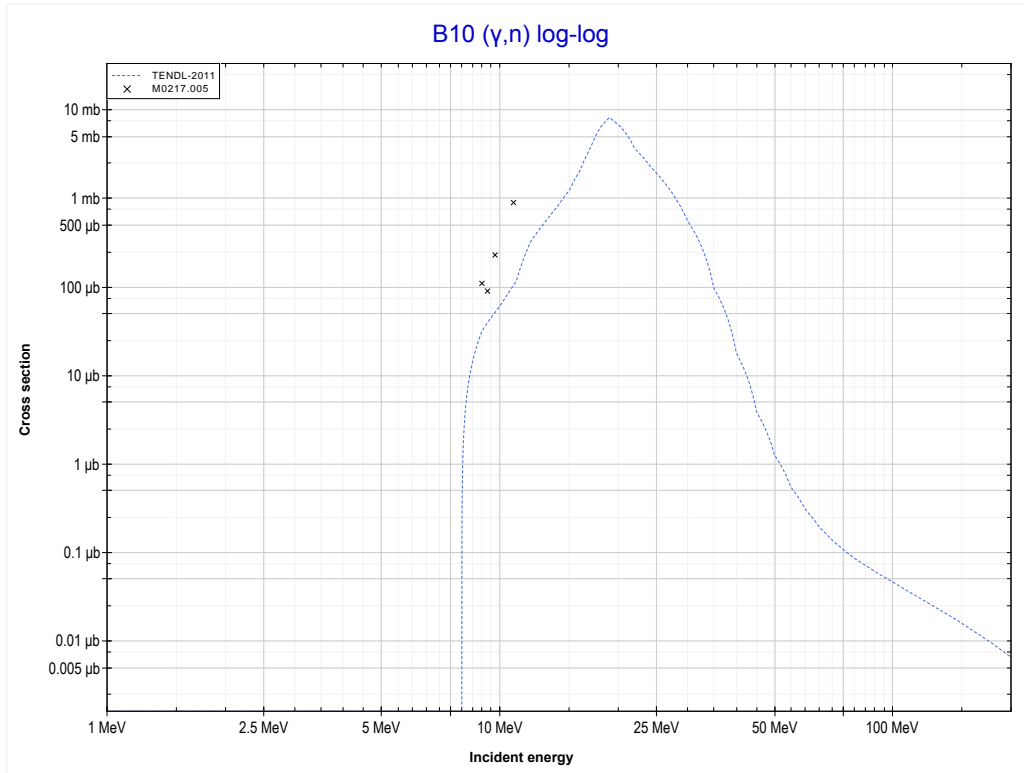
Reaction	Q-Value
Be9(γ, t)Li6	-17689.00 keV
Be9($\gamma, n+d$)Li6	-23946.23 keV
Be9($\gamma, 2n+p$)Li6	-26170.80 keV

	4-Be-9	5-B-11 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (Li8 production)	MT4 (γ, n) >>



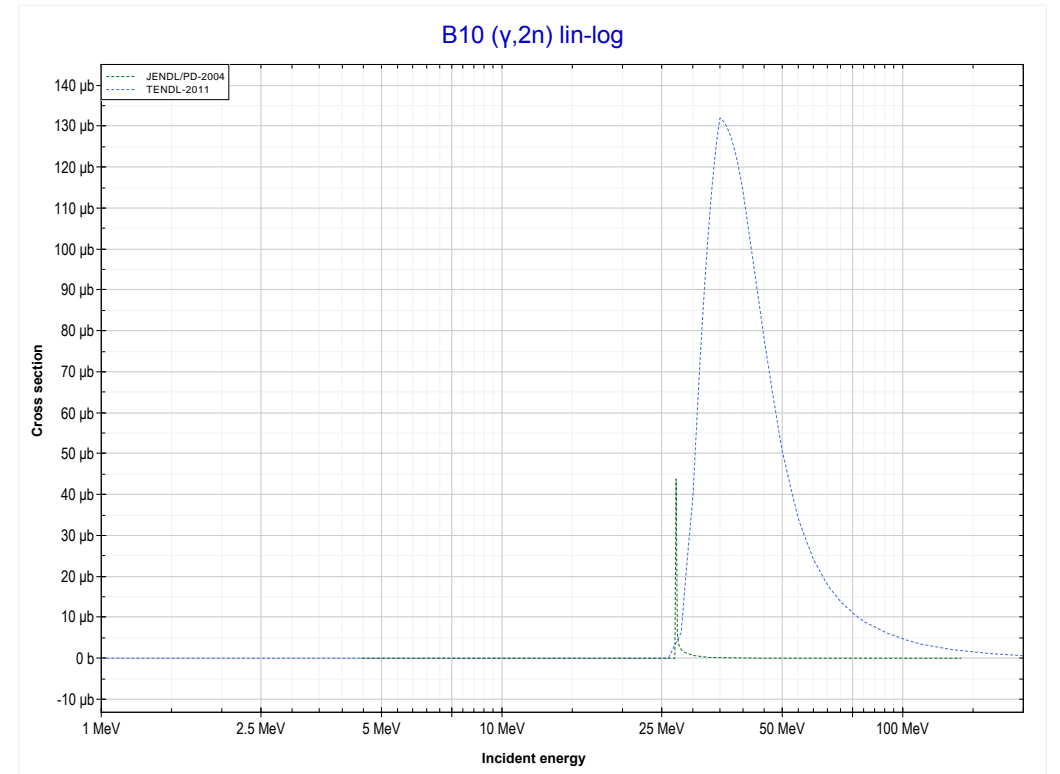
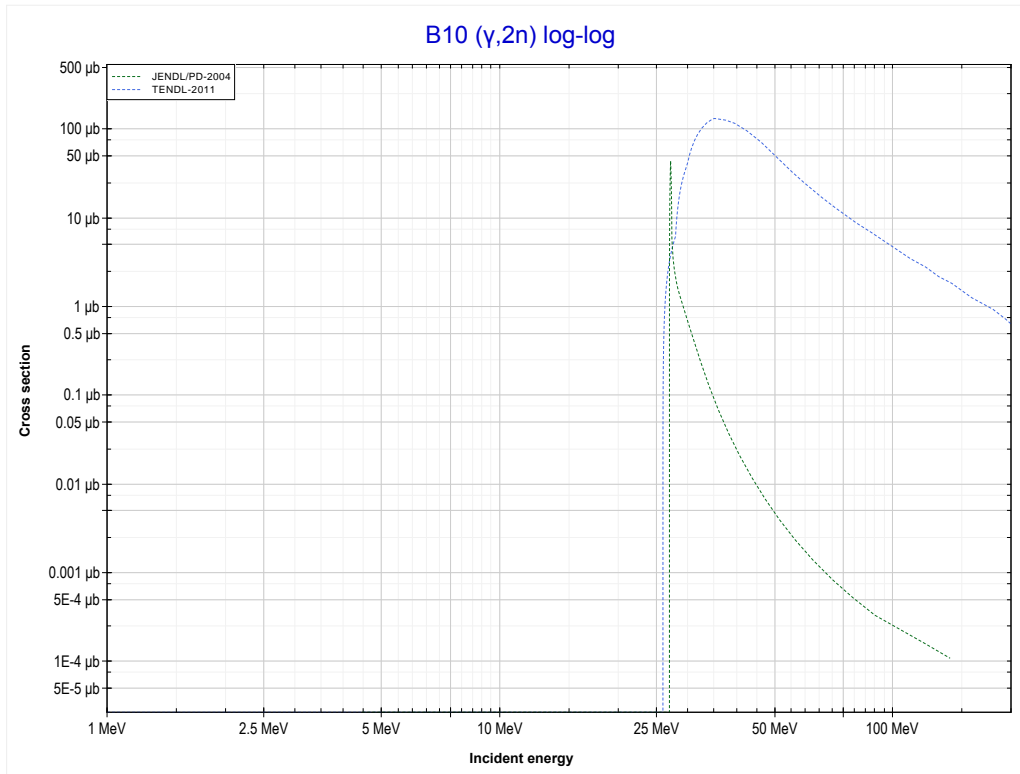
Reaction	Q-Value
Be9(γ, p)Li8	-16888.21 keV

<< 4-Be-9	5-B-10	5-B-11 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (B9 production)	MT16 ($\gamma,2n$) >>



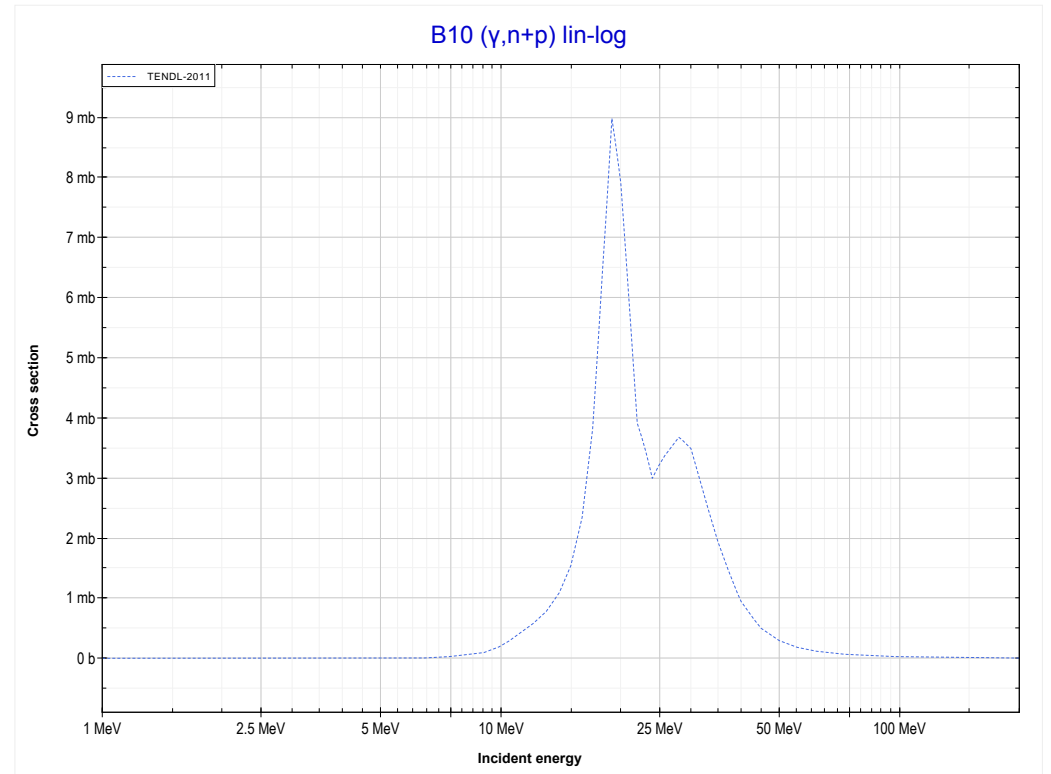
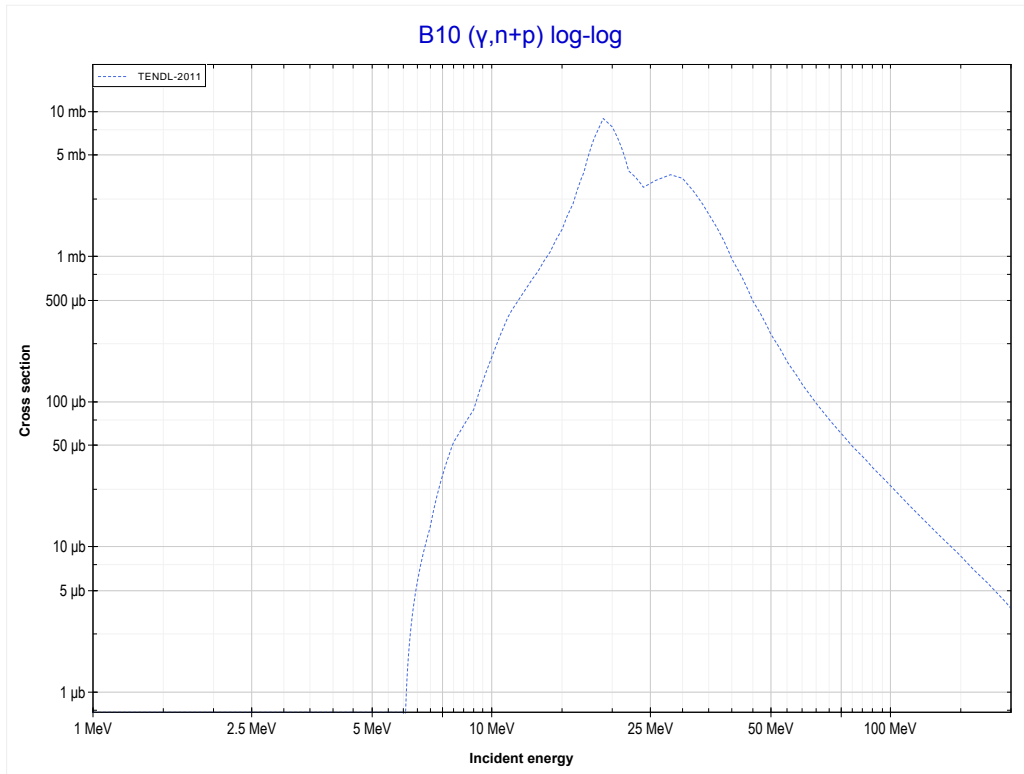
Reaction	Q-Value
B10(γ,n)B9	-8436.32 keV

<< 4-Be-9	5-B-10	5-B-11 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (B8 production)	MT28 ($\gamma,n+p$) >>



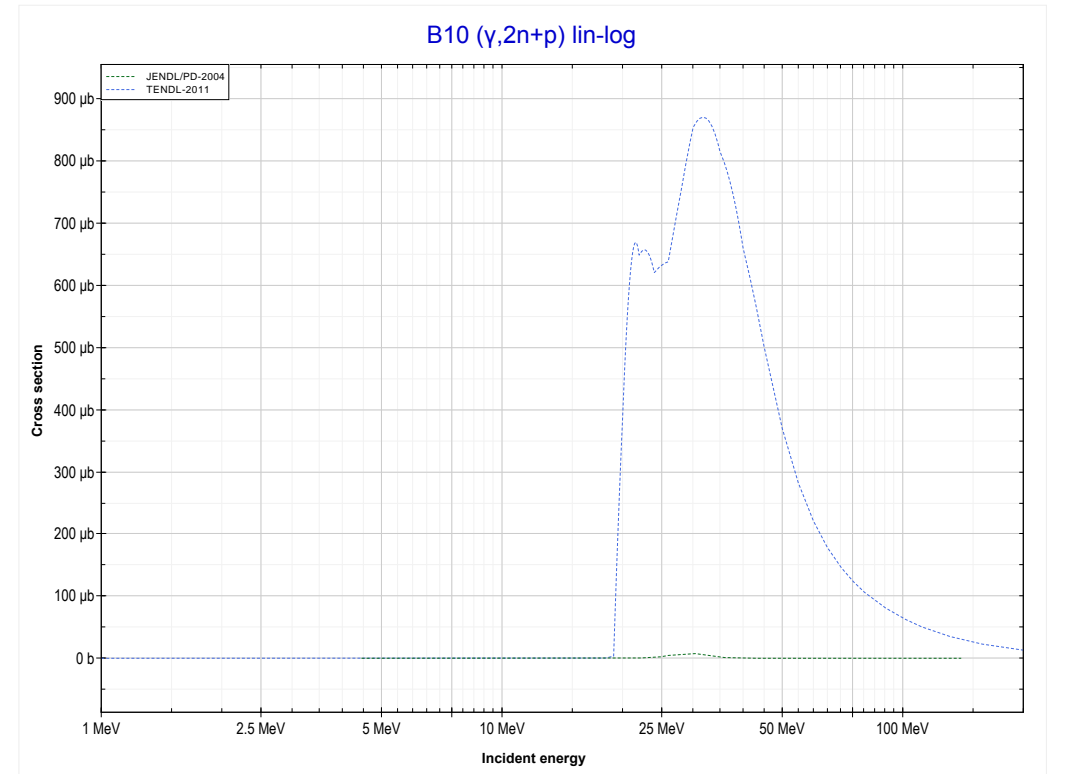
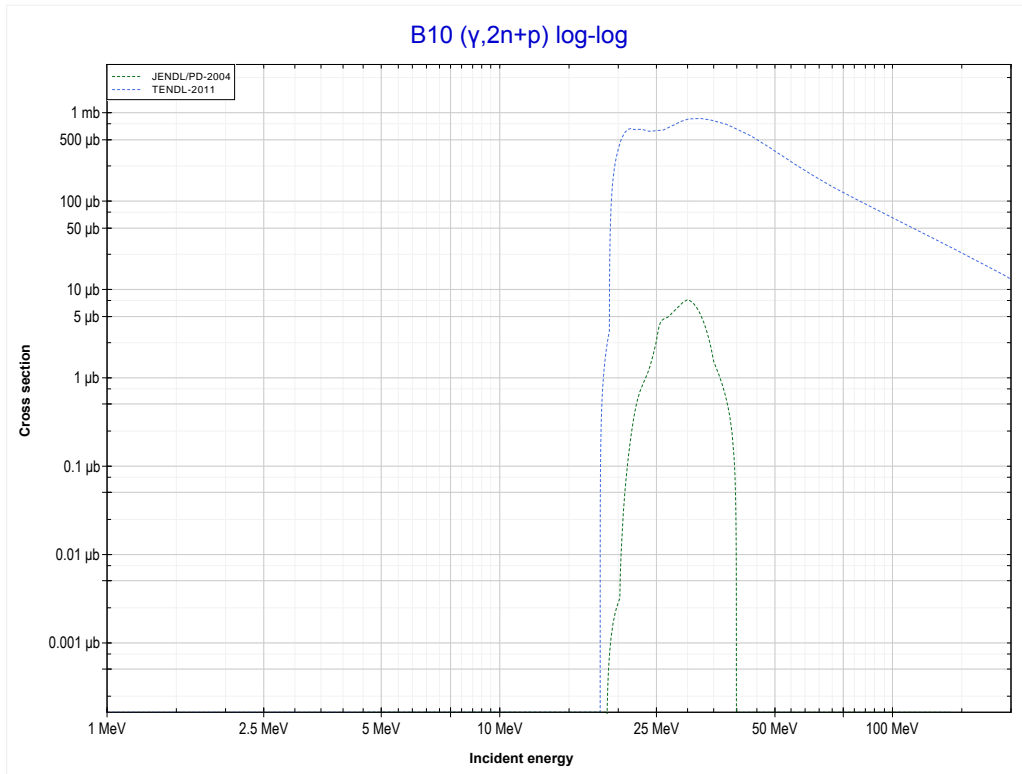
Reaction	Q-Value
B10($\gamma,2n$)B8	-27013.43 keV

<< 4-Be-9	5-B-10	5-B-11 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Be8 production)	MT41 ($\gamma,2n+p$) >>



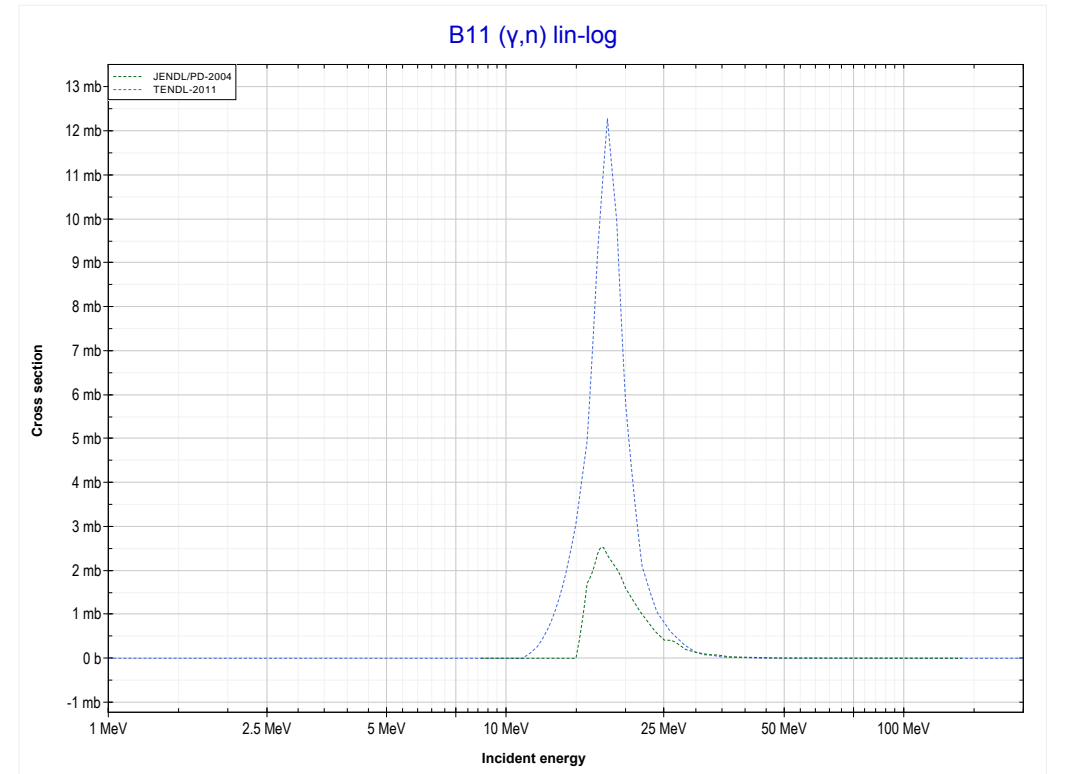
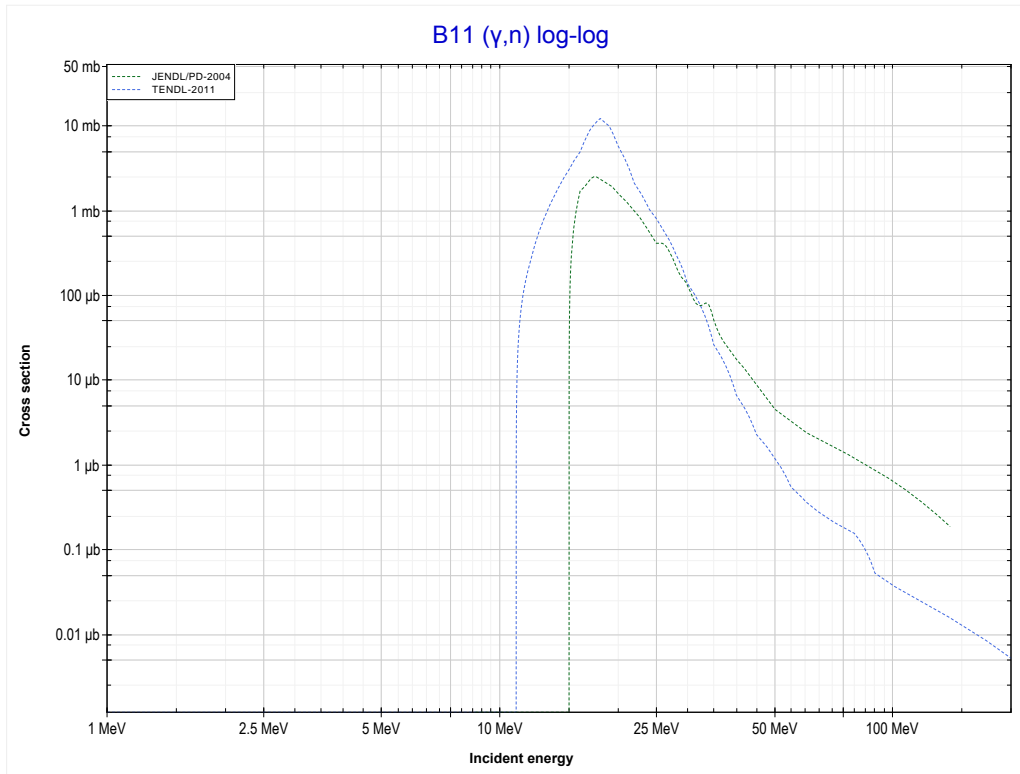
Reaction	Q-Value
B10(γ,d)Be8	-6026.69 keV
B10($\gamma,n+p$)Be8	-8251.26 keV

<< 4-Be-9	5-B-10	5-B-11 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Be7 production)	MT4 (γ, n) >>



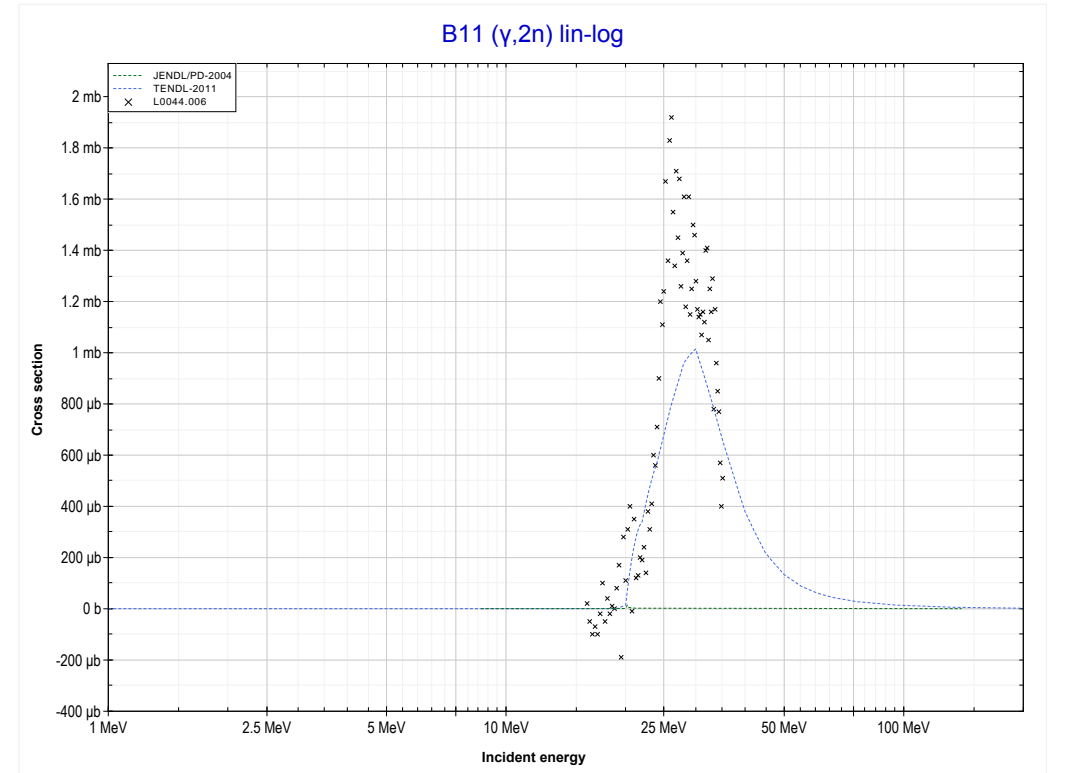
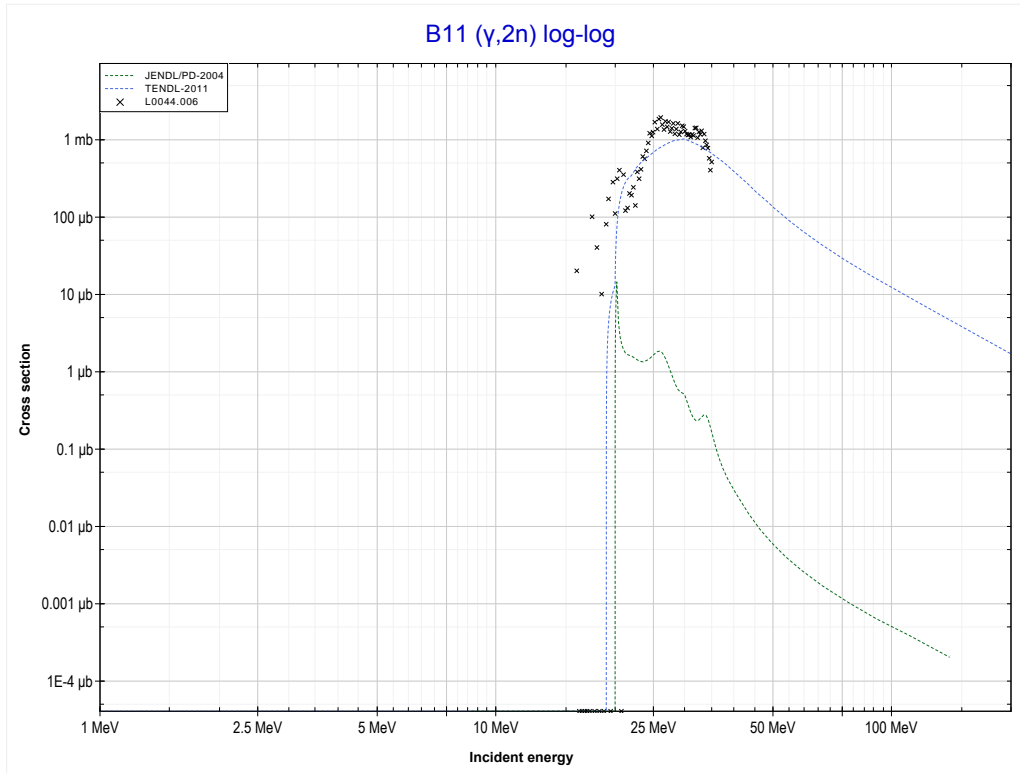
Reaction	Q-Value
B10(γ, t)Be7	-18669.14 keV
B10($\gamma, n+d$)Be7	-24926.37 keV
B10($\gamma, 2n+p$)Be7	-27150.93 keV

<< 5-B-10	5-B-11	6-C-12 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (B10 production)	MT16 ($\gamma,2n$) >>



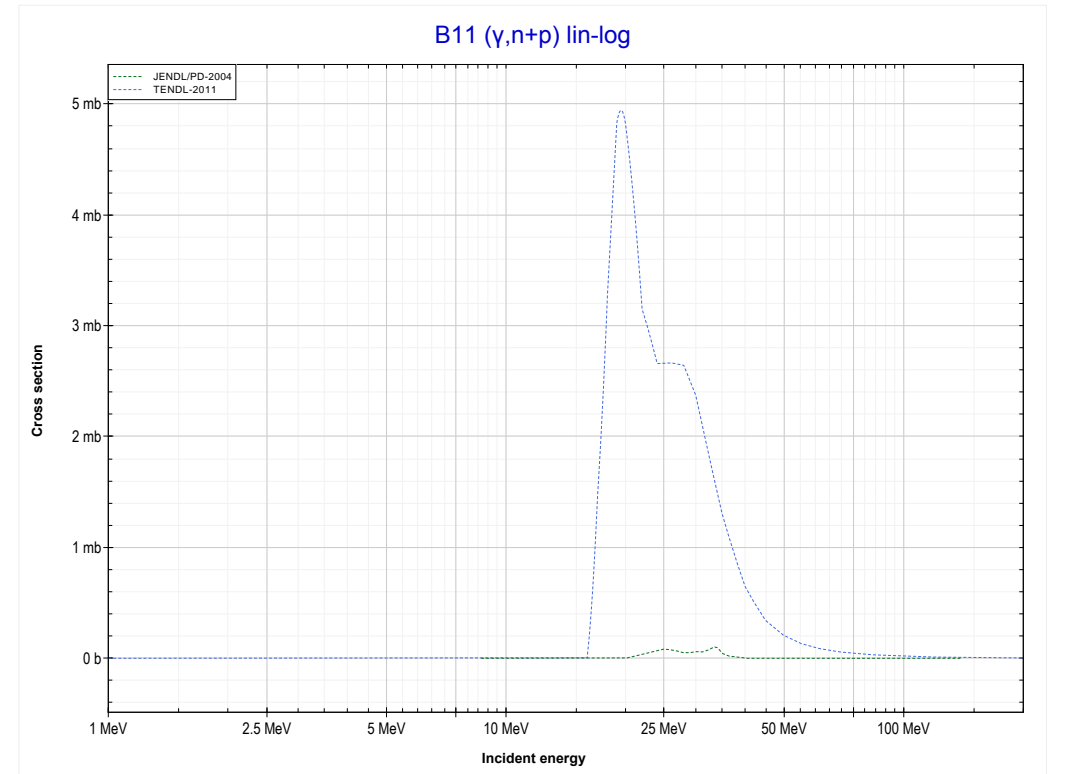
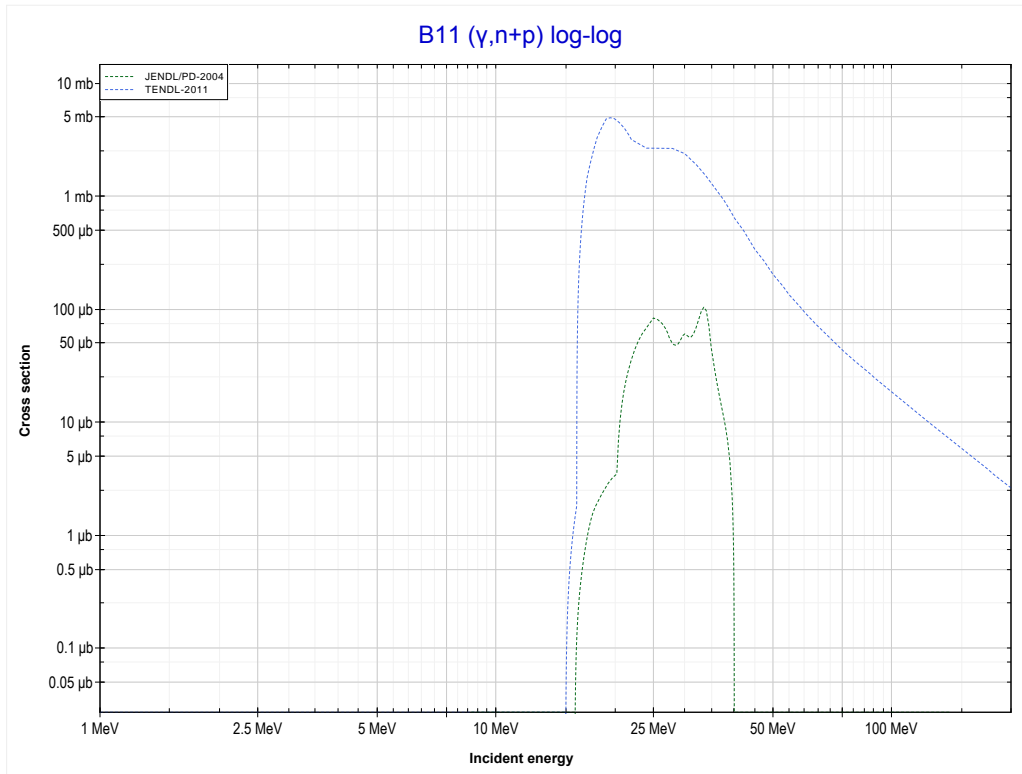
Reaction	Q-Value
B11(γ,n)B10	-11454.12 keV

<< 5-B-10	5-B-11	6-C-12 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (B9 production)	MT28 ($\gamma,n+p$) >>



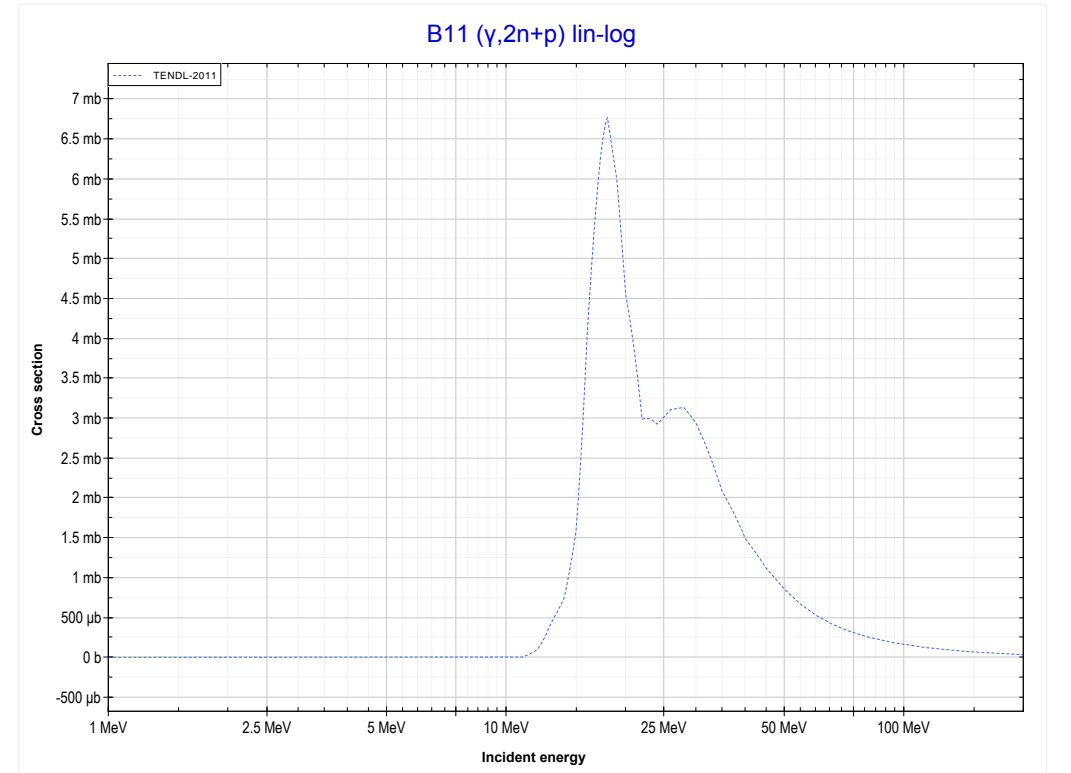
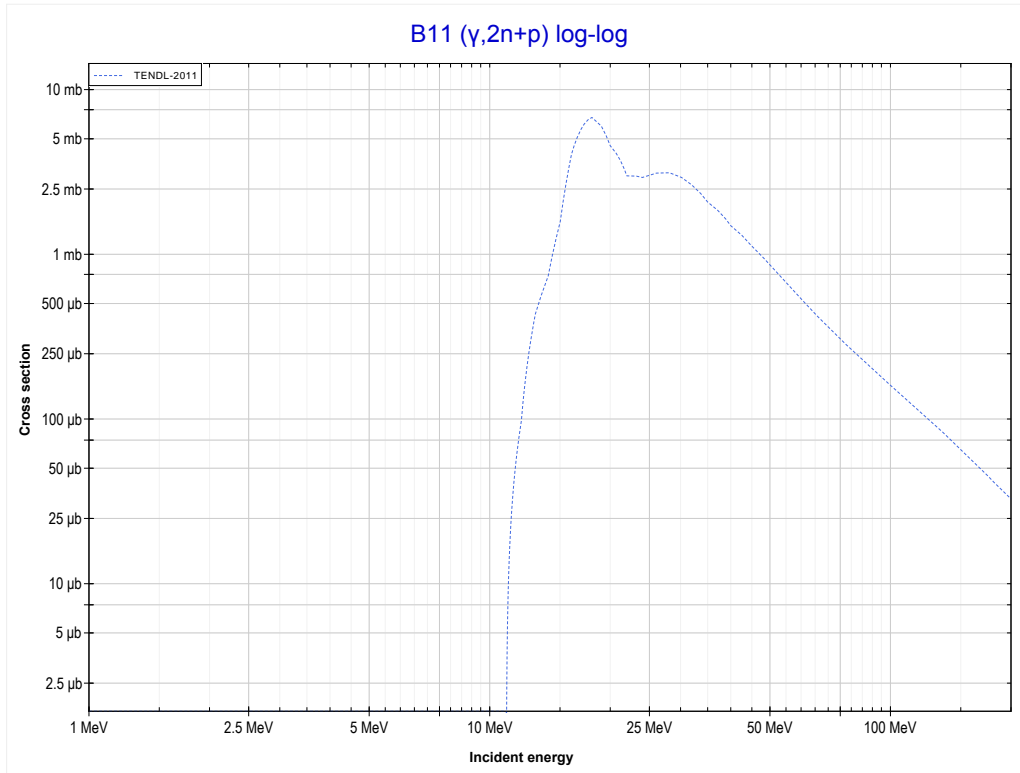
Reaction	Q-Value
B11($\gamma,2n$)B9	-19890.43 keV

<< 5-B-10	5-B-11	6-C-12 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Be9 production)	MT41 ($\gamma,2n+p$) >>



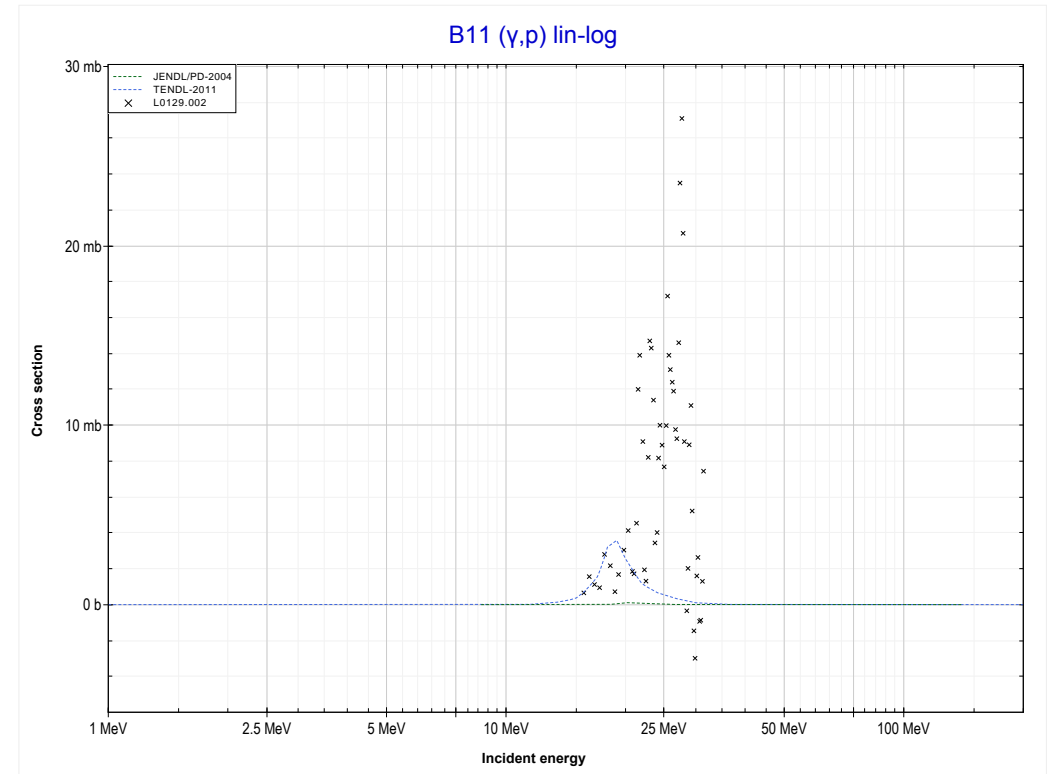
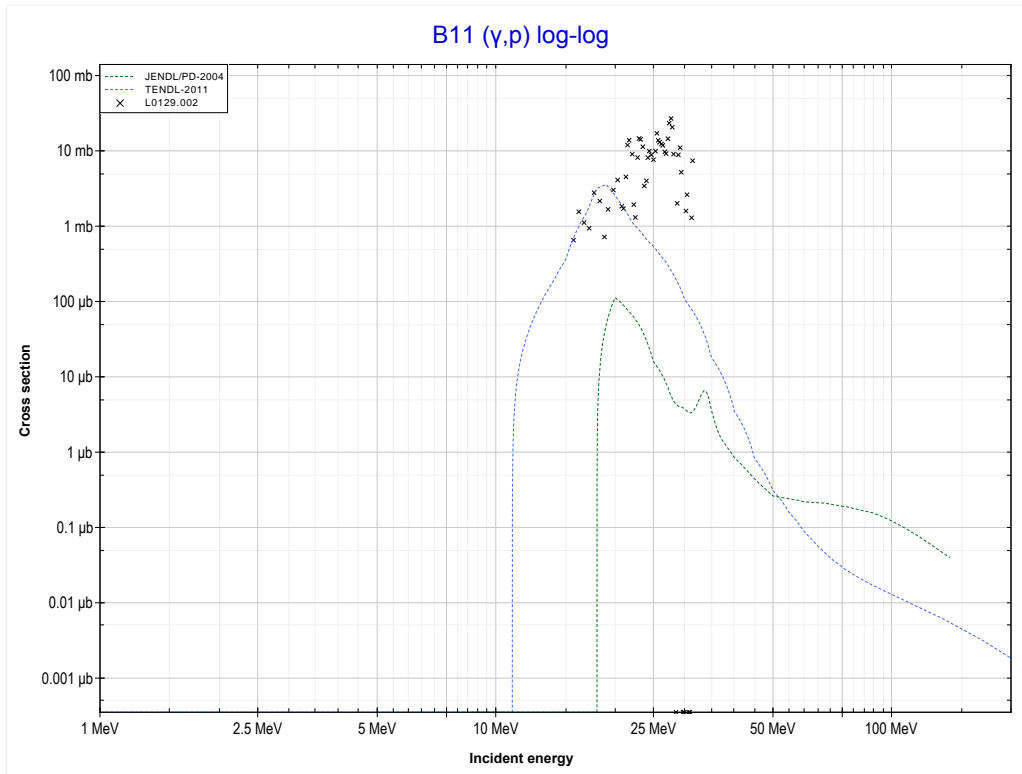
Reaction	Q-Value
B11(γ,d)Be9	-15815.42 keV
B11($\gamma,n+p$)Be9	-18039.99 keV

<< 5-B-10	5-B-11	6-C-13 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Be8 production)	MT103 (γ, p) >>



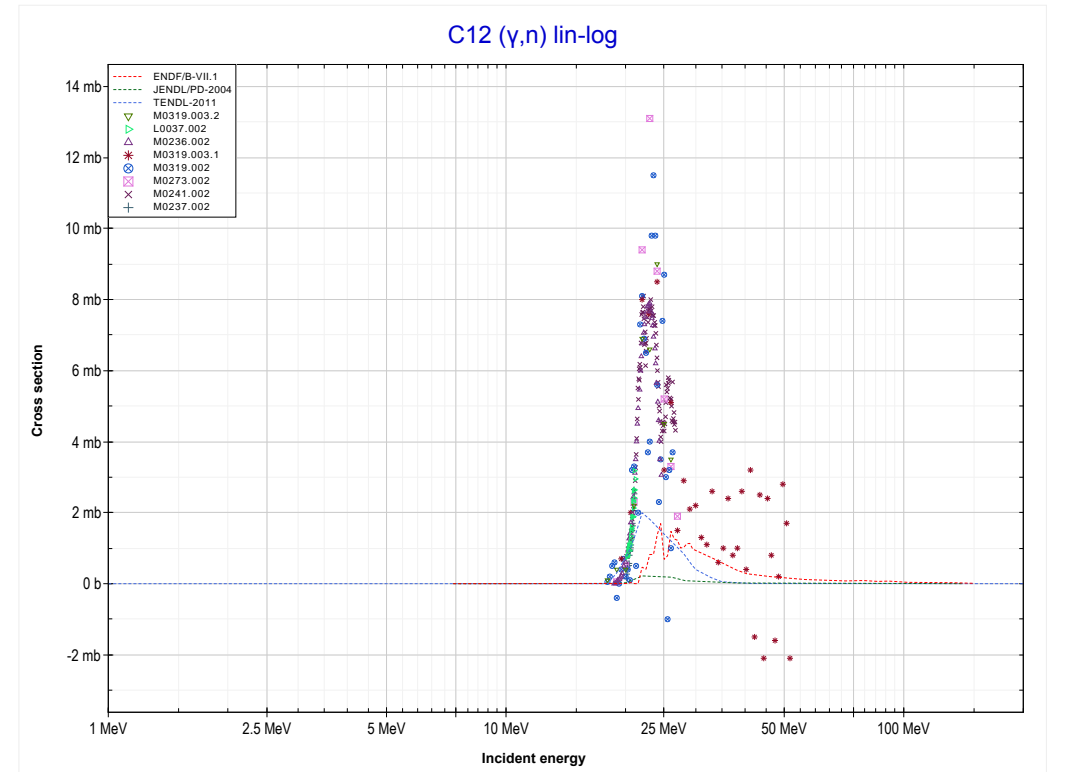
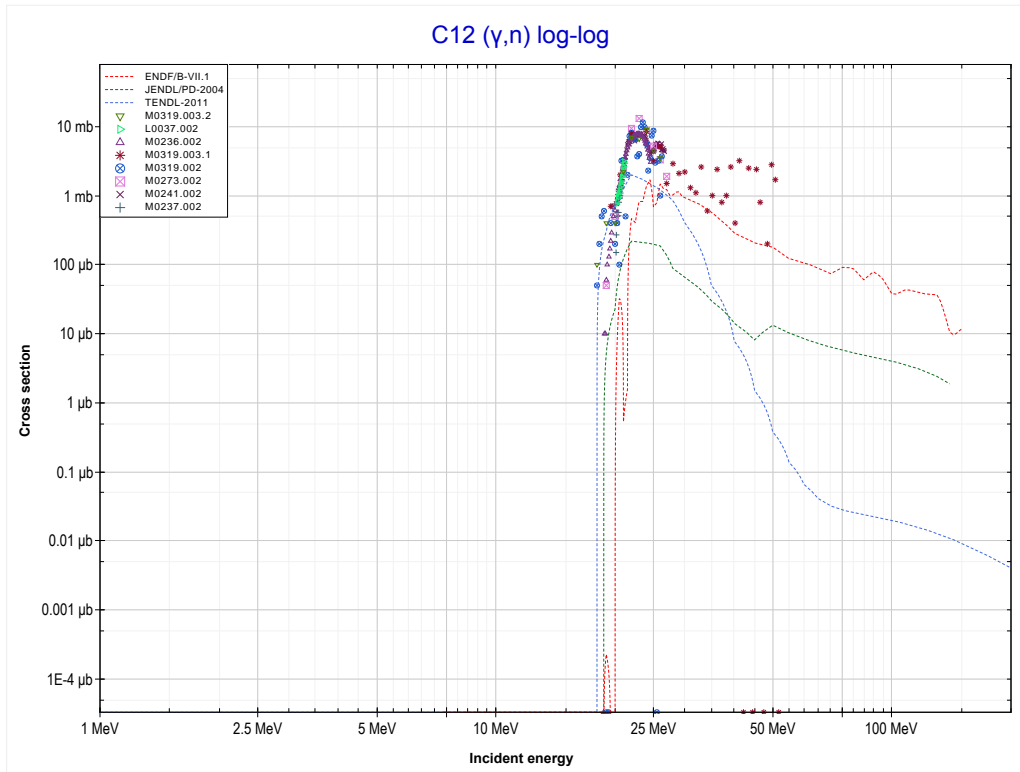
Reaction	Q-Value
B11(γ, t)Be8	-11223.58 keV
B11($\gamma, n+d$)Be8	-17480.81 keV
B11($\gamma, 2n+p$)Be8	-19705.37 keV

<< 4-Be-9	5-B-11	6-C-12 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Be10 production)	MT4 (γ,n) >>



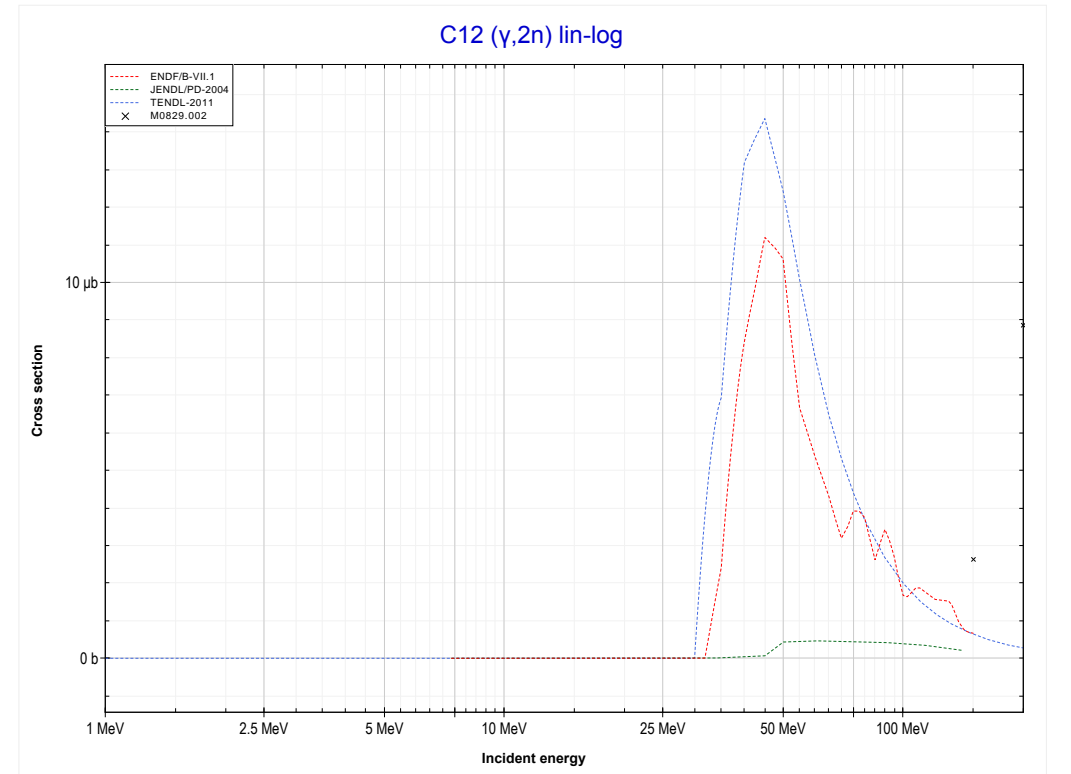
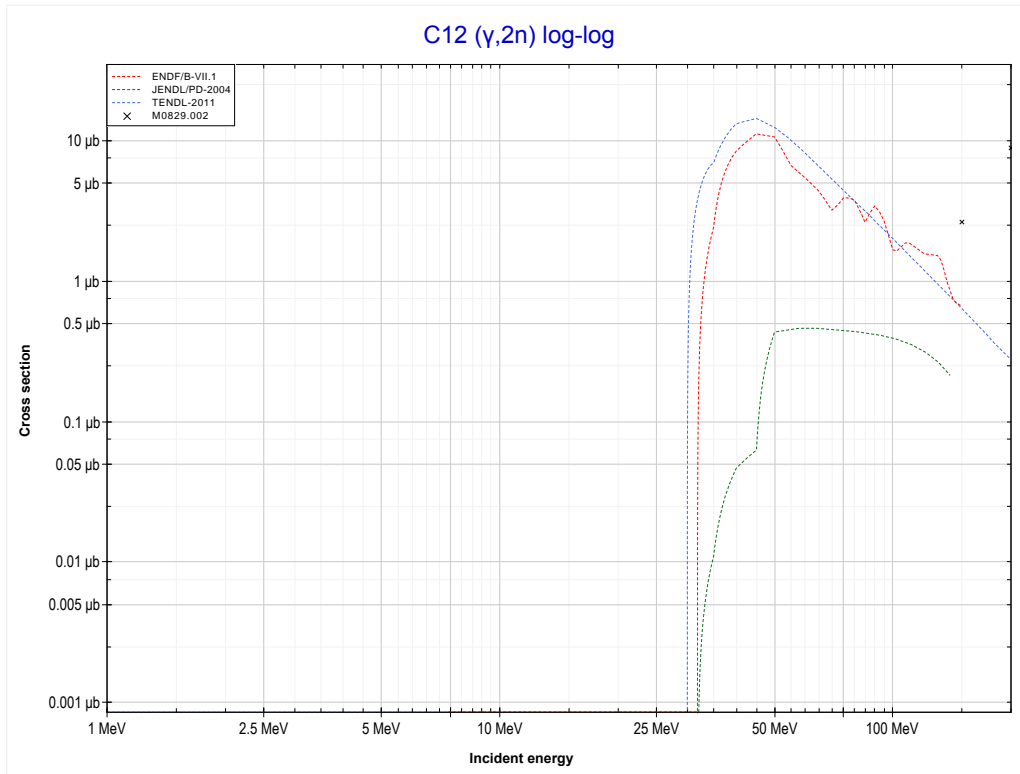
Reaction	Q-Value
B11(γ,p)Be10	-11227.77 keV

<< 5-B-11	6-C-12	6-C-13 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (C11 production)	MT16 ($\gamma,2n$) >>



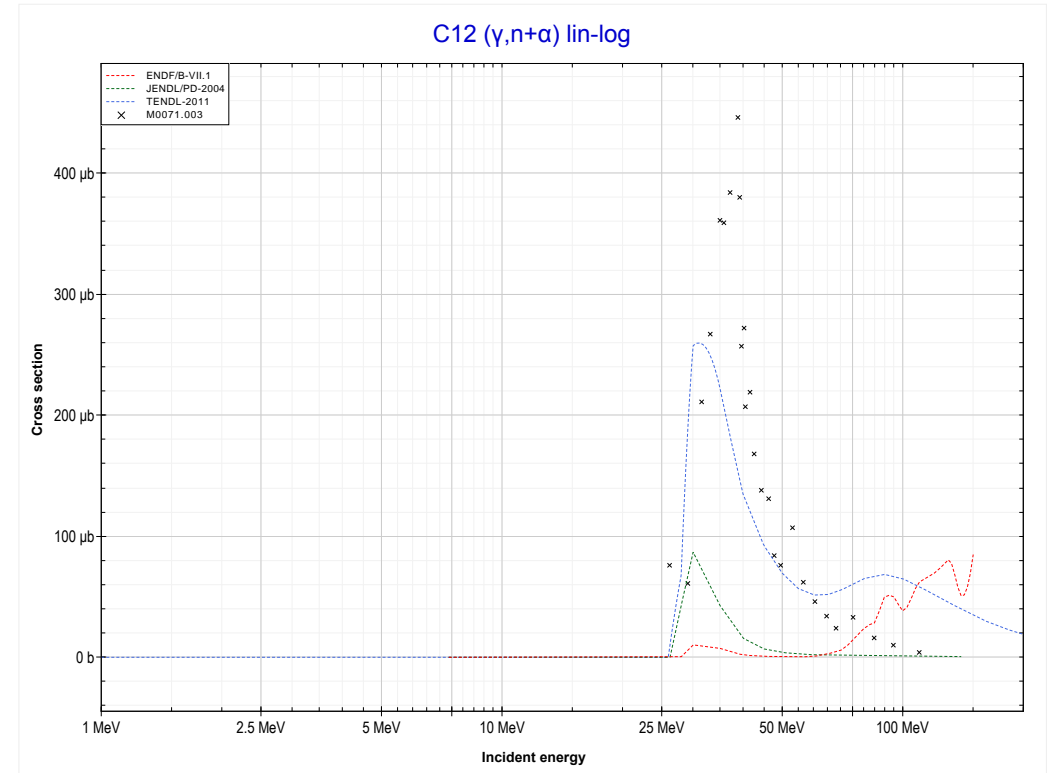
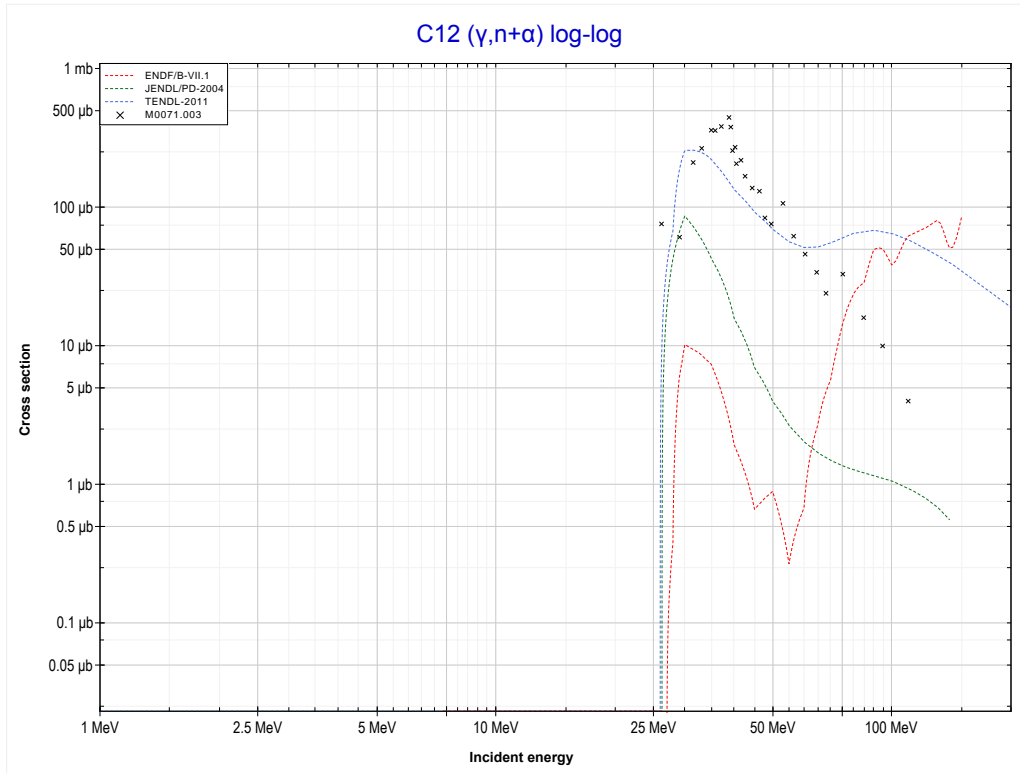
Reaction	Q-Value
C12(γ,n)C11	-18721.62 keV

<< 5-B-11	6-C-12	6-C-13 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (C10 production)	MT22 ($\gamma,n+\alpha$) >>



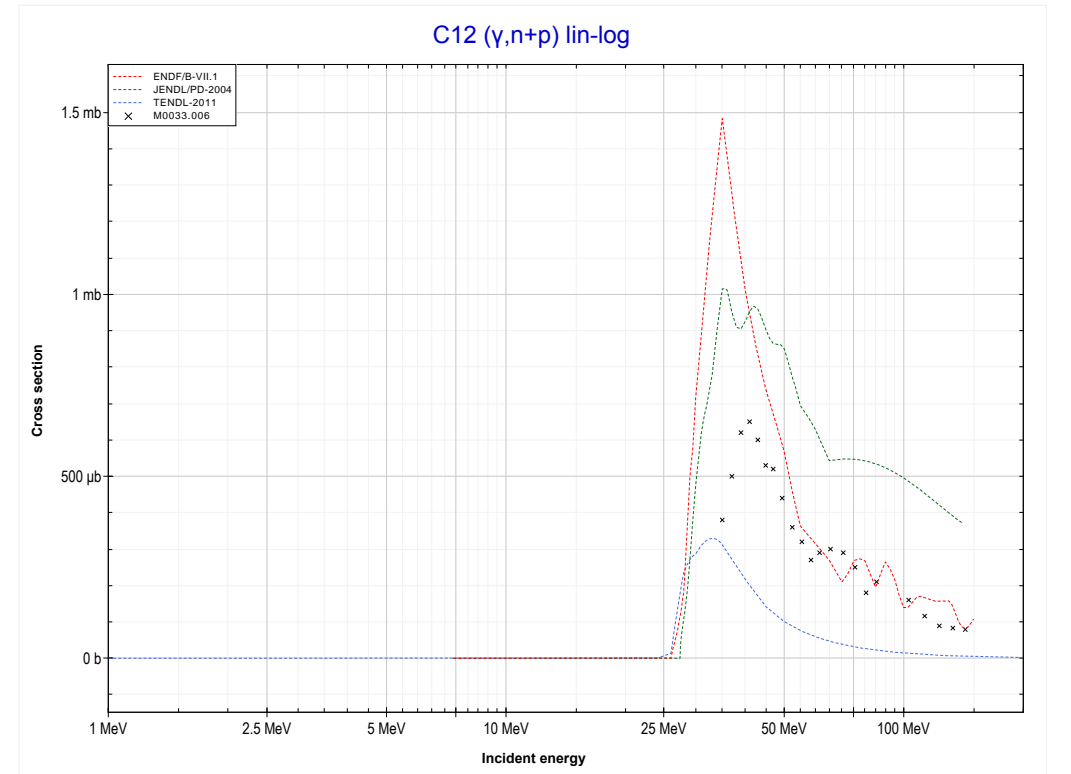
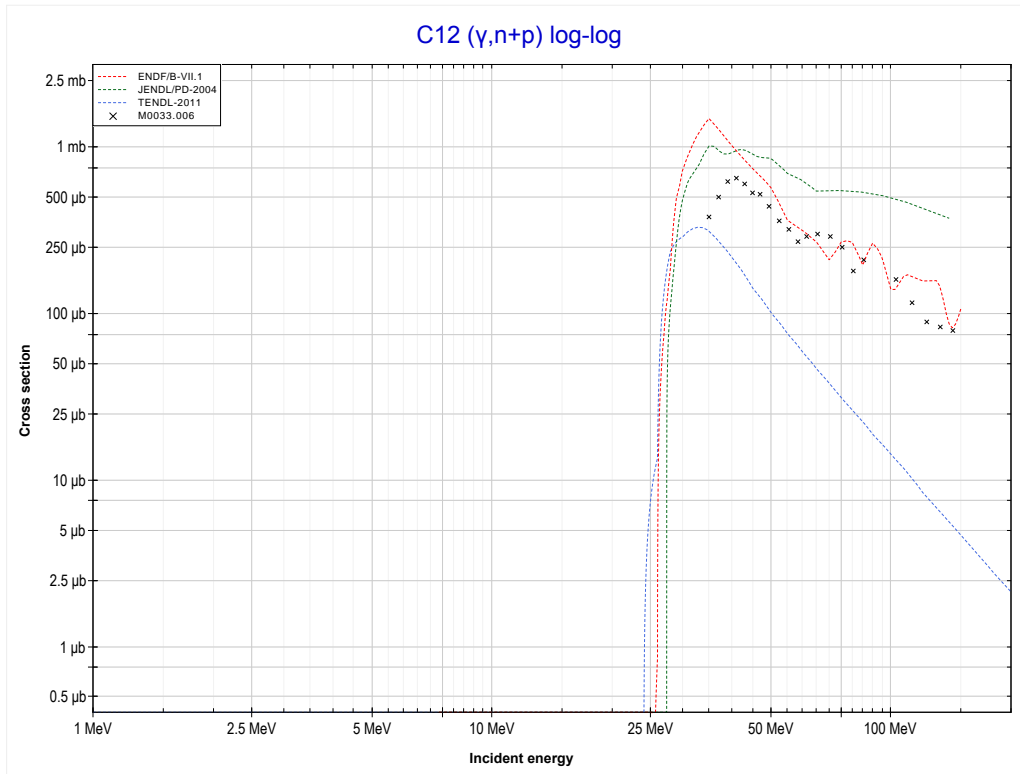
Reaction	Q-Value
C12($\gamma,2n$)C10	-31841.33 keV

<< 4-Be-9	6-C-12	
<< MT16 ($\gamma,2n$)	MT22 ($\gamma,n+\alpha$) or MT5 (Be7 production)	MT28 ($\gamma,n+p$) >>



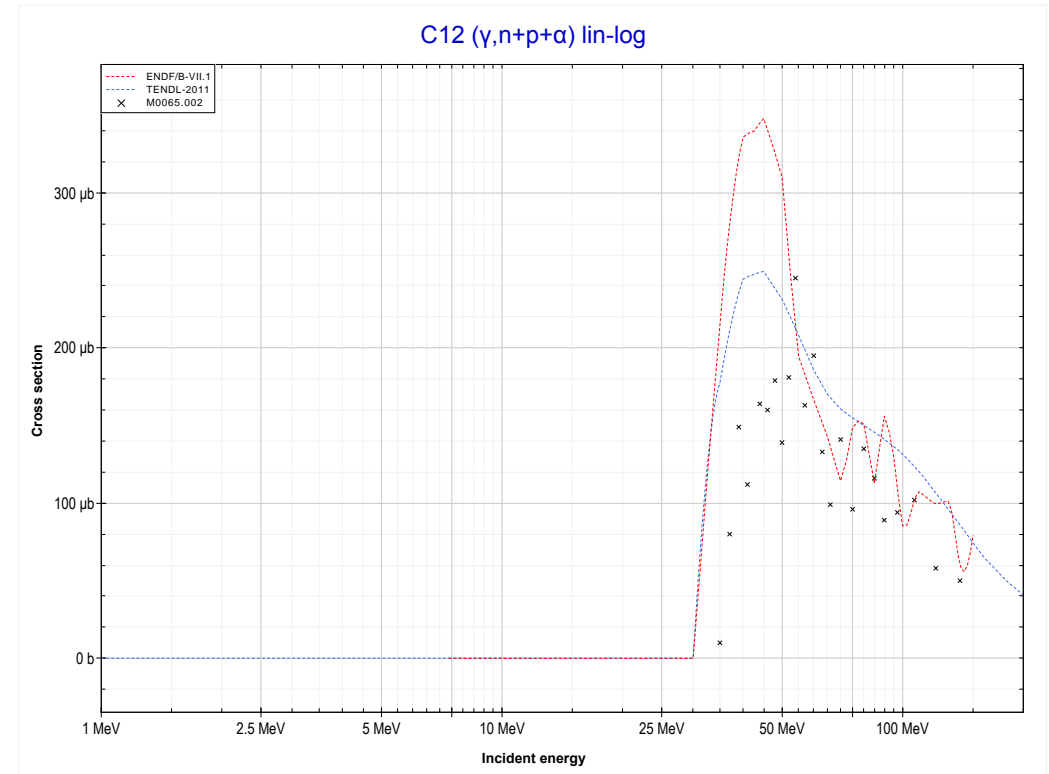
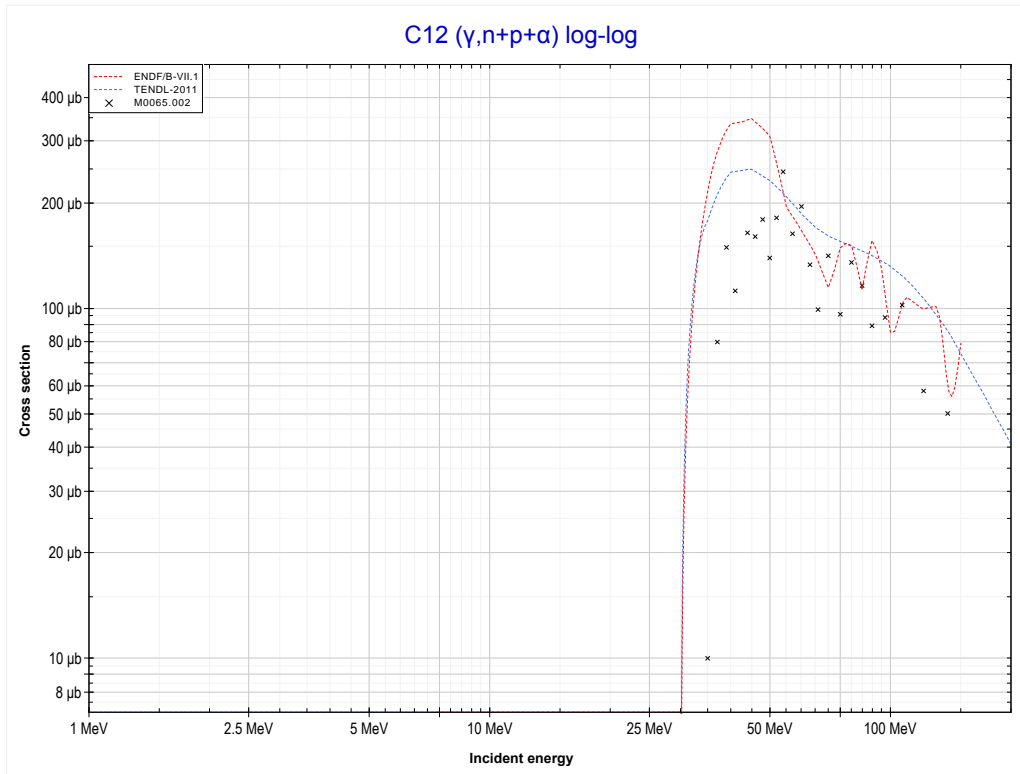
Reaction	Q-Value
C12($\gamma,n+\alpha$)Be7	-26266.26 keV
C12($\gamma,d+t$)Be7	-43855.56 keV
C12($\gamma,n+p+t$)Be7	-46080.12 keV
C12($\gamma,2n+He3$)Be7	-46843.88 keV
C12($\gamma,n+2d$)Be7	-50112.79 keV
C12($\gamma,2n+p+d$)Be7	-52337.36 keV
C12($\gamma,3n+2p$)Be7	-54561.92 keV

<< 5-B-11	6-C-12	6-C-13 >>
<< MT22 ($\gamma, n+\alpha$)	MT28 ($\gamma, n+p$) or MT5 (B10 production)	MT45 ($\gamma, n+p+\alpha$) >>



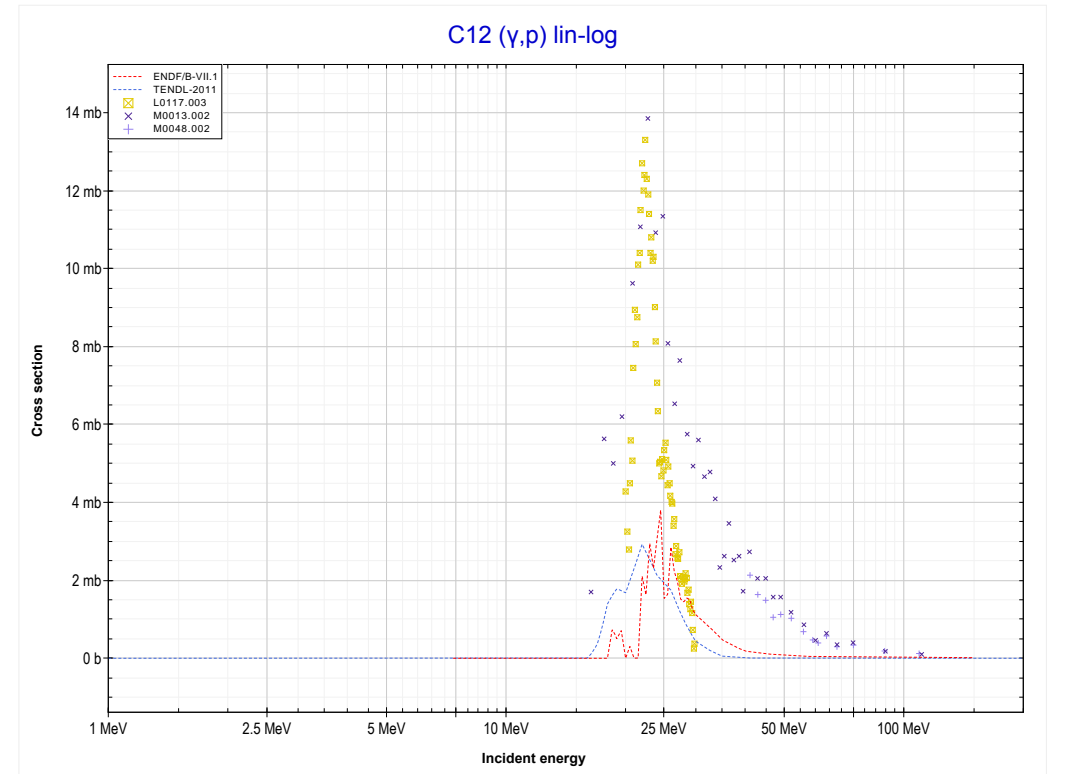
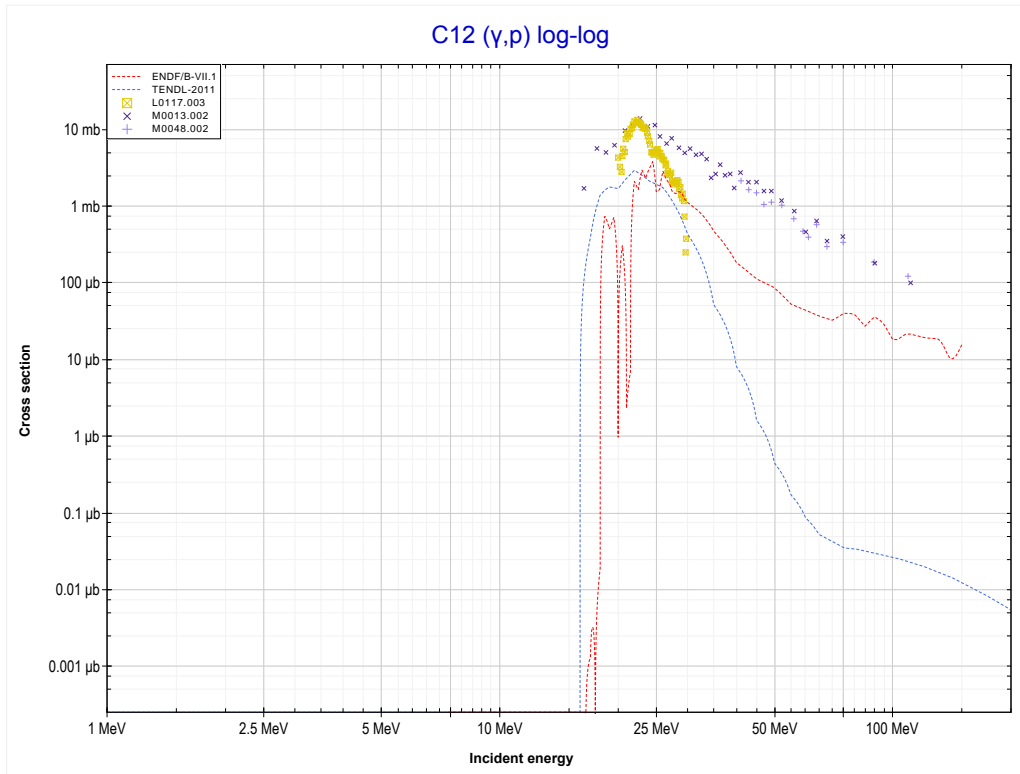
Reaction	Q-Value
C12(γ, d)B10	-25186.42 keV
C12($\gamma, n+p$)B10	-27410.99 keV

6-C-12		
<< MT28 ($\gamma, n+p$)	MT45 ($\gamma, n+p+\alpha$) or MT5 (Li6 production)	MT103 (γ, p) >>



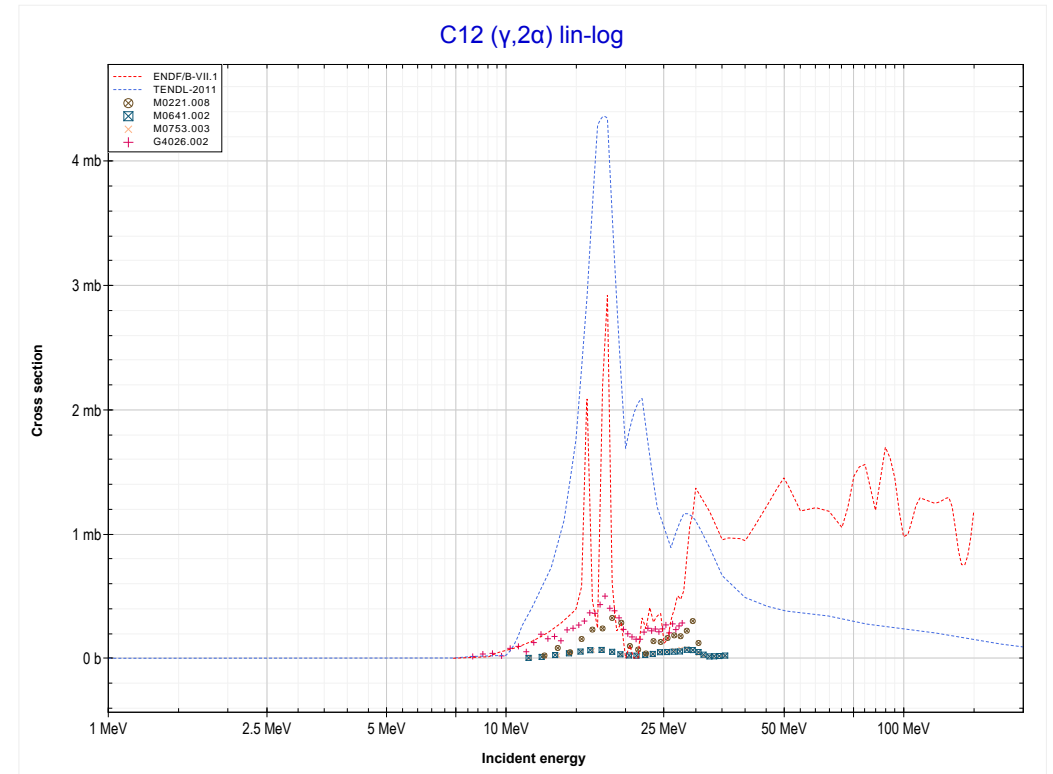
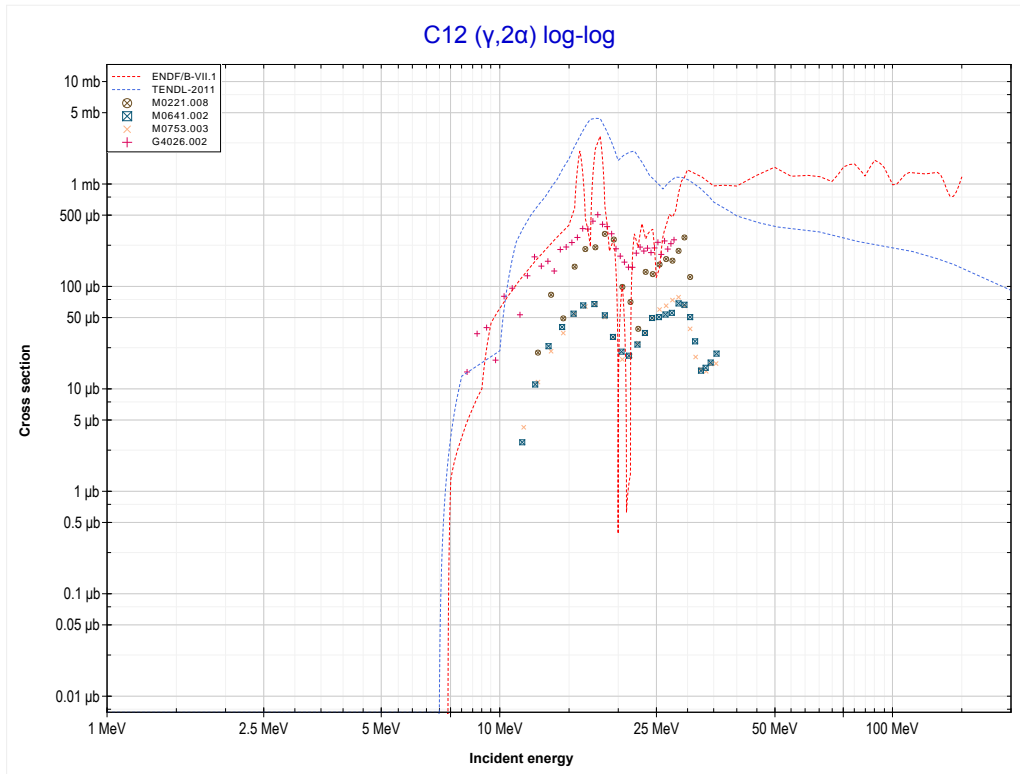
Reaction	Q-Value	Reaction	Q-Value
C12($\gamma, d+\alpha$)Li6	-29647.43 keV	C12($\gamma, n+p+2d$)Li6	-55718.52 keV
C12($\gamma, n+p+\alpha$)Li6	-31872.00 keV	C12($\gamma, 2n+2p+d$)Li6	-57943.09 keV
C12($\gamma, t+He3$)Li6	-43967.81 keV	C12($\gamma, 3n+3p$)Li6	-60167.66 keV
C12($\gamma, p+d+t$)Li6	-49461.29 keV		
C12($\gamma, n+d+He3$)Li6	-50225.05 keV		
C12($\gamma, n+2p+t$)Li6	-51685.86 keV		
C12($\gamma, 2n+p+He3$)Li6	-52449.61 keV		
C12($\gamma, 3d$)Li6	-53493.96 keV		

<< 5-B-11	6-C-12	6-C-13 >>
<< MT45 ($\gamma, n+p+\alpha$)	MT103 (γ, p) or MT5 (B11 production)	MT108 ($\gamma, 2\alpha$) >>



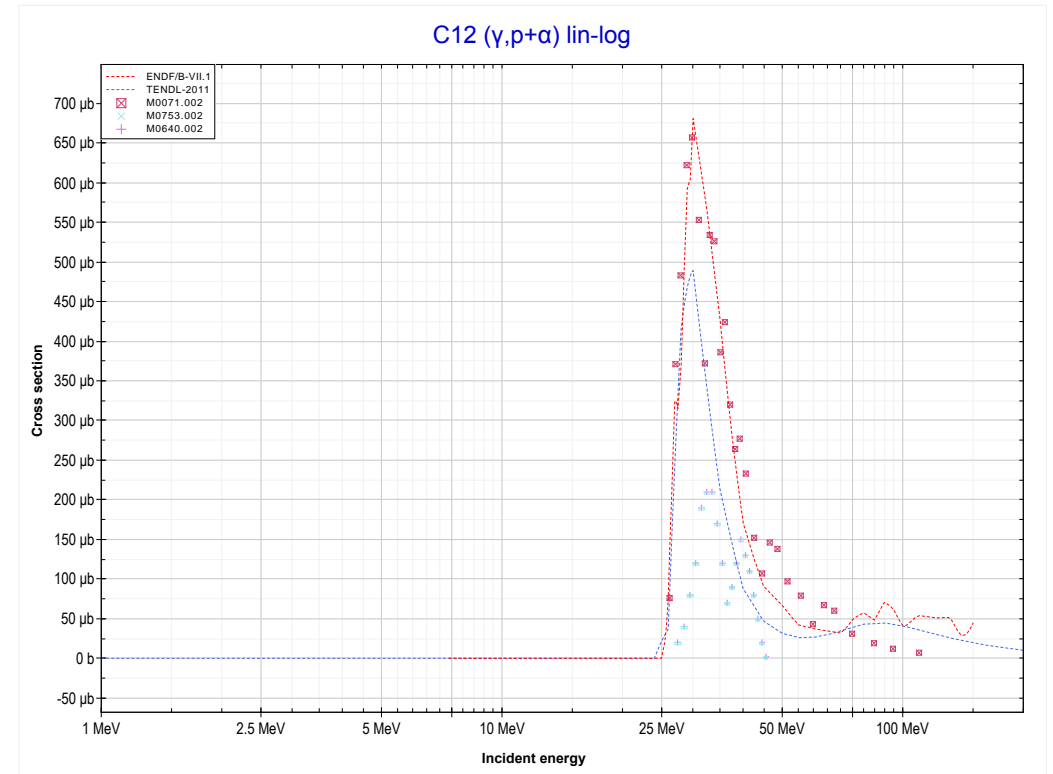
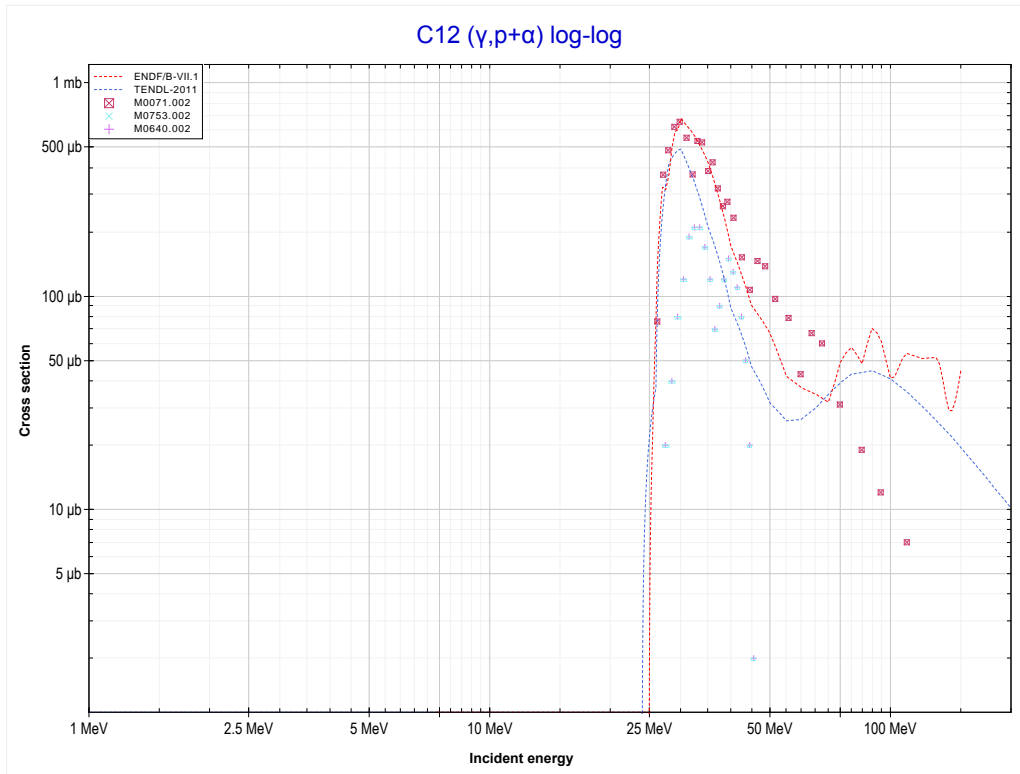
Reaction	Q-Value
C12(γ, p)B11	-15956.87 keV

6-C-12		
<< MT103 (γ, p)	MT108 ($\gamma, 2\alpha$) or MT5 (He4 production)	MT112 ($\gamma, p+\alpha$) >>



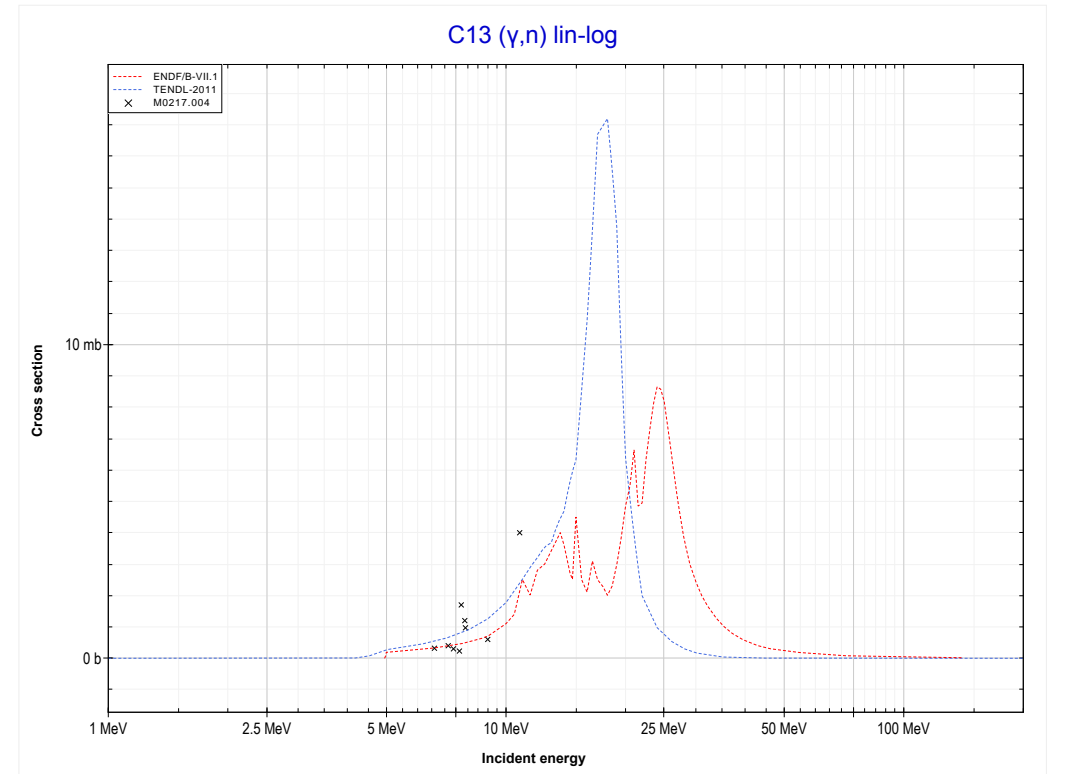
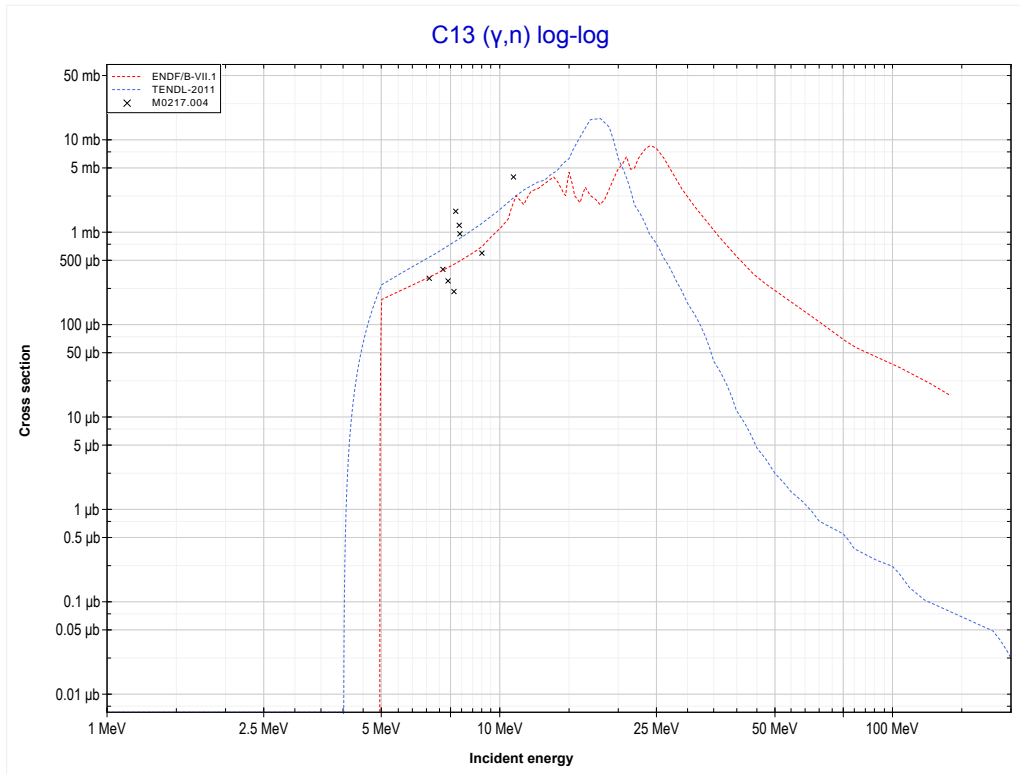
Reaction	Q-Value	Reaction	Q-Value
C12($\gamma, 2\alpha$)He4	-7274.75 keV	C12($\gamma, n+p+t$ +He3)He4	-47666.22 keV
C12($\gamma, p+t$ + α)He4	-27088.61 keV	C12($\gamma, 2n+2$ He3)He4	-48429.98 keV
C12(γ, n +He3+ α)He4	-27852.36 keV	C12($\gamma, p+2d+t$)He4	-50935.14 keV
C12($\gamma, 2d$ + α)He4	-31121.27 keV	C12($\gamma, n+2d$ +He3)He4	-51698.89 keV
C12($\gamma, n+p+d$ + α)He4	-33345.84 keV	C12($\gamma, n+2p+d+t$)He4	-53159.70 keV
C12($\gamma, 2n+2p$ + α)He4	-35570.41 keV	C12($\gamma, 2n+p+d$ +He3)He4	-53923.46 keV
C12($\gamma, d+t$ +He3)He4	-45441.66 keV	C12($\gamma, 4d$)He4	-54967.80 keV
C12($\gamma, 2p+2t$)He4	-46902.47 keV	C12($\gamma, 2n+3p+t$)He4	-55384.27 keV

	6-C-12	
<< MT108 ($\gamma,2\alpha$)	MT112 ($\gamma,p+\alpha$) or MT5 (Li7 production)	MT4 (γ,n) >>



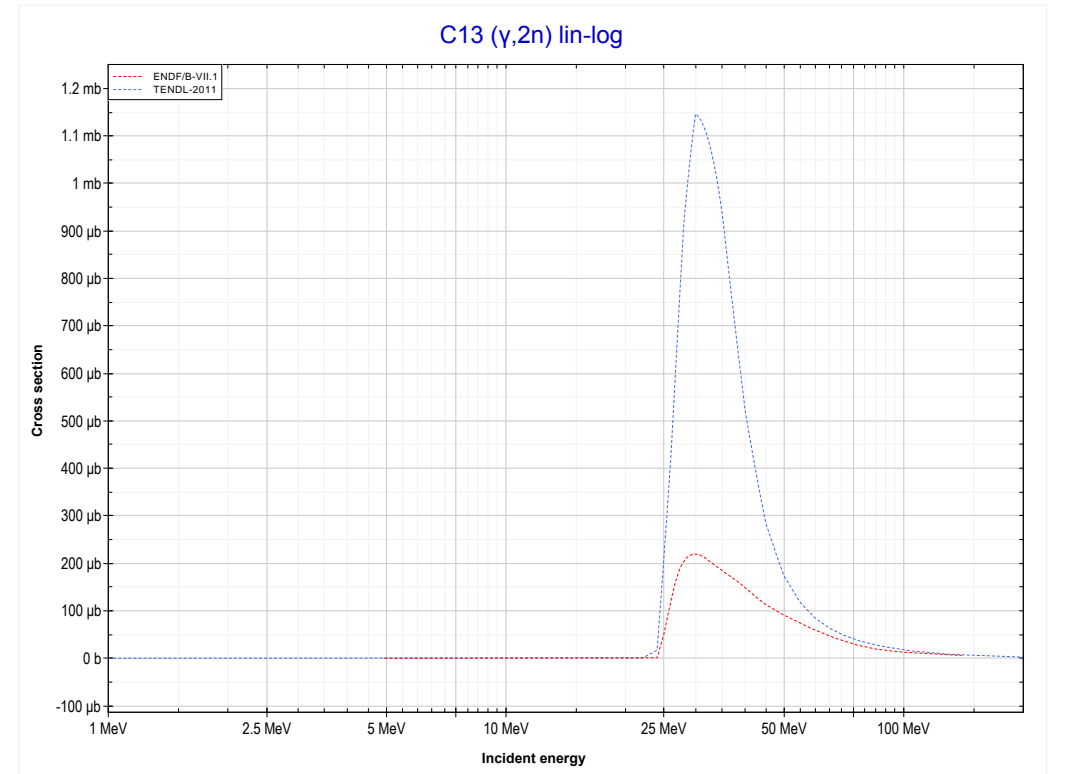
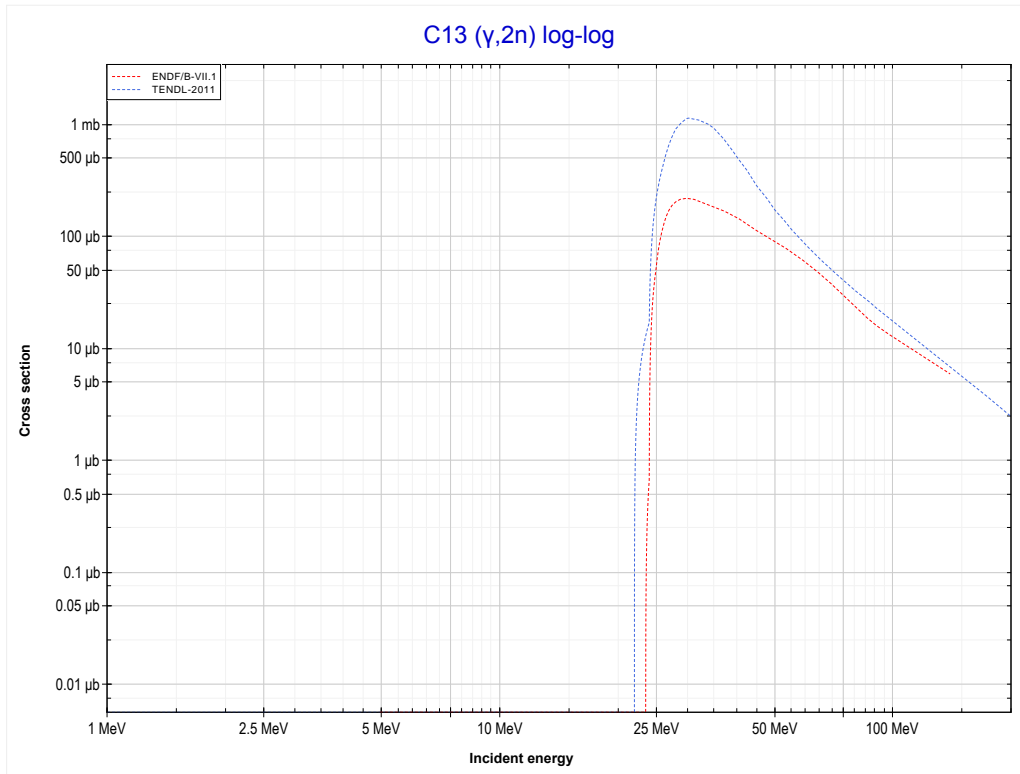
Reaction	Q-Value
C12($\gamma,p+\alpha$)Li7	-24622.03 keV
C12($\gamma,d+\text{He3}$)Li7	-42975.08 keV
C12($\gamma,2p+t$)Li7	-44435.89 keV
C12($\gamma,n+p+\text{He3}$)Li7	-45199.64 keV
C12($\gamma,p+2d$)Li7	-48468.55 keV
C12($\gamma,n+2p+d$)Li7	-50693.12 keV
C12($\gamma,2n+3p$)Li7	-52917.69 keV

<< 6-C-12	6-C-13	6-C-14 >>
<< MT112 ($\gamma, p+\alpha$)	MT4 (γ, n) or MT5 (C12 production)	MT16 ($\gamma, 2n$) >>



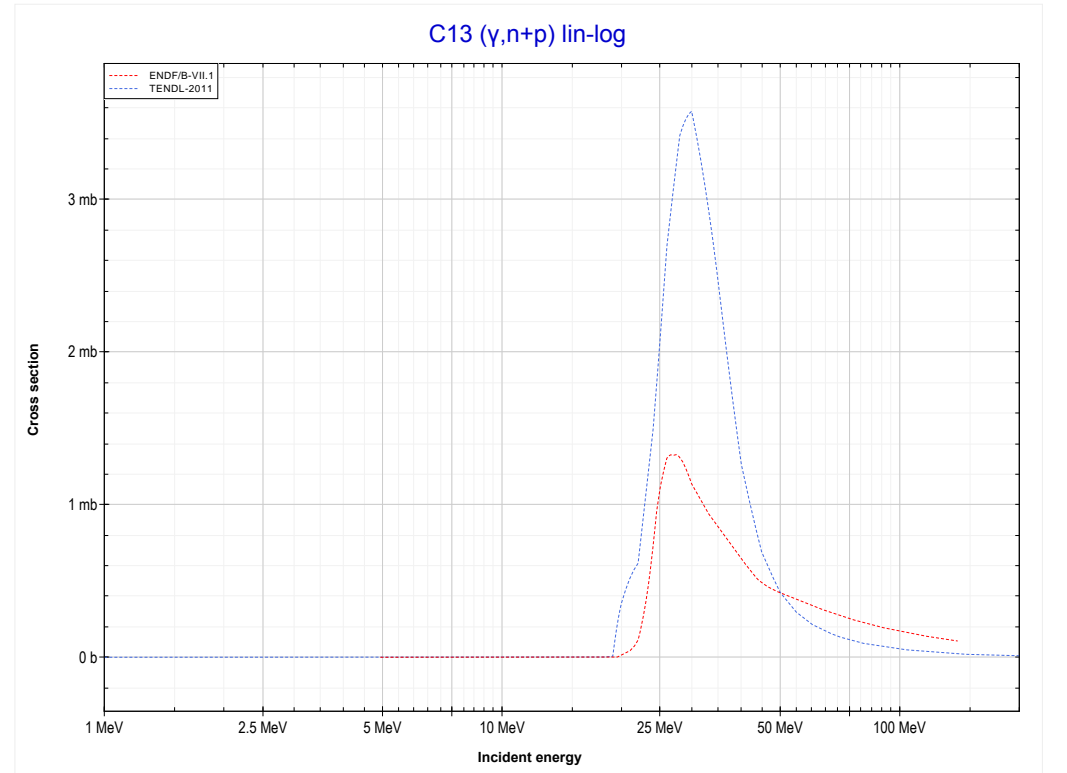
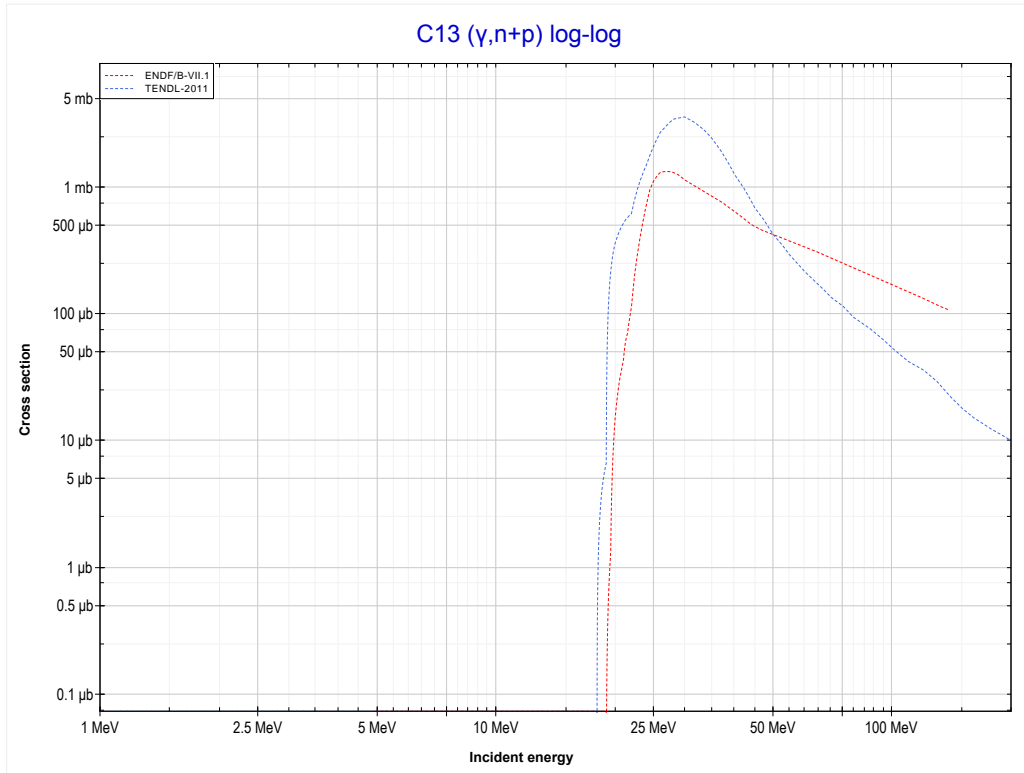
Reaction	Q-Value
C13(γ, n)C12	-4946.31 keV

<< 6-C-12	6-C-13	6-C-14 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (C11 production)	MT28 ($\gamma,n+p$) >>



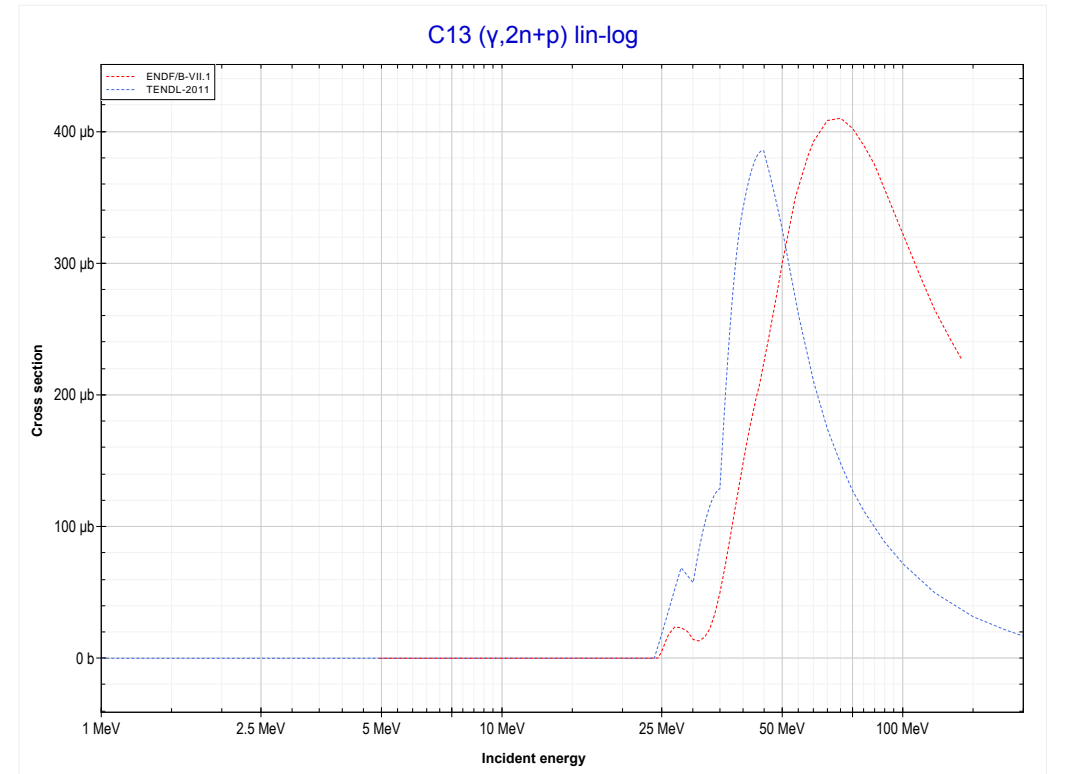
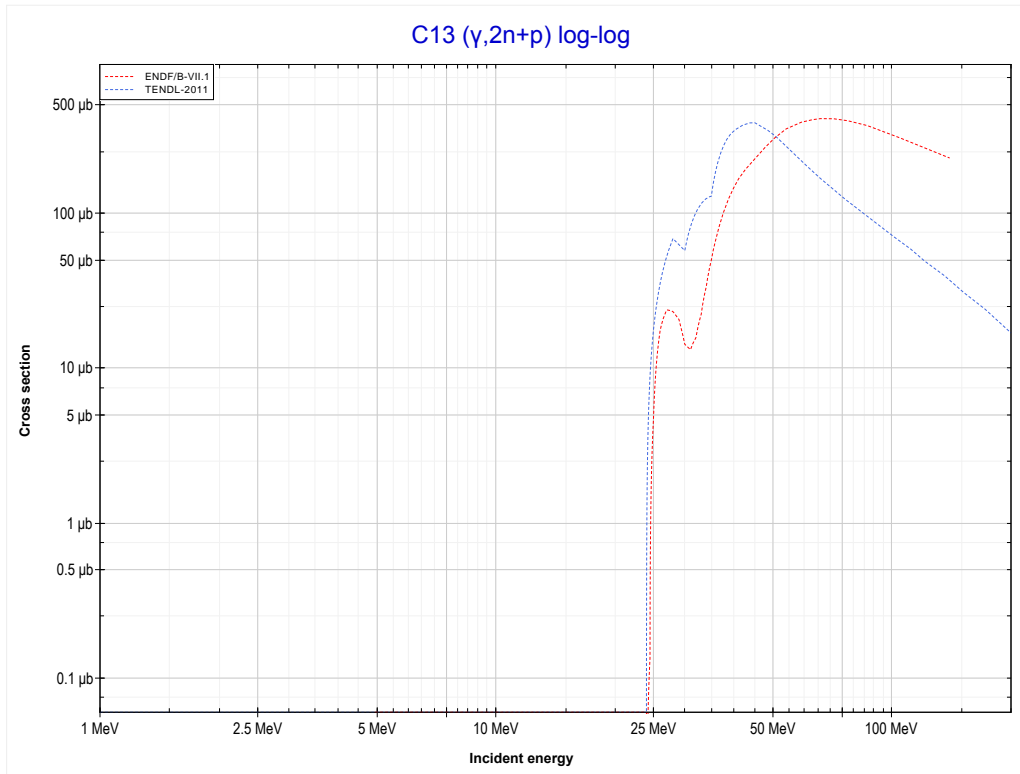
Reaction	Q-Value
C13($\gamma,2n$)C11	-23667.92 keV

<< 6-C-12	6-C-13	6-C-14 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (B11 production)	MT41 ($\gamma,2n+p$) >>



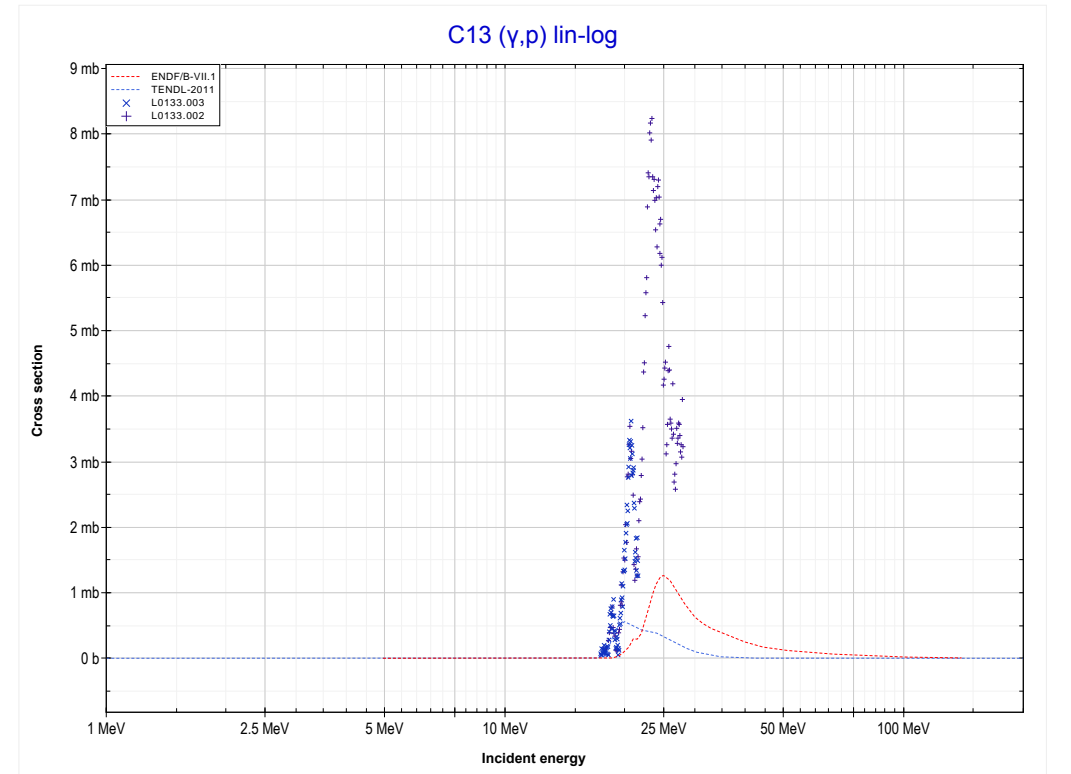
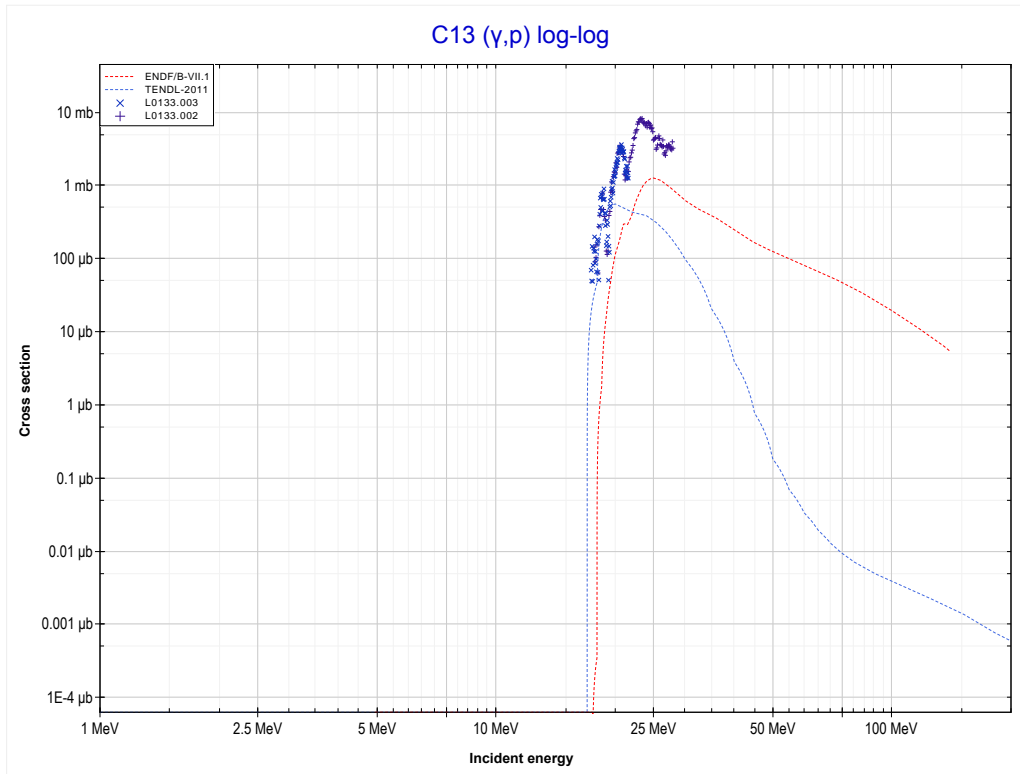
Reaction	Q-Value
C13(γ,d)B11	-18678.61 keV
C13($\gamma,n+p$)B11	-20903.18 keV

<< 5-B-11	6-C-13	7-N-15 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (B10 production)	MT103 (γ, p) >>



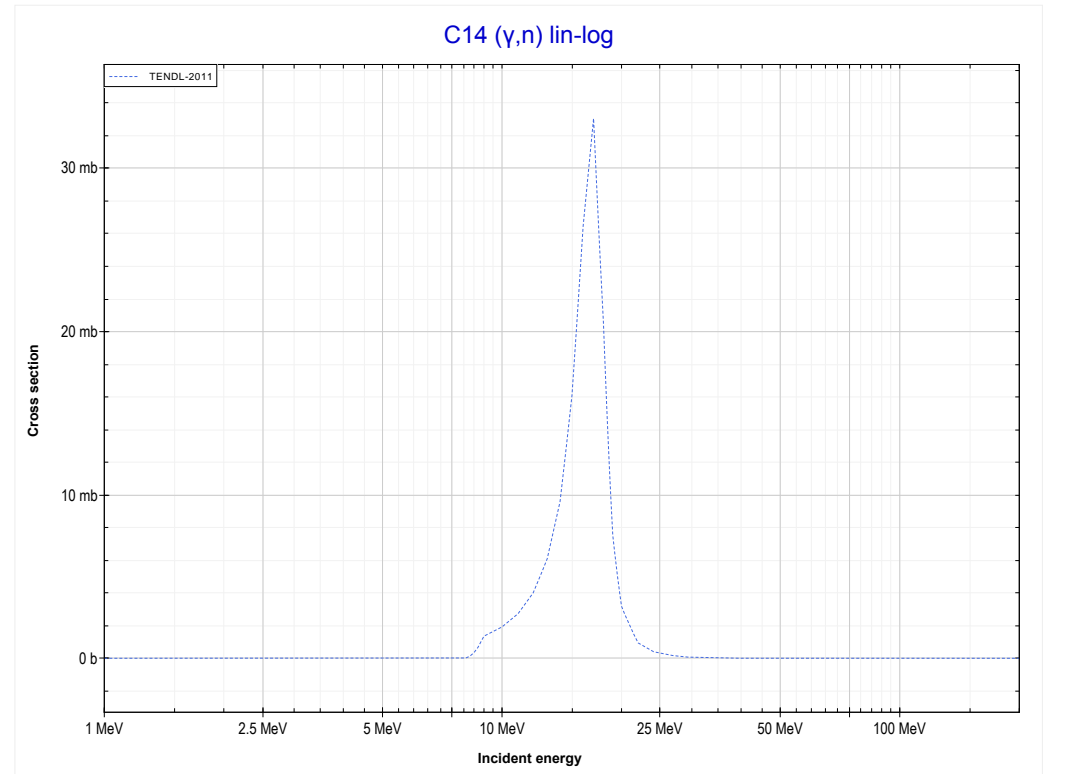
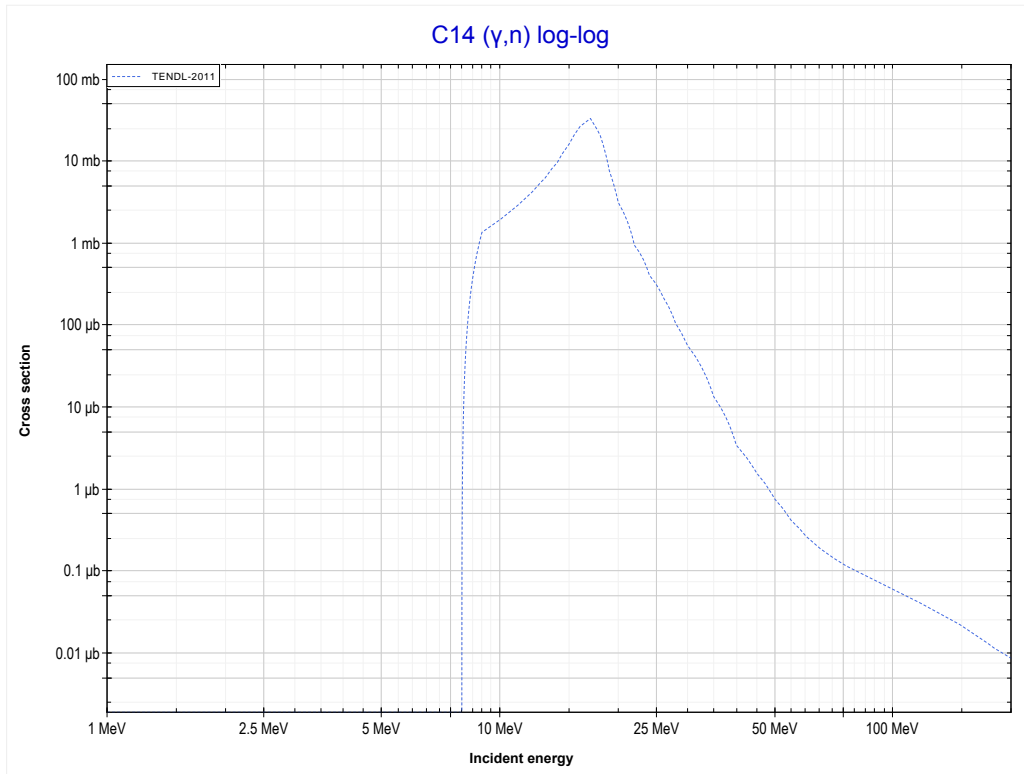
Reaction	Q-Value
C13(γ, t)B10	-23875.49 keV
C13($\gamma, n+d$)B10	-30132.73 keV
C13($\gamma, 2n+p$)B10	-32357.29 keV

<< 6-C-12	6-C-13	7-N-15 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (B12 production)	MT4 (γ,n) >>



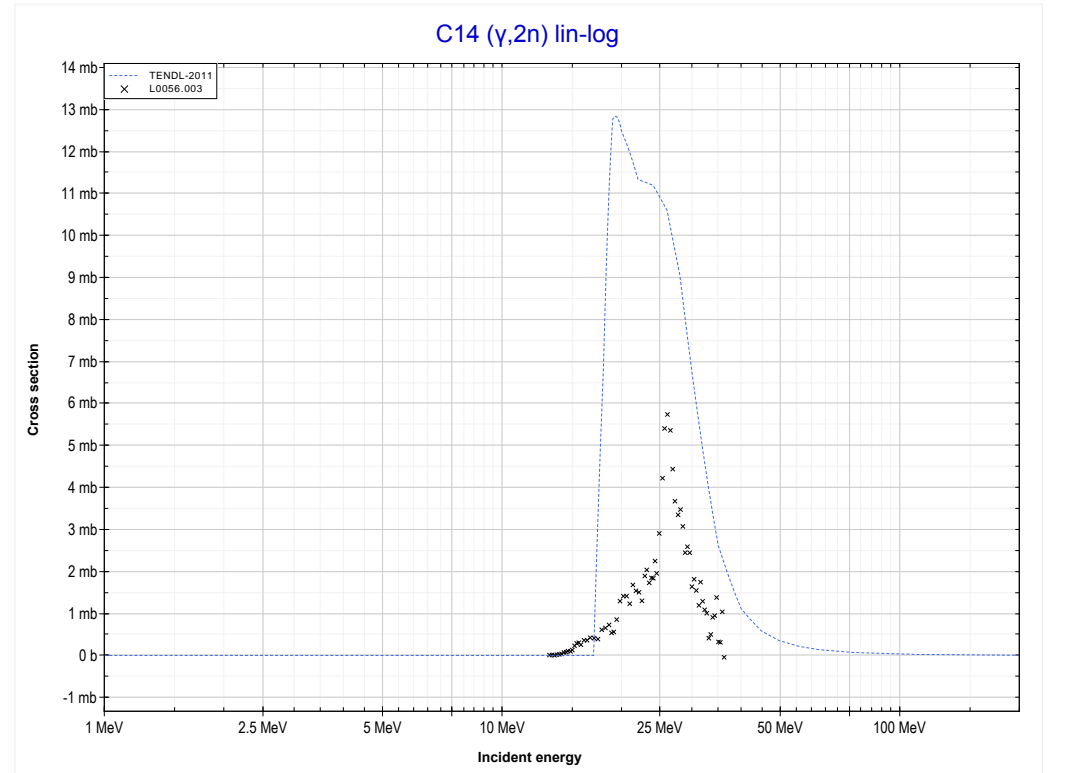
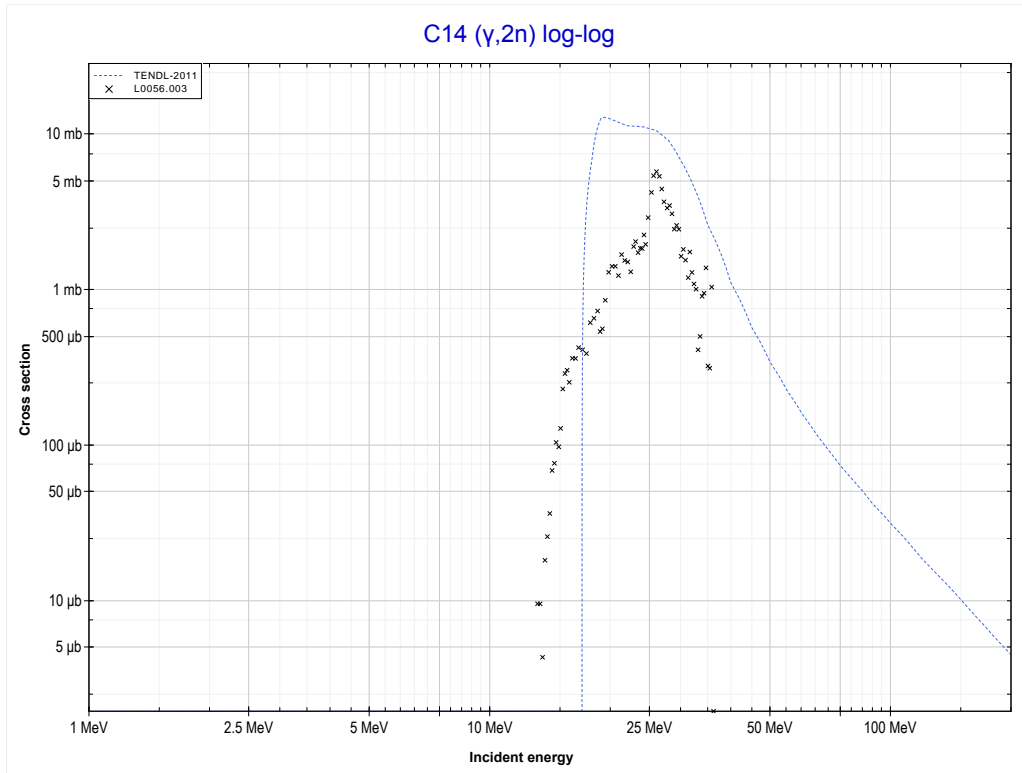
Reaction	Q-Value
C13(γ,p)B12	-17532.86 keV

<< 6-C-13	6-C-14	7-N-14 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (C13 production)	MT16 ($\gamma,2n$) >>



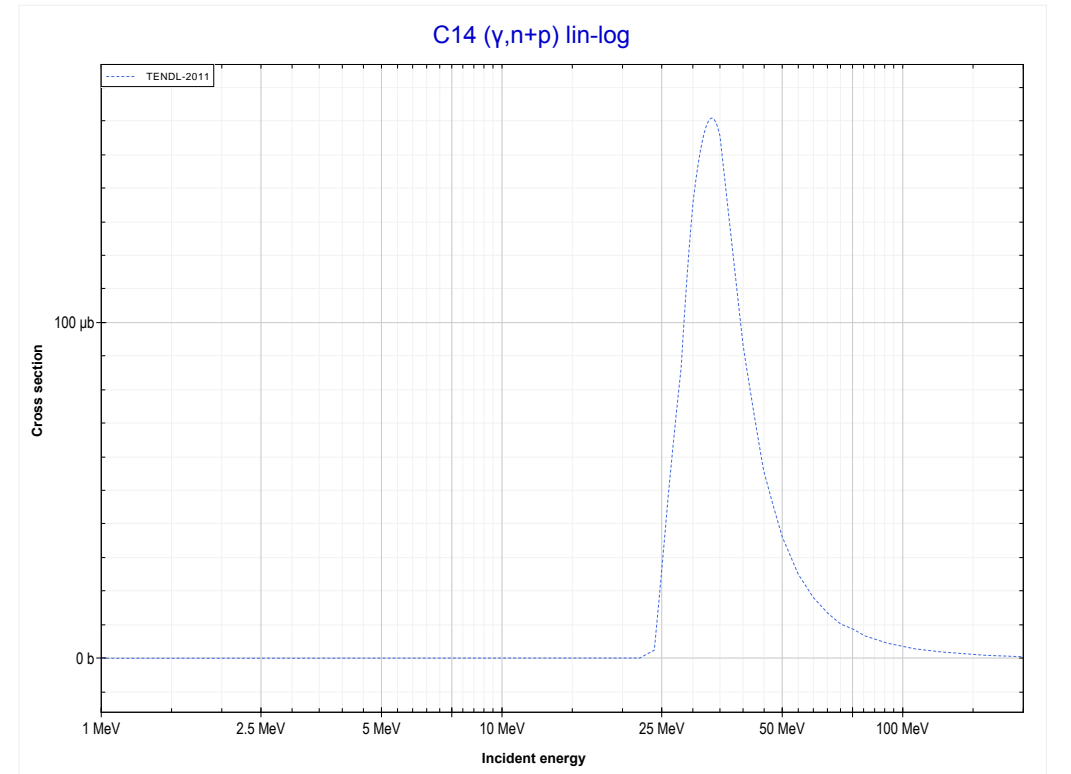
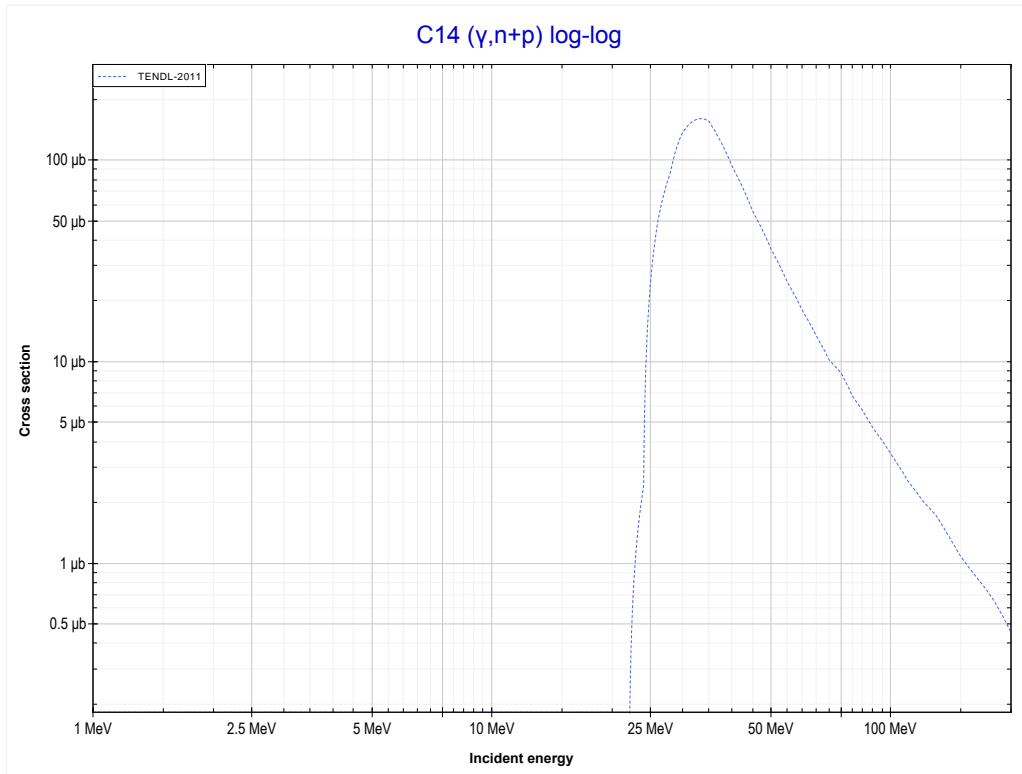
Reaction	Q-Value
C14(γ,n)C13	-8176.44 keV

<< 6-C-13	6-C-14	7-N-15 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (C12 production)	MT28 ($\gamma,n+p$) >>



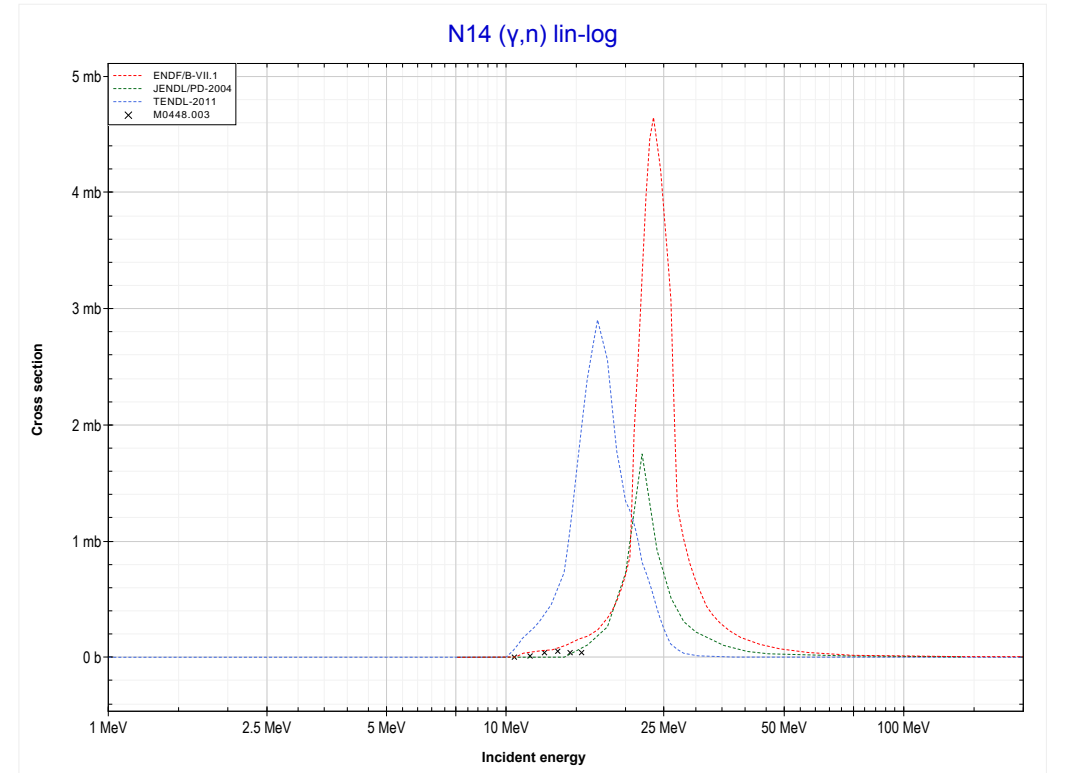
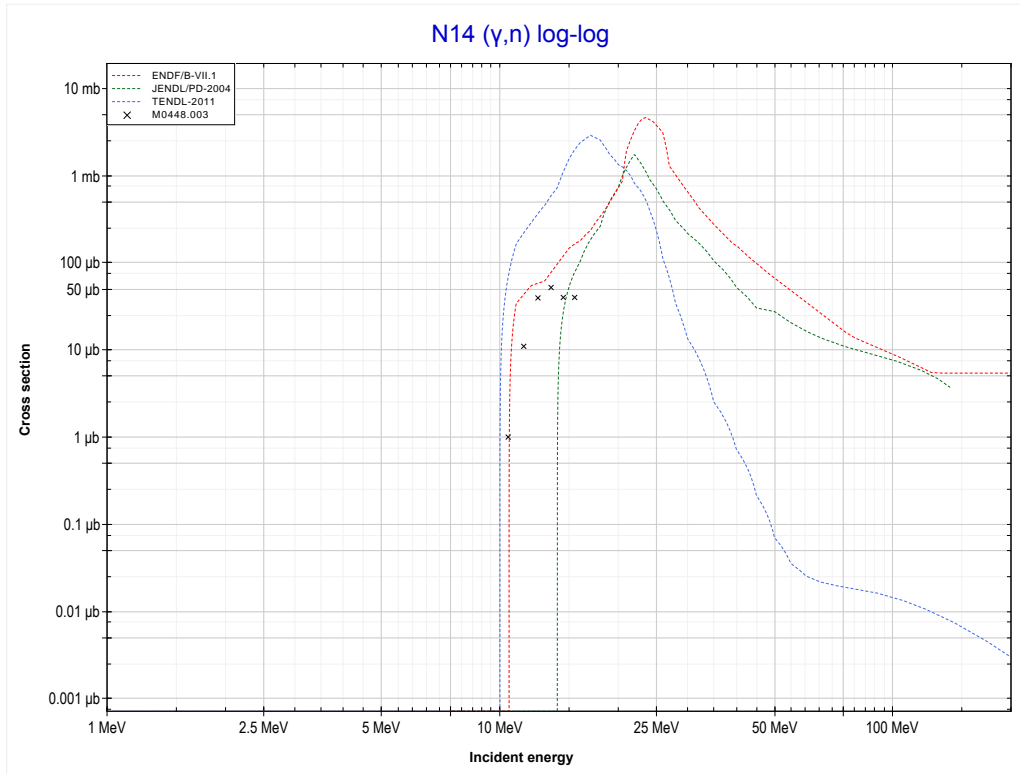
Reaction	Q-Value
C14($\gamma,2n$)C12	-13122.74 keV

<< 6-C-13	6-C-14	7-N-14 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (B12 production)	MT4 (γ,n) >>



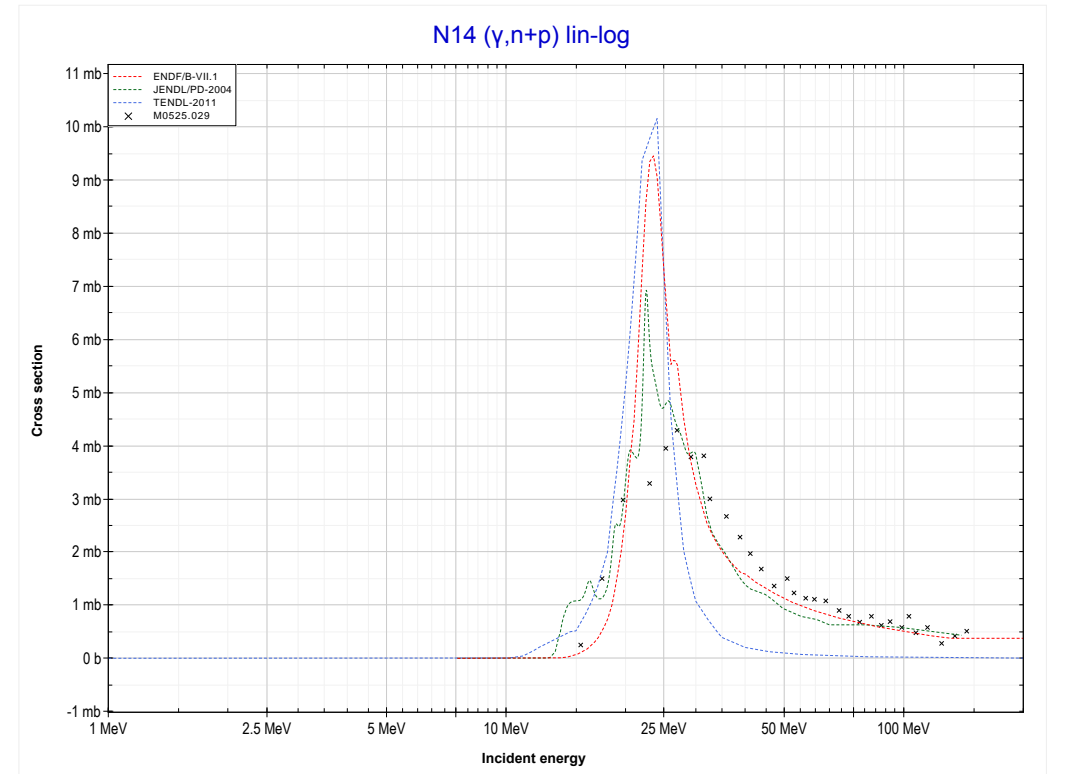
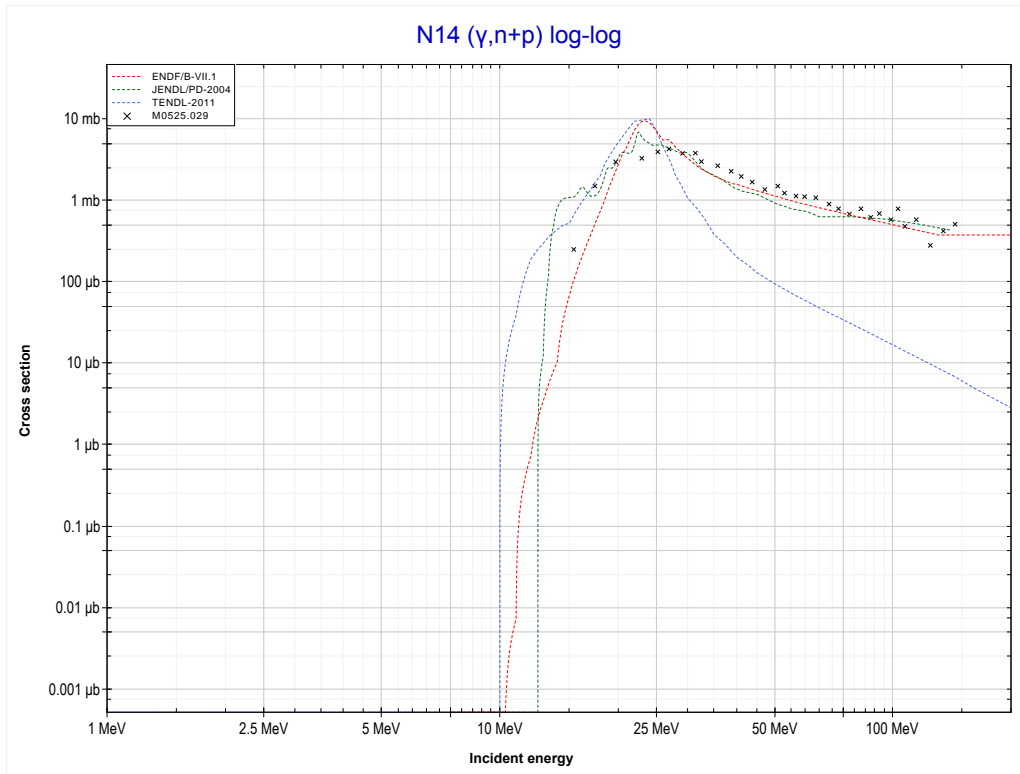
Reaction	Q-Value
C14(γ,d)B12	-23484.73 keV
C14($\gamma,n+p$)B12	-25709.29 keV

<< 6-C-14	7-N-14	7-N-15 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (N13 production)	MT28 ($\gamma, n+p$) >>



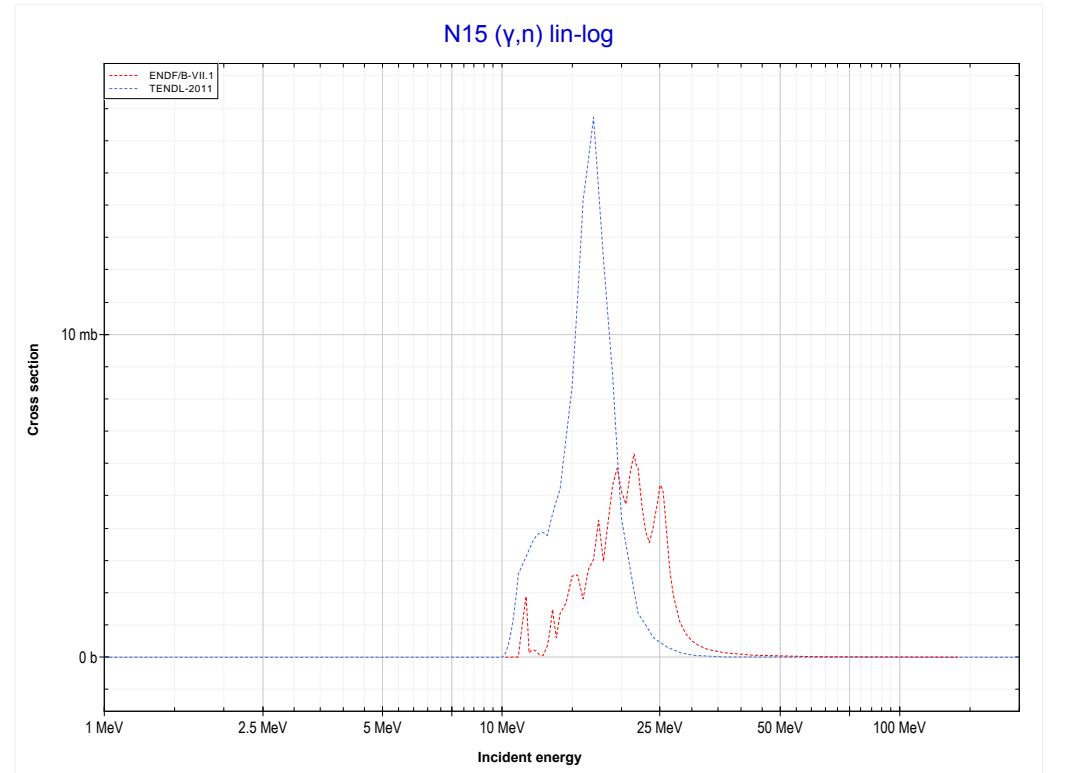
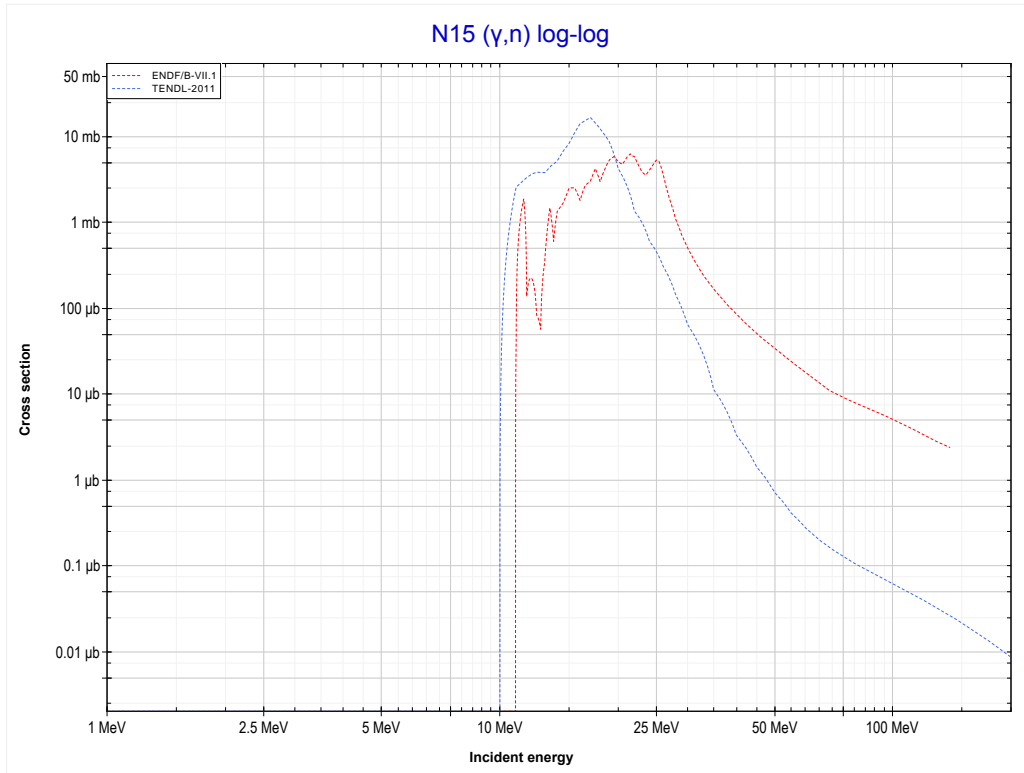
Reaction	Q-Value
N14(γ, n)N13	-10553.38 keV

<< 6-C-14	7-N-14	7-N-15 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (C12 production)	MT4 (γ,n) >>



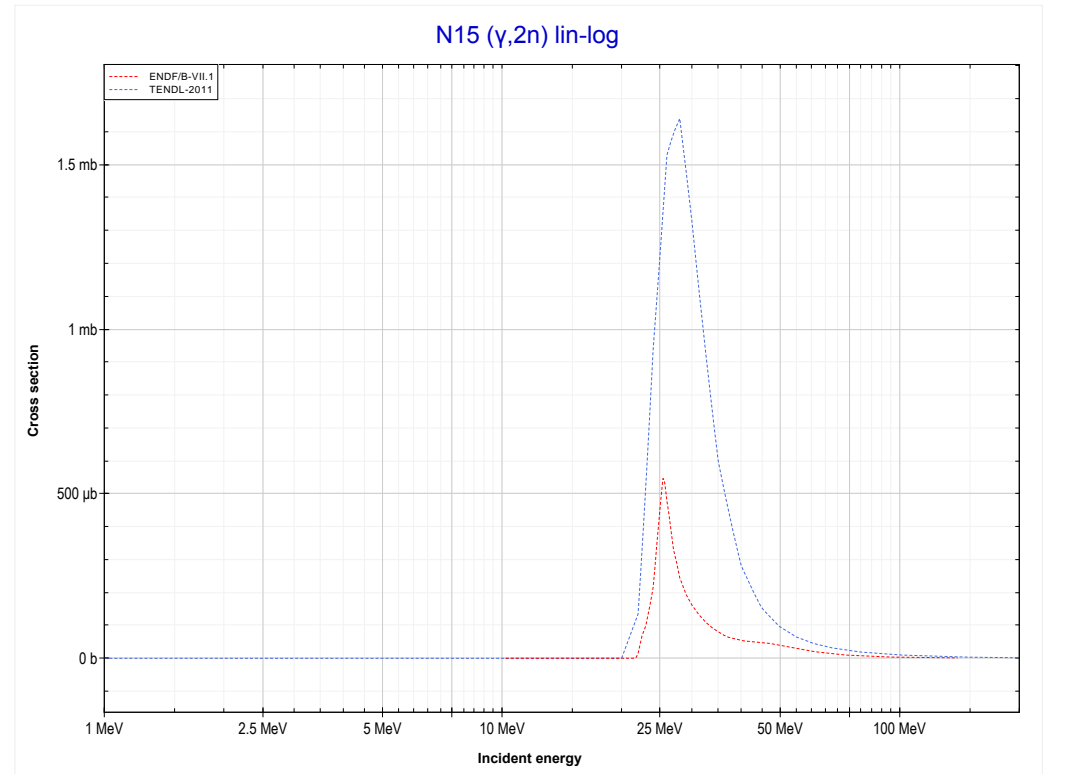
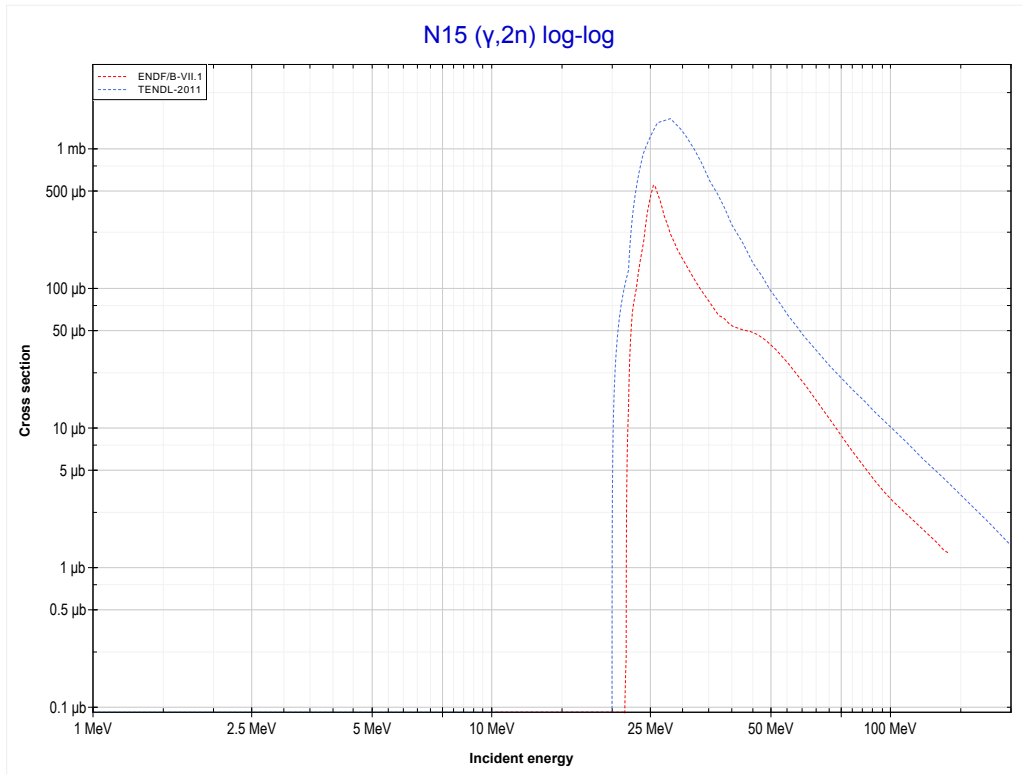
Reaction	Q-Value
N14(γ,d)C12	-10272.30 keV
N14($\gamma,n+p$)C12	-12496.87 keV

<< 7-N-14	7-N-15	8-O-16 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (N14 production)	MT16 ($\gamma, 2n$) >>



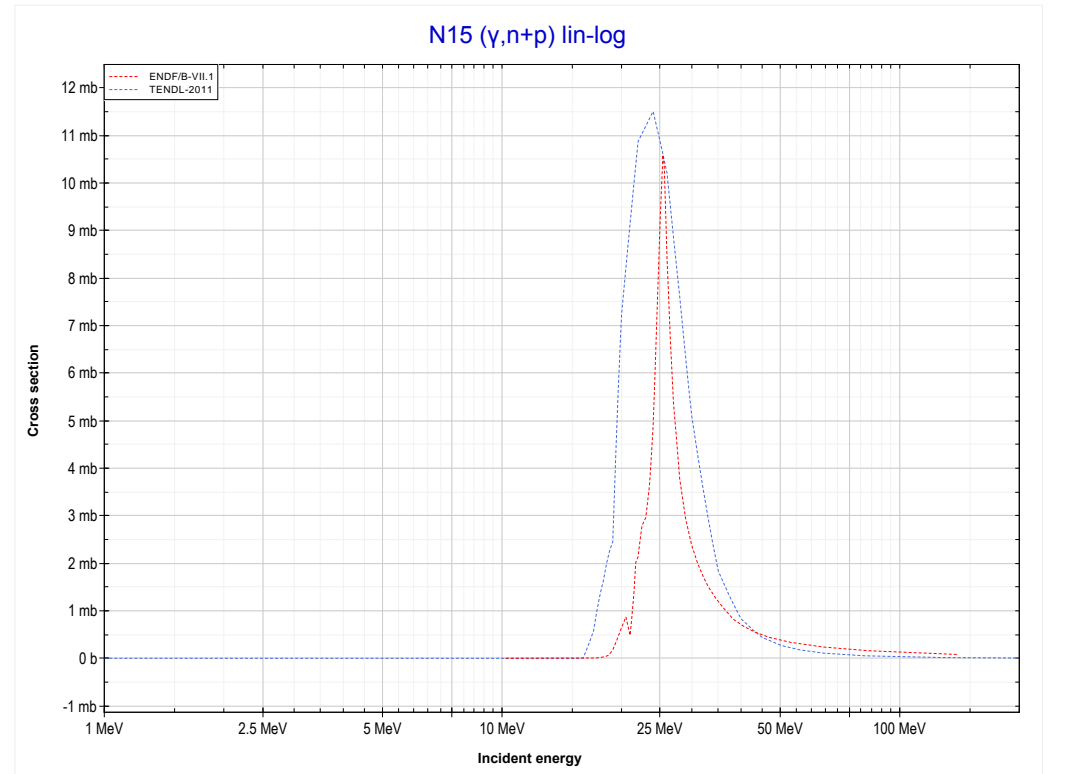
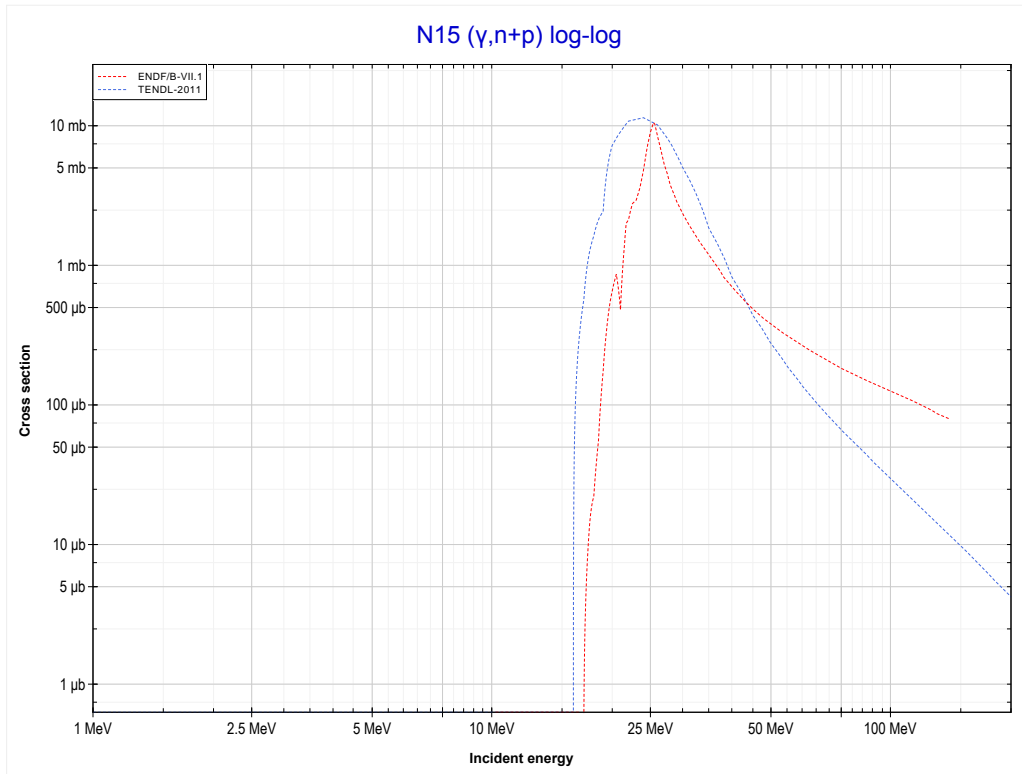
Reaction	Q-Value
N15(γ, n)N14	-10833.30 keV

<< 6-C-14	7-N-15	8-O-16 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (N13 production)	MT28 ($\gamma,n+p$) >>



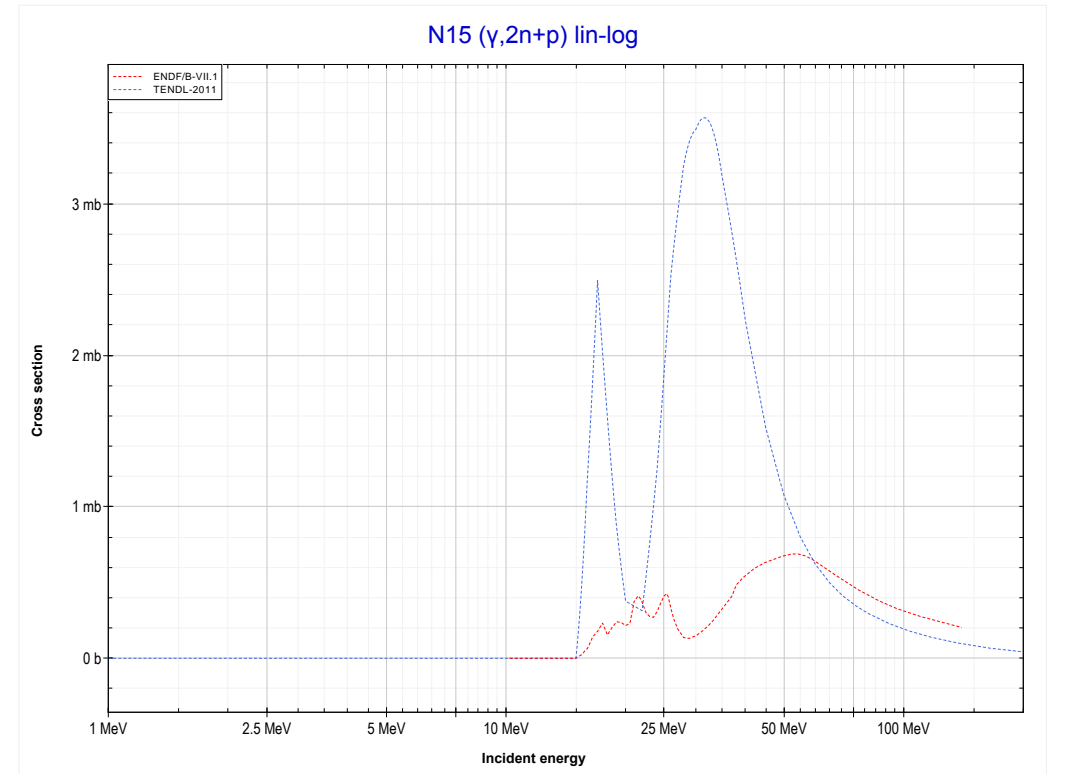
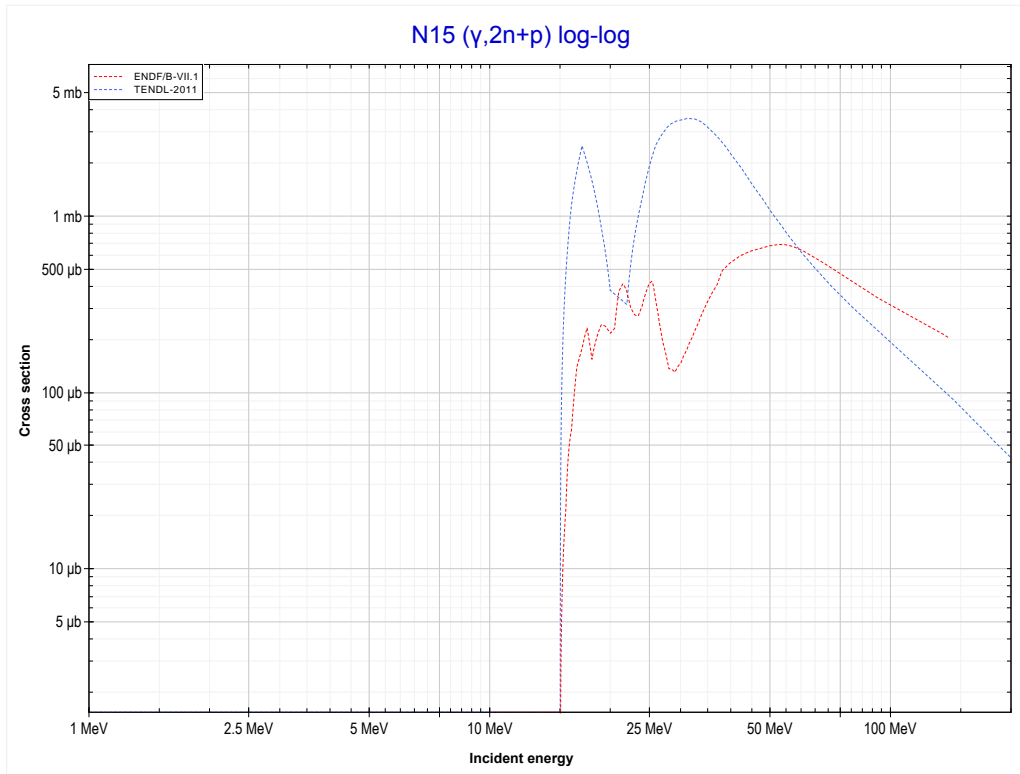
Reaction	Q-Value
N15($\gamma,2n$)N13	-21386.68 keV

<< 7-N-14	7-N-15	8-O-16 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (C13 production)	MT41 ($\gamma,2n+p$) >>



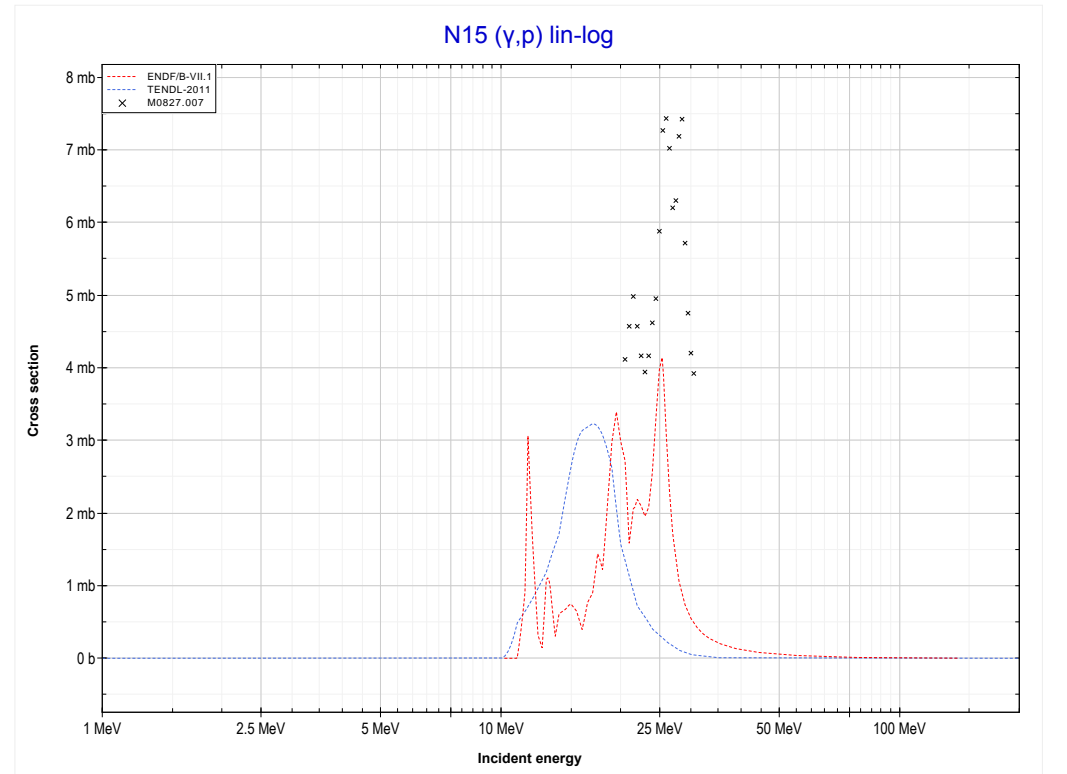
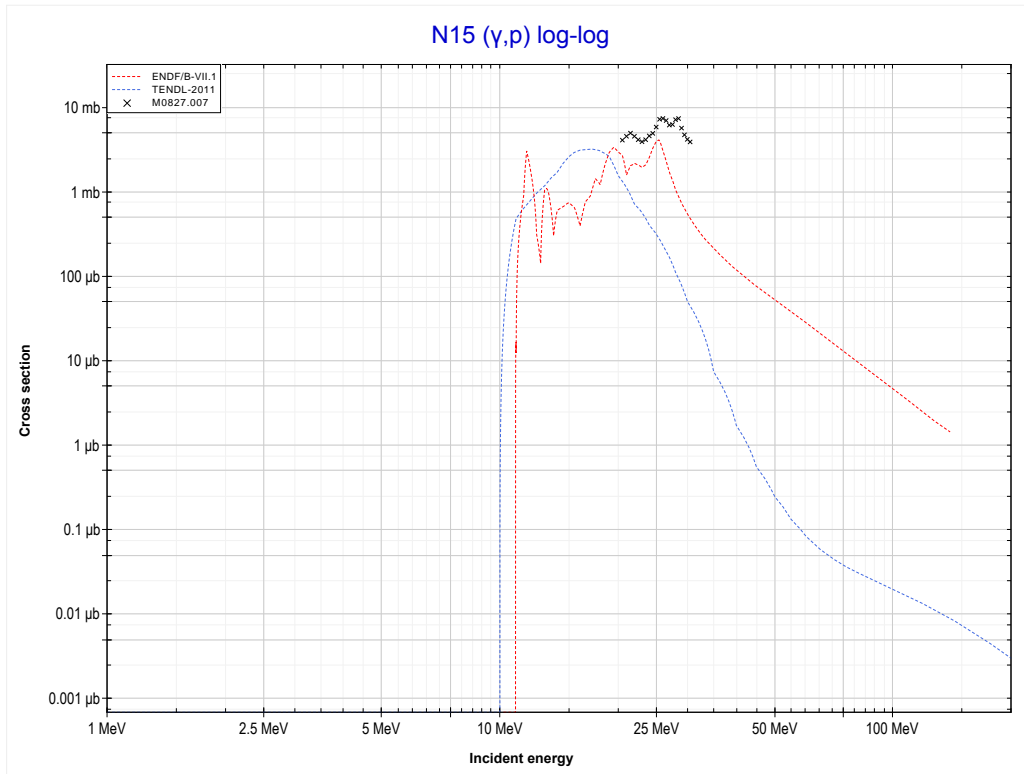
Reaction	Q-Value
N15(γ,d)C13	-16159.29 keV
N15($\gamma,n+p$)C13	-18383.86 keV

<< 6-C-13	7-N-15	8-O-16 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (C12 production)	MT103 (γ, p) >>



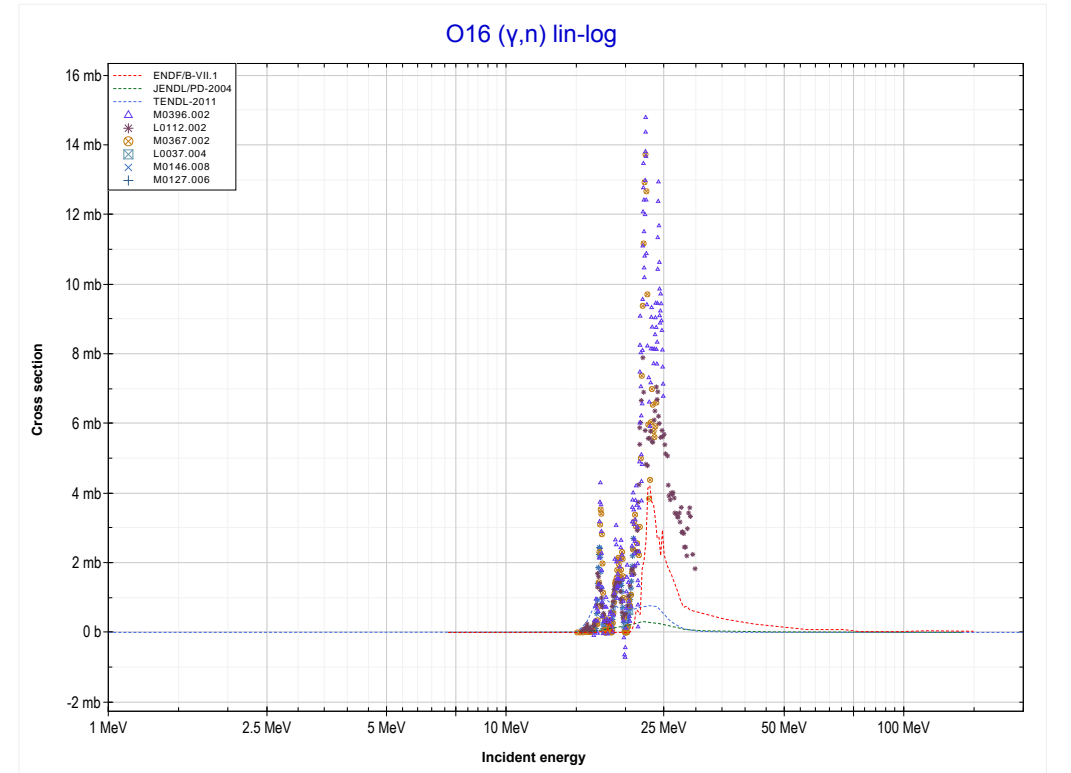
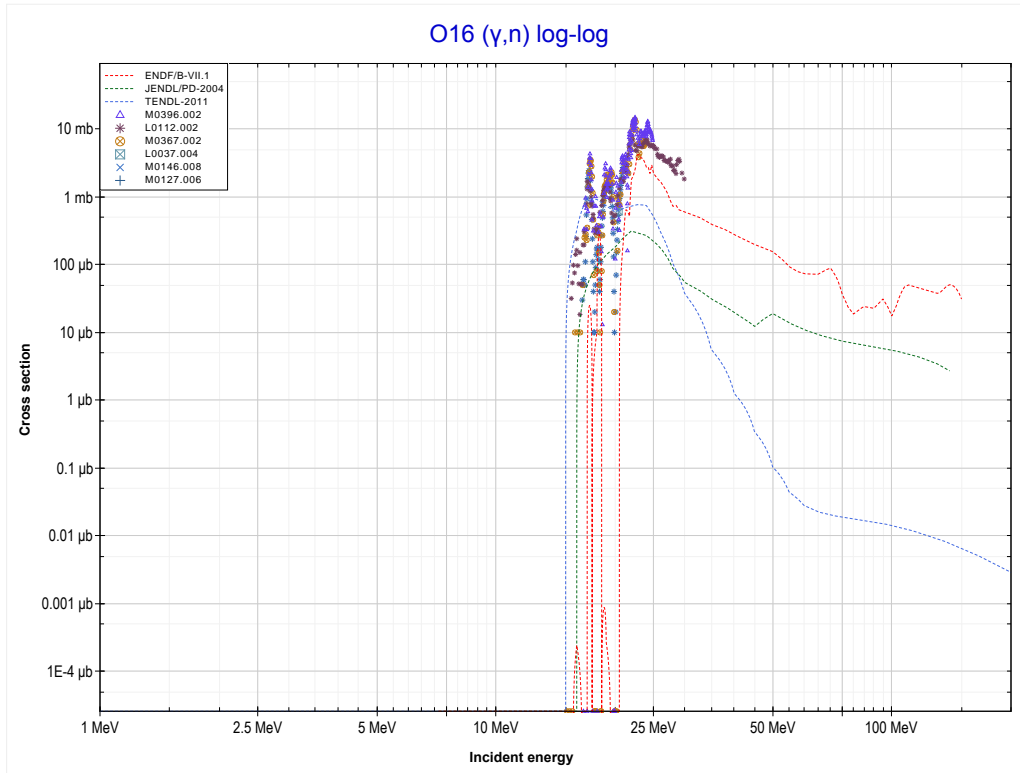
Reaction	Q-Value
N15(γ, t)C12	-14848.37 keV
N15($\gamma, n+d$)C12	-21105.60 keV
N15($\gamma, 2n+p$)C12	-23330.17 keV

<< 6-C-13	7-N-15	8-O-16 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (C14 production)	MT4 (γ, n) >>



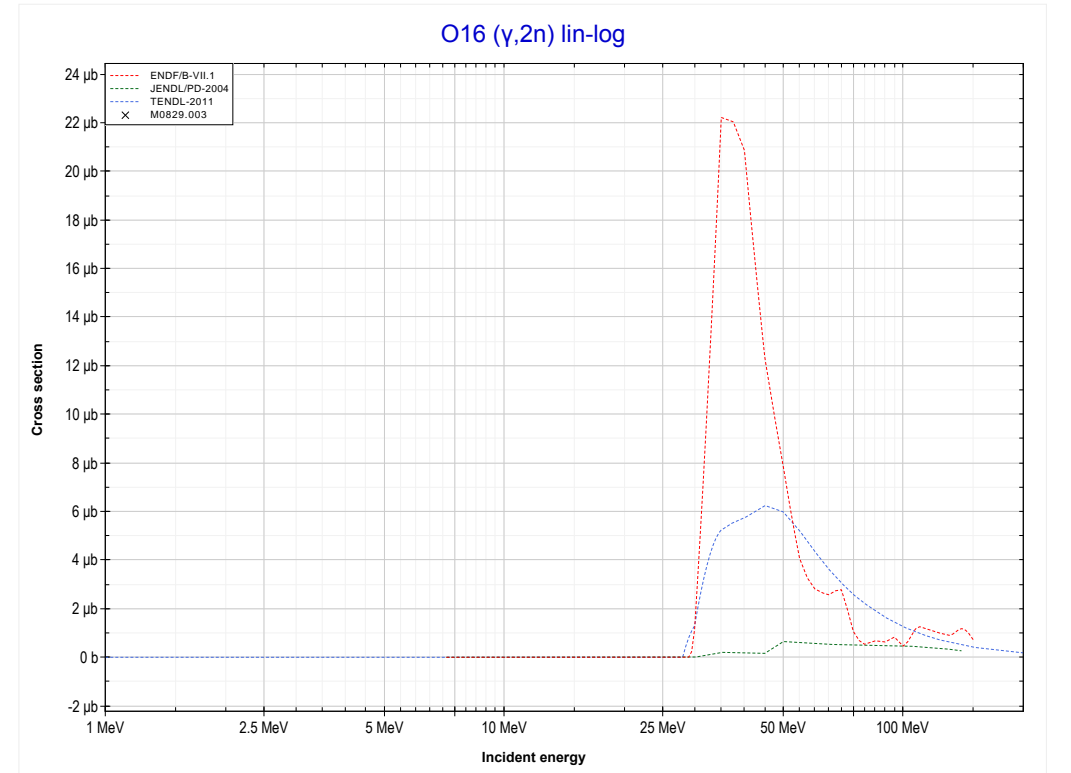
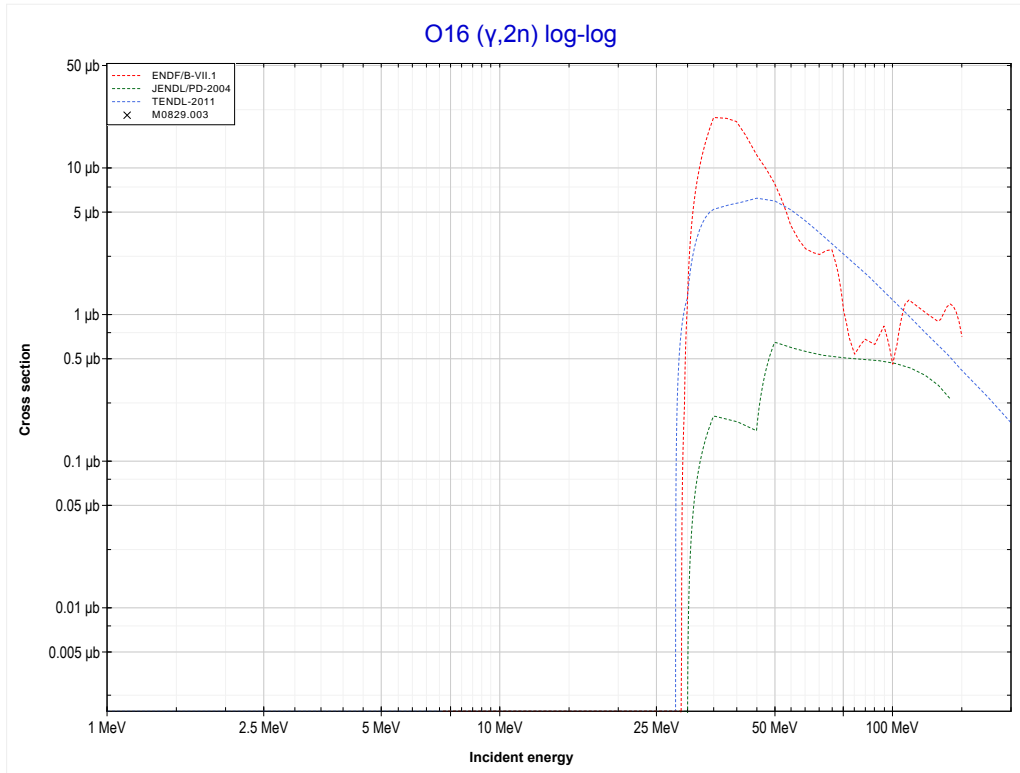
Reaction	Q-Value
N15(γ, p)C14	-10207.43 keV

<< 7-N-15	8-O-16	8-O-17 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (O15 production)	MT16 ($\gamma,2n$) >>



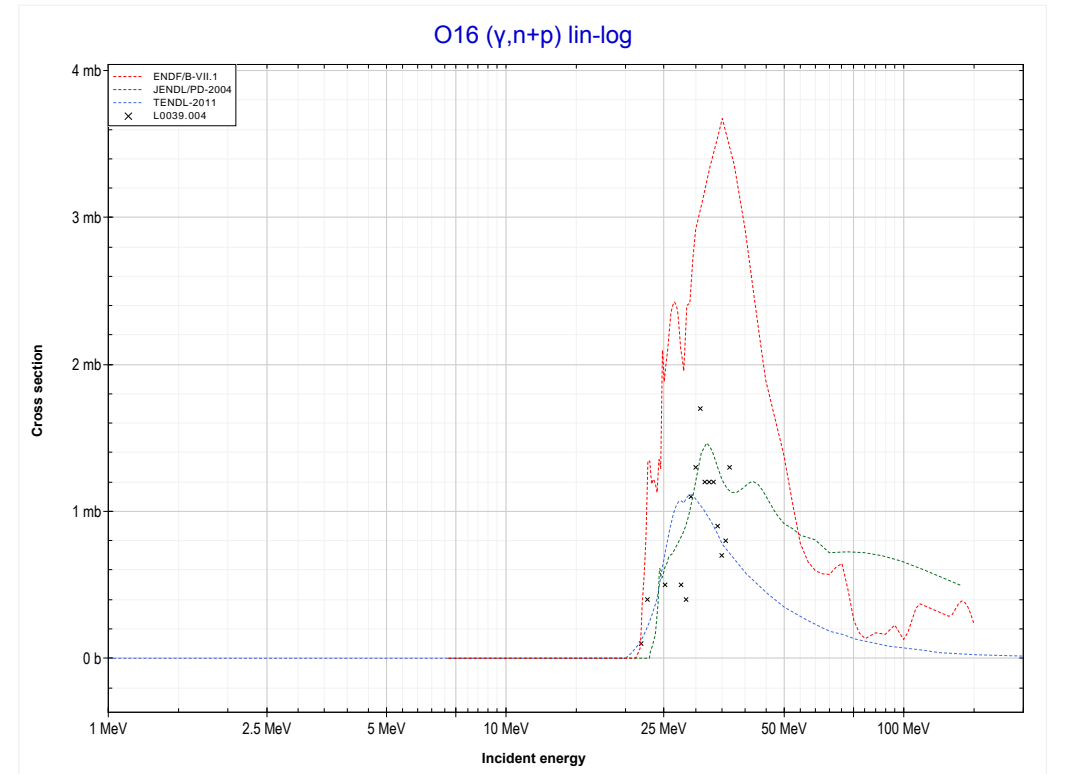
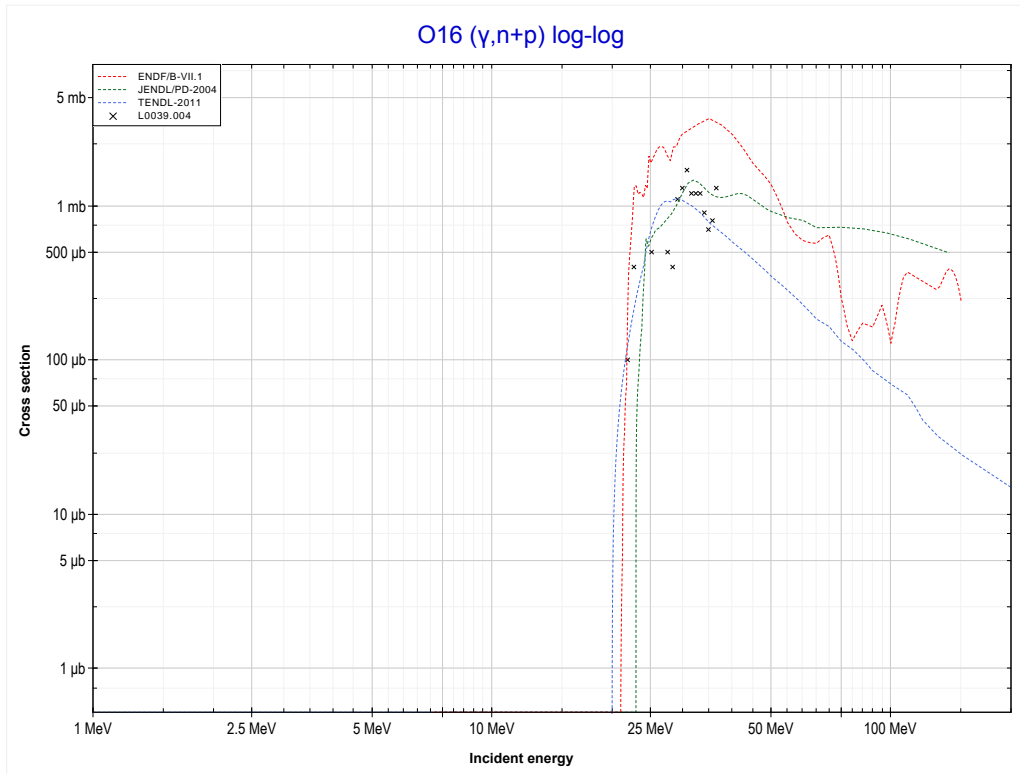
Reaction	Q-Value
O16(γ,n)O15	-15663.92 keV

<< 7-N-15	8-O-16	8-O-17 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (O14 production)	MT28 ($\gamma,n+p$) >>



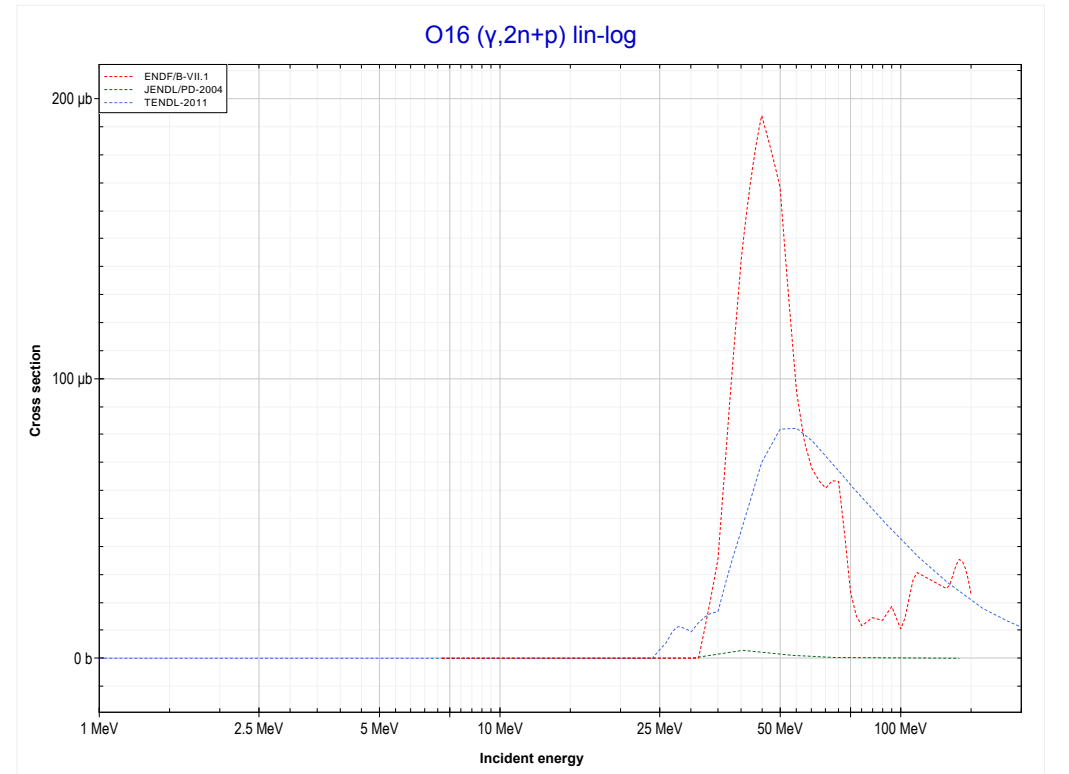
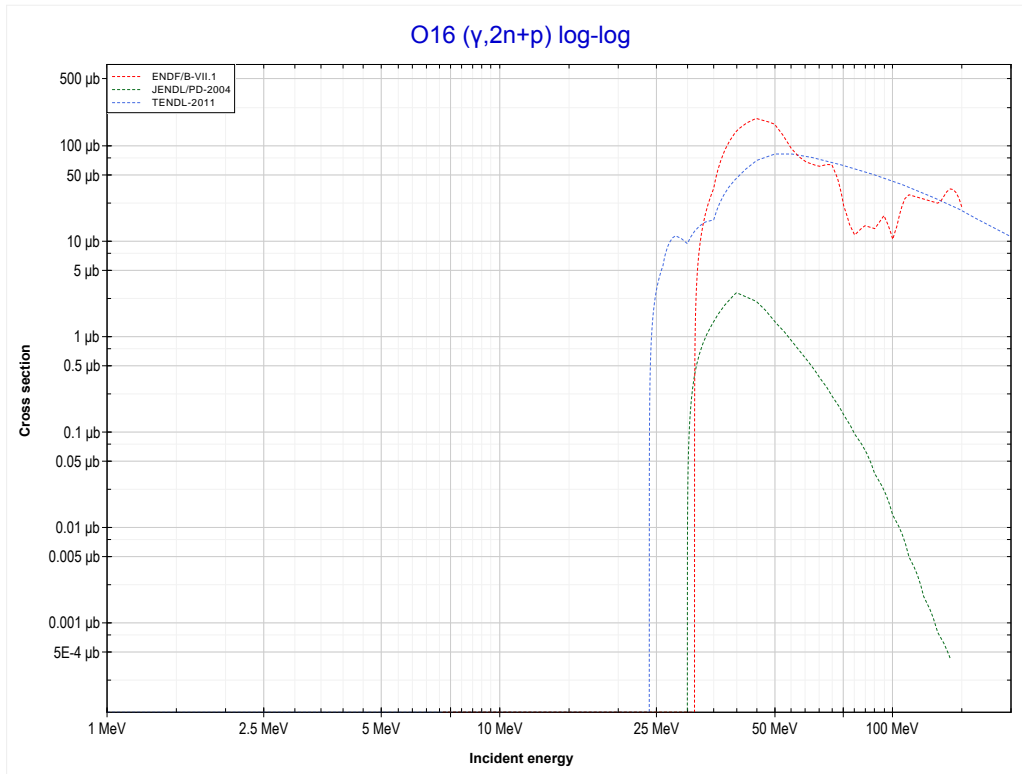
Reaction	Q-Value
O16($\gamma,2n$)O14	-28887.00 keV

<< 7-N-15	8-O-16	8-O-17 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (N14 production)	MT41 ($\gamma,2n+p$) >>



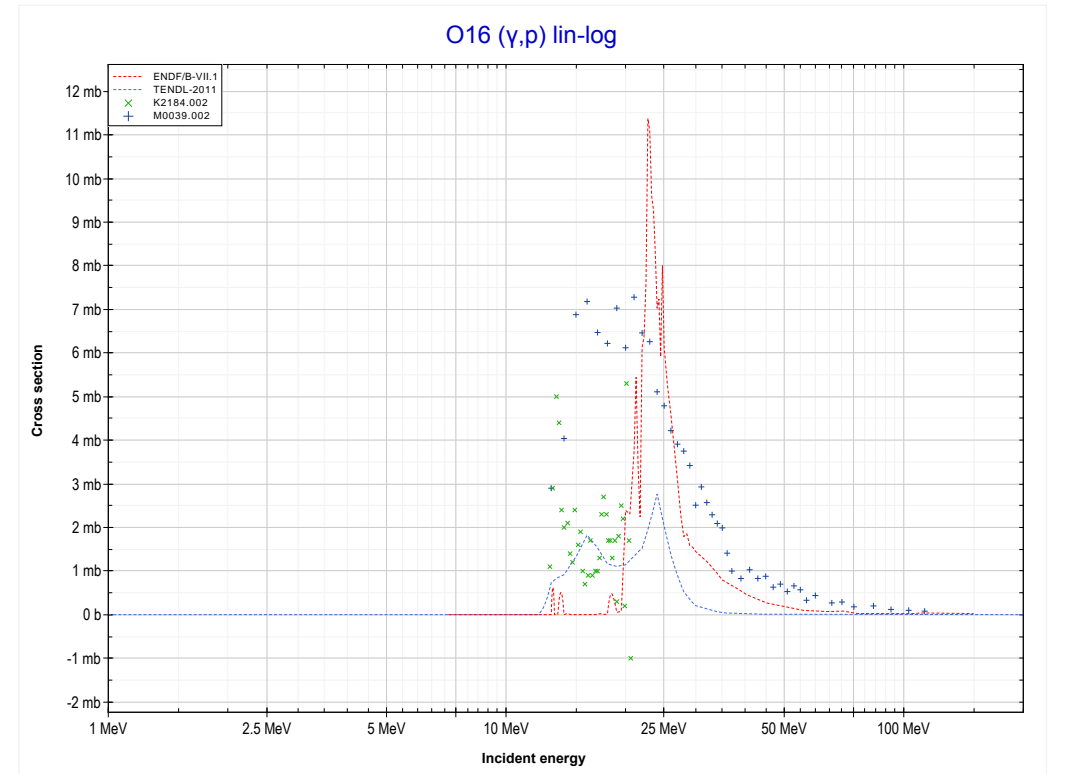
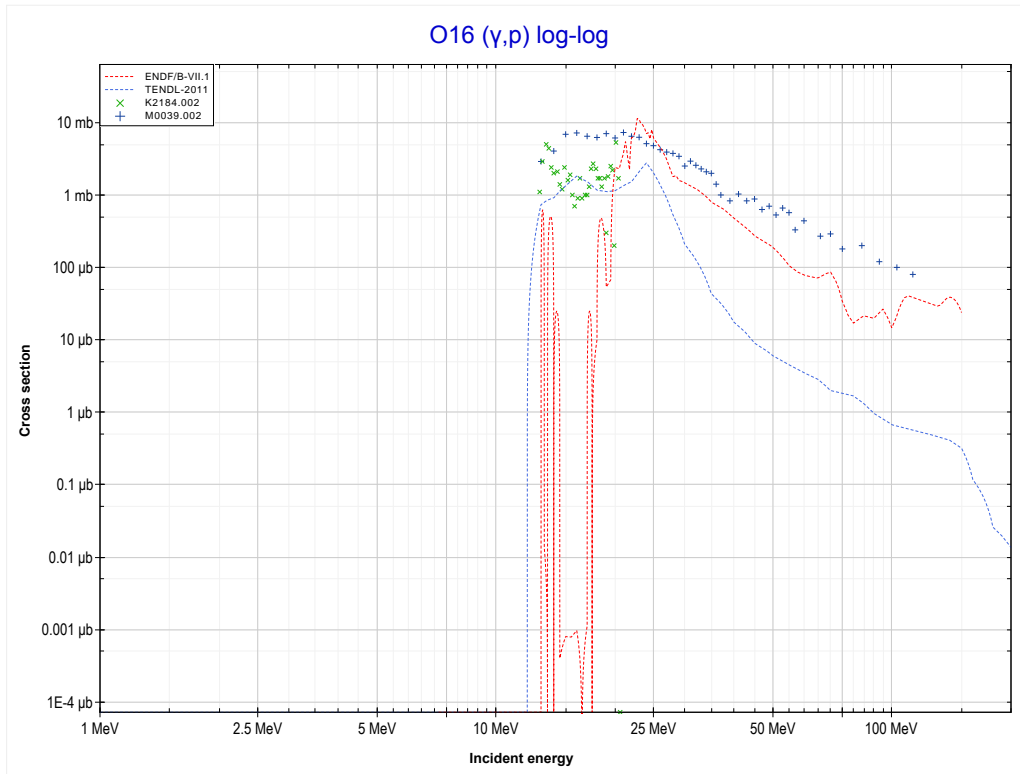
Reaction	Q-Value
O16(γ,d)N14	-20736.14 keV
O16($\gamma,n+p$)N14	-22960.71 keV

<< 7-N-15	8-O-16	8-O-17 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (N13 production)	MT103 (γ, p) >>



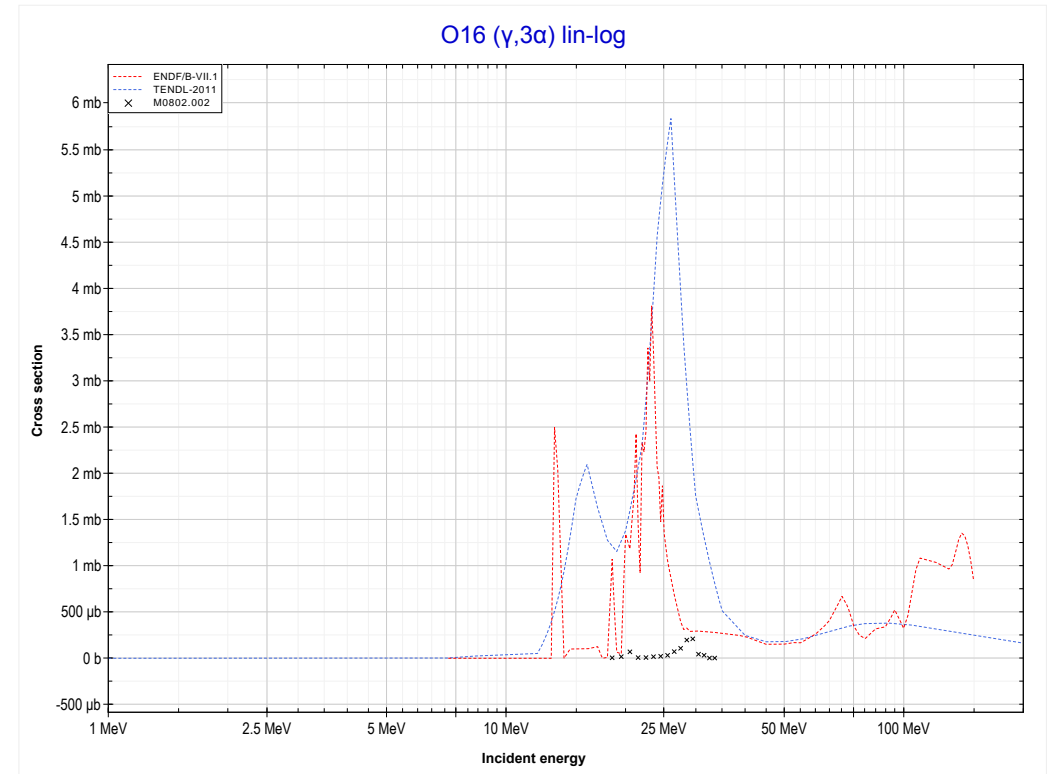
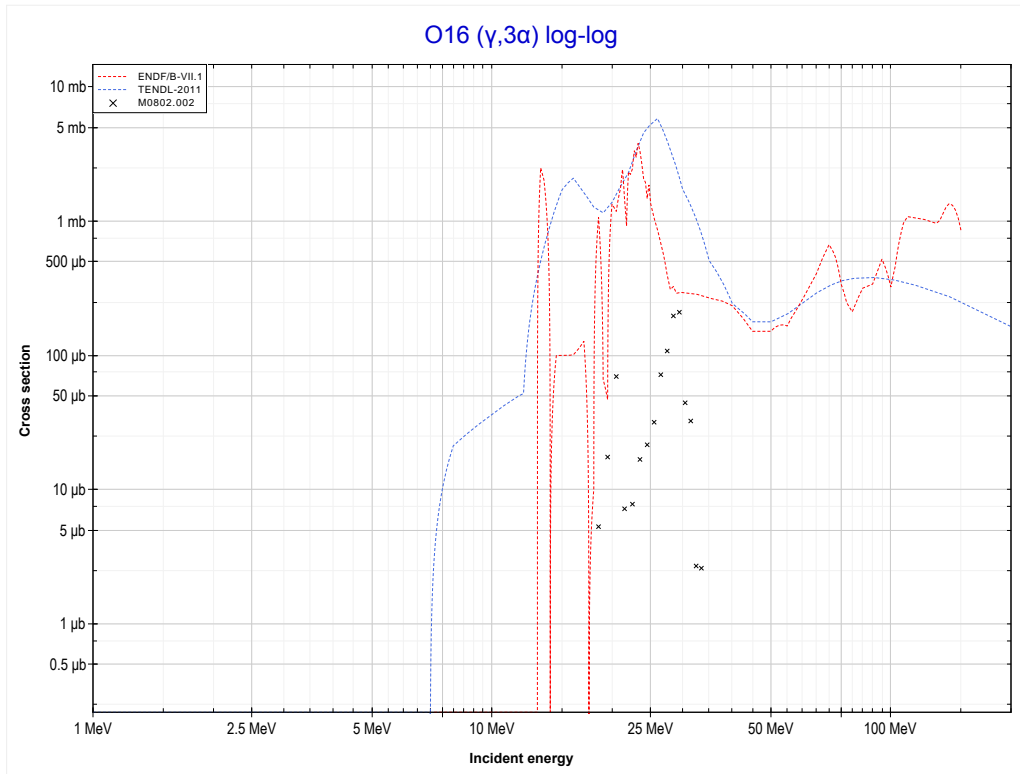
Reaction	Q-Value
O16(γ, t)N13	-25032.29 keV
O16($\gamma, n+d$)N13	-31289.52 keV
O16($\gamma, 2n+p$)N13	-33514.09 keV

<< 7-N-15	8-O-16	8-O-18 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (N15 production)	MT109 ($\gamma, 3\alpha$) >>



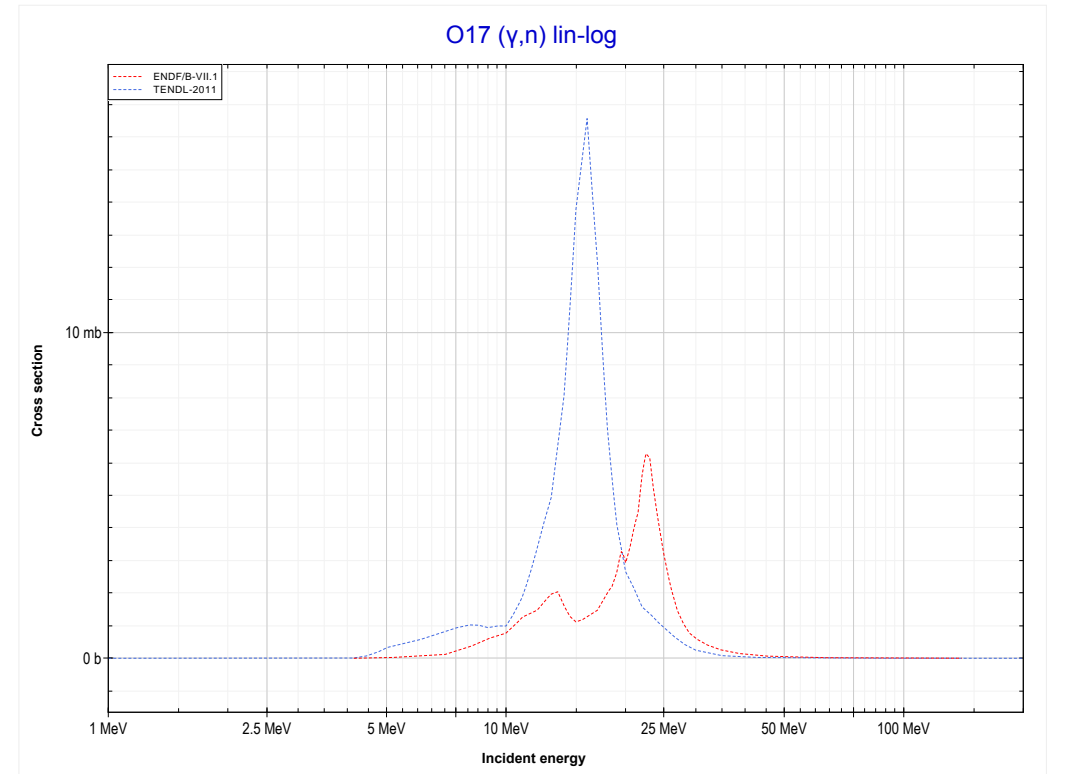
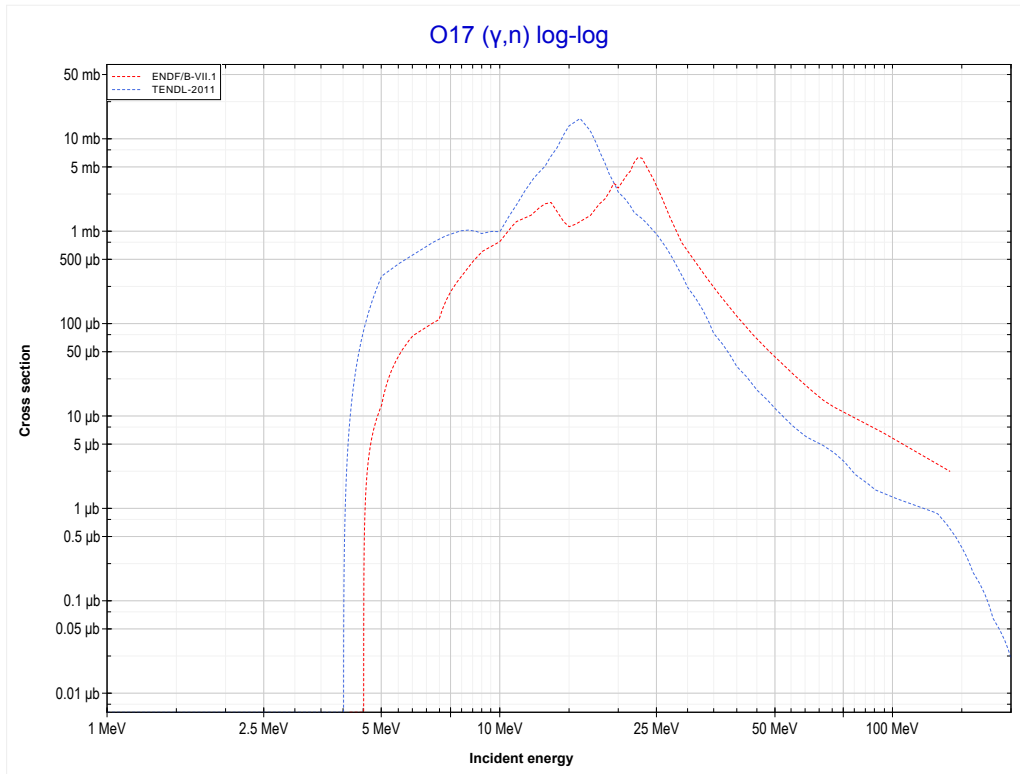
Reaction	Q-Value
O16(γ, p)N15	-12127.41 keV

	8-O-16	
<< MT103 (γ, p)	MT109 ($\gamma, 3\alpha$) or MT5 (He4 production)	MT4 (γ, n) >>



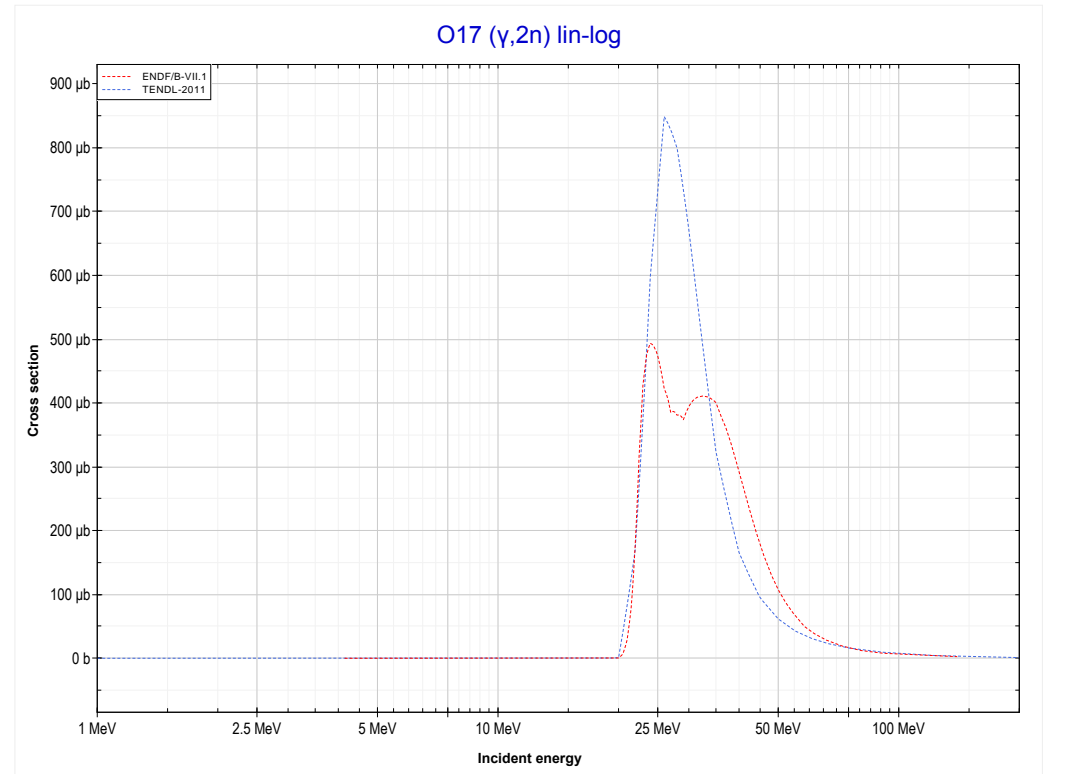
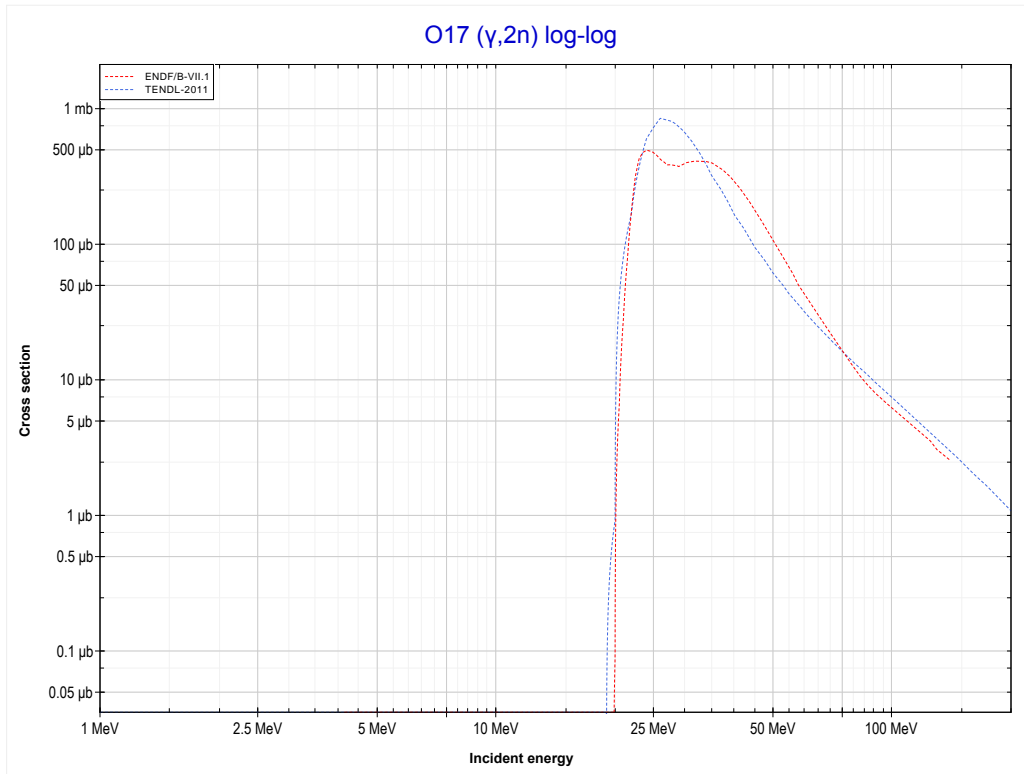
Reaction	Q-Value	Reaction	Q-Value
O16($\gamma, 3\alpha$)He4	-14436.66 keV	O16($\gamma, n+p+t+He3+\alpha$)He4	-54828.14 keV
O16($\gamma, p+t+2\alpha$)He4	-34250.52 keV	O16($\gamma, 2n+2He3+\alpha$)He4	-55591.90 keV
O16($\gamma, n+He3+2\alpha$)He4	-35014.28 keV	O16($\gamma, p+2d+t+\alpha$)He4	-58097.05 keV
O16($\gamma, 2d+2\alpha$)He4	-38283.19 keV	O16($\gamma, n+2d+He3+\alpha$)He4	-58860.81 keV
O16($\gamma, n+p+d+2\alpha$)He4	-40507.76 keV	O16($\gamma, n+2p+d+t+\alpha$)He4	-60321.62 keV
O16($\gamma, 2n+2p+2\alpha$)He4	-42732.32 keV	O16($\gamma, 2n+p+d+He3+\alpha$)He4	-61085.37 keV
O16($\gamma, d+t+He3+\alpha$)He4	-52603.57 keV	O16($\gamma, 4d+\alpha$)He4	-62129.72 keV
O16($\gamma, 2p+2t+\alpha$)He4	-54064.39 keV	O16($\gamma, 2n+3p+t+\alpha$)He4	-62546.18 keV

<< 8-O-16	8-O-17	8-O-18 >>
<< MT109 ($\gamma,3\alpha$)	MT4 (γ,n) or MT5 (O16 production)	MT16 ($\gamma,2n$) >>



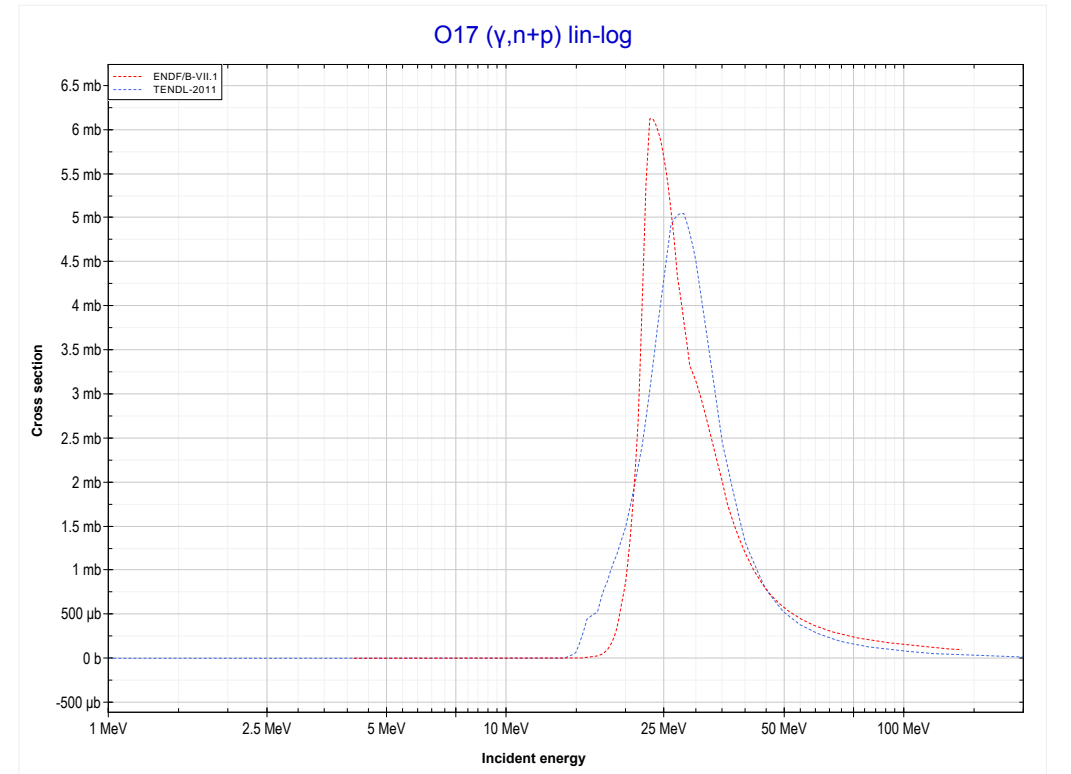
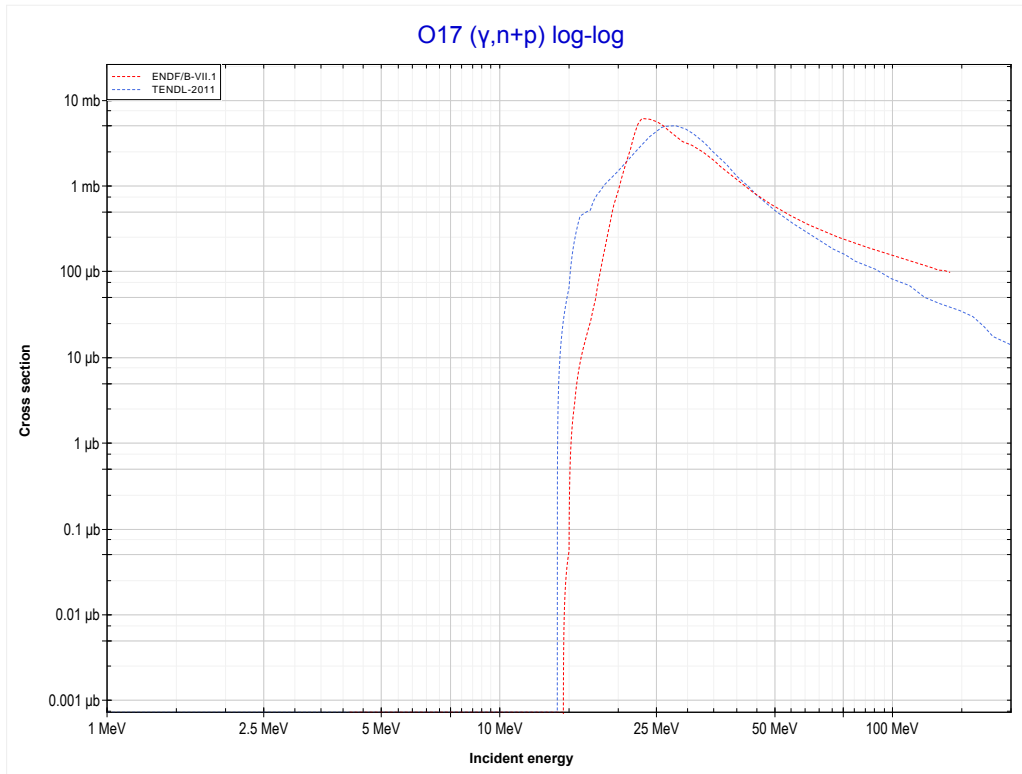
Reaction	Q-Value
O17(γ,n)O16	-4143.13 keV

<< 8-O-16	8-O-17	8-O-18 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (O15 production)	MT28 ($\gamma, n+p$) >>



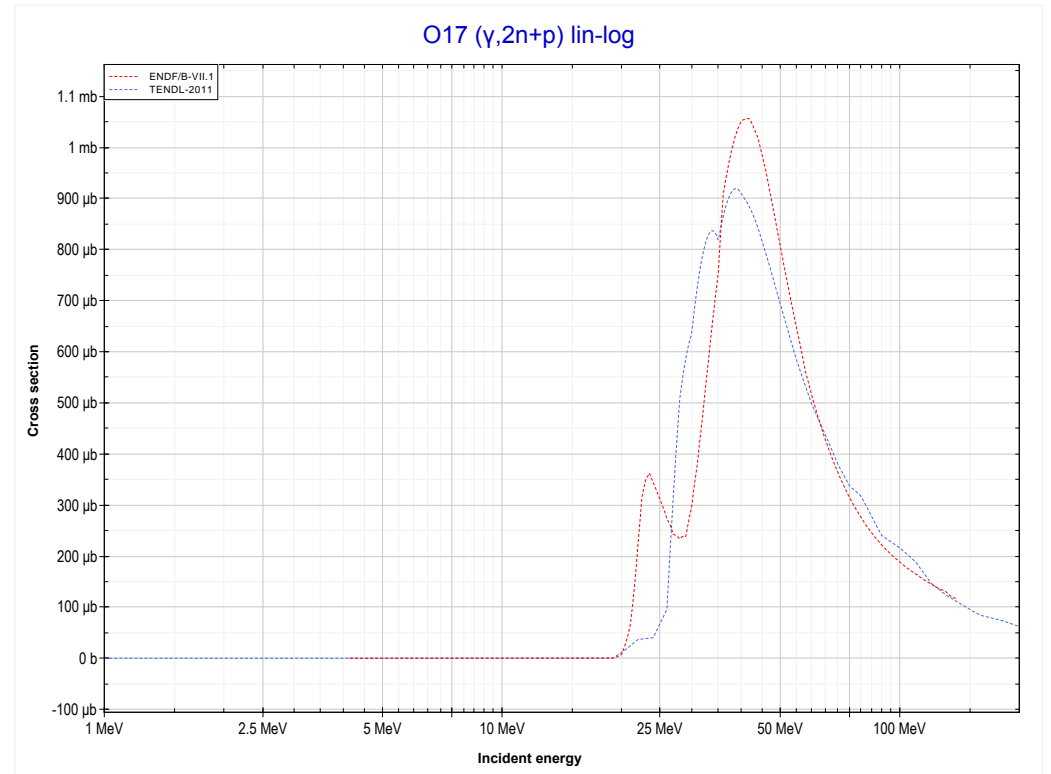
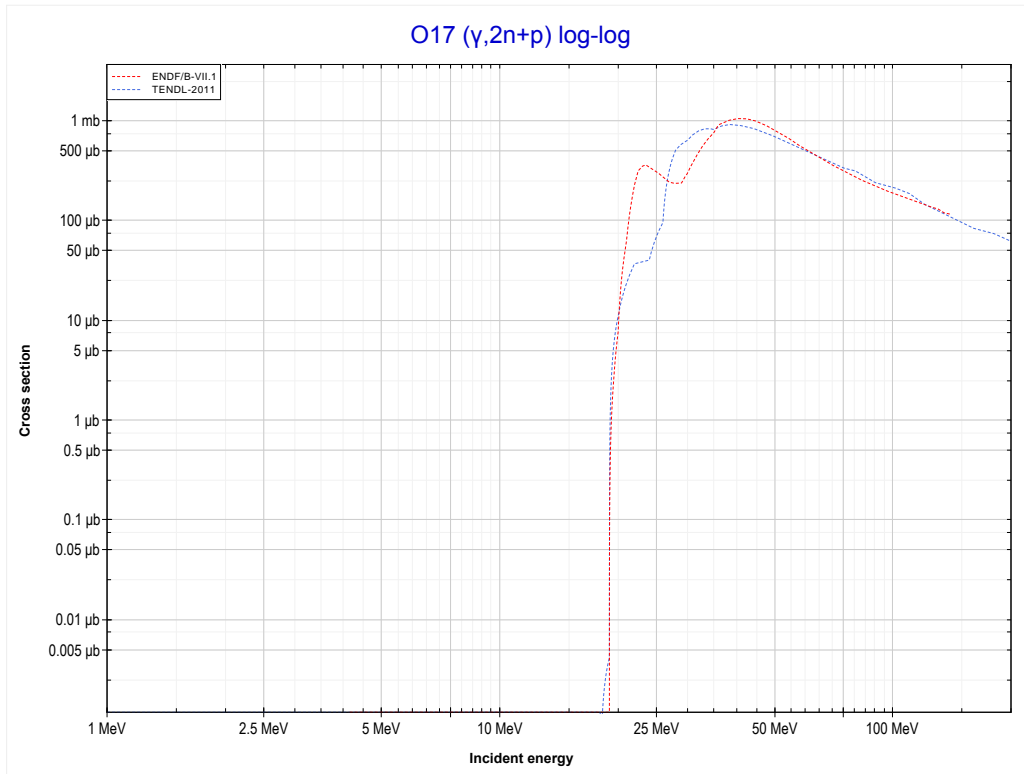
Reaction	Q-Value
O17($\gamma, 2n$)O15	-19807.04 keV

<< 8-O-16	8-O-17	8-O-18 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (N15 production)	MT41 ($\gamma,2n+p$) >>



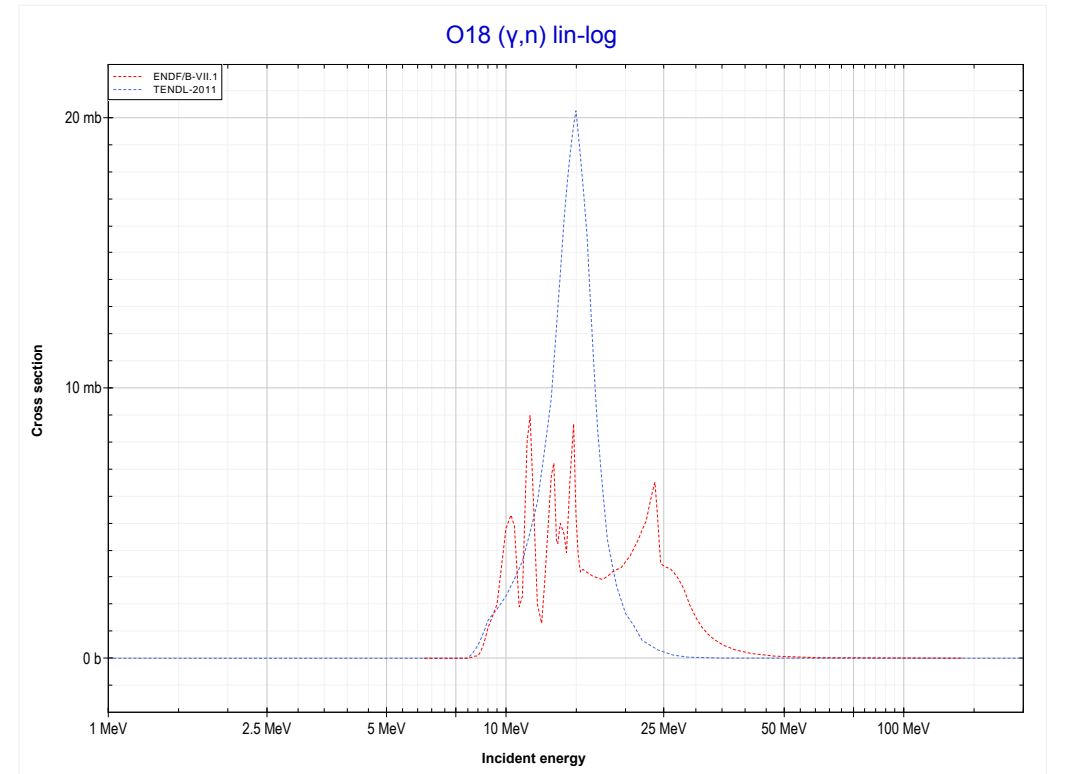
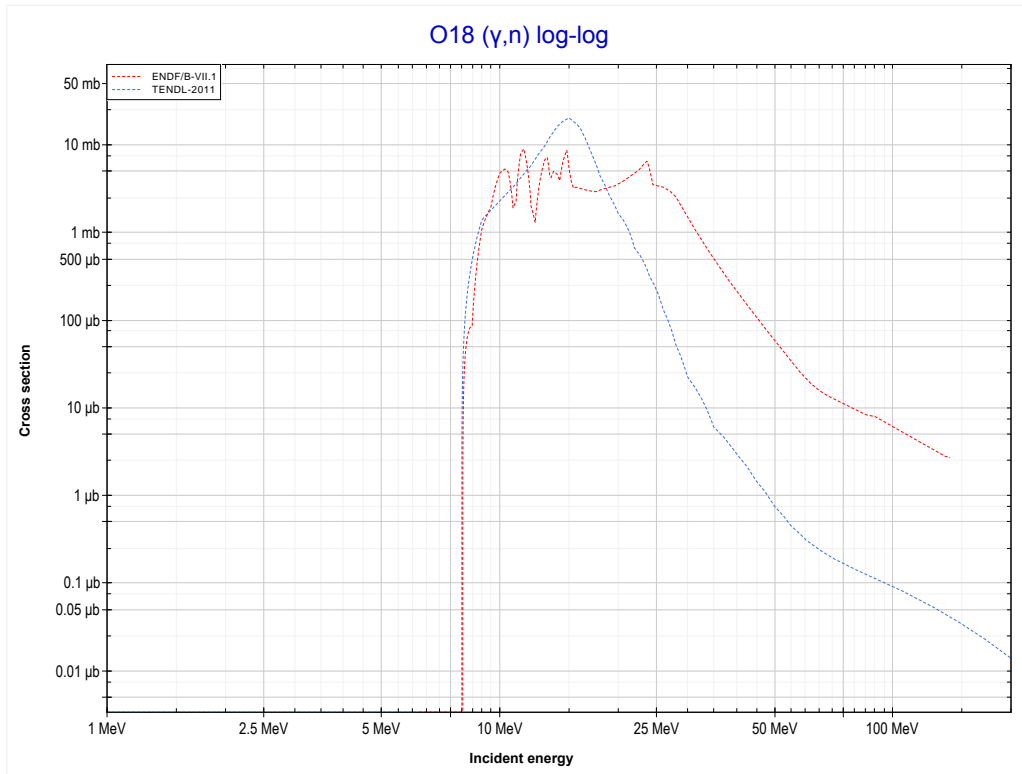
Reaction	Q-Value
O17(γ,d)N15	-14045.97 keV
O17($\gamma,n+p$)N15	-16270.54 keV

<< 8-O-16	8-O-17	8-O-18 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (N14 production)	MT4 (γ, n) >>



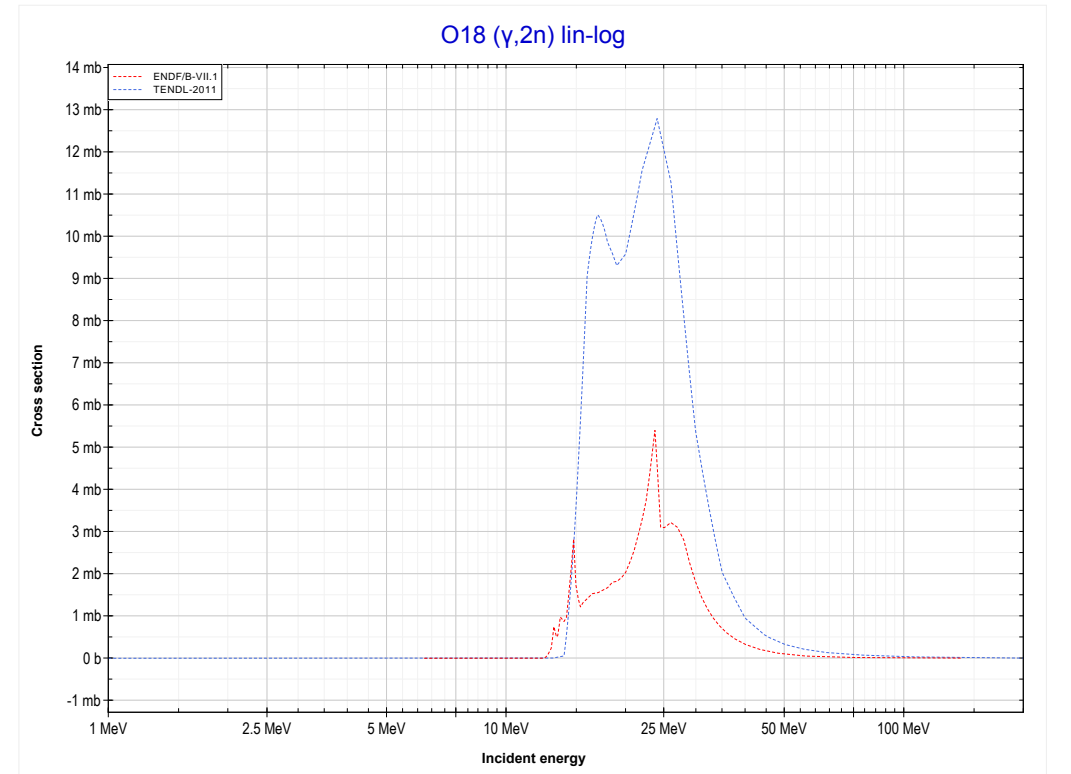
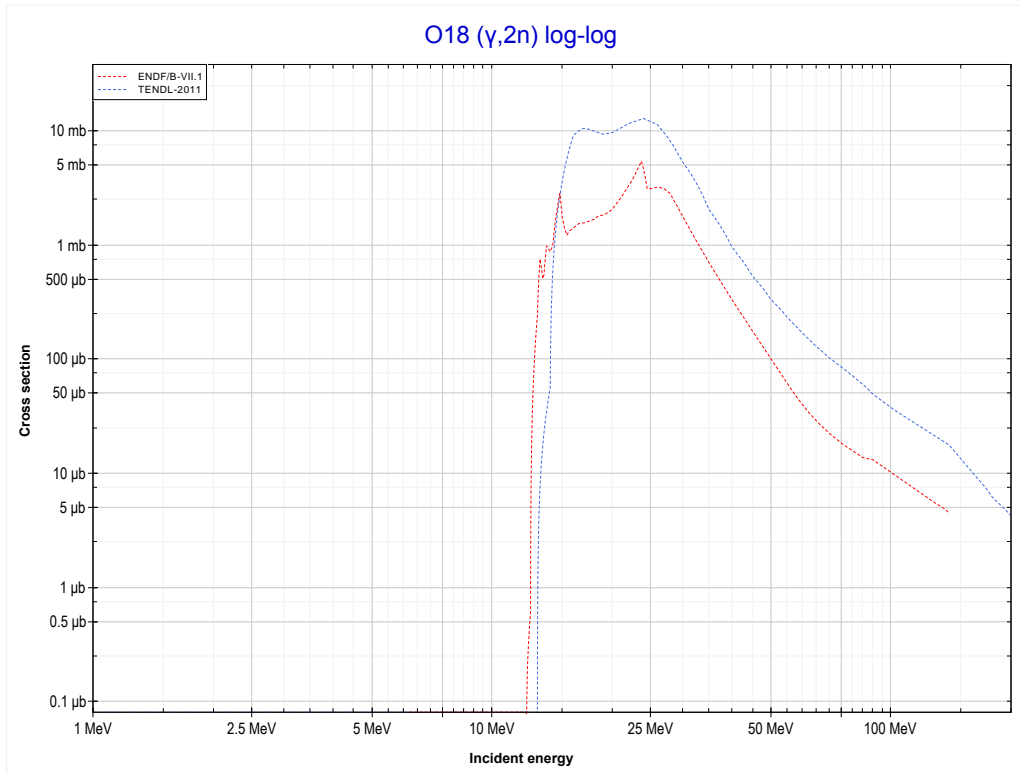
Reaction	Q-Value
O17(γ, t)N14	-18622.03 keV
O17($\gamma, n+d$)N14	-24879.27 keV
O17($\gamma, 2n+p$)N14	-27103.83 keV

<< 8-O-17	8-O-18	9-F-19 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (O17 production)	MT16 ($\gamma,2n$) >>



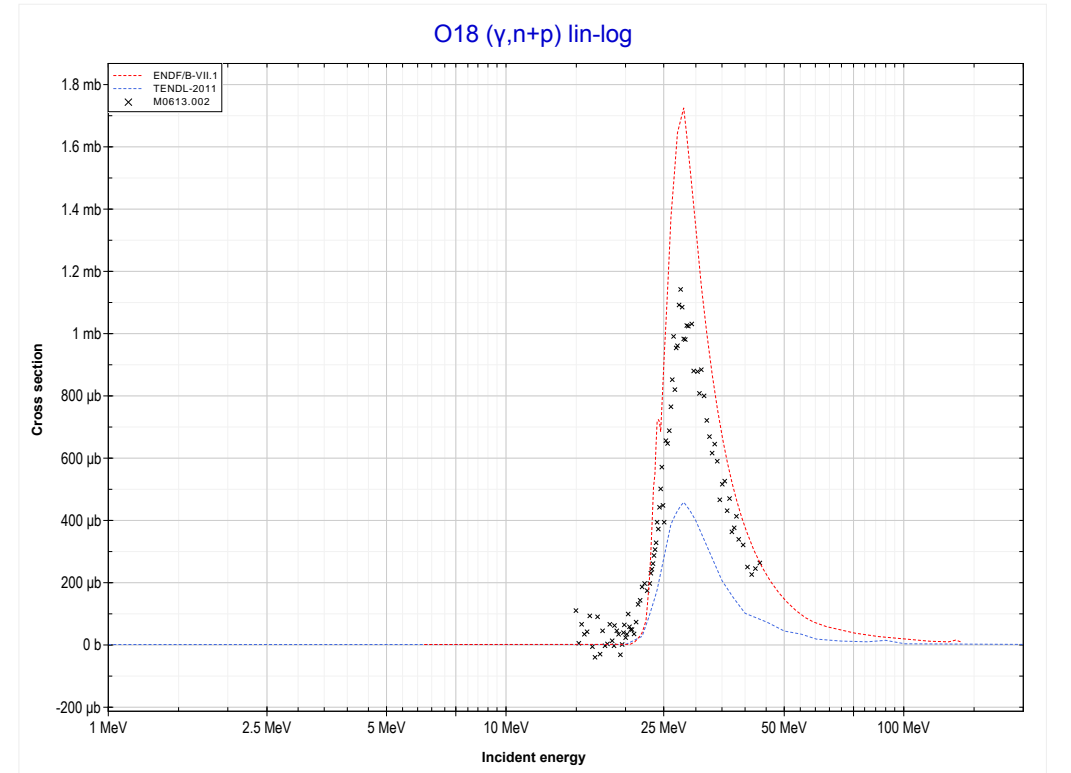
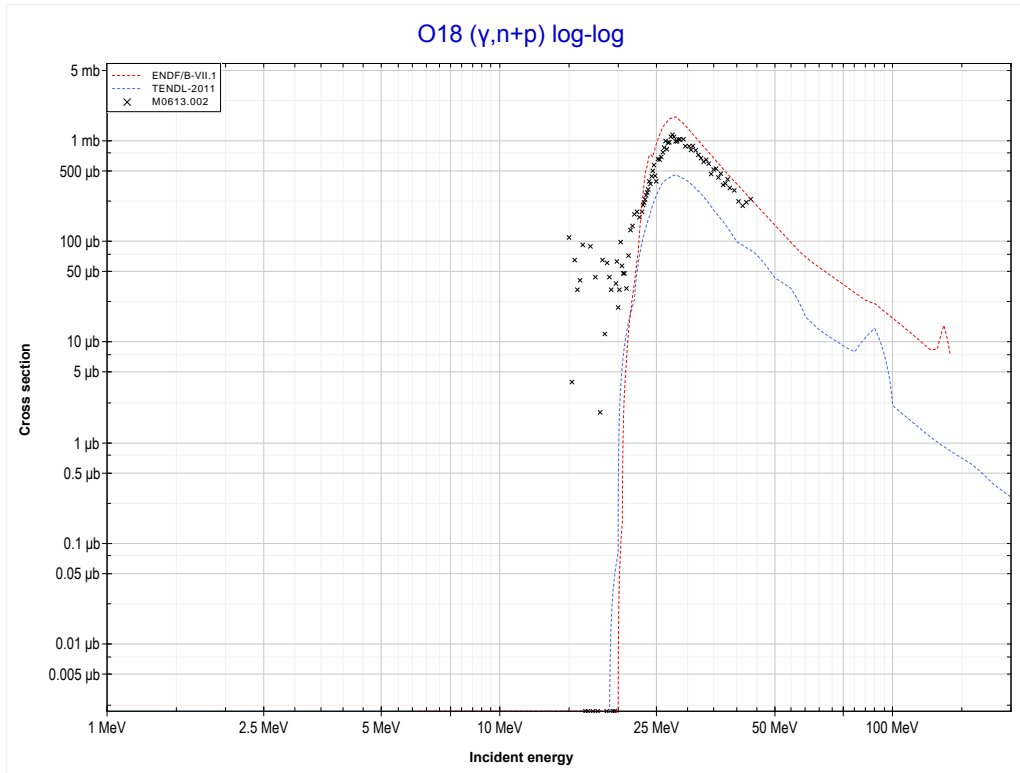
Reaction	Q-Value
O18(γ,n)O17	-8044.01 keV

<< 8-O-17	8-O-18	9-F-19 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (O16 production)	MT28 ($\gamma,n+p$) >>



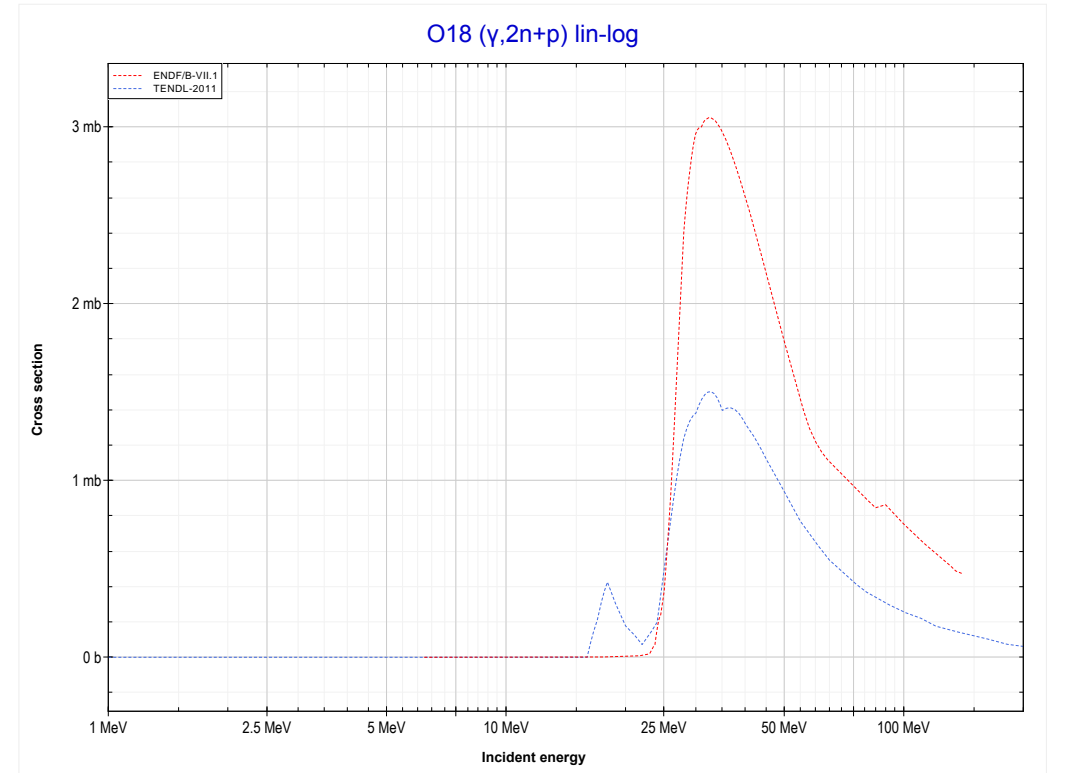
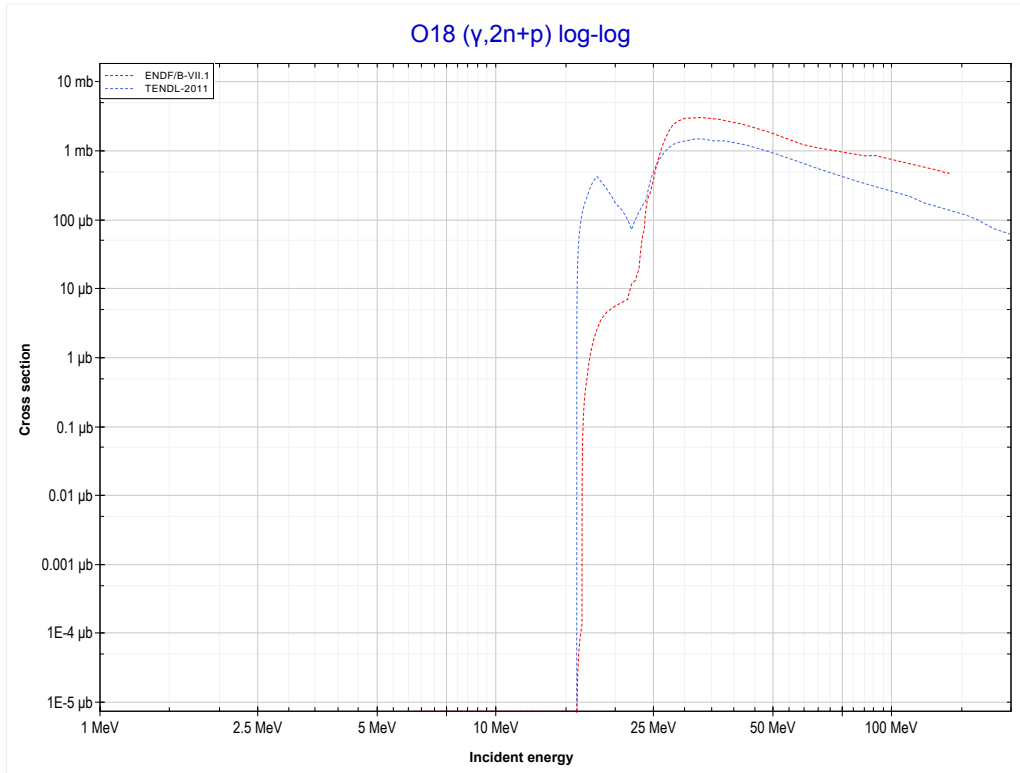
Reaction	Q-Value
O18($\gamma,2n$)O16	-12187.13 keV

<< 8-O-17	8-O-18	9-F-19 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (N16 production)	MT41 ($\gamma,2n+p$) >>



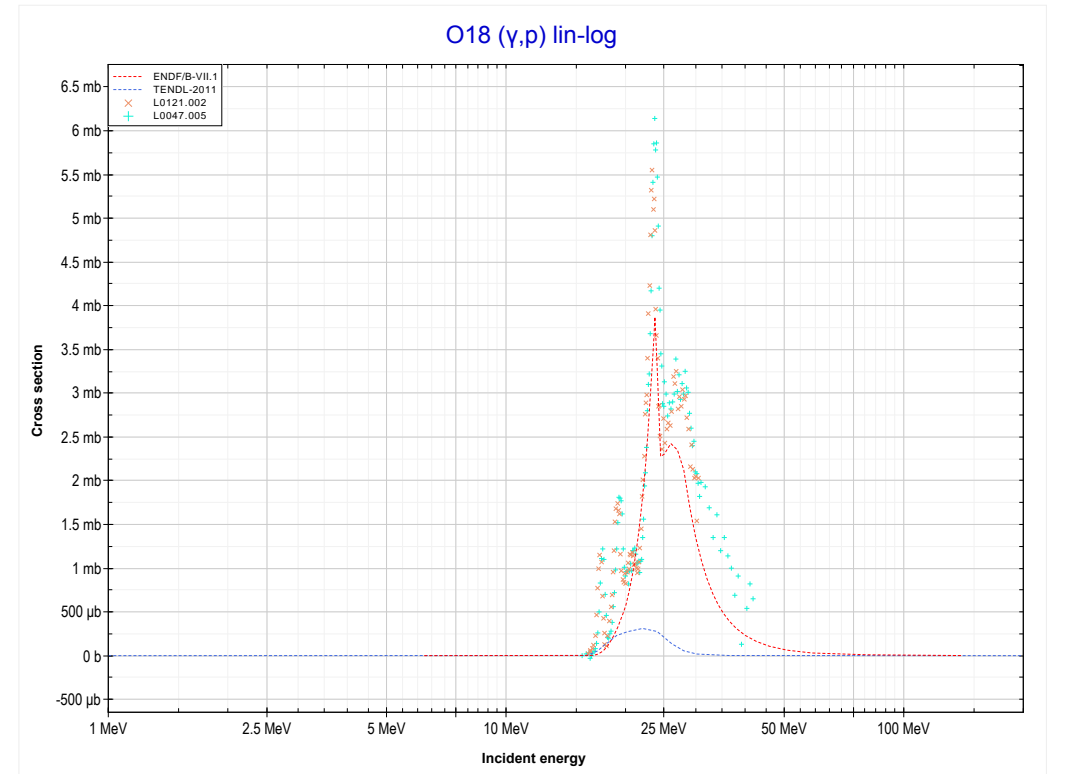
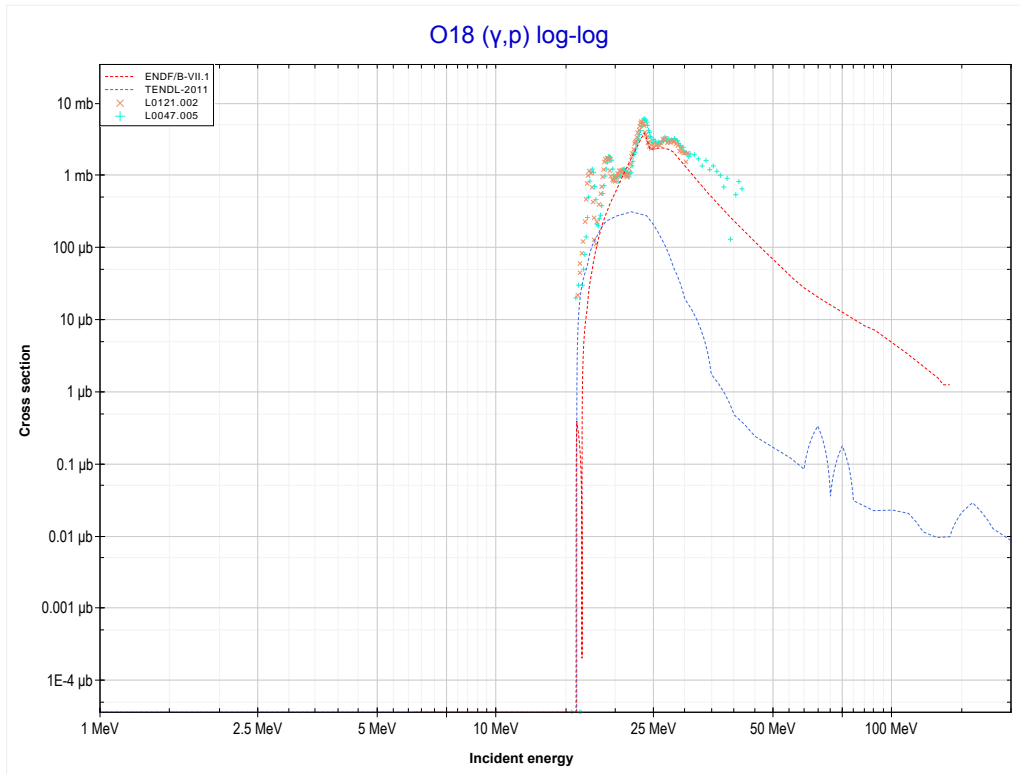
Reaction	Q-Value
O18(γ,d)N16	-19600.92 keV
O18($\gamma,n+p$)N16	-21825.49 keV

<< 8-O-17	8-O-18	9-F-19 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (N15 production)	MT103 (γ, p) >>



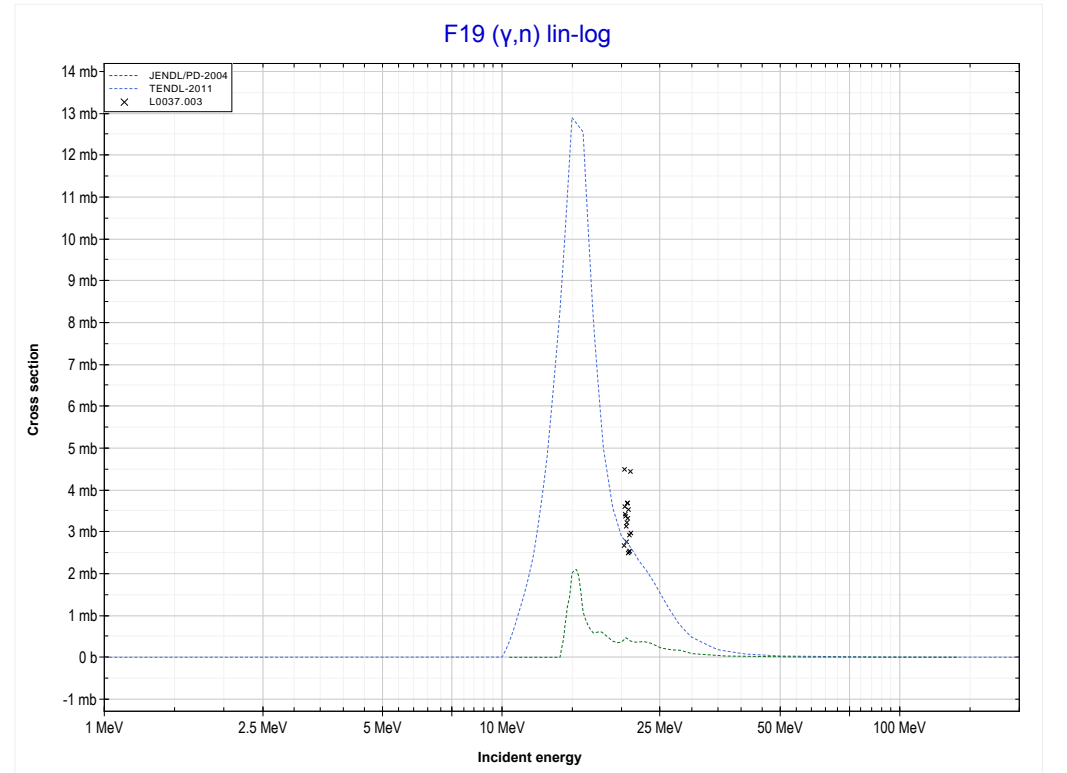
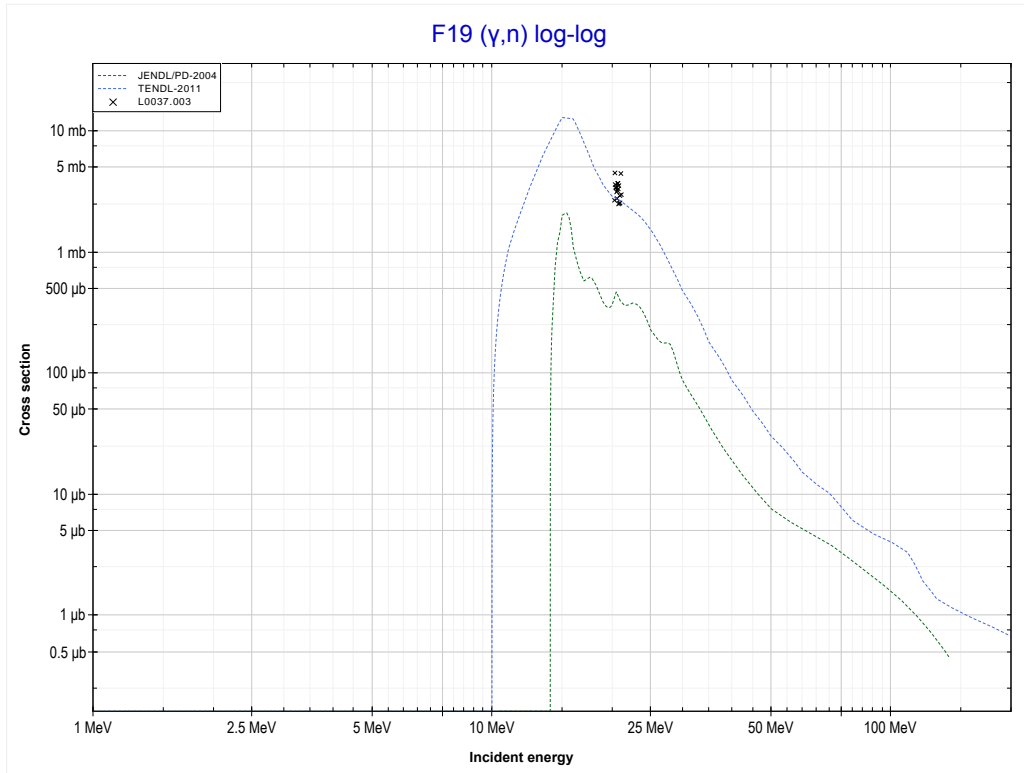
Reaction	Q-Value
O18(γ, t)N15	-15832.74 keV
O18($\gamma, n+d$)N15	-22089.98 keV
O18($\gamma, 2n+p$)N15	-24314.54 keV

<< 8-O-16	8-O-18	10-Ne-20 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (N17 production)	MT4 (γ, n) >>



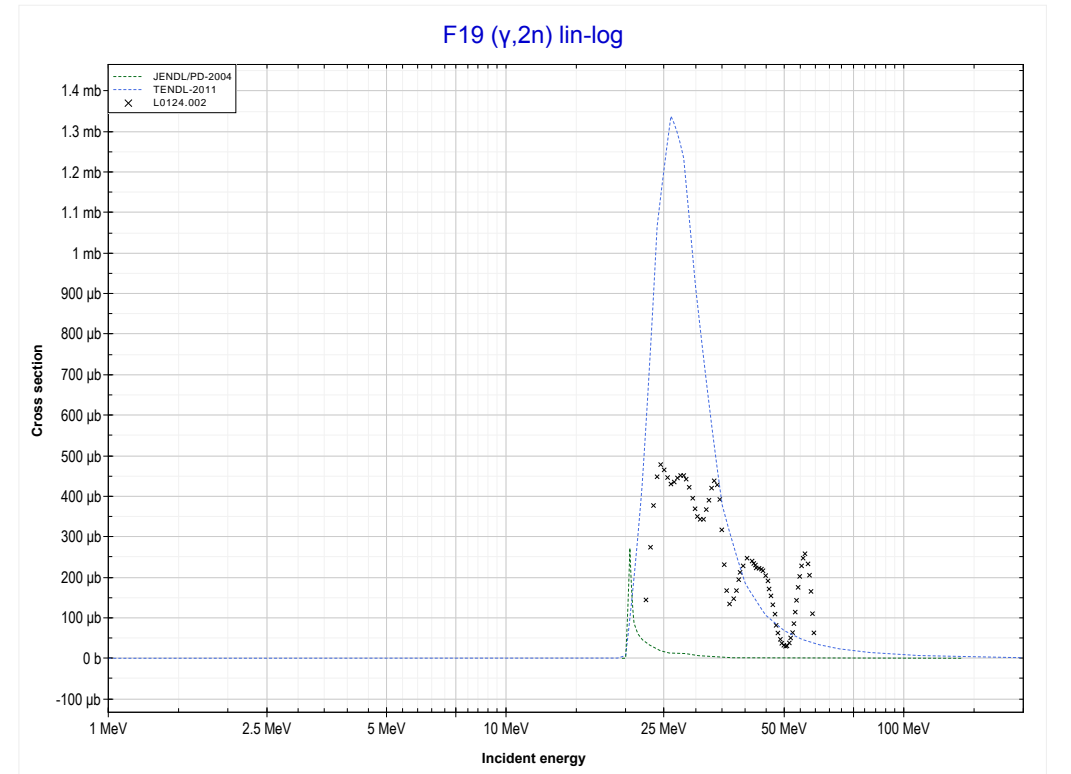
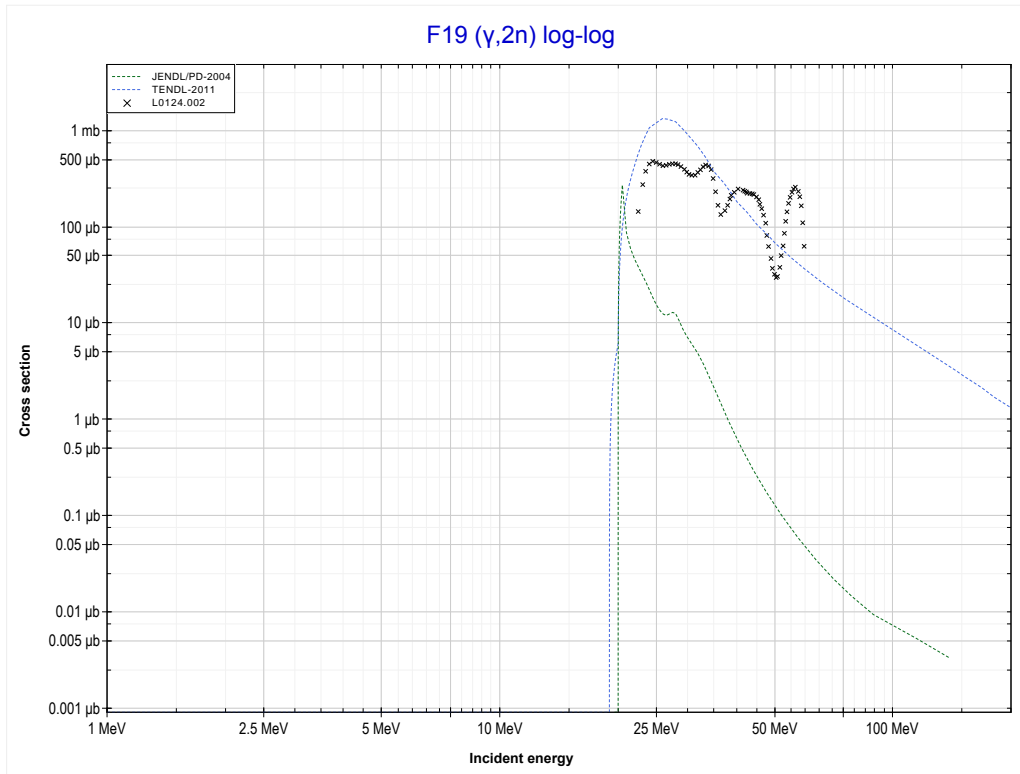
Reaction	Q-Value
O18(γ, p)N17	-15941.47 keV

<< 8-O-18	9-F-19	10-Ne-20 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (F18 production)	MT16 (γ,2n) >>



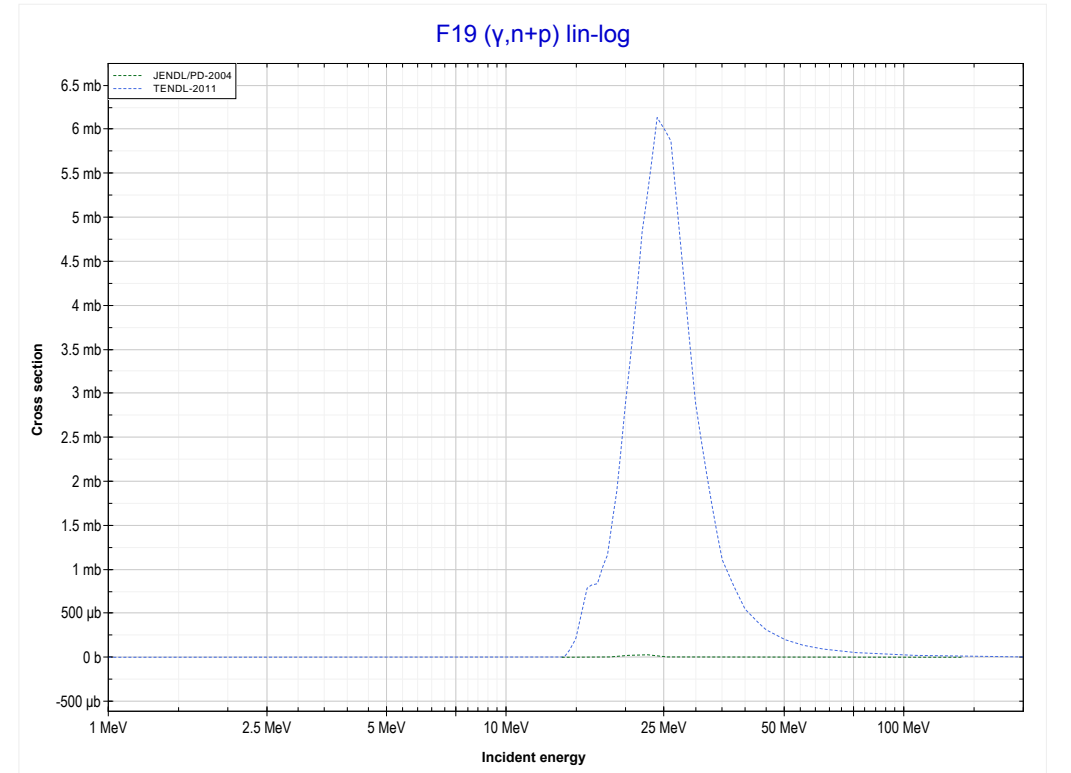
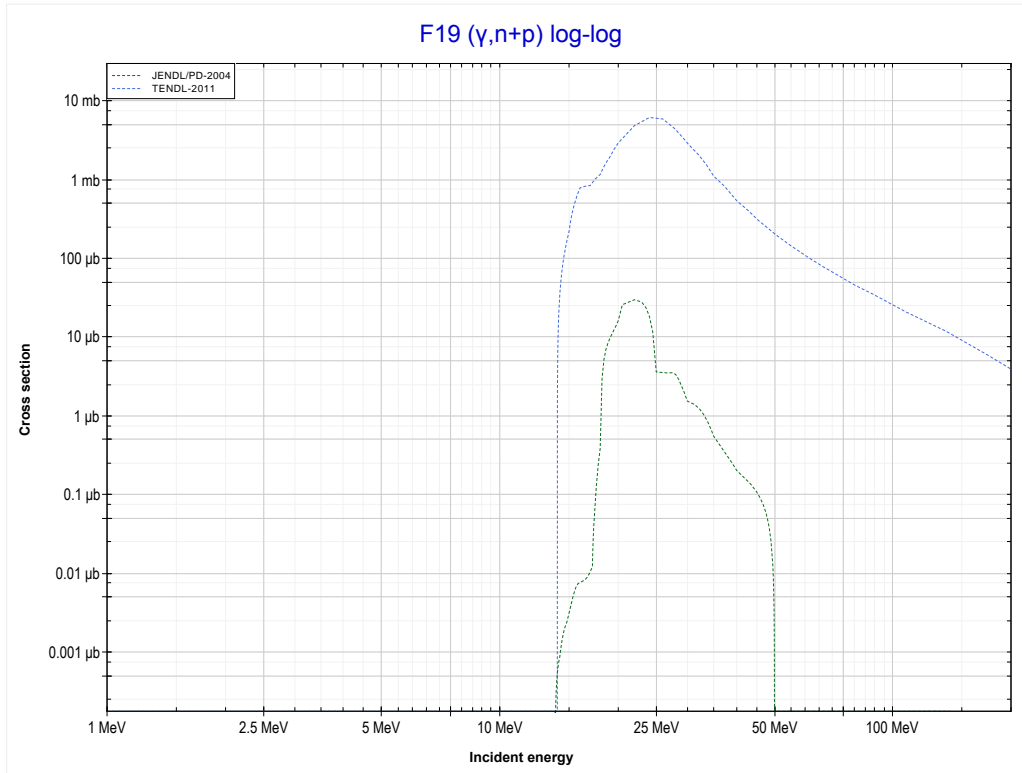
Reaction	Q-Value
F19(γ,n)F18	-10432.41 keV

<< 8-O-18	9-F-19	11-Na-23 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (F17 production)	MT28 ($\gamma,n+p$) >>



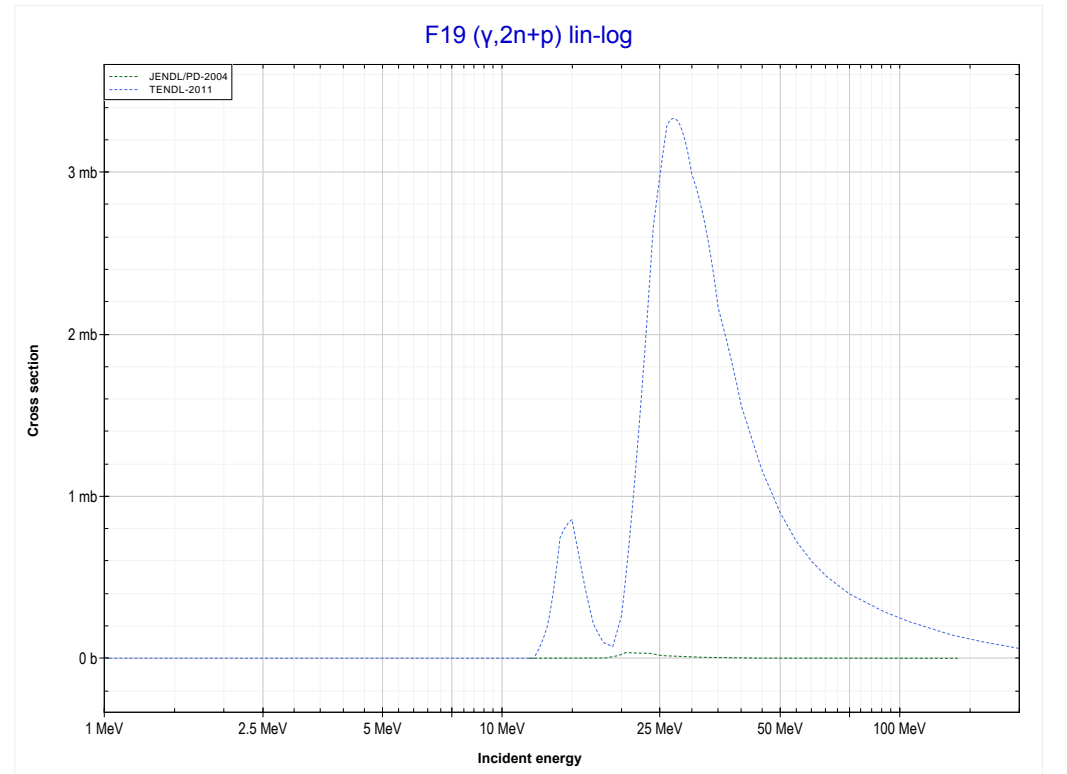
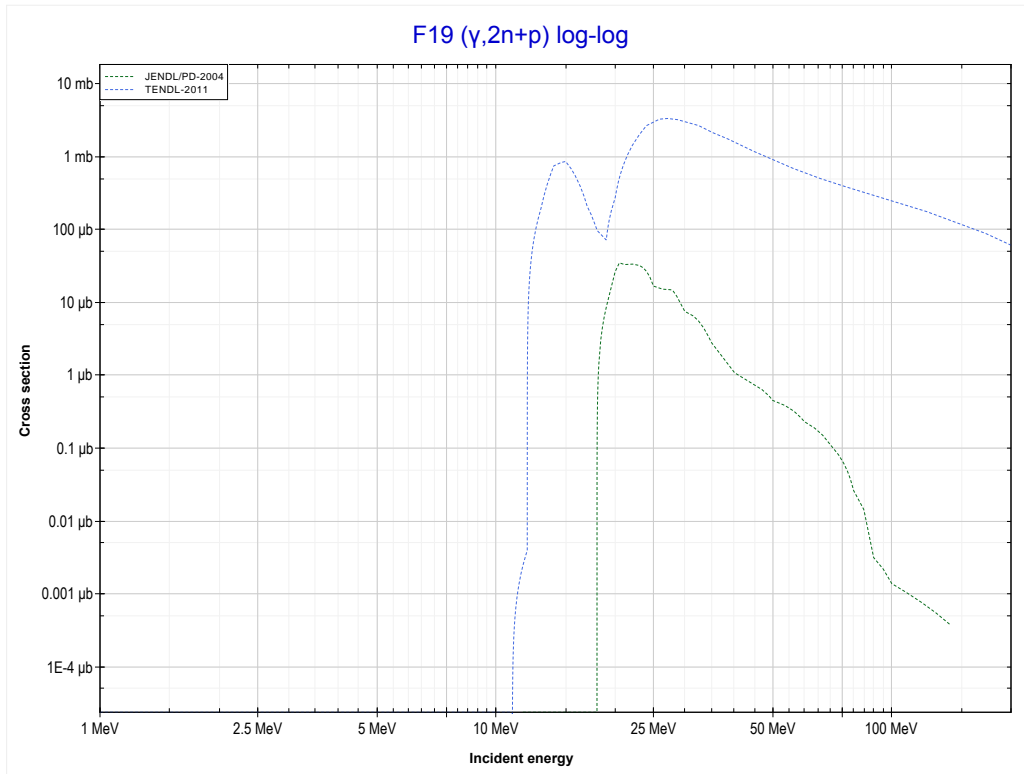
Reaction	Q-Value
F19($\gamma,2n$)F17	-19581.72 keV

<< 8-O-18	9-F-19	10-Ne-20 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (O17 production)	MT41 ($\gamma,2n+p$) >>



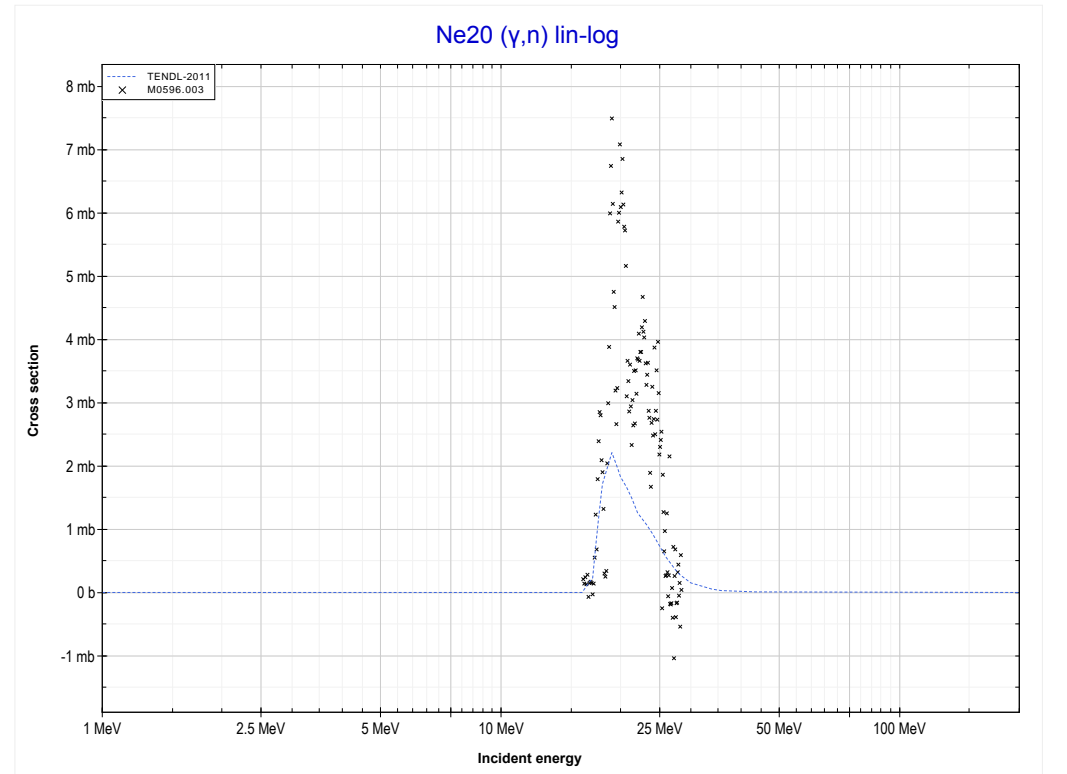
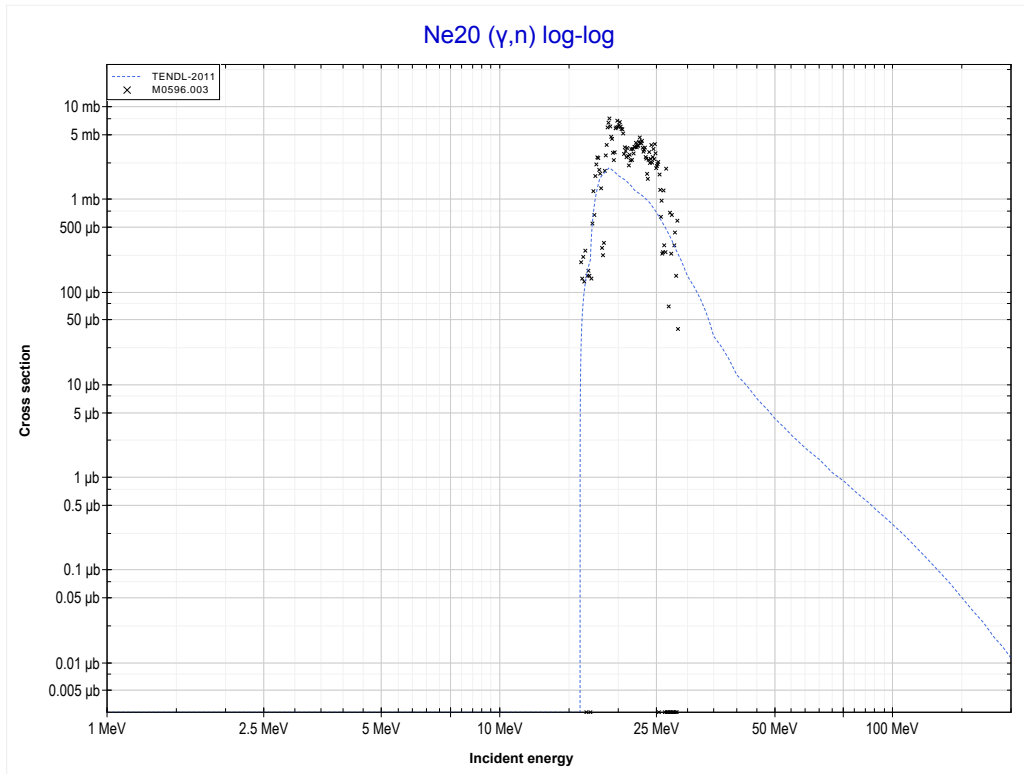
Reaction	Q-Value
F19(γ,d)O17	-13814.30 keV
F19($\gamma,n+p$)O17	-16038.87 keV

<< 8-O-18	9-F-19	11-Na-23 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (O16 production)	MT4 (γ, n) >>



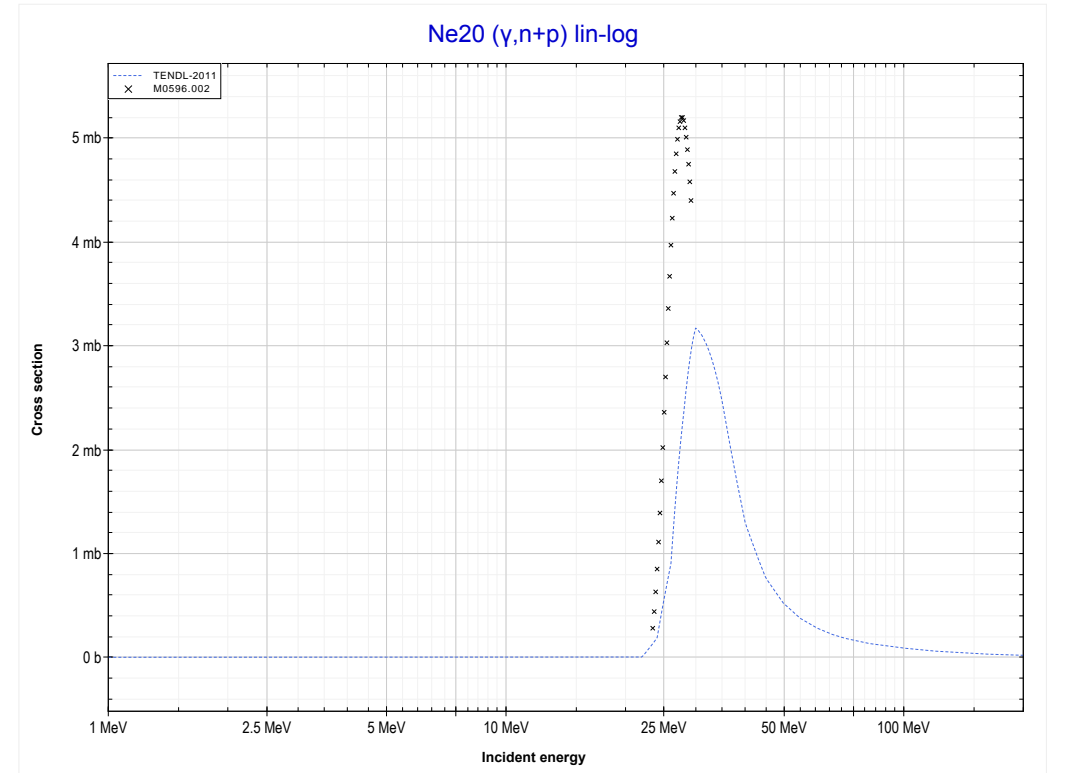
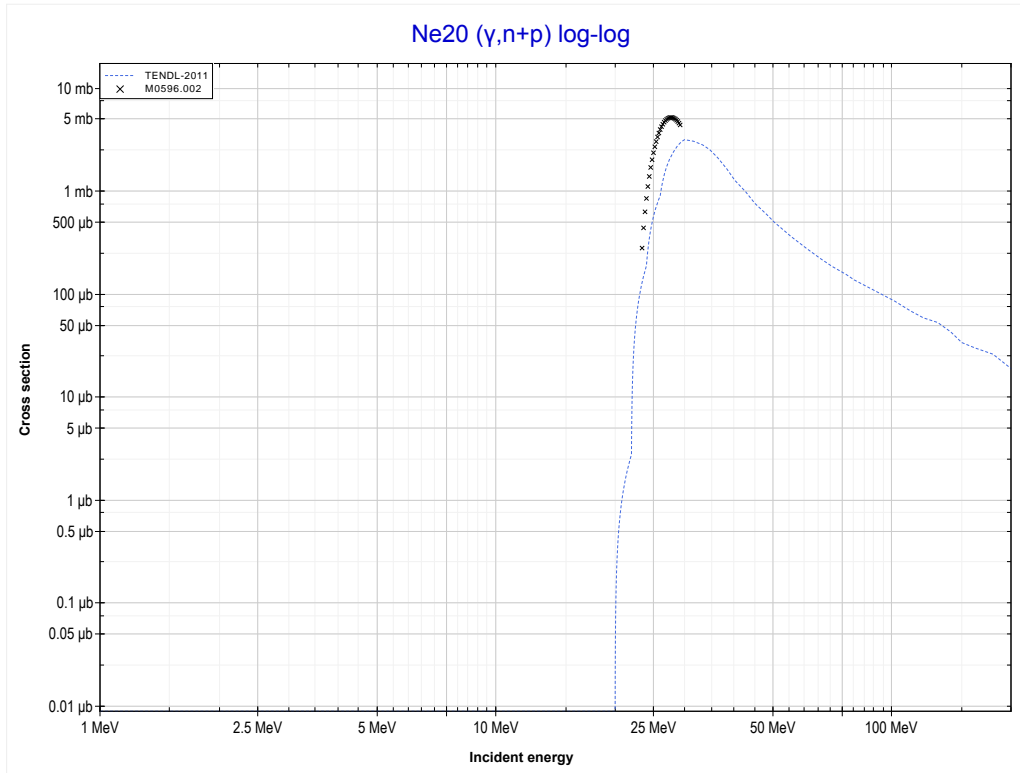
Reaction	Q-Value
F19(γ, t)O16	-11700.19 keV
F19($\gamma, n+d$)O16	-17957.43 keV
F19($\gamma, 2n+p$)O16	-20181.99 keV

<< 9-F-19	10-Ne-20	10-Ne-22 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Ne19 production)	MT28 ($\gamma,n+p$) >>



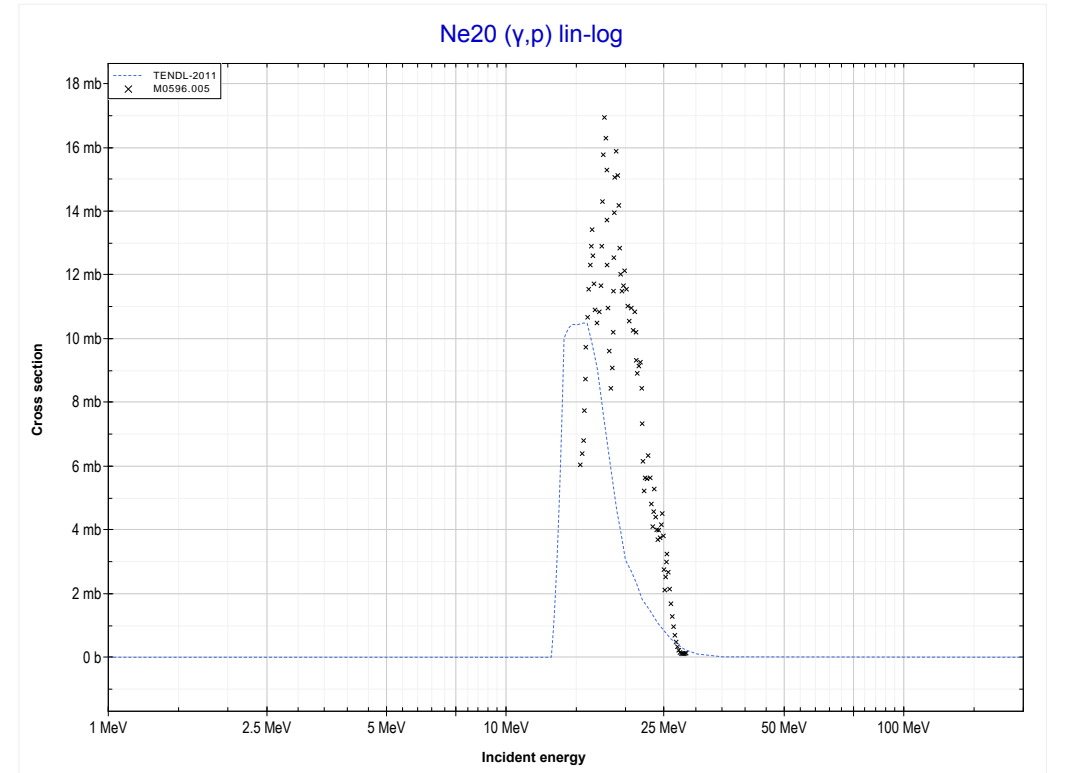
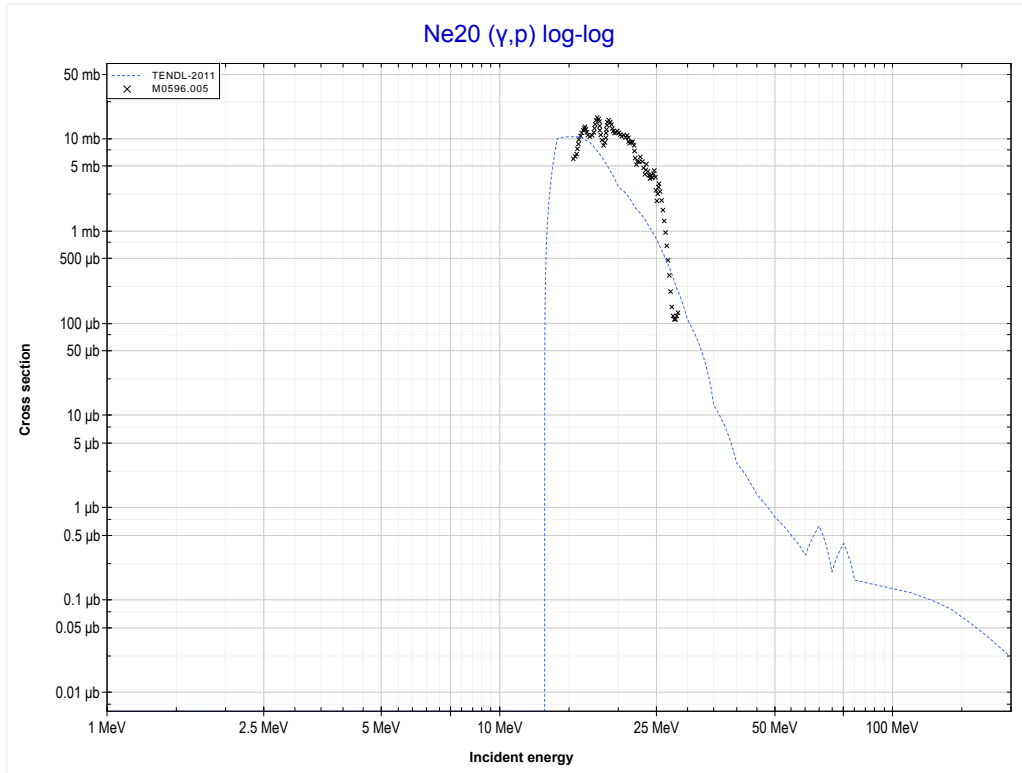
Reaction	Q-Value
Ne20(γ,n)Ne19	-16864.69 keV

<< 9-F-19	10-Ne-20	11-Na-23 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (F18 production)	MT103 (γ,p) >>



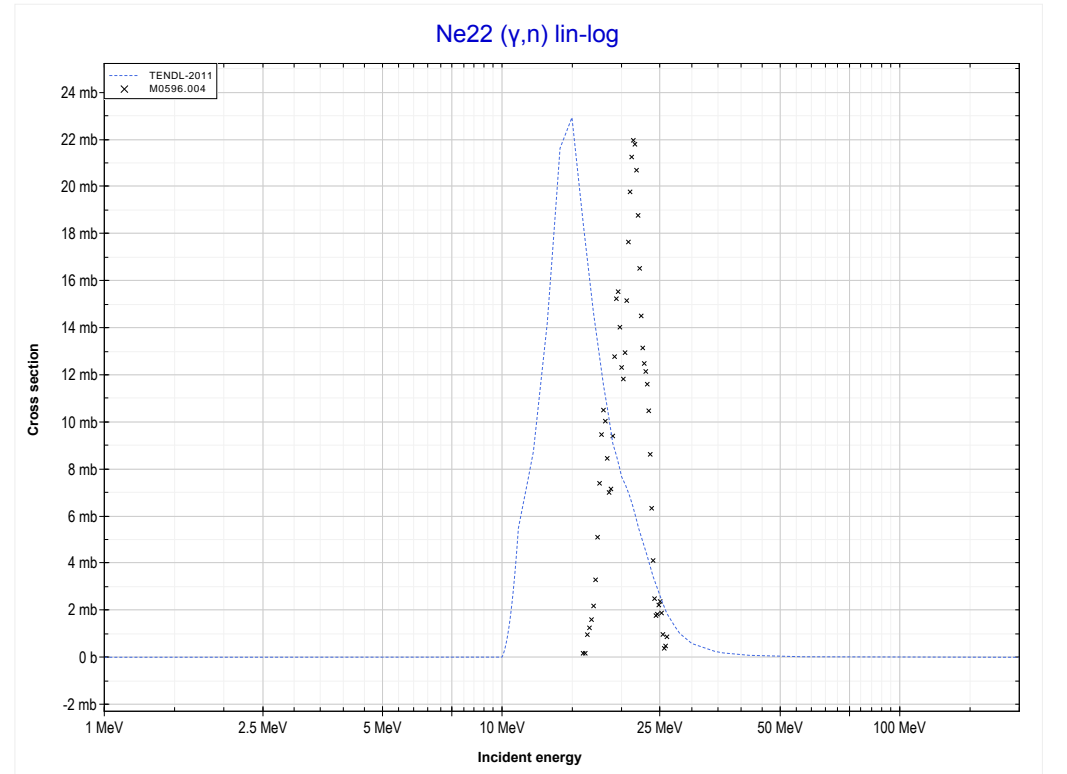
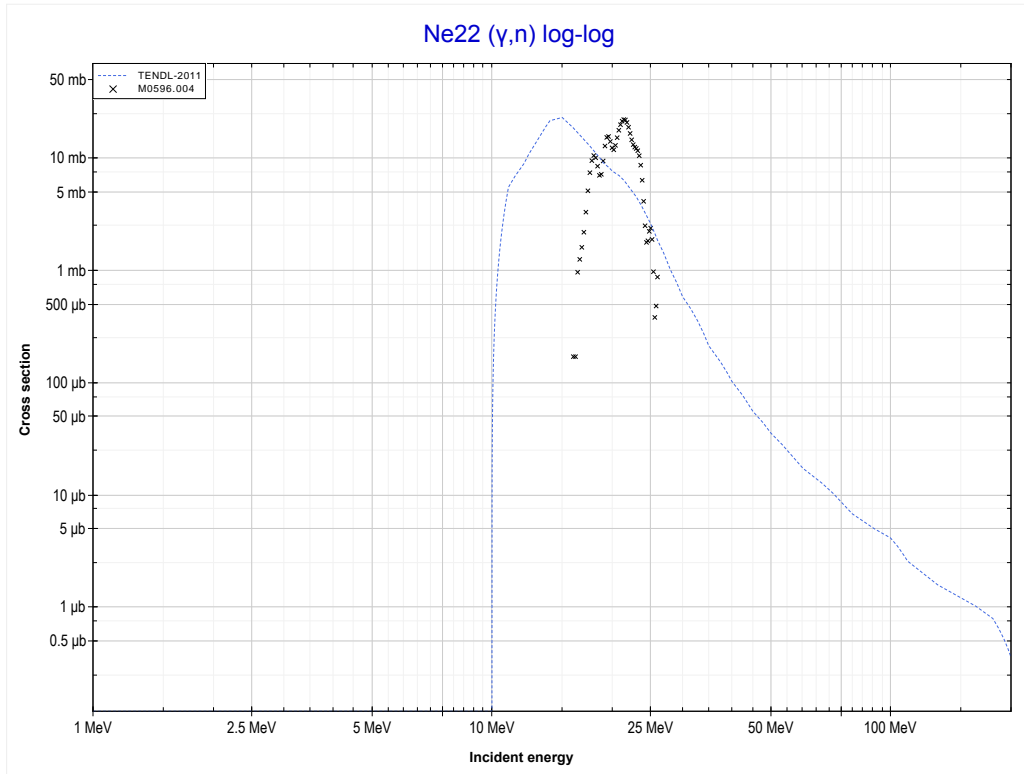
Reaction	Q-Value
Ne20(γ,d)F18	-21051.35 keV
Ne20($\gamma,n+p$)F18	-23275.92 keV

<< 8-O-18	10-Ne-20	10-Ne-22 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (F19 production)	MT4 (γ, n) >>



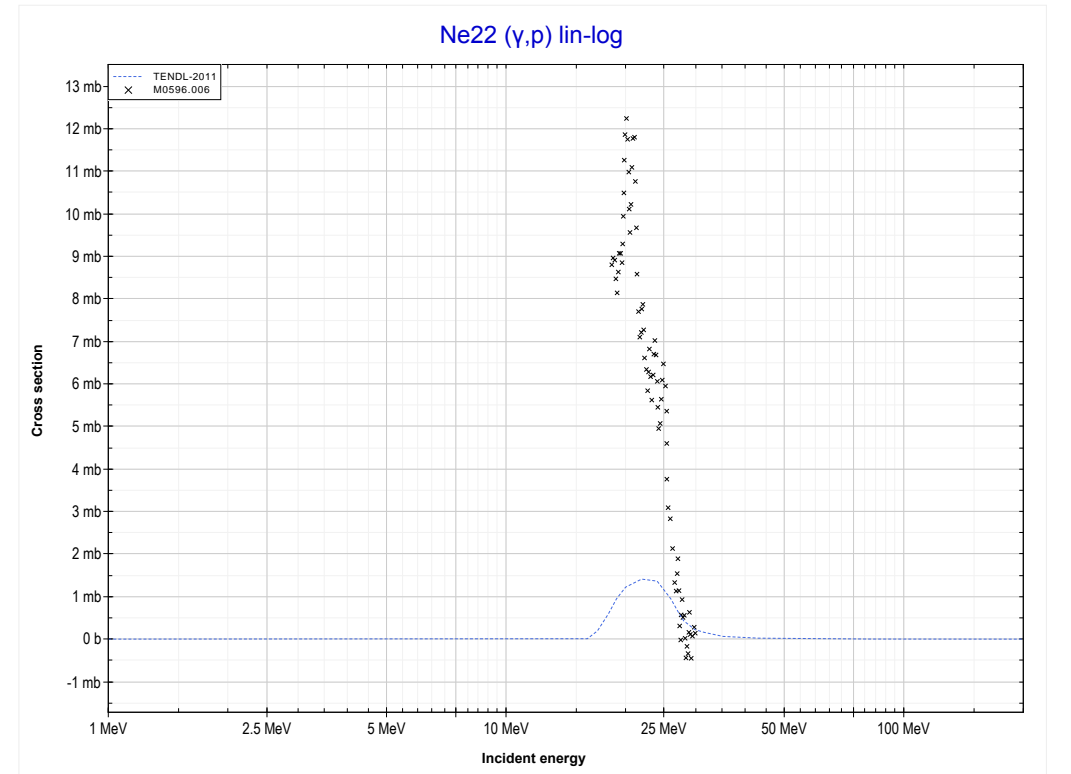
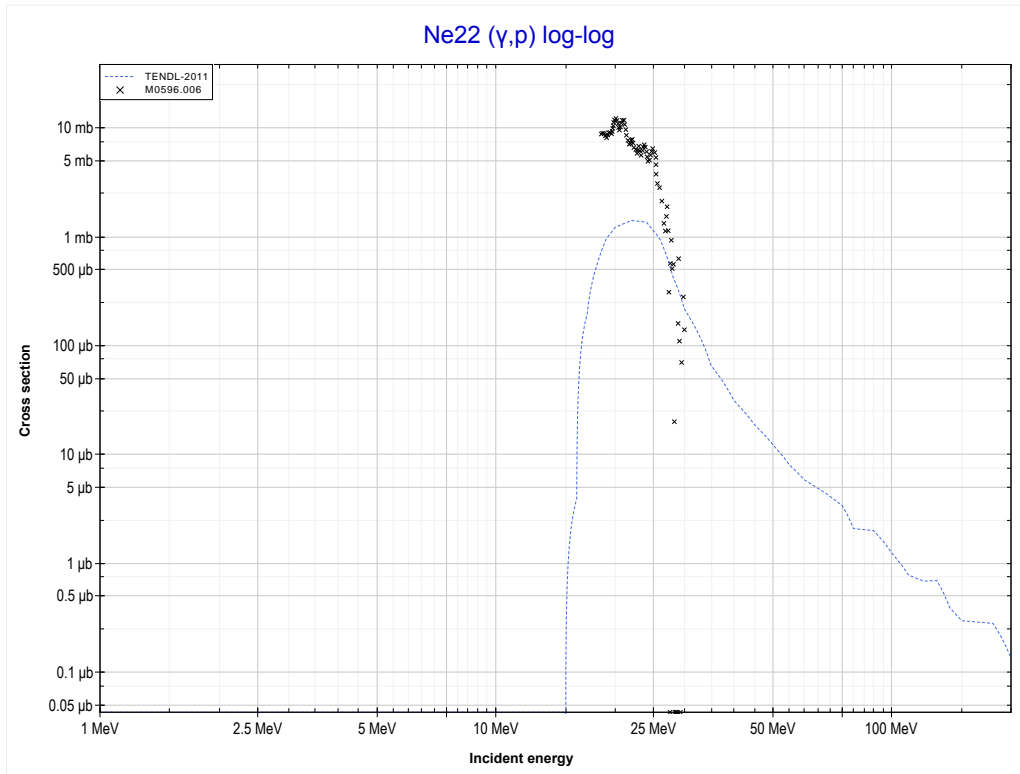
Reaction	Q-Value
Ne20(γ, p)F19	-12843.51 keV

<< 10-Ne-20	10-Ne-22	11-Na-23 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Ne21 production)	MT103 (γ,p) >>



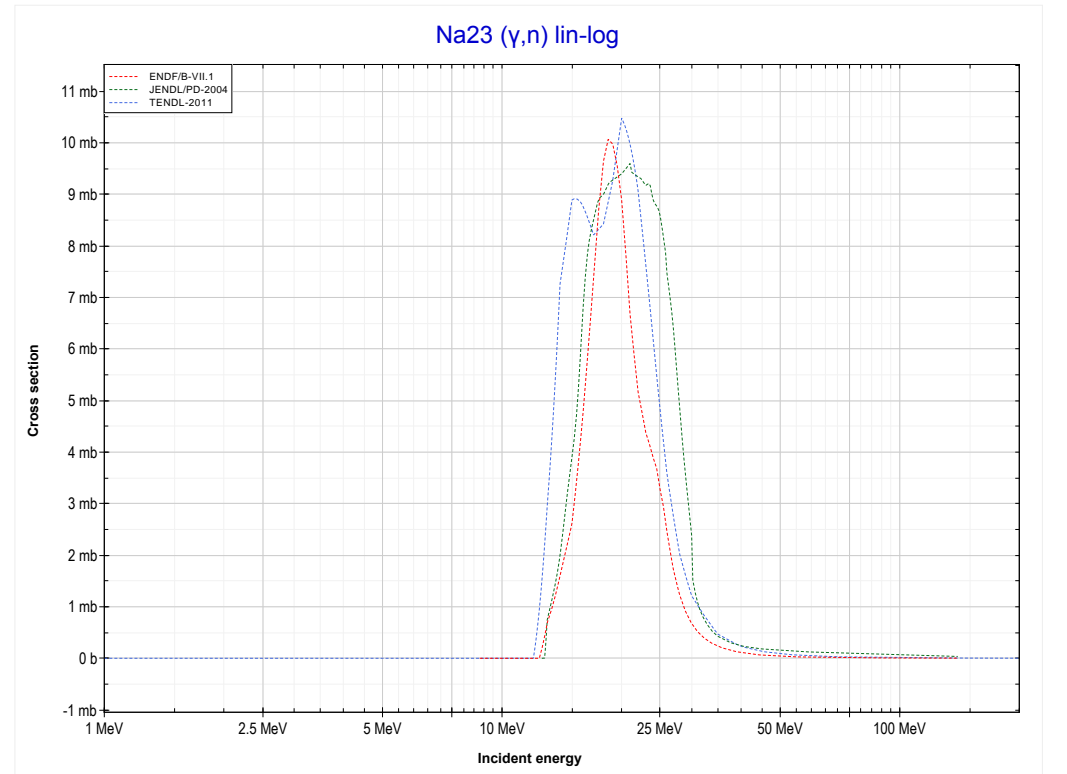
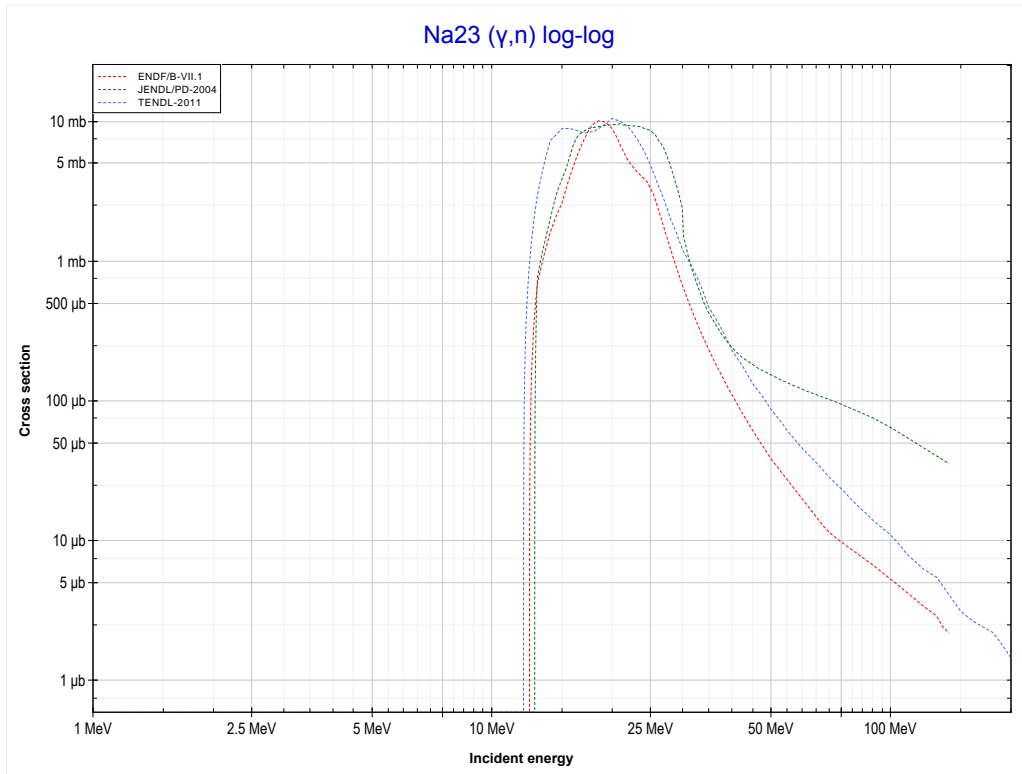
Reaction	Q-Value
Ne22(γ,n)Ne21	-10364.25 keV

<< 10-Ne-20	10-Ne-22	13-Al-27 >>
<< MT4 (γ,n)	MT103 (γ,p) or MT5 (F21 production)	MT4 (γ,n) >>



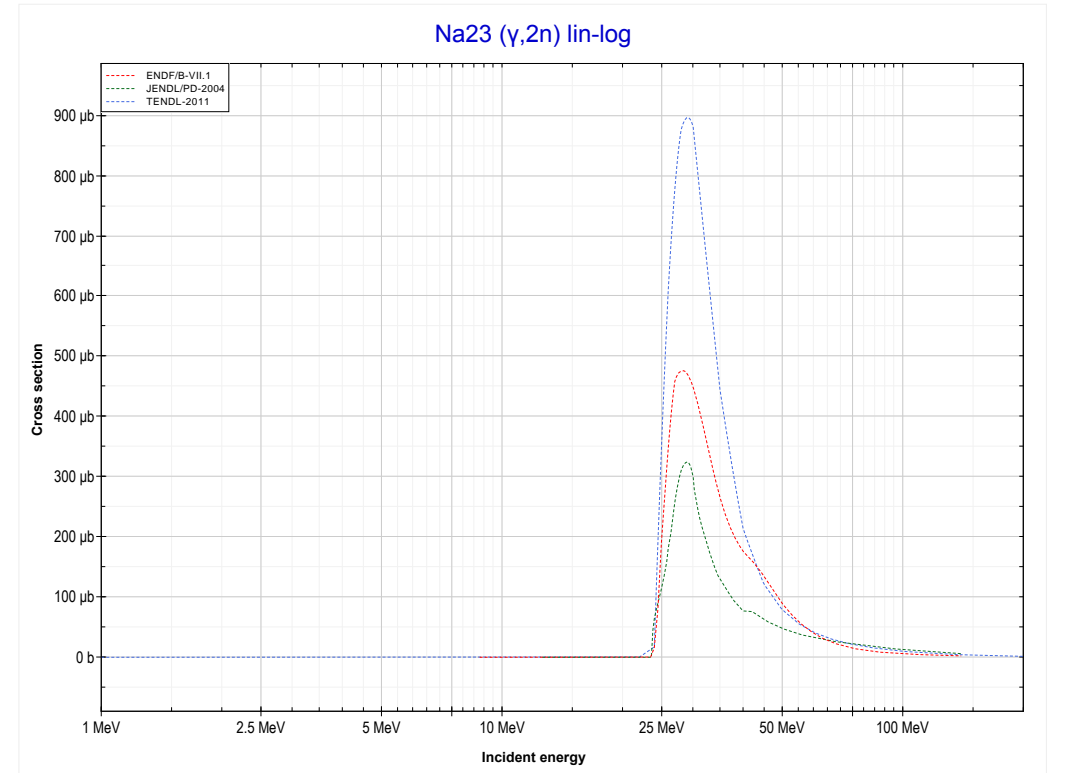
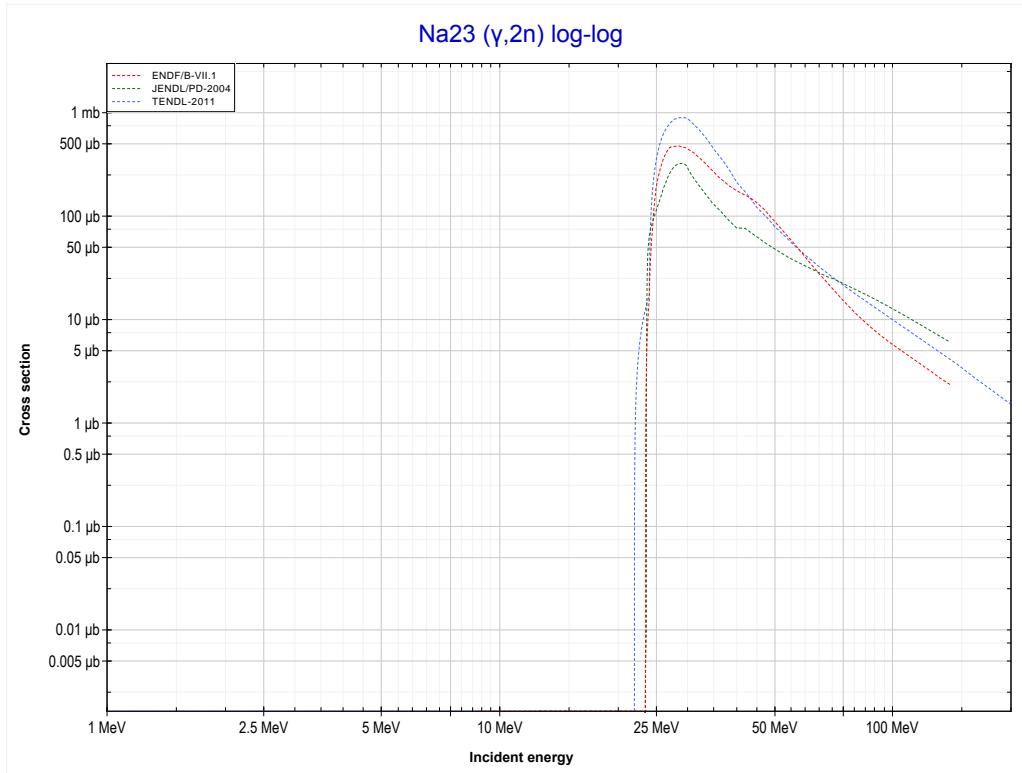
Reaction	Q-Value
Ne22(γ,p)F21	-15266.09 keV

<< 10-Ne-22	11-Na-23	12-Mg-24 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Na22 production)	MT16 ($\gamma,2n$) >>



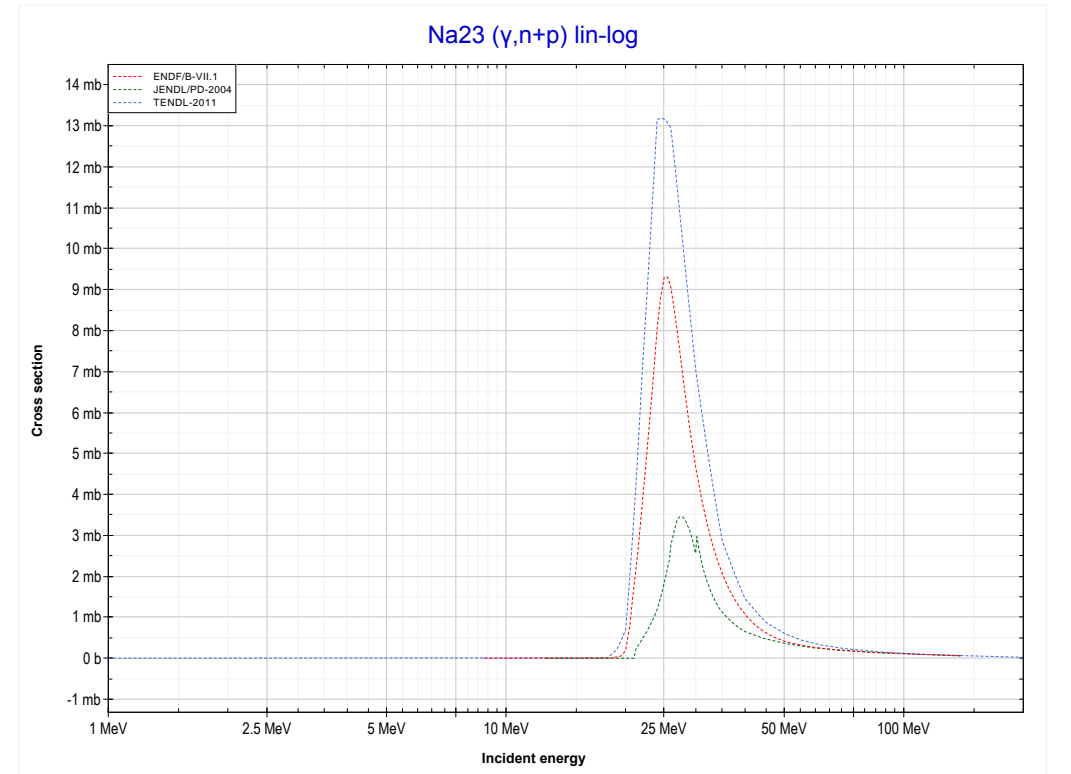
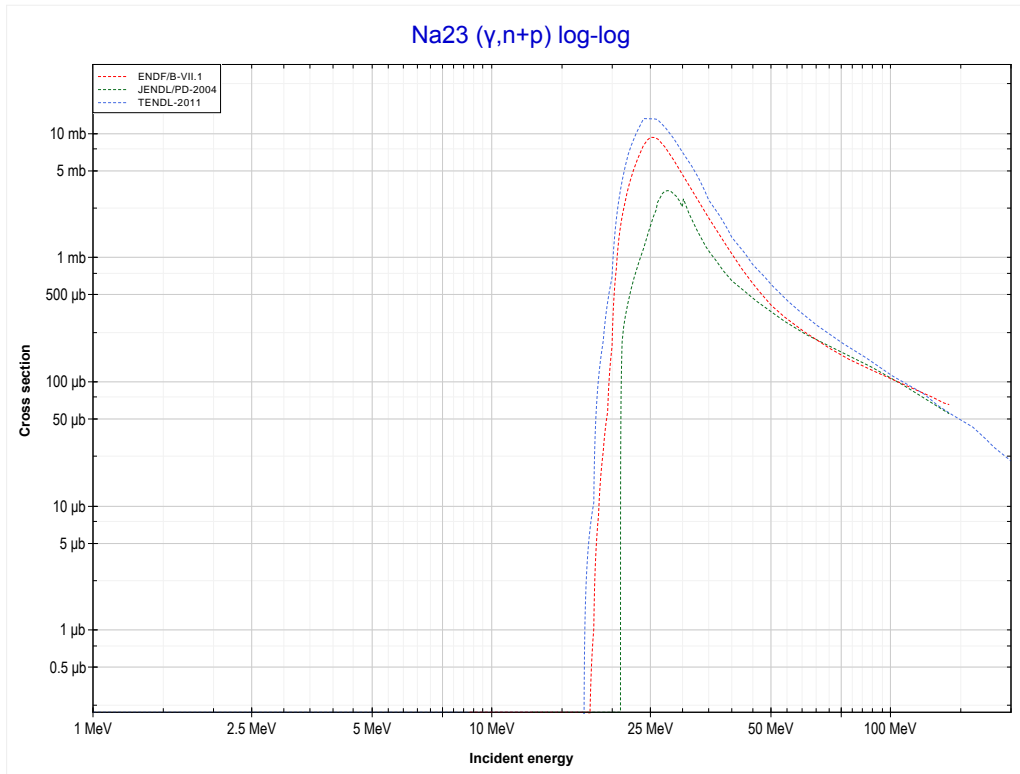
Reaction	Q-Value
Na23(γ,n)Na22	-12418.77 keV

<< 9-F-19	11-Na-23	12-Mg-25 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Na21 production)	MT28 ($\gamma, n+p$) >>



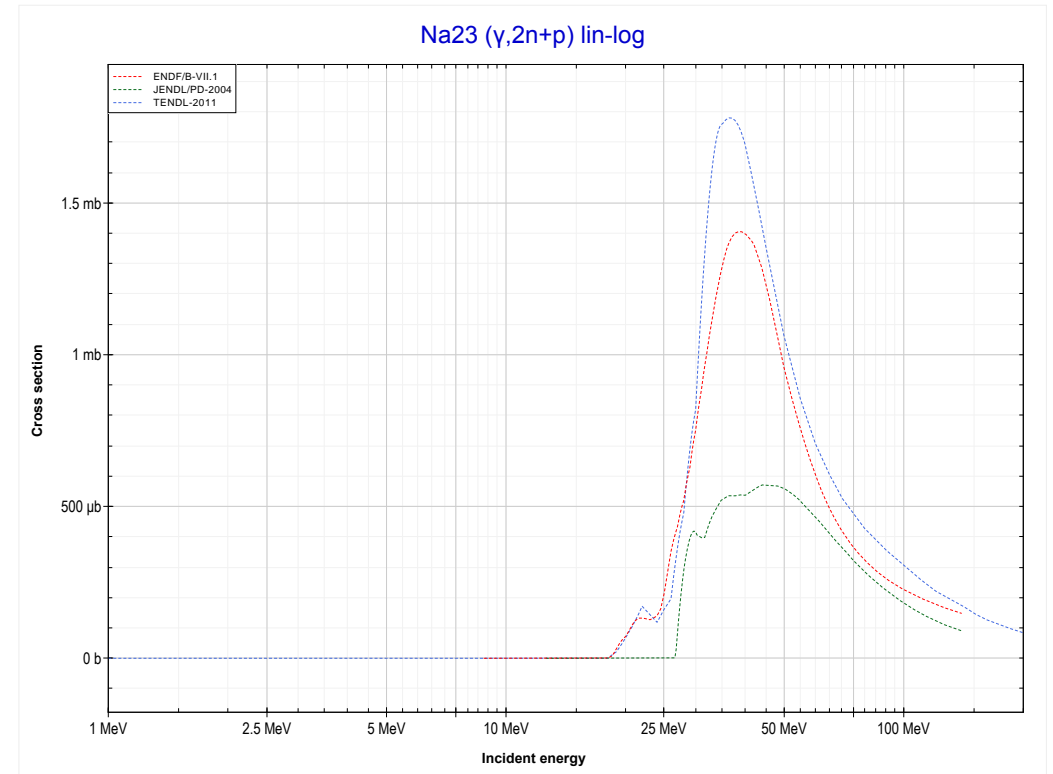
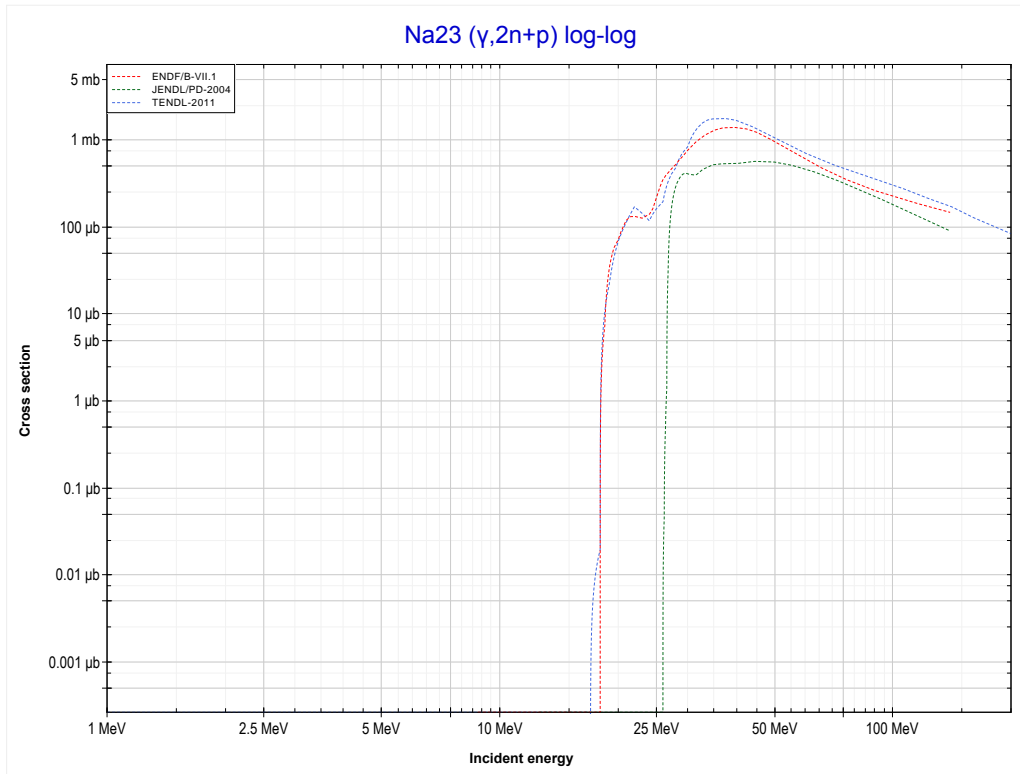
Reaction	Q-Value
Na23($\gamma, 2n$)Na21	-23488.29 keV

<< 10-Ne-20	11-Na-23	12-Mg-24 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ne21 production)	MT41 ($\gamma,2n+p$) >>



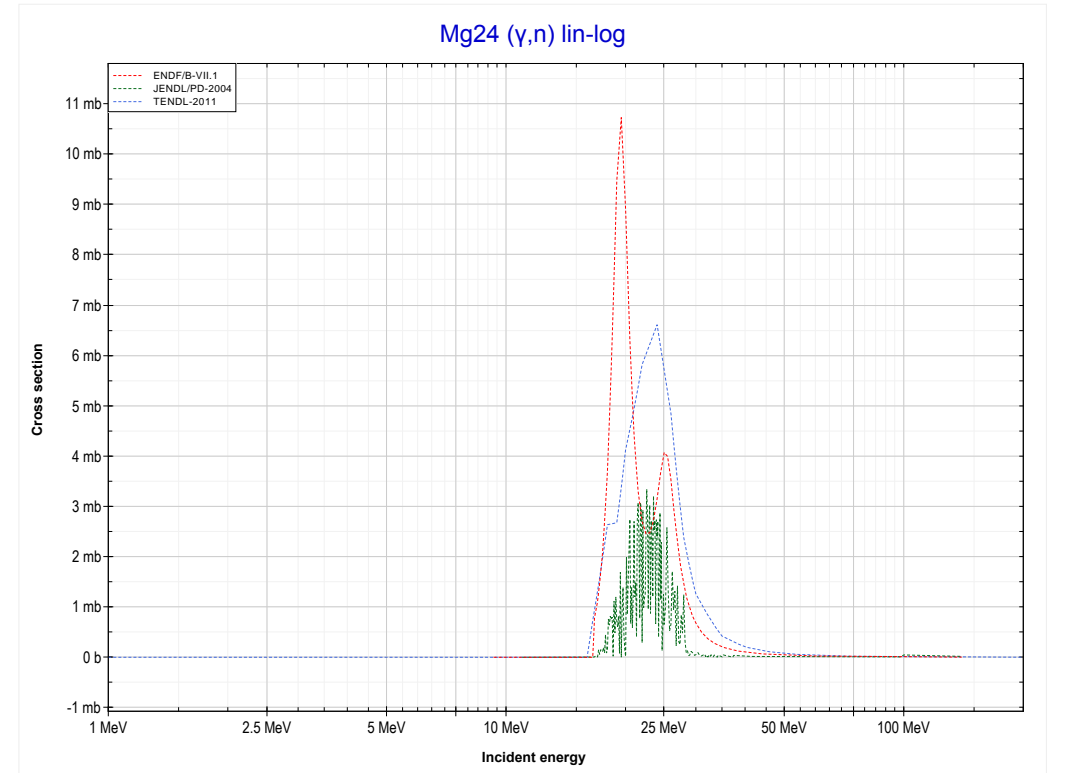
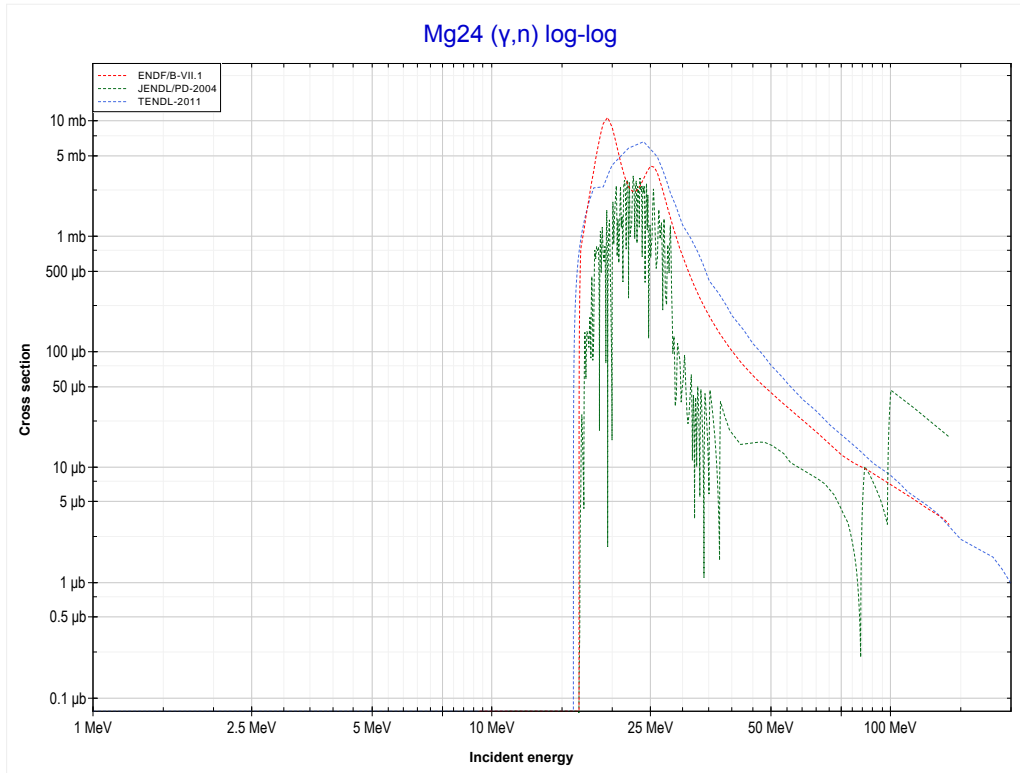
Reaction	Q-Value
Na23(γ,d)Ne21	-16933.80 keV
Na23($\gamma,n+p$)Ne21	-19158.36 keV

<< 9-F-19	11-Na-23	12-Mg-25 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ne20 production)	MT4 (γ, n) >>



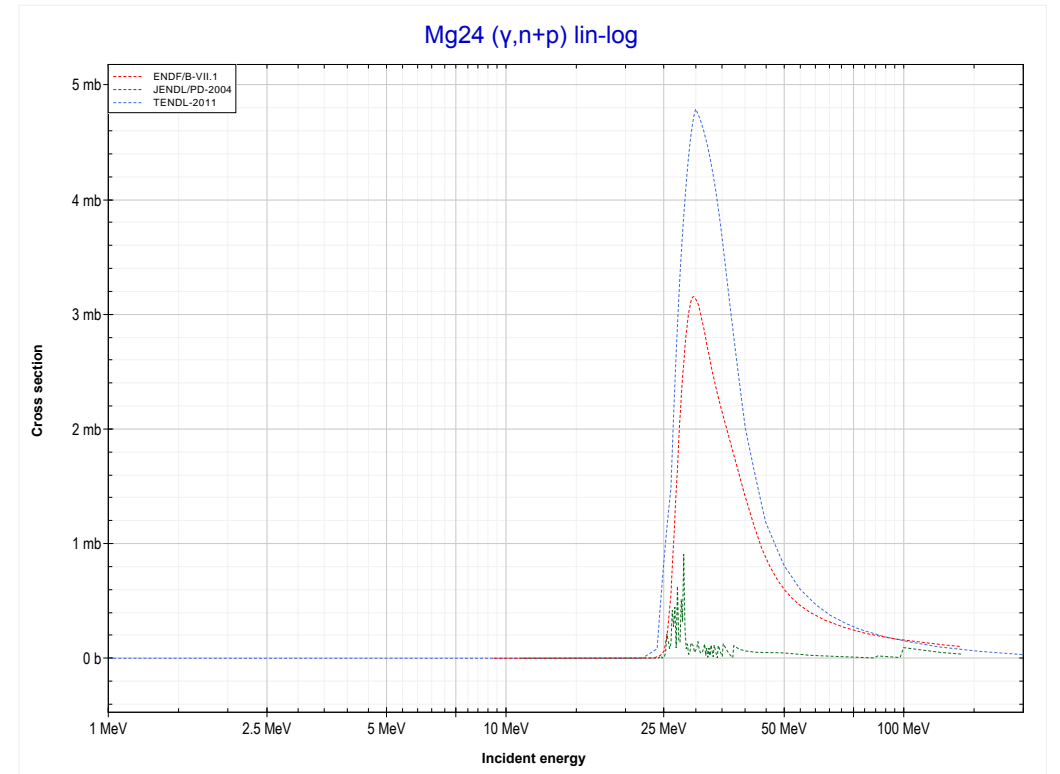
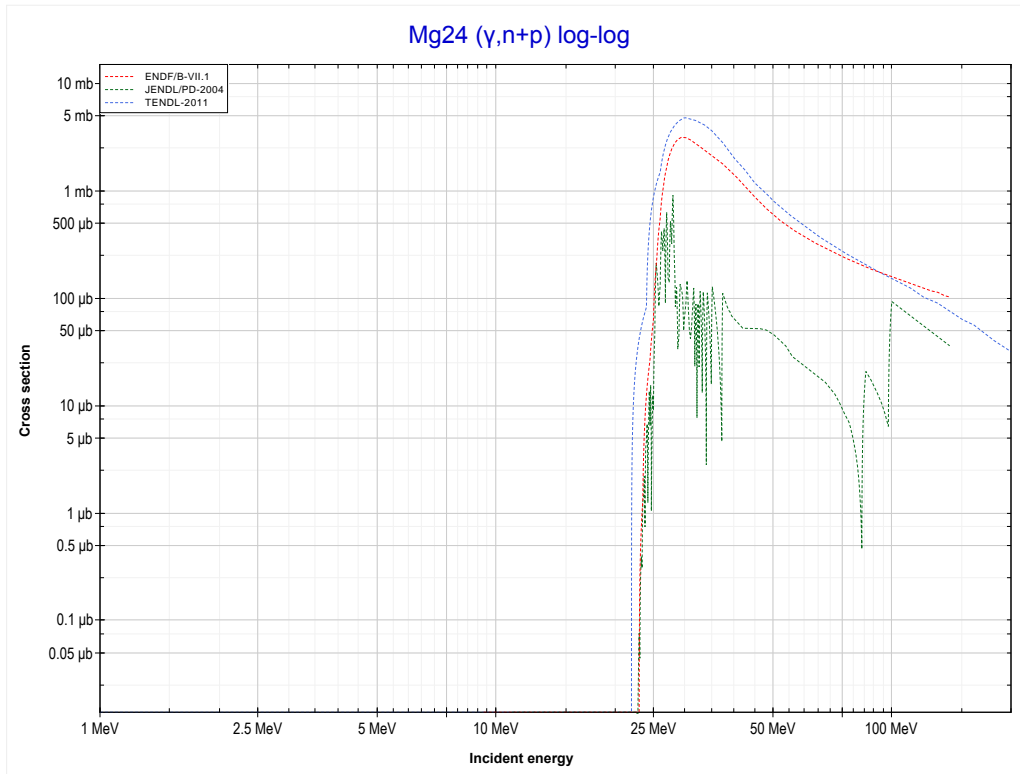
Reaction	Q-Value
Na23(γ, t)Ne20	-17437.73 keV
Na23($\gamma, n+d$)Ne20	-23694.96 keV
Na23($\gamma, 2n+p$)Ne20	-25919.53 keV

<< 11-Na-23	12-Mg-24	12-Mg-25 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Mg23 production)	MT28 ($\gamma,n+p$) >>



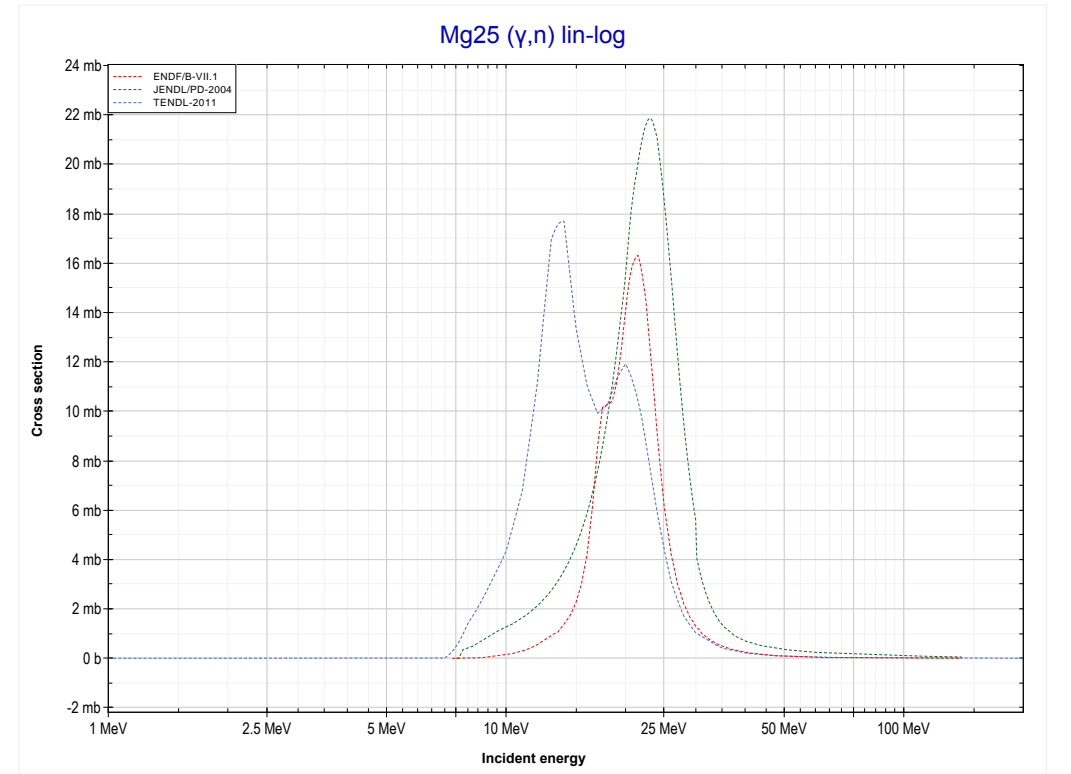
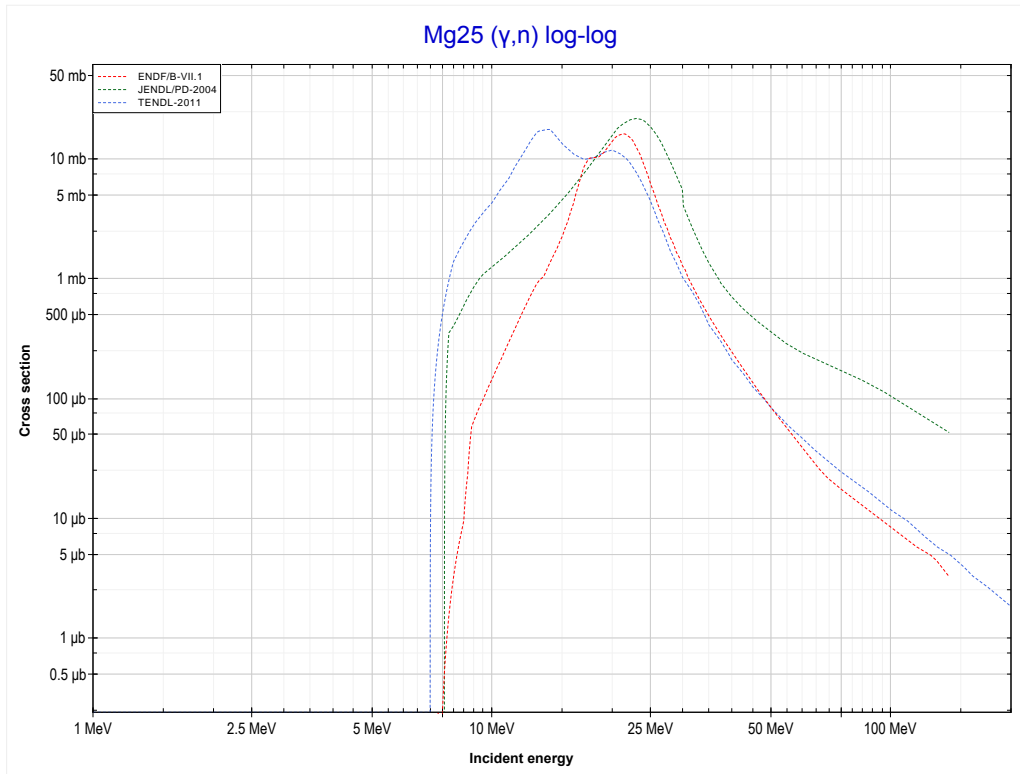
Reaction	Q-Value
Mg24(γ,n)Mg23	-16531.08 keV

<< 11-Na-23	12-Mg-24	12-Mg-25 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (Na22 production)	MT4 (γ,n) >>



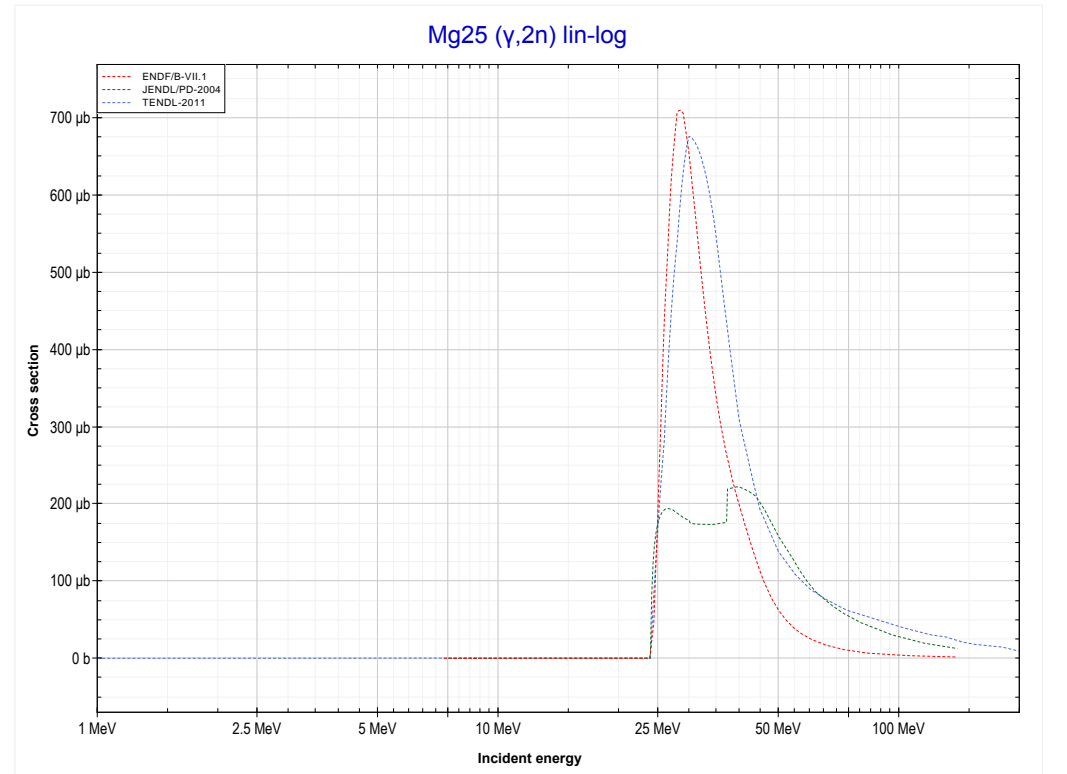
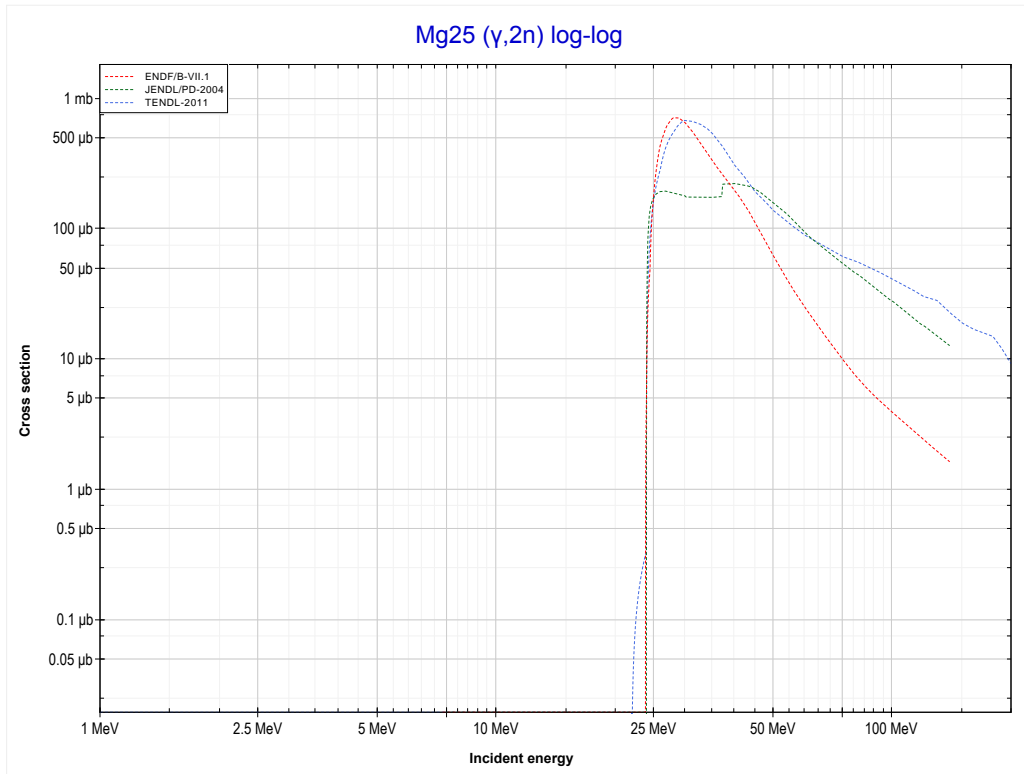
Reaction	Q-Value
Mg24(γ,d)Na22	-21886.89 keV
Mg24($\gamma,n+p$)Na22	-24111.45 keV

<< 12-Mg-24	12-Mg-25	12-Mg-26 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Mg24 production)	MT16 ($\gamma, 2n$) >>



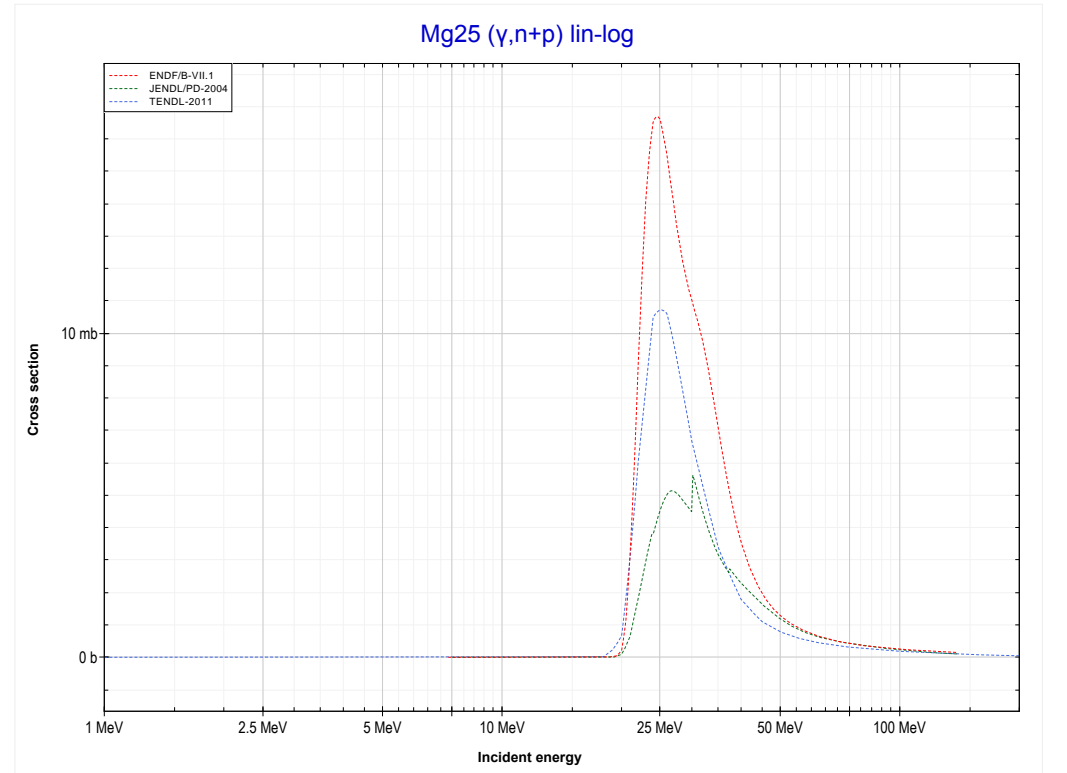
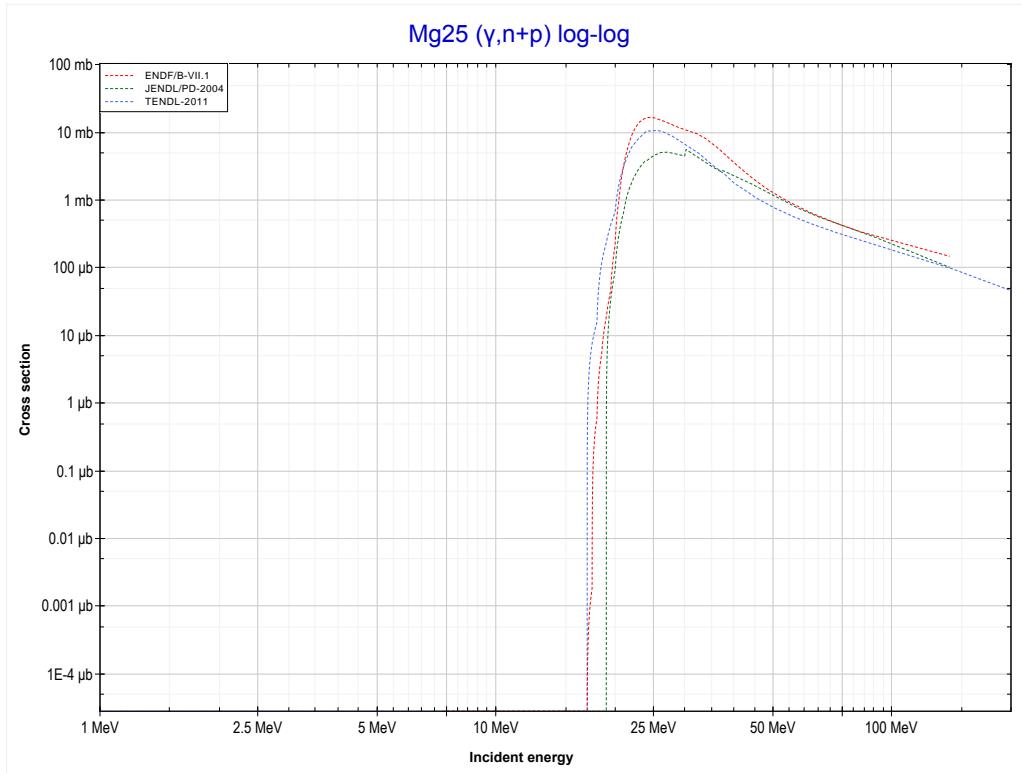
Reaction	Q-Value
Mg25(γ, n)Mg24	-7330.58 keV

<< 11-Na-23	12-Mg-25	12-Mg-26 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Mg23 production)	MT28 ($\gamma, n+p$) >>



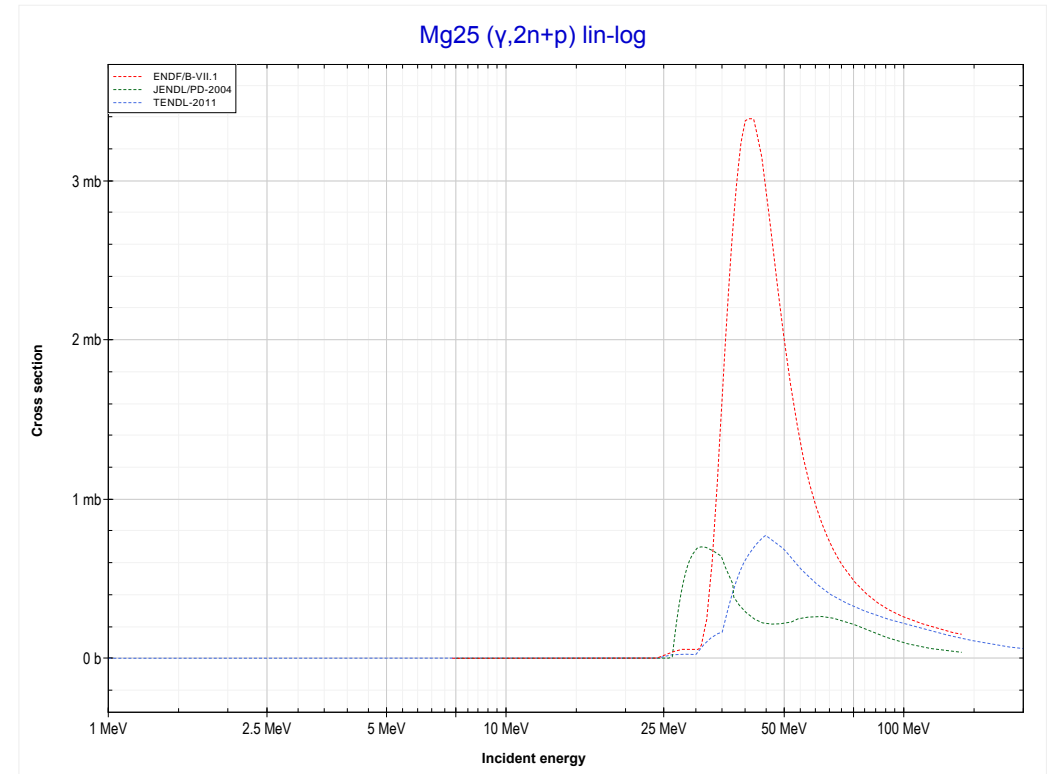
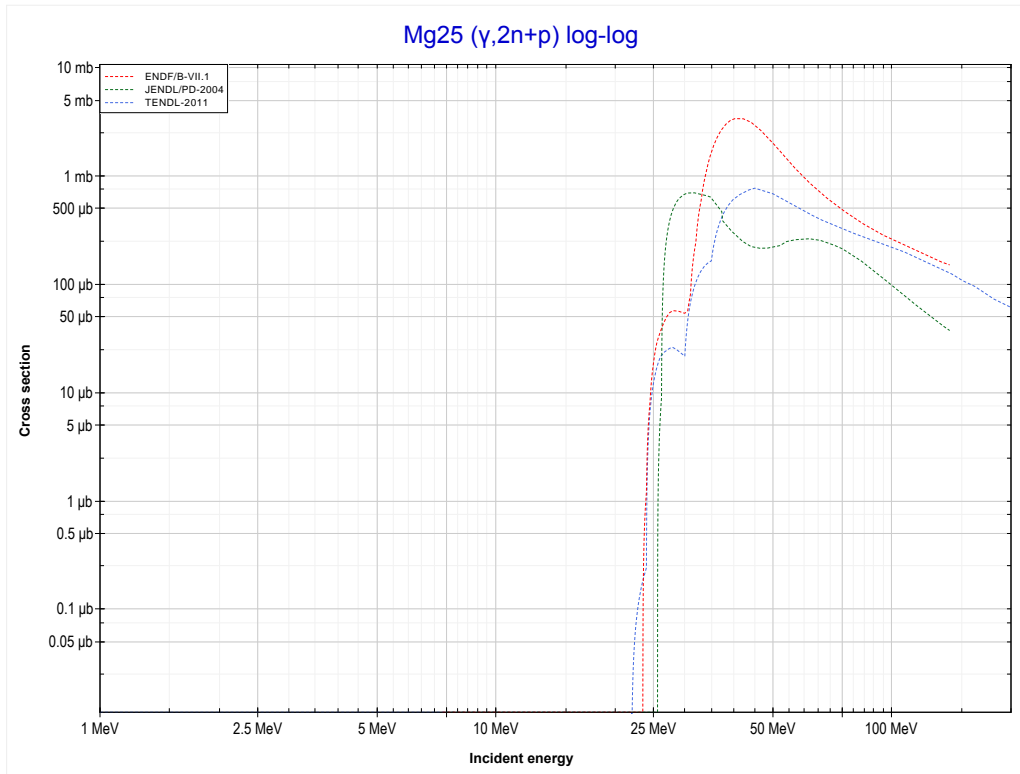
Reaction	Q-Value
Mg25($\gamma, 2n$)Mg23	-23861.66 keV

<< 12-Mg-24	12-Mg-25	12-Mg-26 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Na23 production)	MT41 ($\gamma,2n+p$) >>



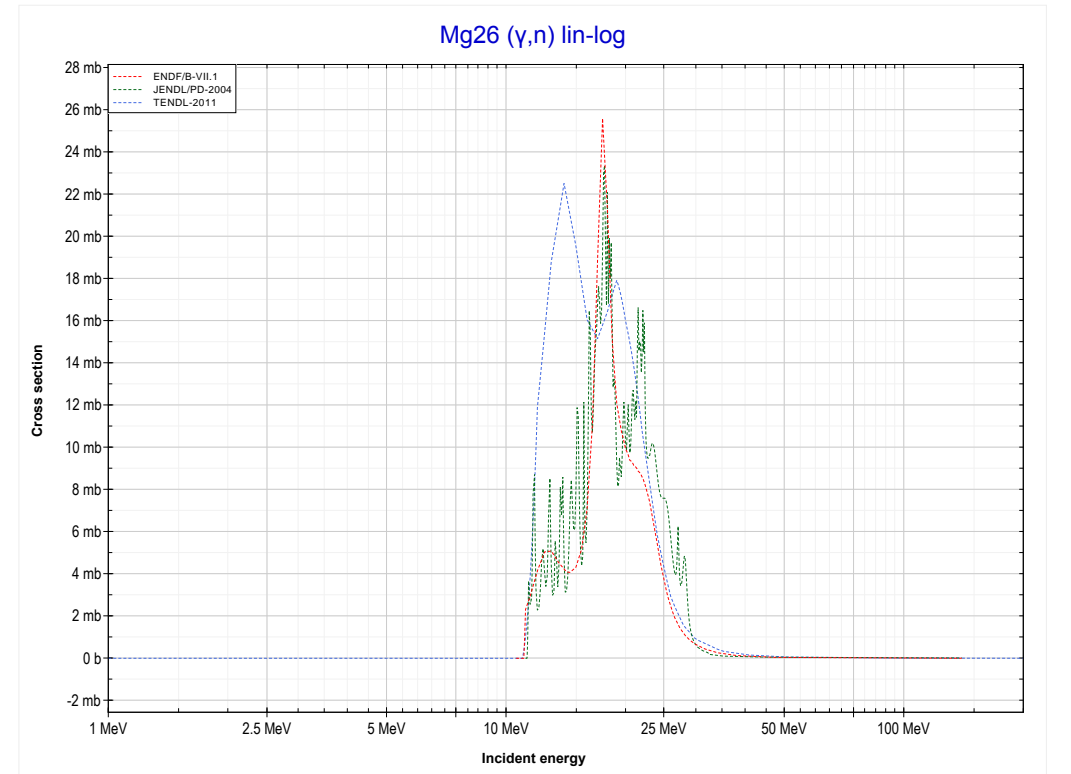
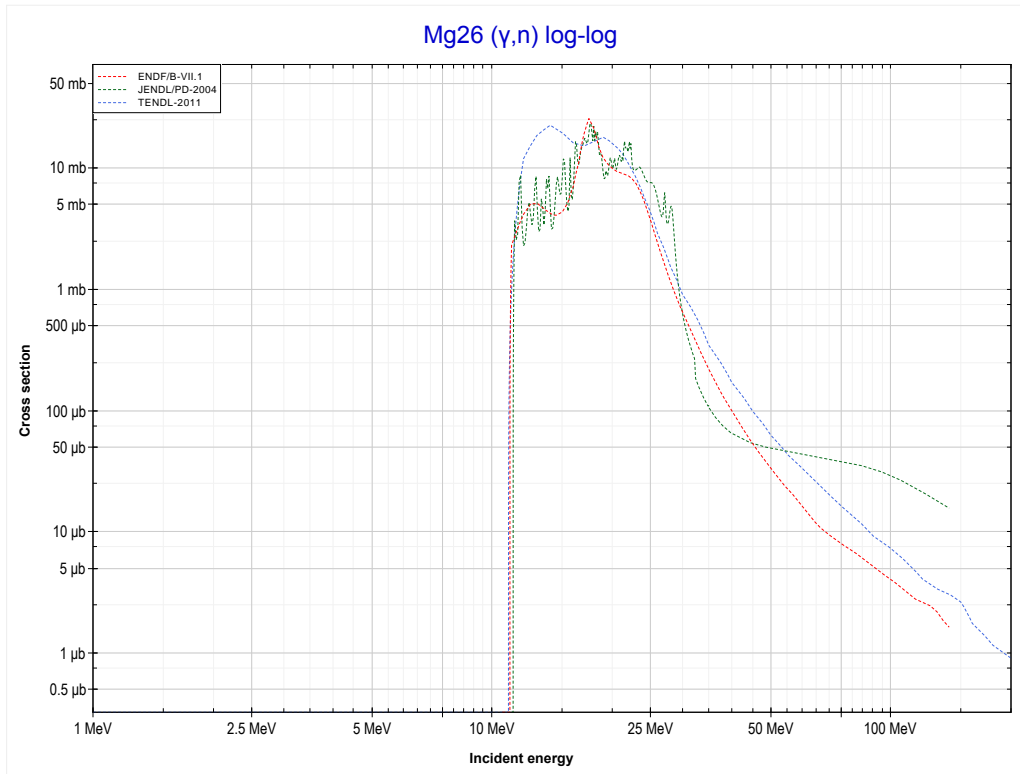
Reaction	Q-Value
Mg25(γ,d)Na23	-16798.70 keV
Mg25($\gamma,n+p$)Na23	-19023.26 keV

<< 11-Na-23	12-Mg-25	13-Al-27 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Na22 production)	MT4 (γ, n) >>



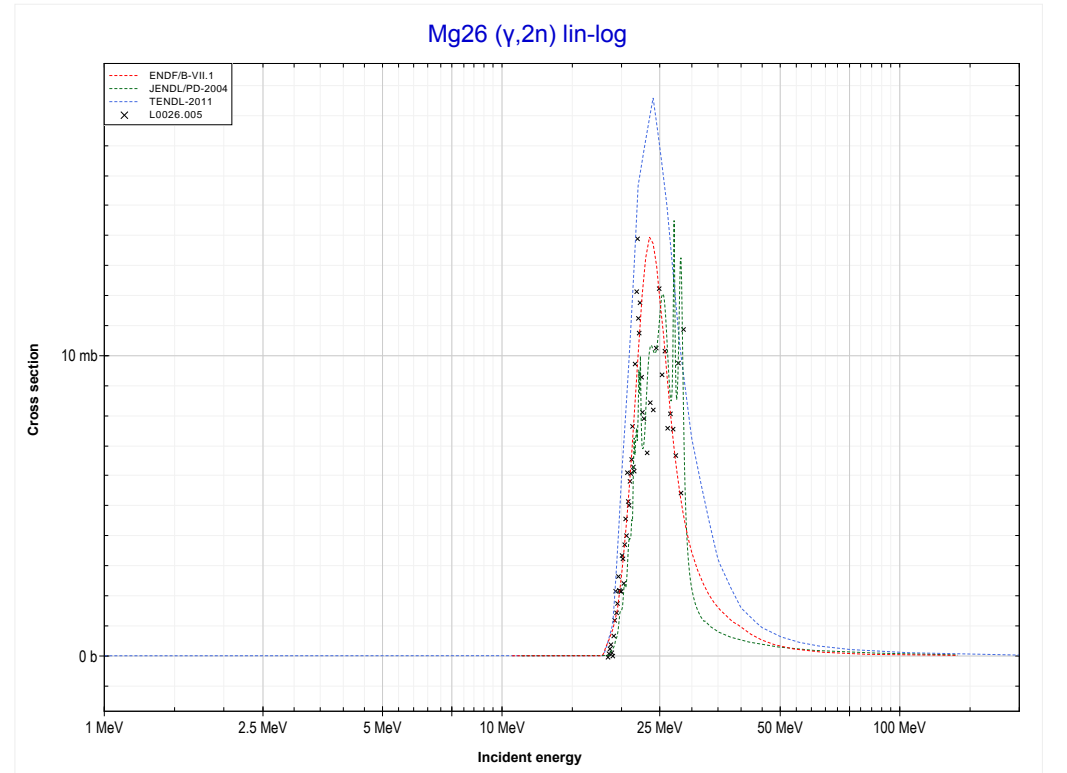
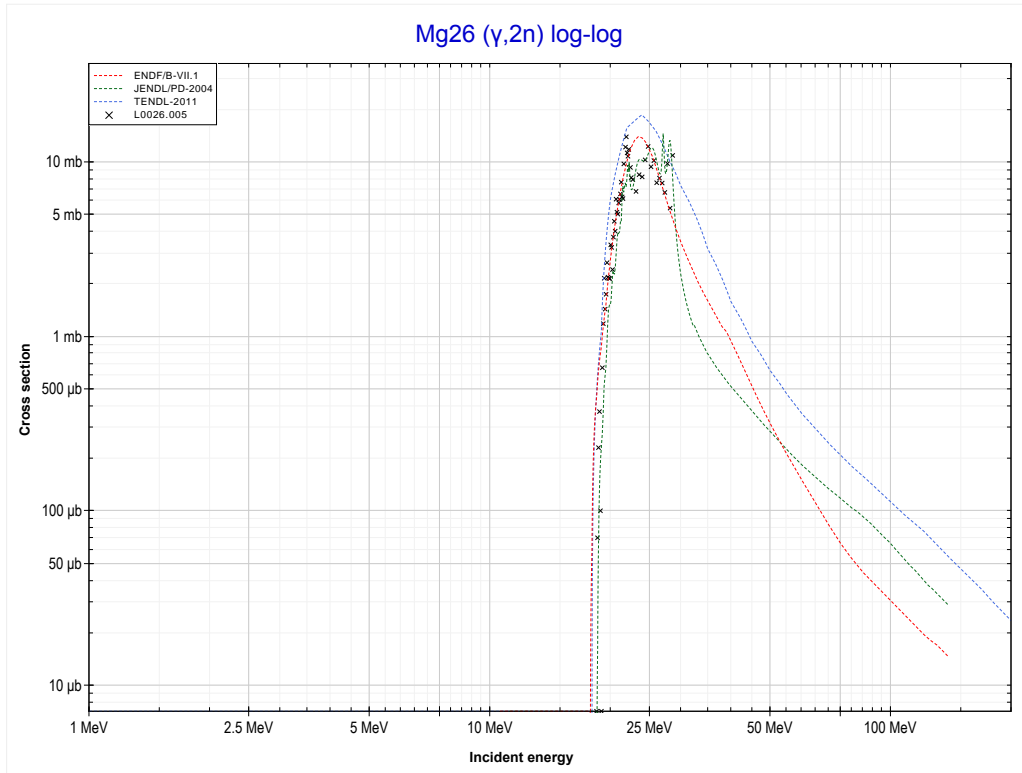
Reaction	Q-Value
Mg25(γ, t)Na22	-22960.24 keV
Mg25($\gamma, n+d$)Na22	-29217.47 keV
Mg25($\gamma, 2n+p$)Na22	-31442.03 keV

<< 12-Mg-25	12-Mg-26	13-Al-27 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Mg25 production)	MT16 ($\gamma, 2n$) >>



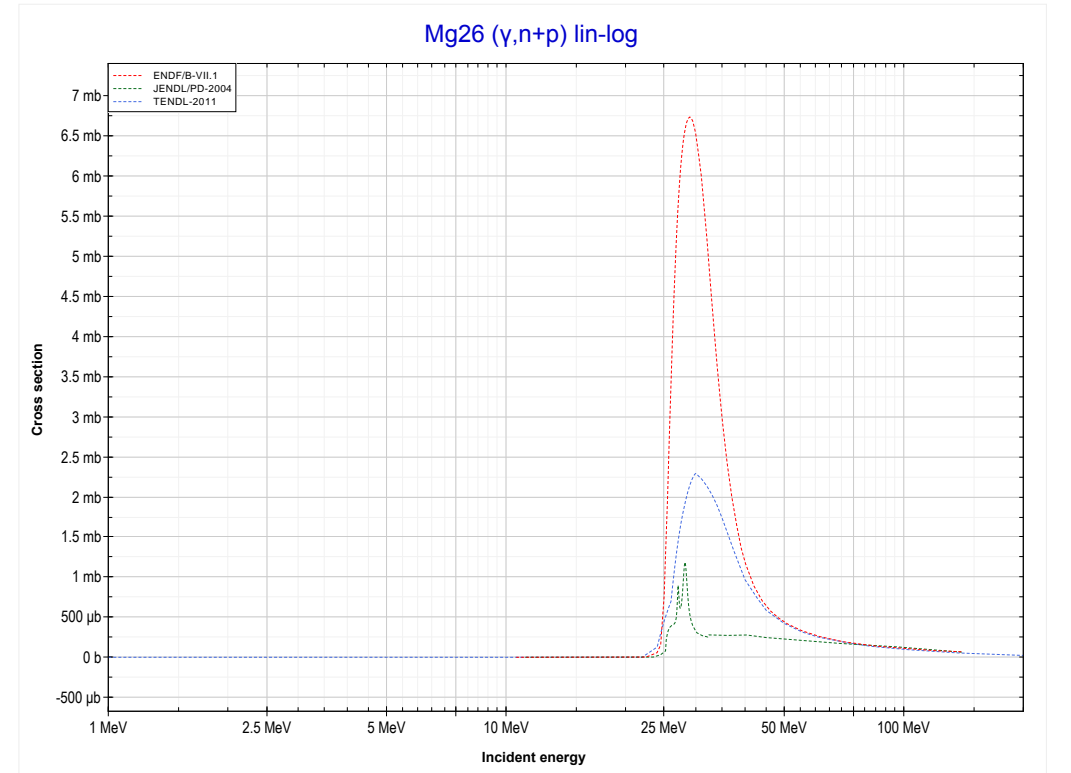
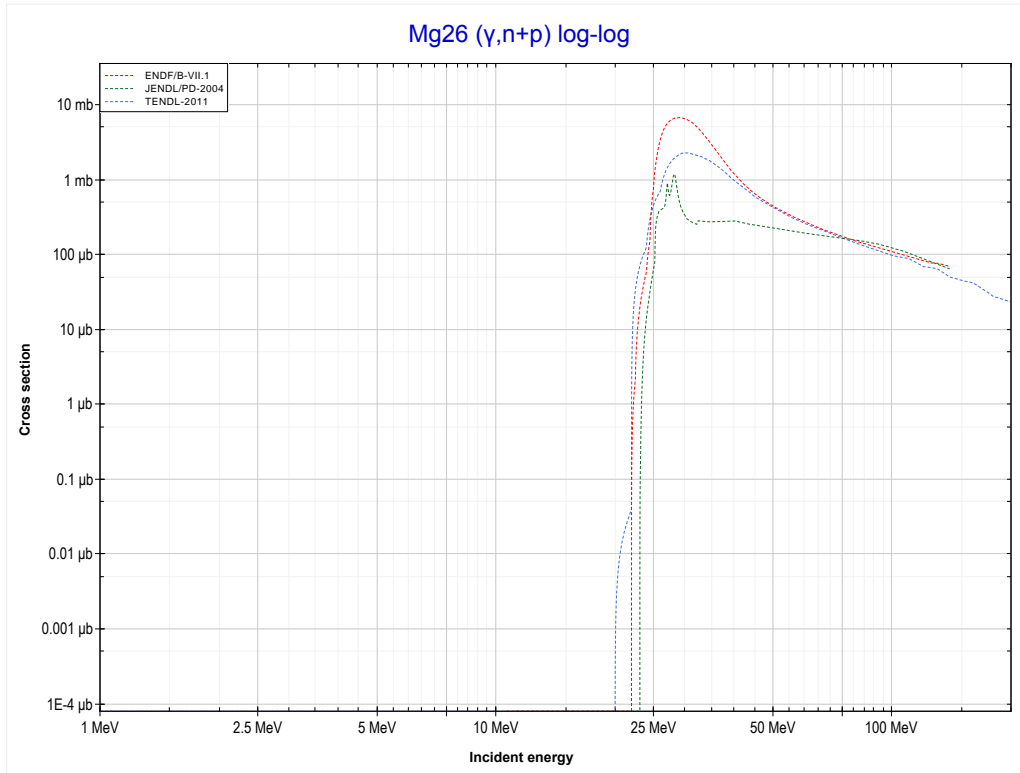
Reaction	Q-Value
Mg26(γ, n)Mg25	-11093.07 keV

<< 12-Mg-25	12-Mg-26	13-Al-27 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Mg24 production)	MT28 ($\gamma, n+p$) >>



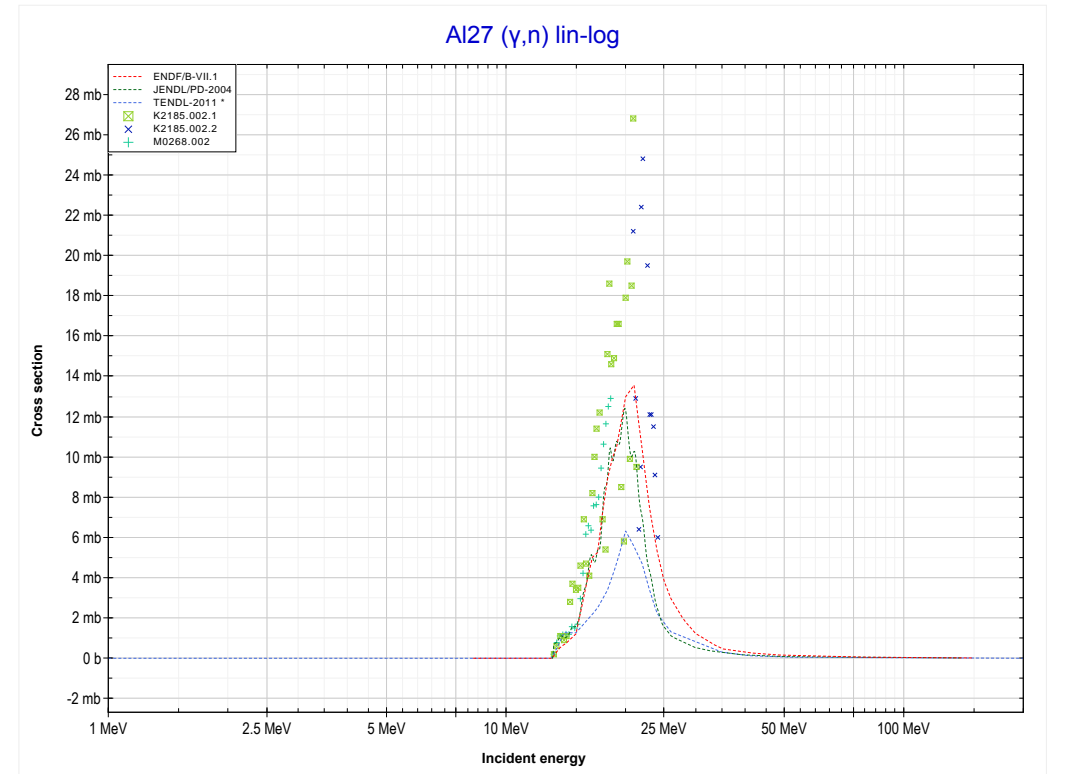
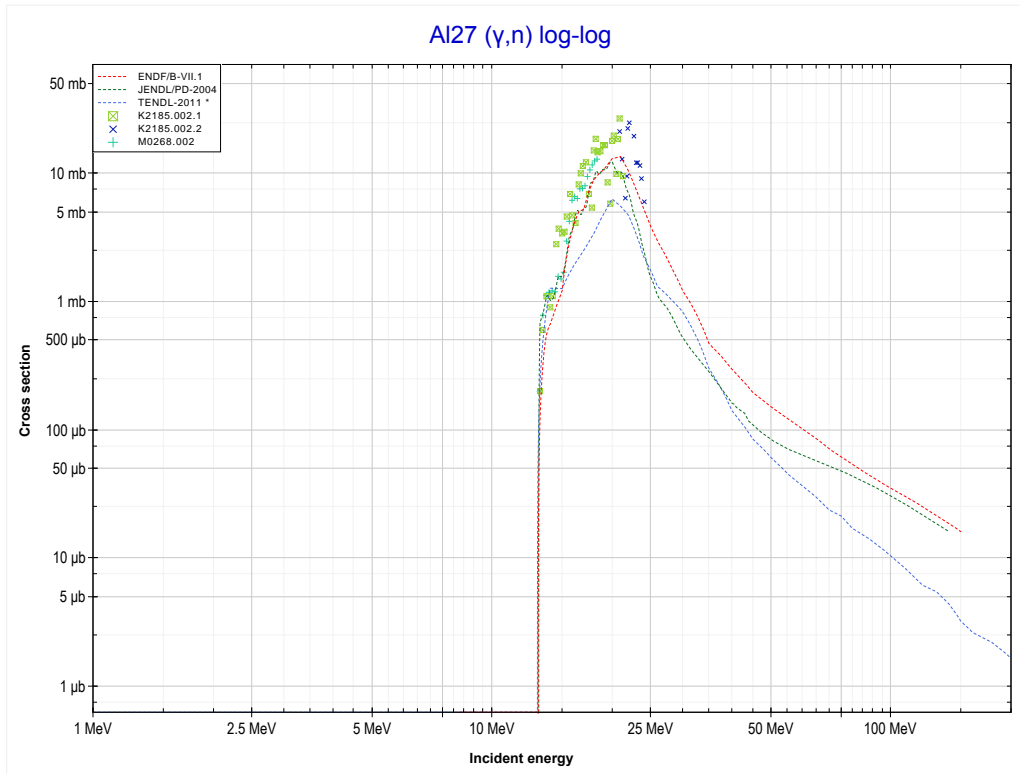
Reaction	Q-Value
Mg26($\gamma, 2n$)Mg24	-18423.65 keV

<< 12-Mg-25	12-Mg-26	13-Al-27 >>
<< MT16 ($\gamma, 2n$)	MT28 ($\gamma, n+p$) or MT5 (Na24 production)	MT4 (γ, n) >>



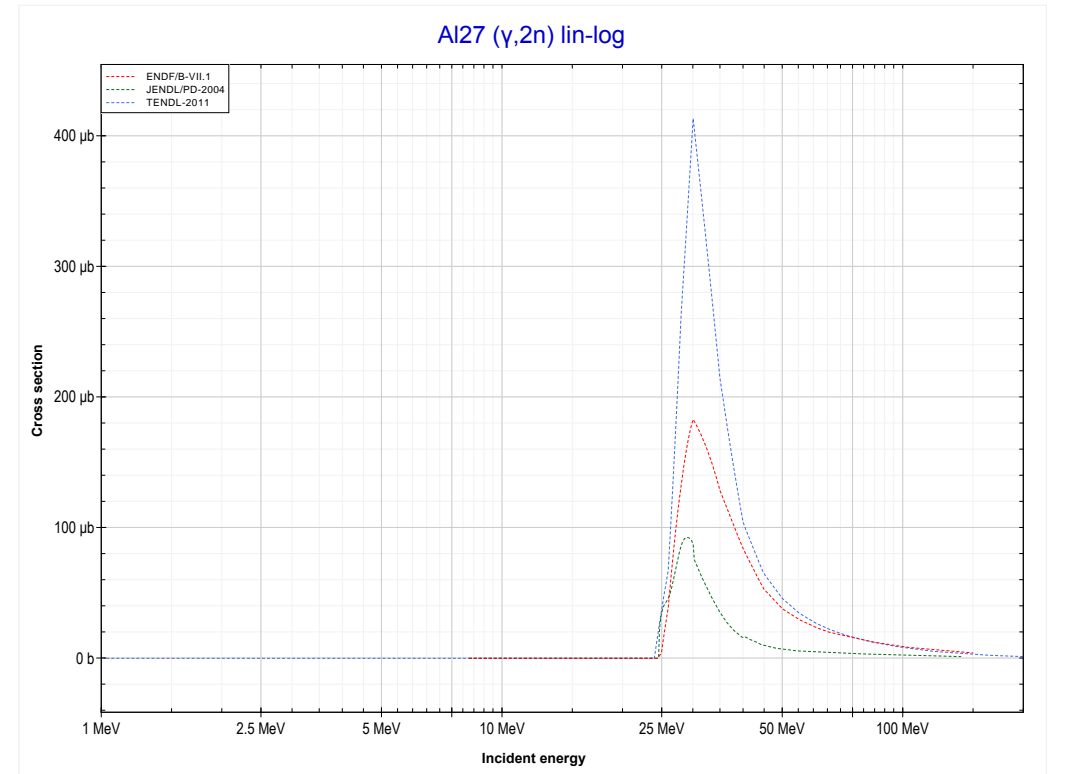
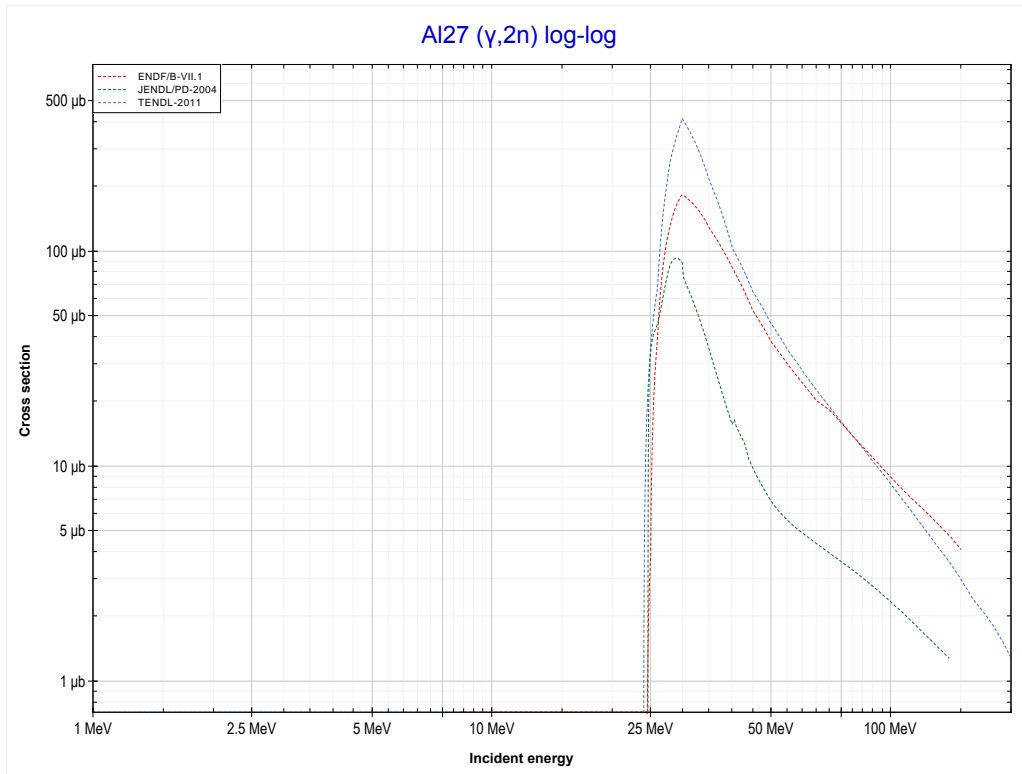
Reaction	Q-Value
Mg26(γ, d)Na24	-20932.19 keV
Mg26($\gamma, n+p$)Na24	-23156.76 keV

<< 12-Mg-26	13-Al-27	14-Si-28 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Al26 production)	MT16 ($\gamma, 2n$) >>



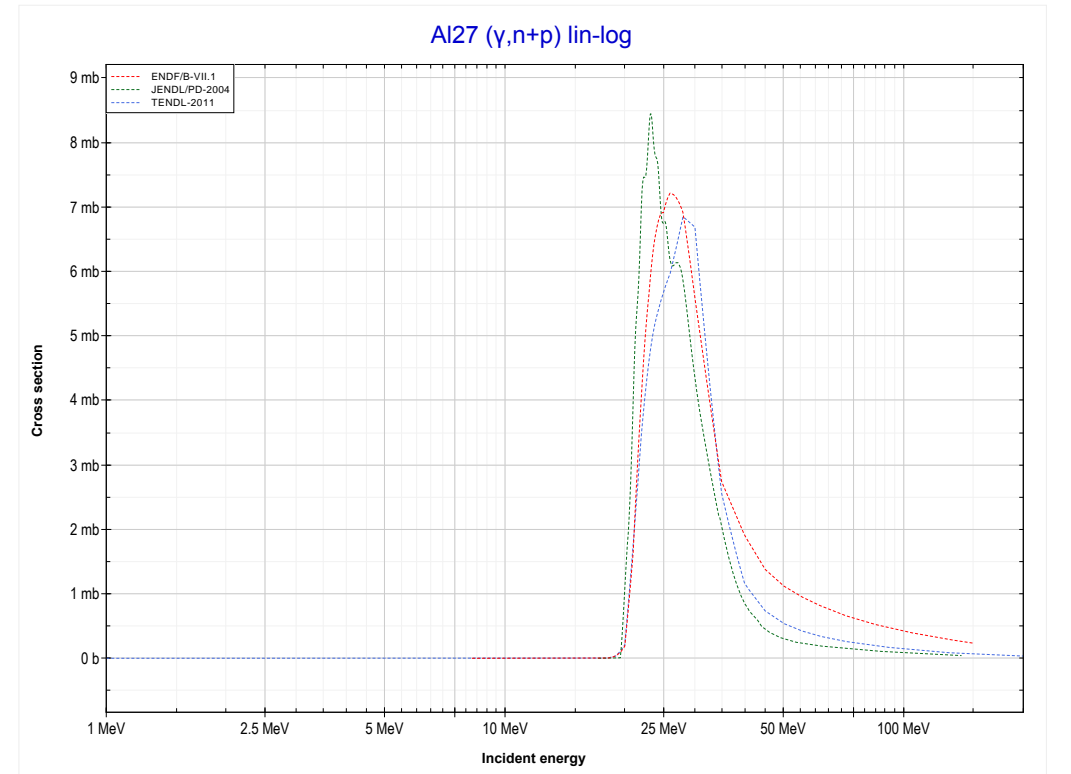
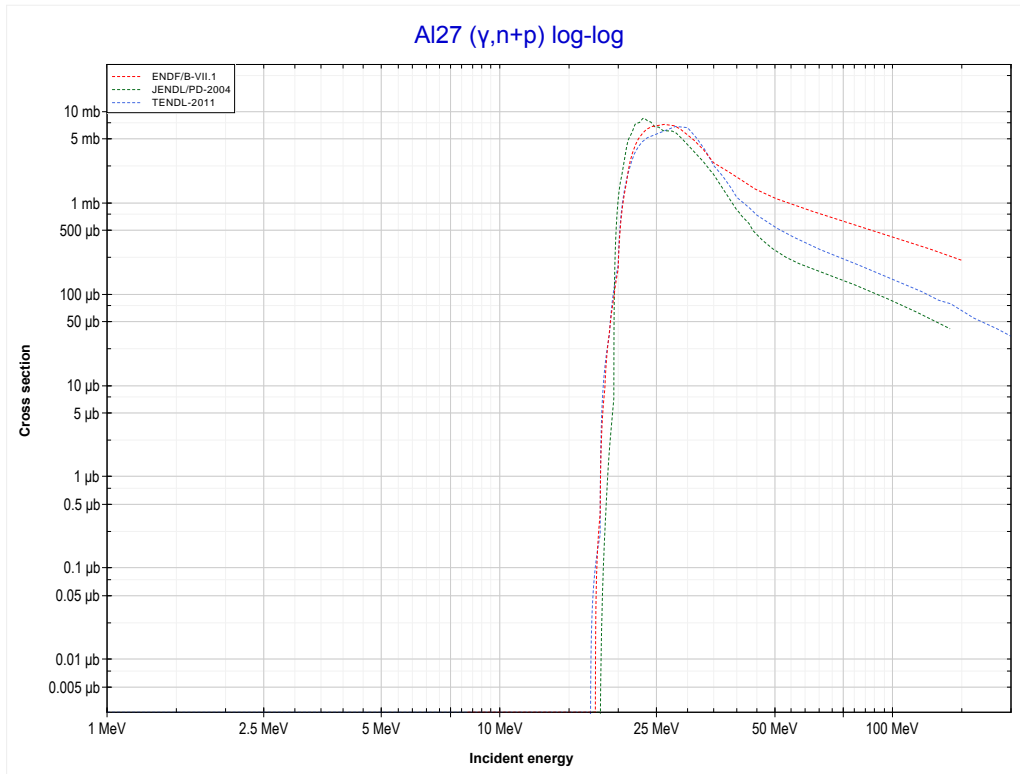
Reaction	Q-Value
Al27(γ, n)Al26	-13057.67 keV

<< 12-Mg-26	13-Al-27	14-Si-30 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Al25 production)	MT28 ($\gamma,n+p$) >>



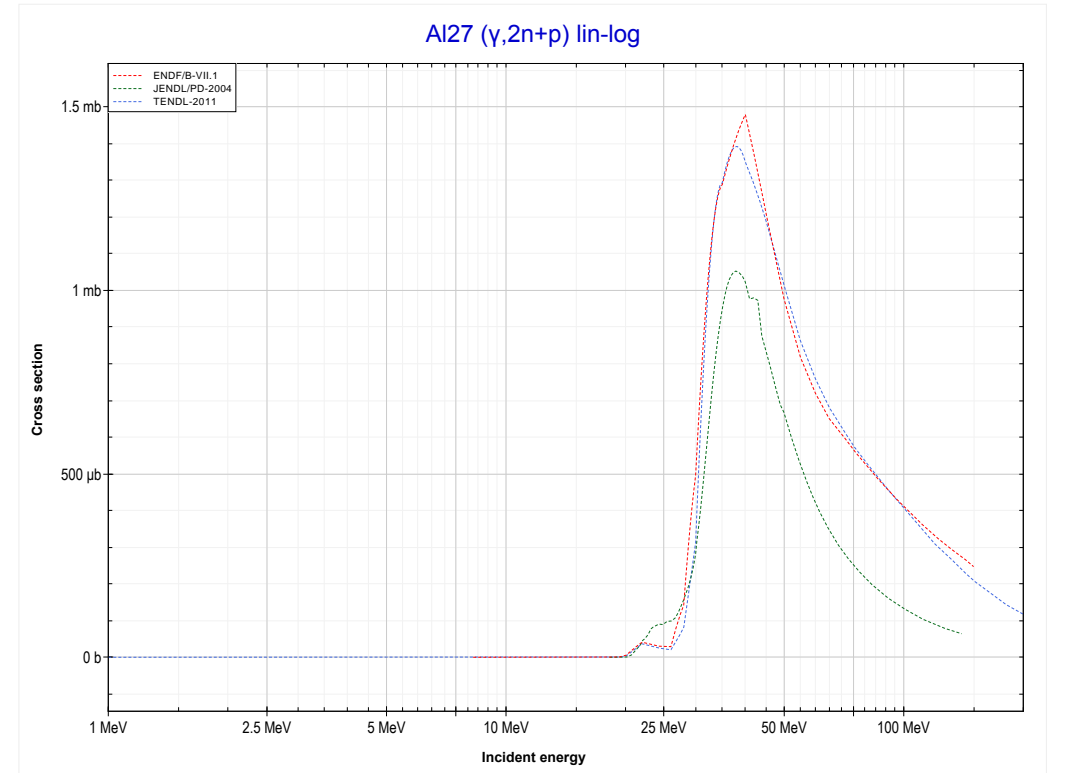
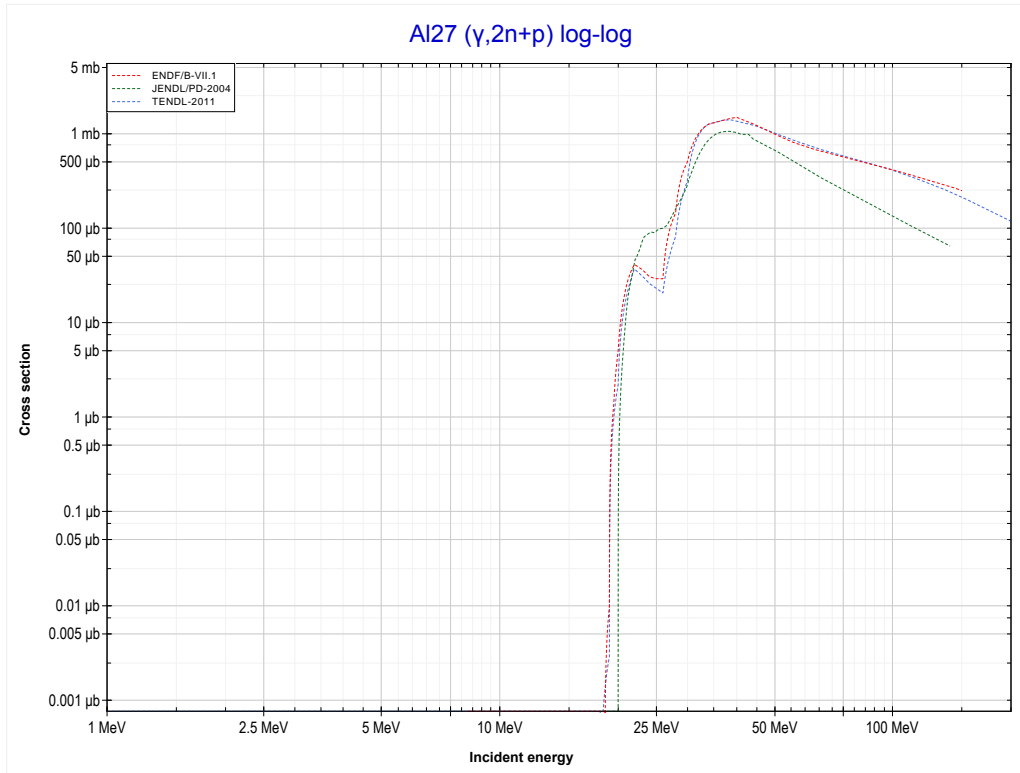
Reaction	Q-Value
Al27($\gamma,2n$)Al25	-24423.09 keV

<< 12-Mg-26	13-Al-27	14-Si-28 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Mg25 production)	MT41 ($\gamma,2n+p$) >>



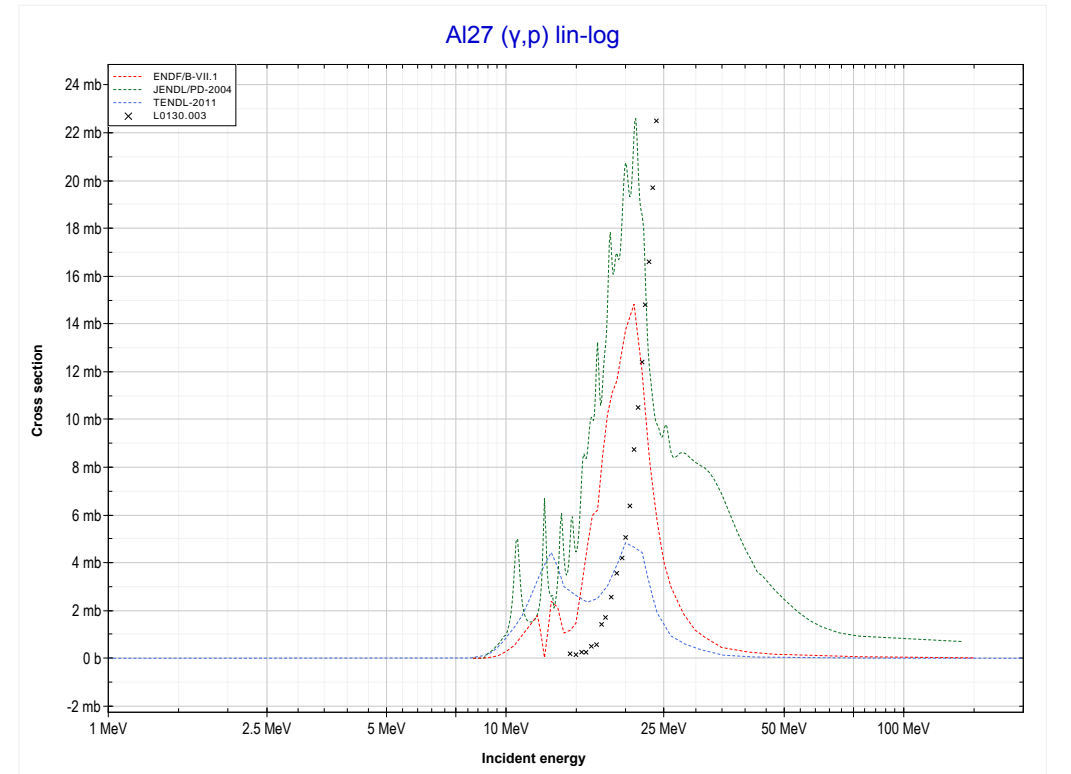
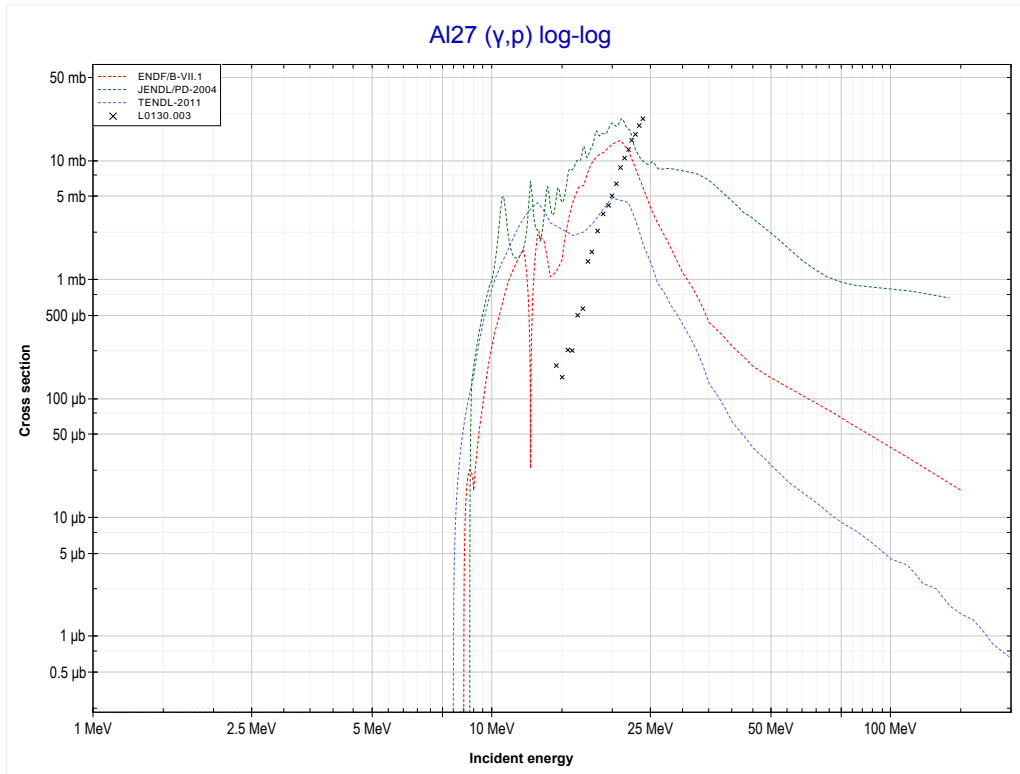
Reaction	Q-Value
Al27(γ,d)Mg25	-17139.55 keV
Al27($\gamma,n+p$)Mg25	-19364.12 keV

<< 12-Mg-25	13-Al-27	14-Si-30 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Mg24 production)	MT103 (γ, p) >>



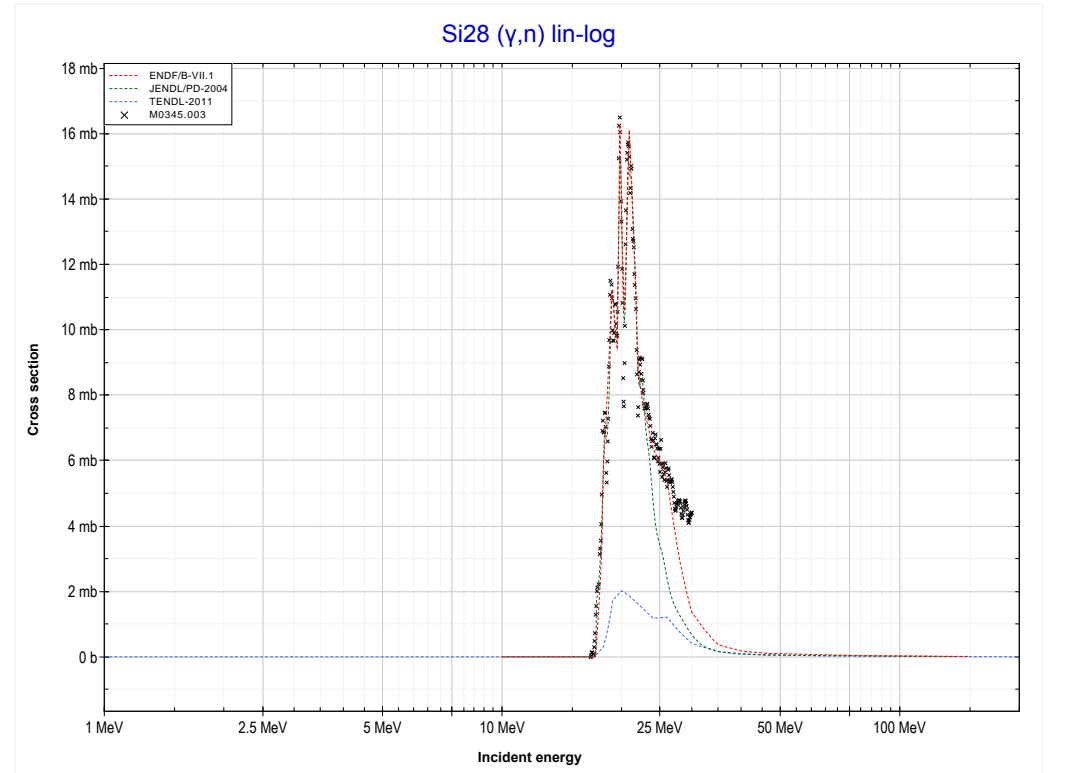
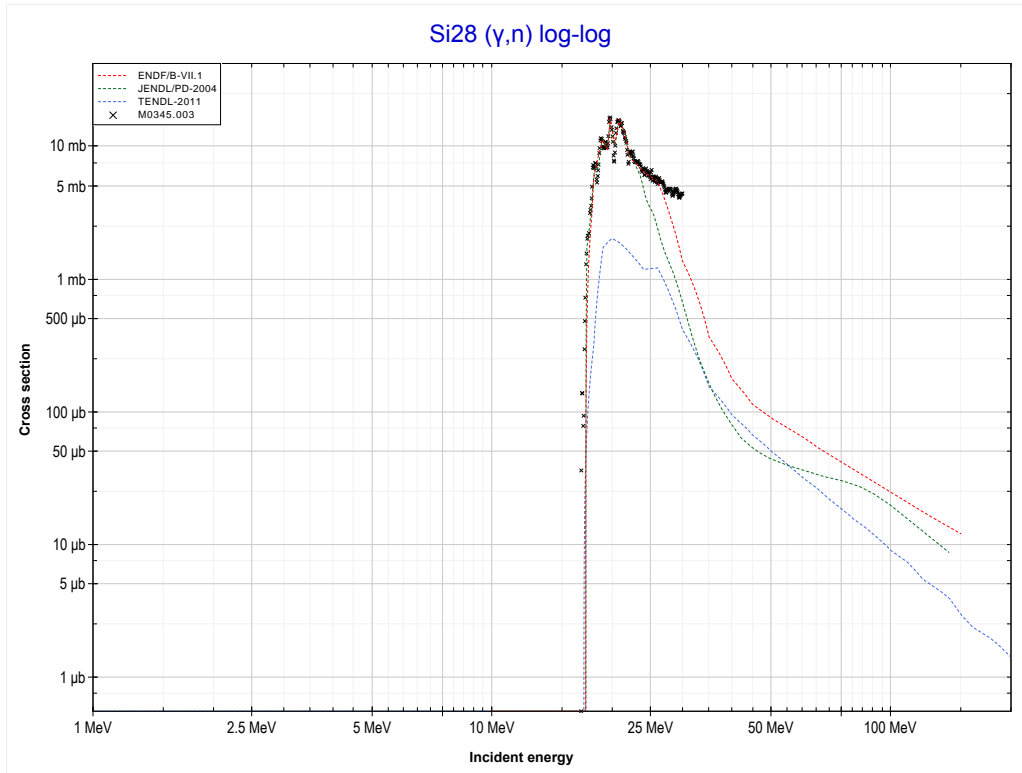
Reaction	Q-Value
Al27(γ, t)Mg24	-18212.90 keV
Al27($\gamma, n+d$)Mg24	-24470.13 keV
Al27($\gamma, 2n+p$)Mg24	-26694.70 keV

<< 10-Ne-22	13-Al-27	14-Si-28 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (Mg26 production)	MT4 (γ, n) >>



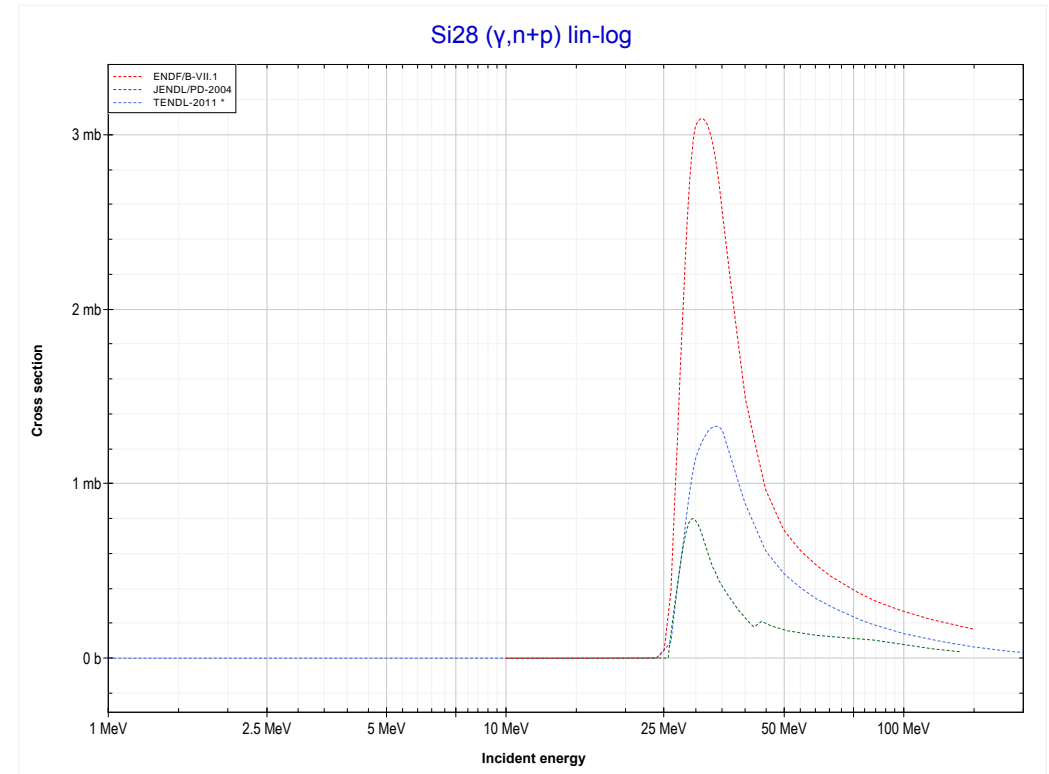
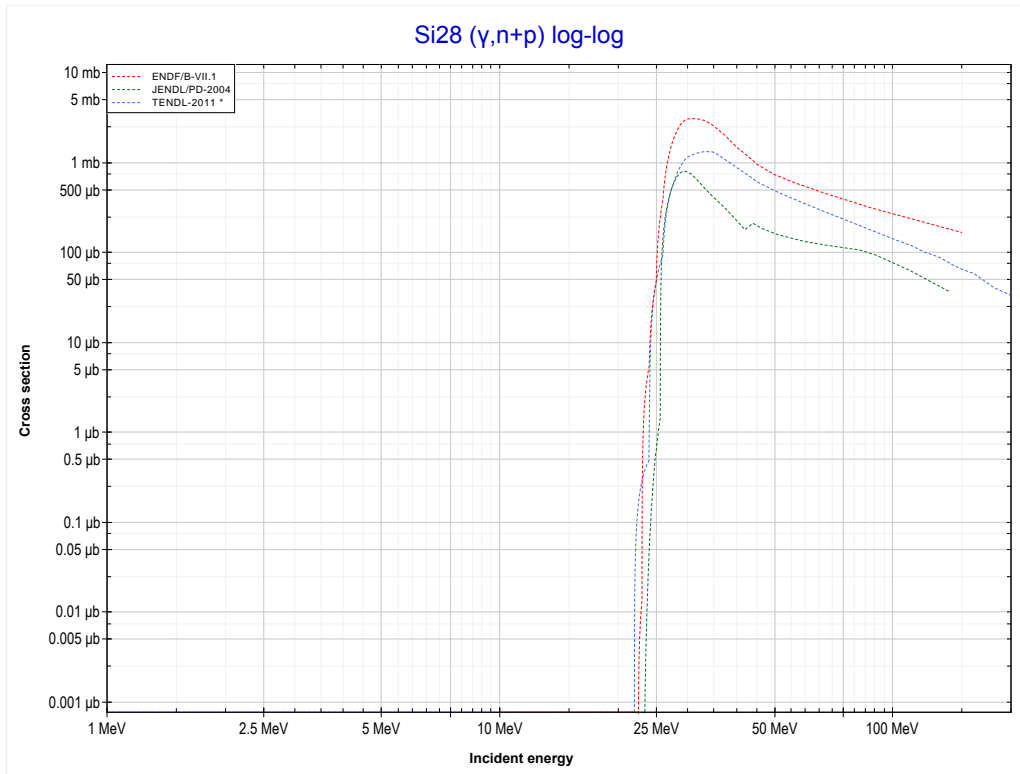
Reaction	Q-Value
Al27(γ, p)Mg26	-8271.05 keV

<< 13-Al-27	14-Si-28	14-Si-29 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Si27 production)	MT28 ($\gamma,n+p$) >>



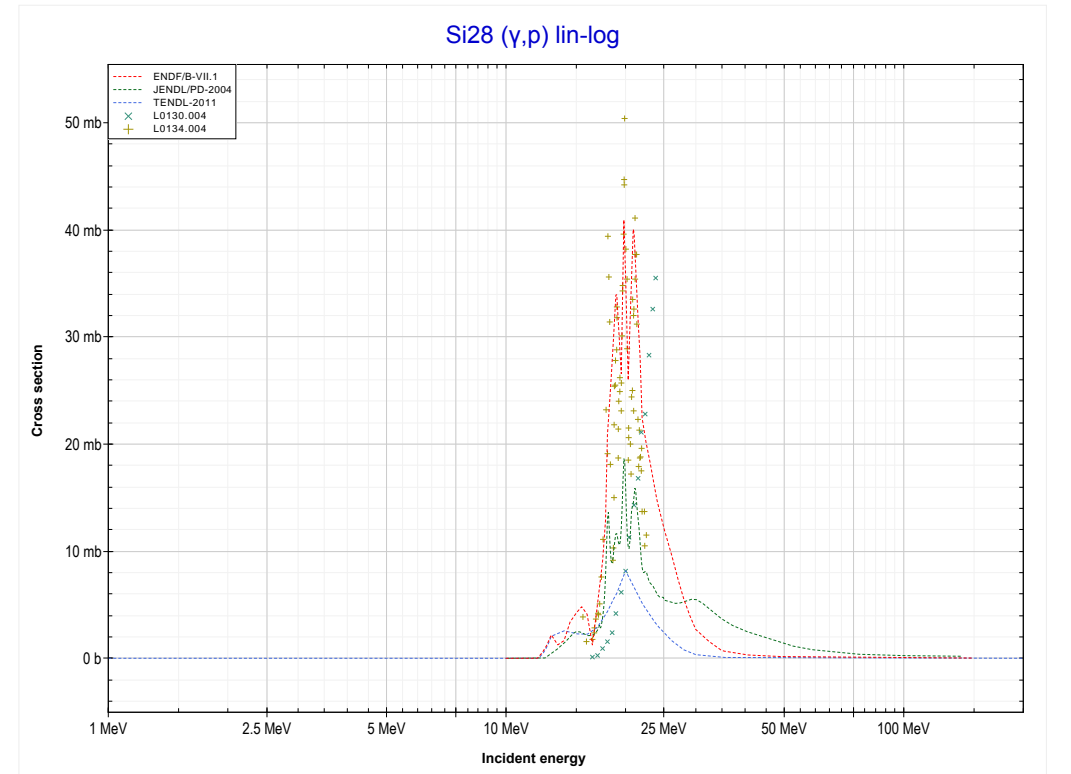
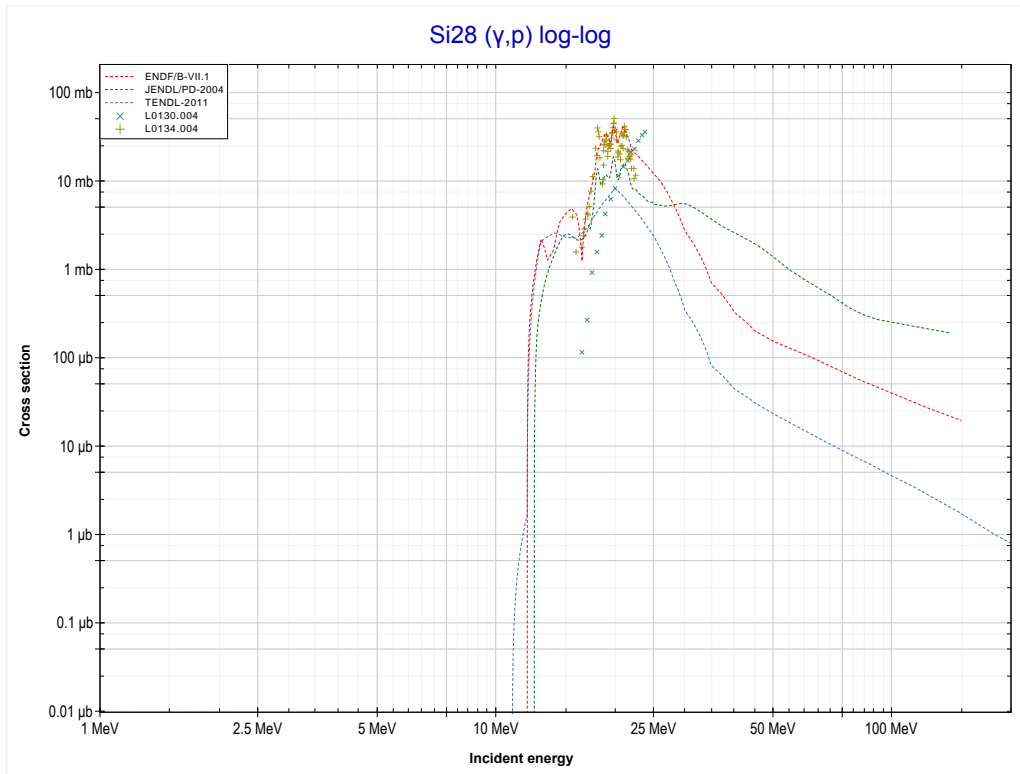
Reaction	Q-Value
Si28(γ,n)Si27	-17179.81 keV

<< 13-Al-27	14-Si-28	14-Si-29 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (Al26 production)	MT103 (γ,p) >>



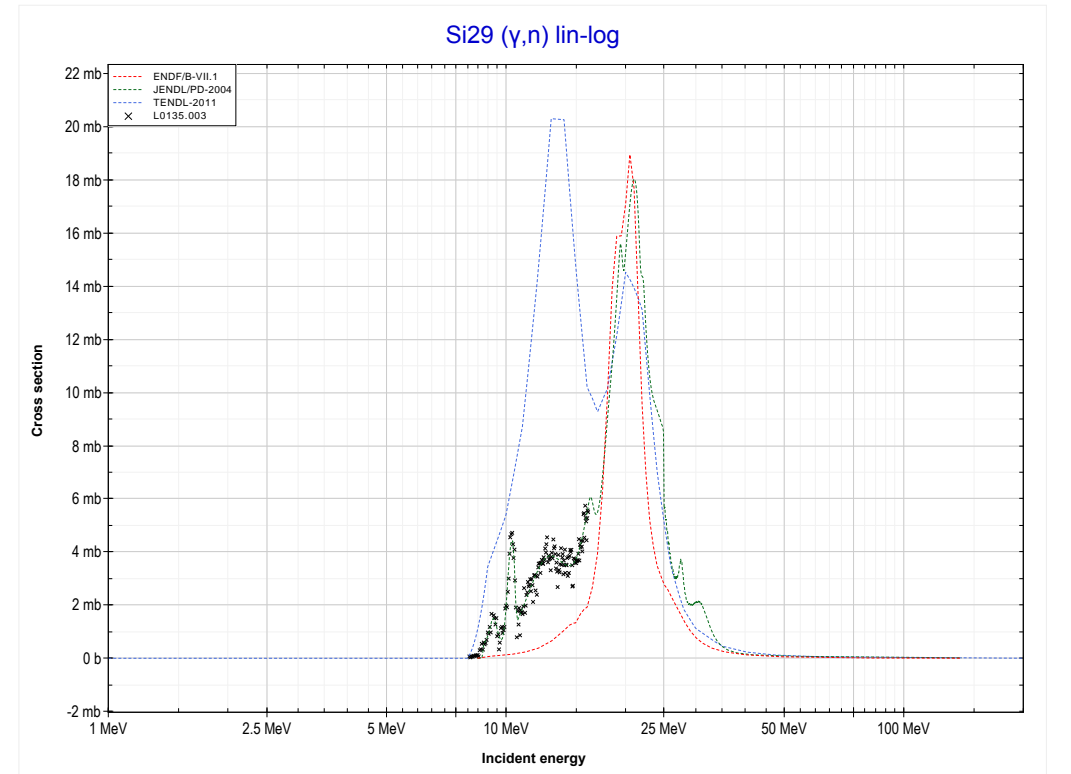
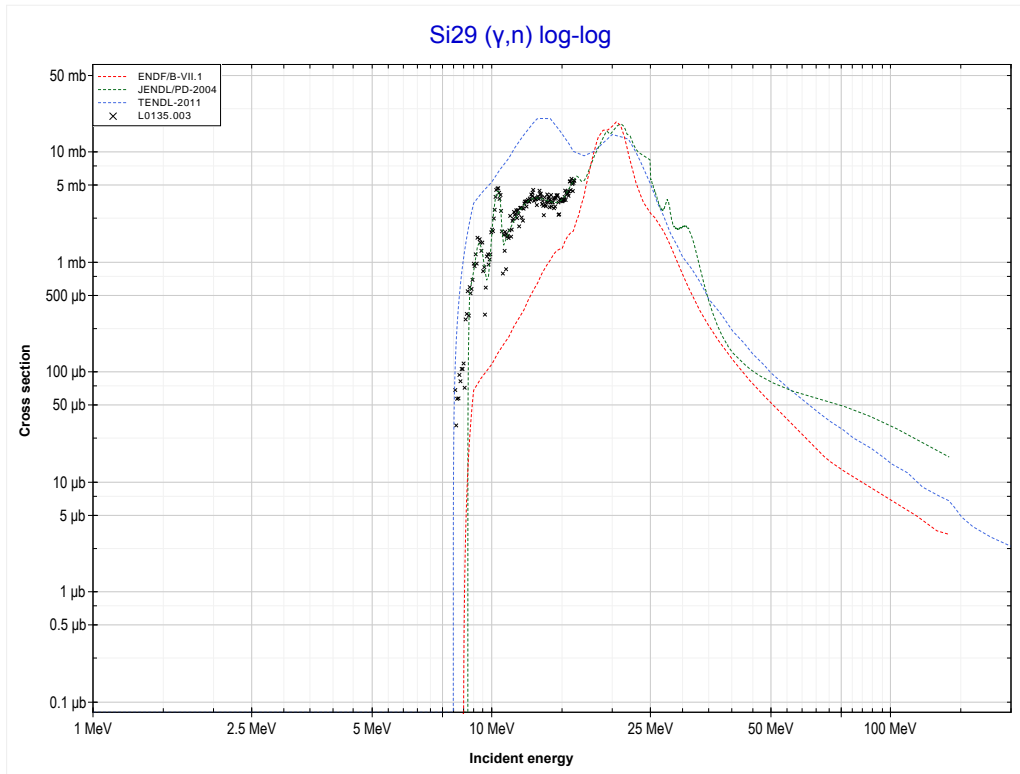
Reaction	Q-Value
Si28(γ,d)Al26	-22418.21 keV
Si28($\gamma,n+p$)Al26	-24642.77 keV

<< 13-Al-27	14-Si-28	15-P-31 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (Al27 production)	MT4 (γ, n) >>



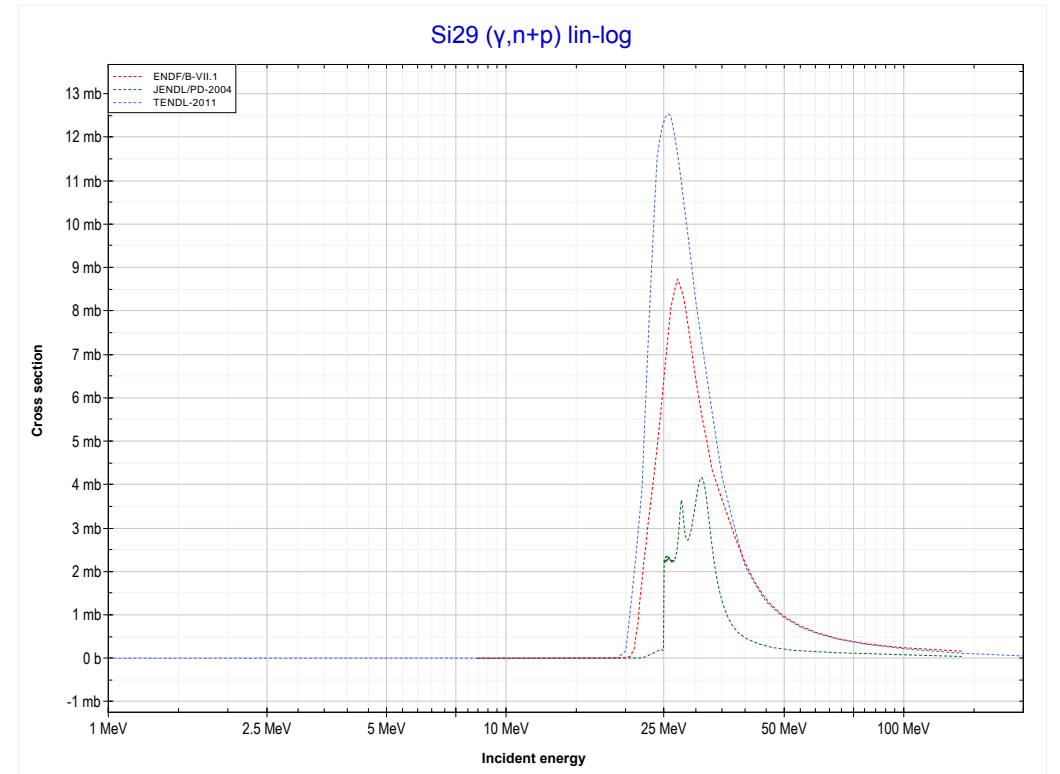
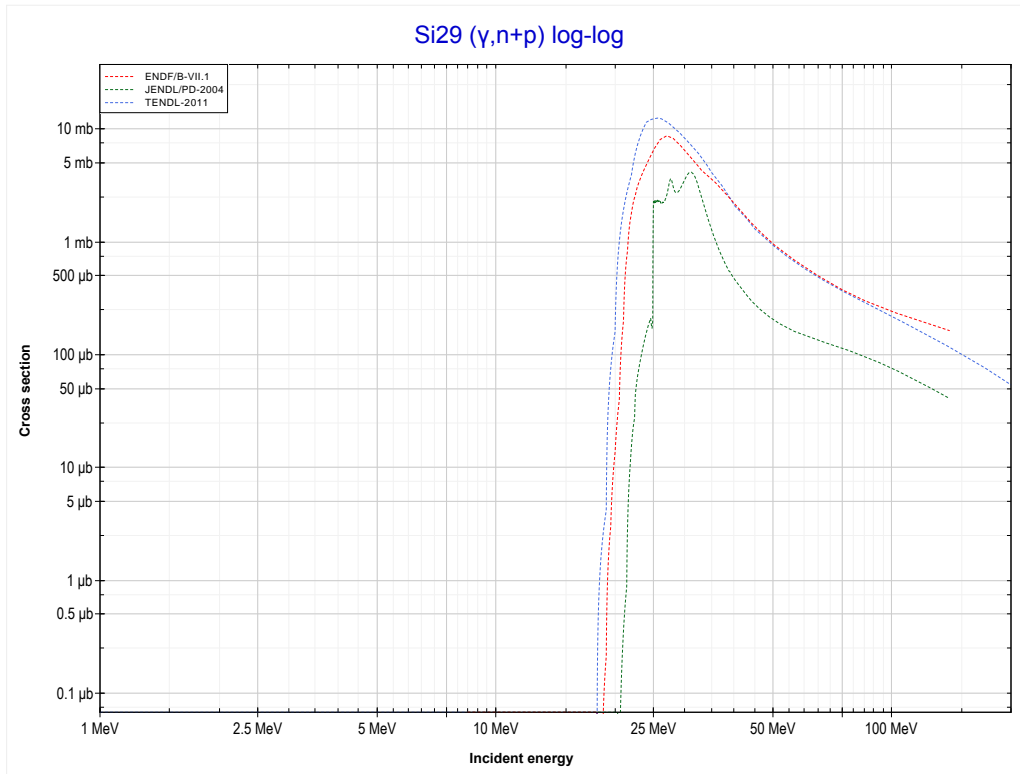
Reaction	Q-Value
Si28(γ, p)Al27	-11585.11 keV

<< 14-Si-28	14-Si-29	14-Si-30 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Si28 production)	MT28 ($\gamma,n+p$) >>



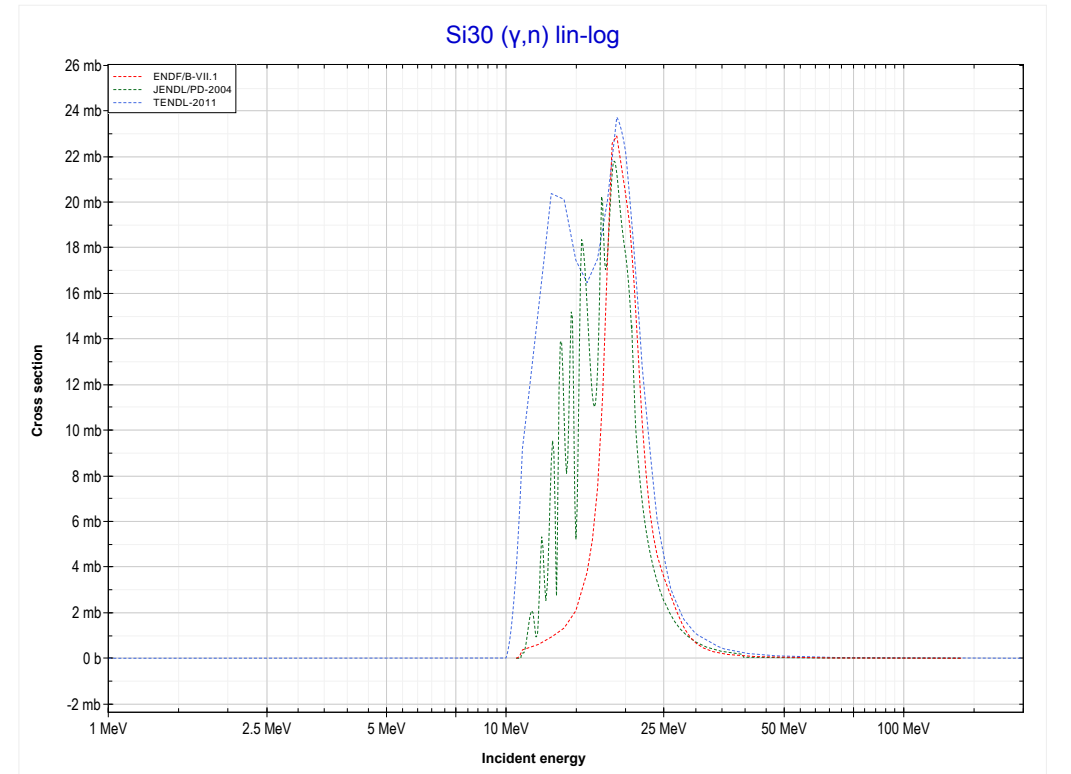
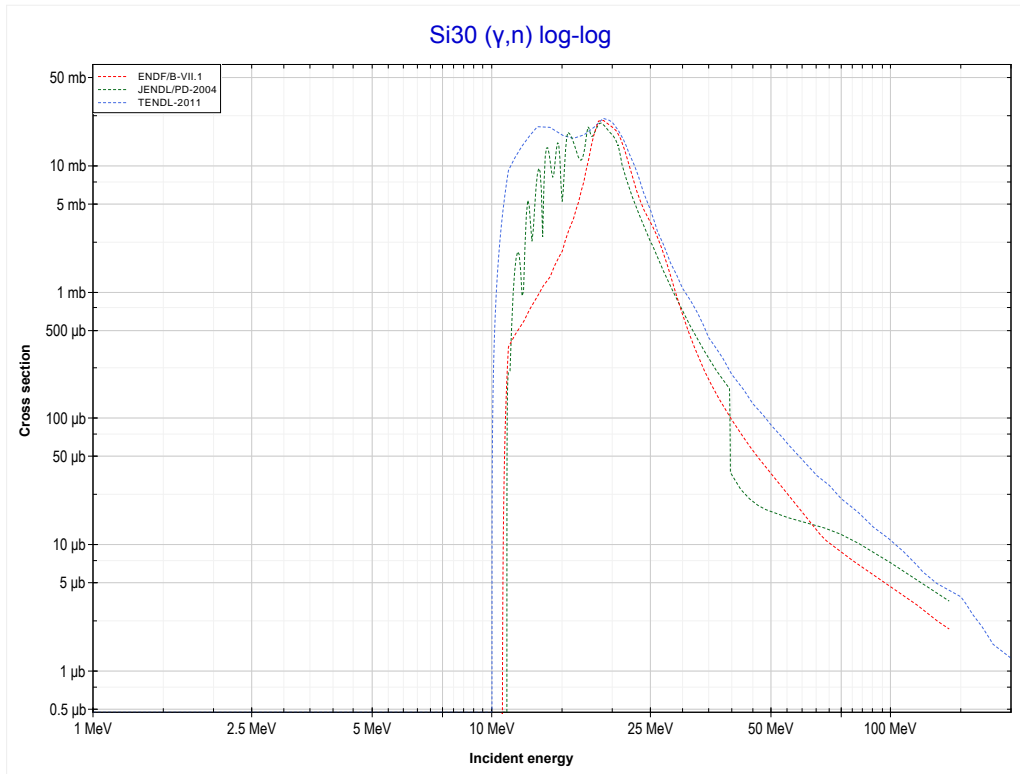
Reaction	Q-Value
Si29(γ,n)Si28	-8473.57 keV

<< 14-Si-28	14-Si-29	14-Si-30 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (Al27 production)	MT4 (γ,n) >>



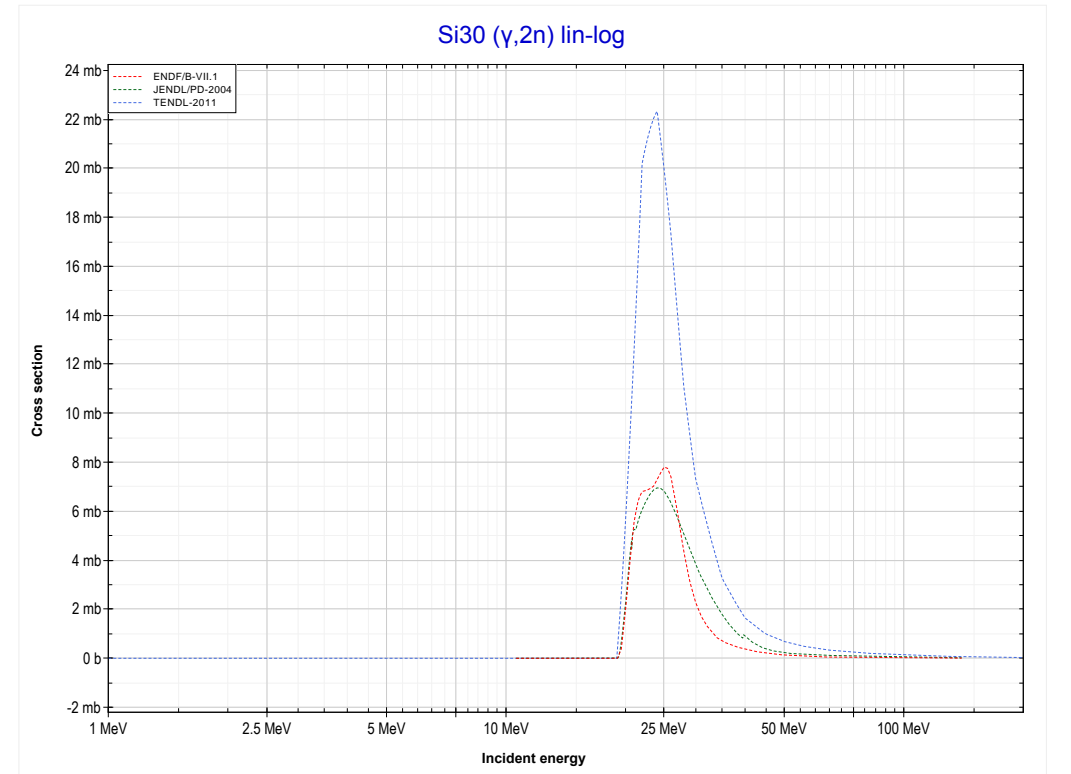
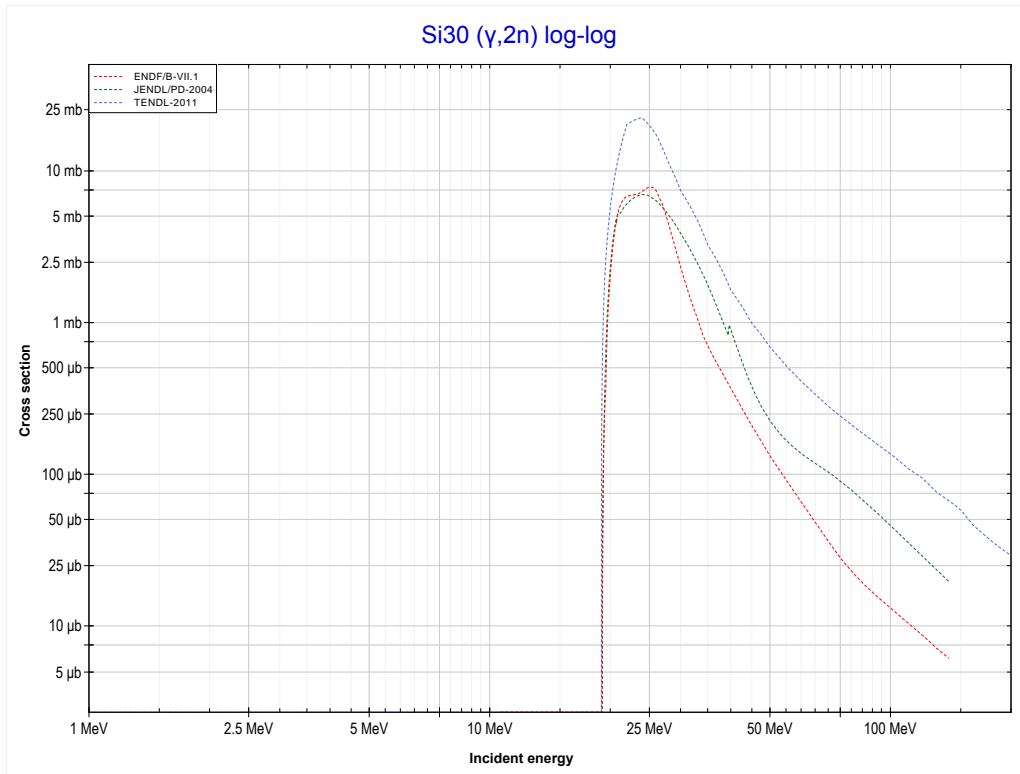
Reaction	Q-Value
Si29(γ,d)Al27	-17834.11 keV
Si29($\gamma,n+p$)Al27	-20058.67 keV

<< 14-Si-29	14-Si-30	15-P-31 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Si29 production)	MT16 ($\gamma, 2n$) >>



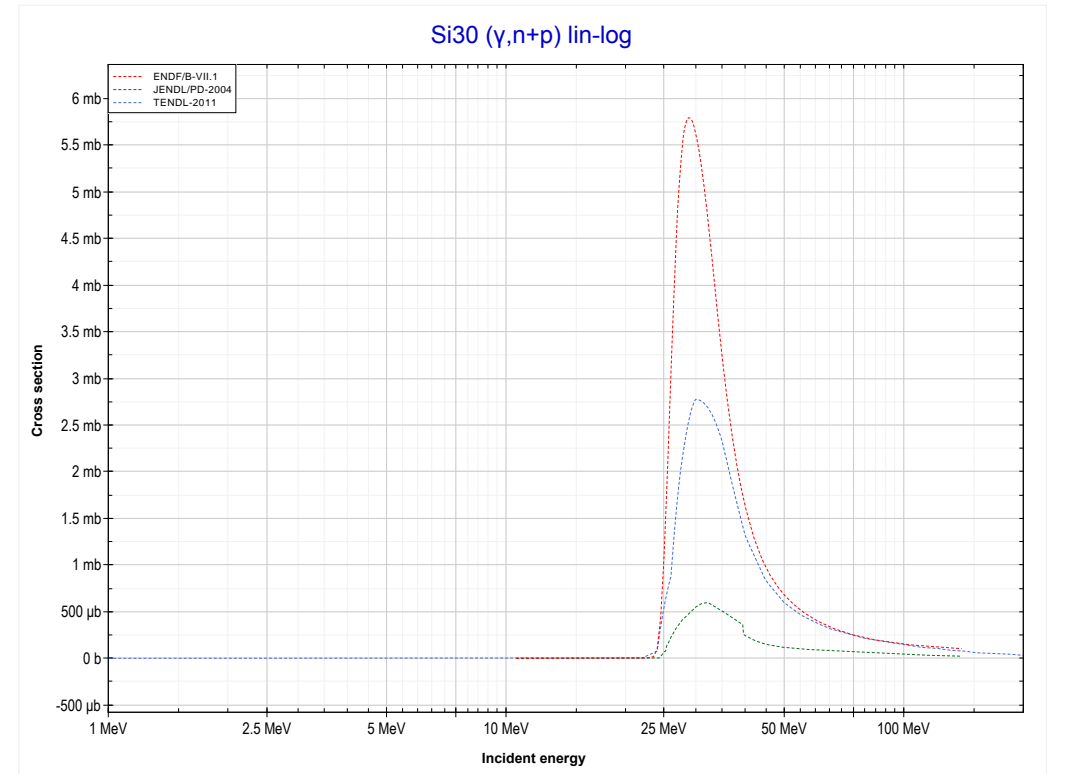
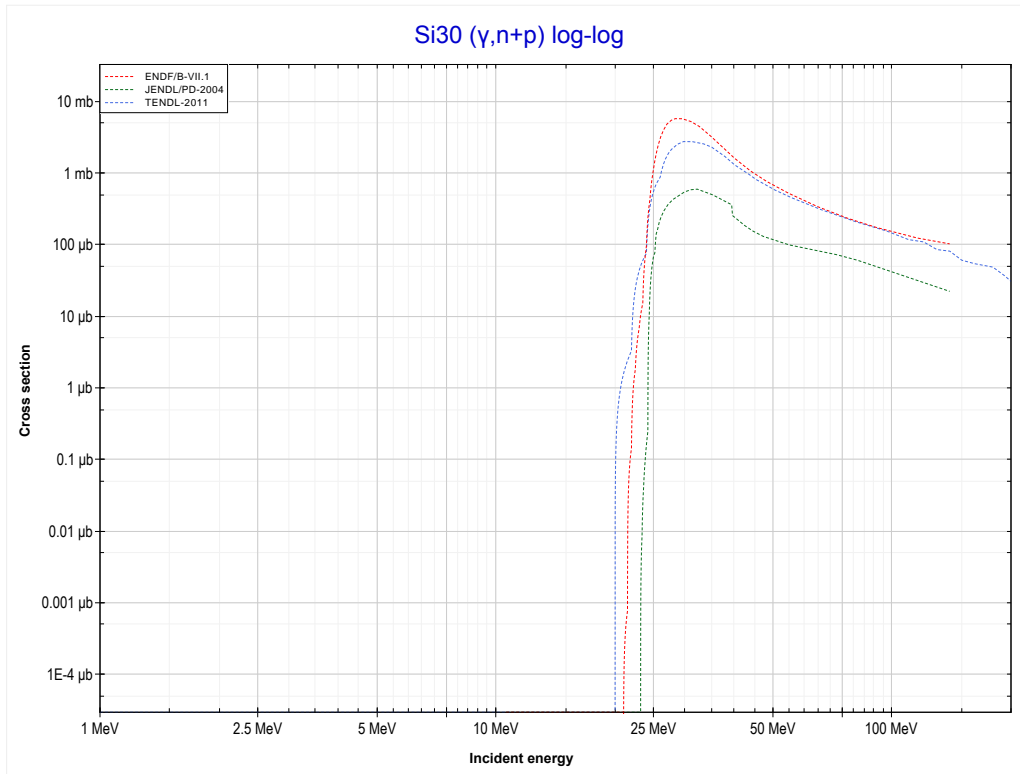
Reaction	Q-Value
Si30(γ, n)Si29	-10609.20 keV

<< 13-Al-27	14-Si-30	15-P-31 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Si28 production)	MT28 ($\gamma,n+p$) >>



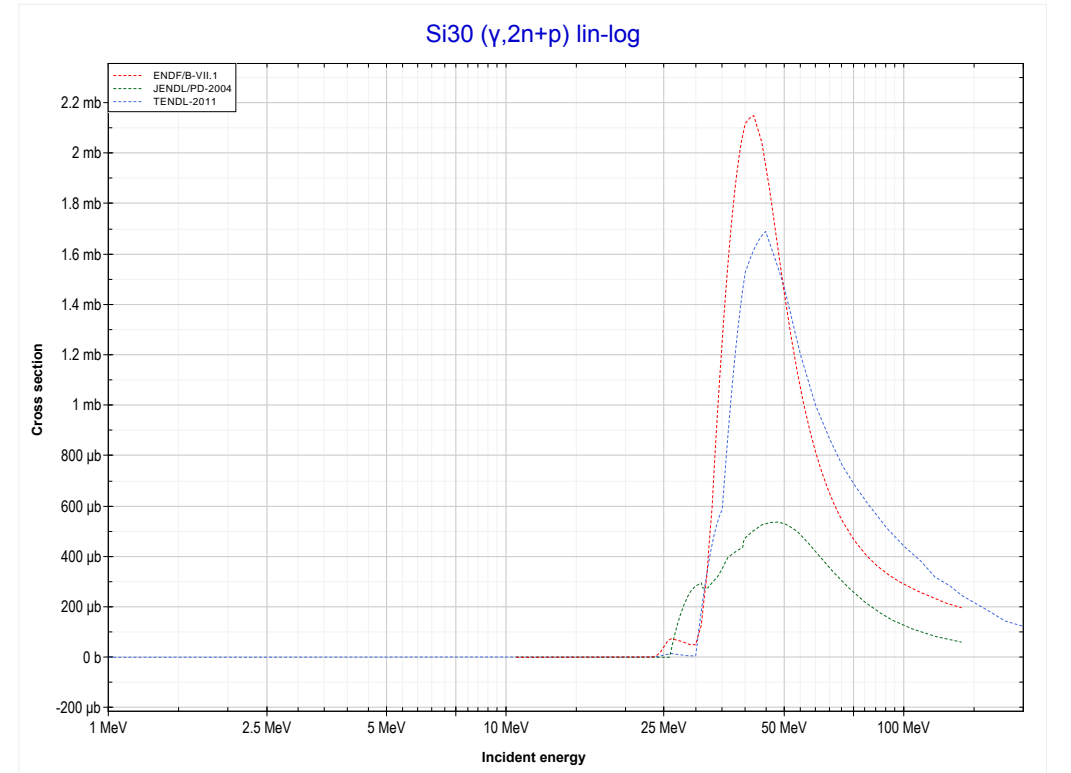
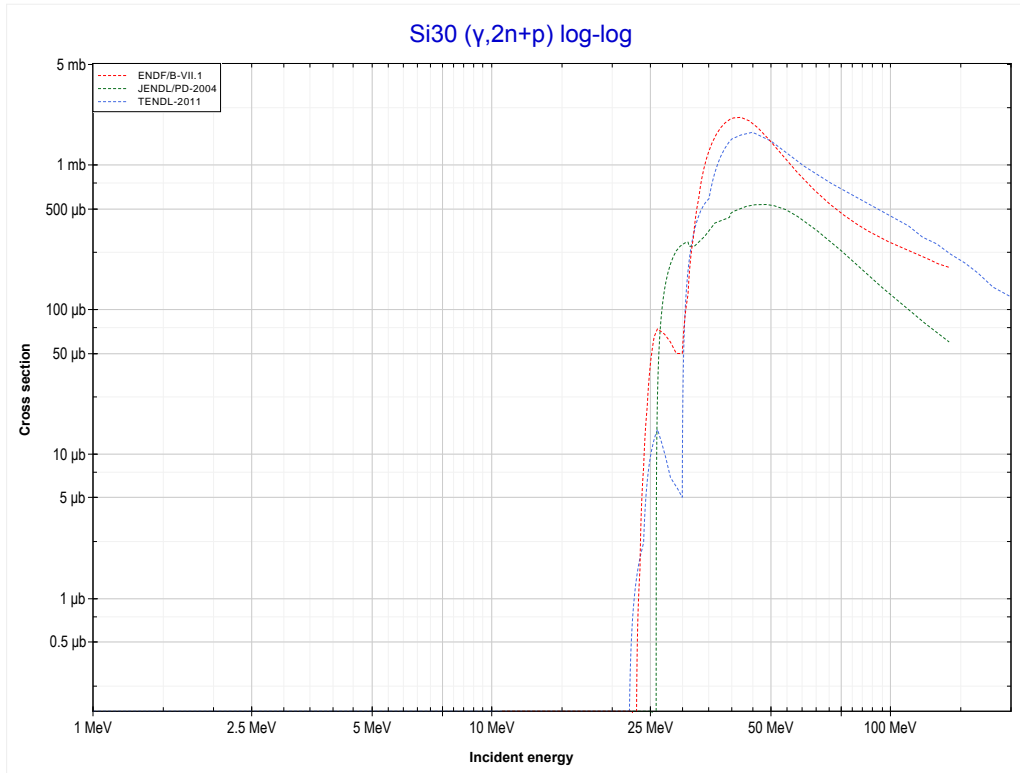
Reaction	Q-Value
$\text{Si}30(\gamma,2n)\text{Si}28$	-19082.77 keV

<< 14-Si-29	14-Si-30	15-P-31 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Al28 production)	MT41 ($\gamma,2n+p$) >>



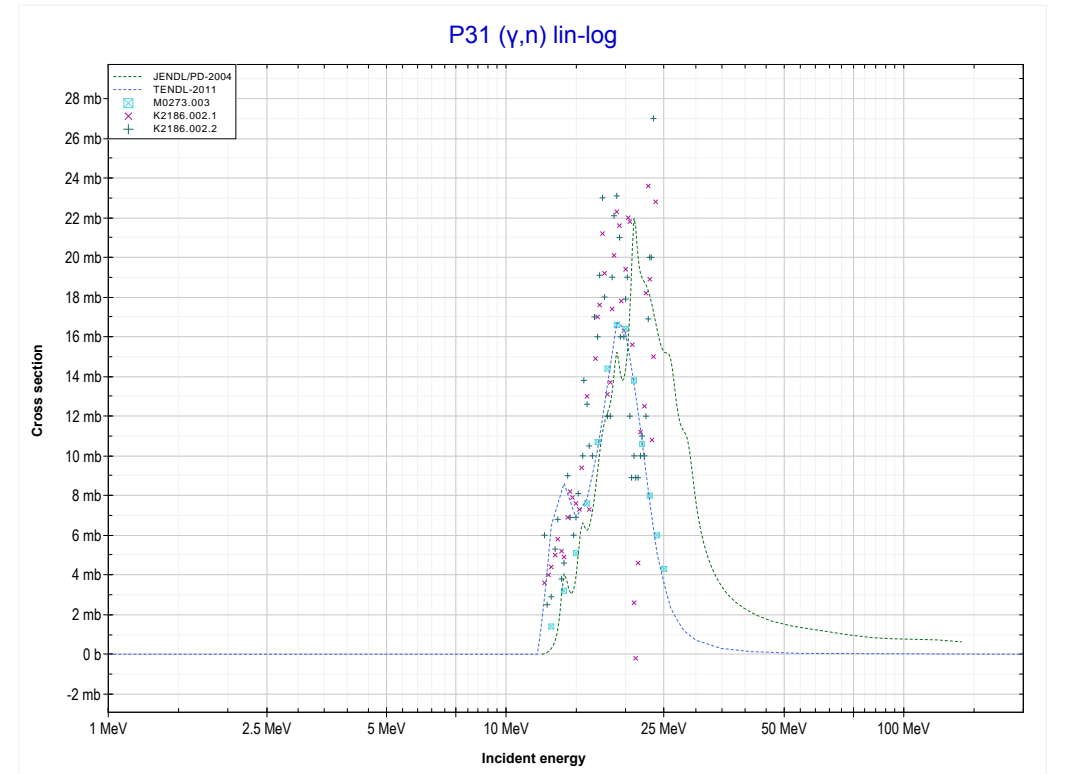
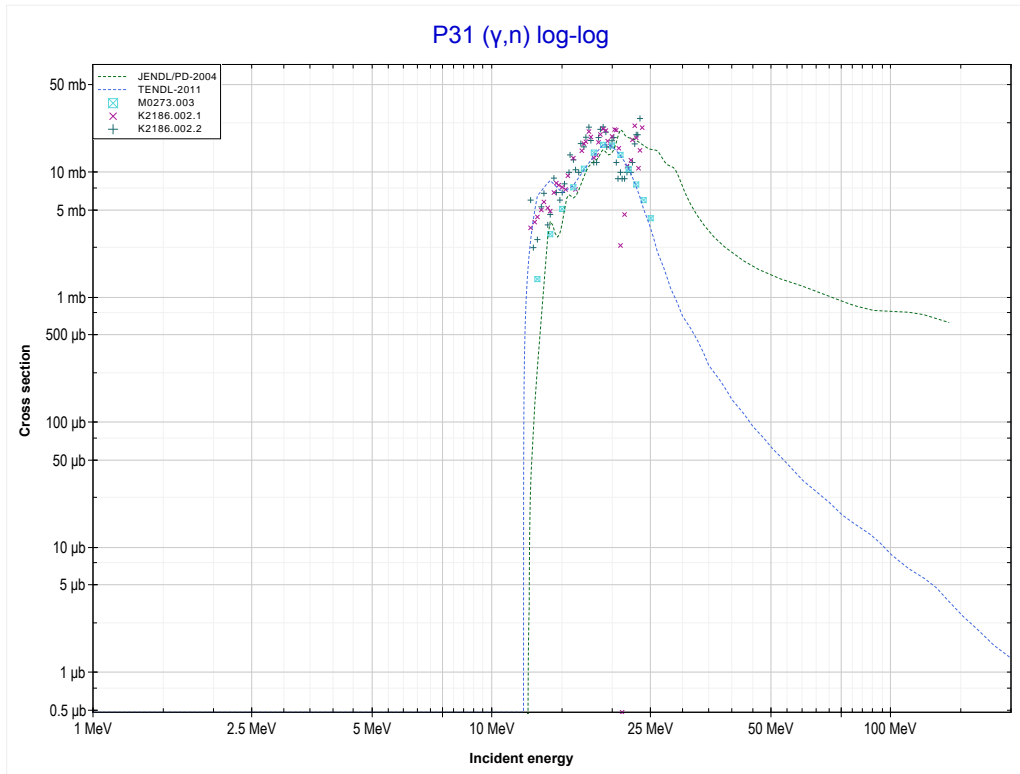
Reaction	Q-Value
Si30(γ,d)Al28	-20718.21 keV
Si30($\gamma,n+p$)Al28	-22942.78 keV

<< 13-Al-27	14-Si-30	18-Ar-40 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Al27 production)	MT4 (γ, n) >>



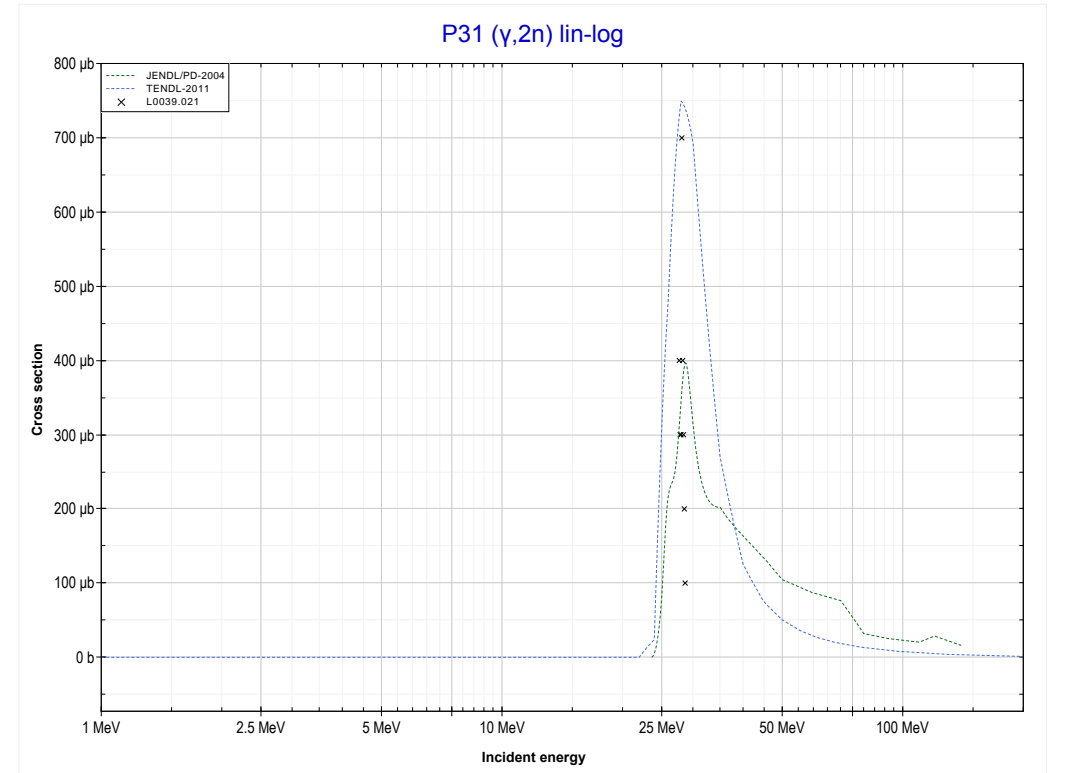
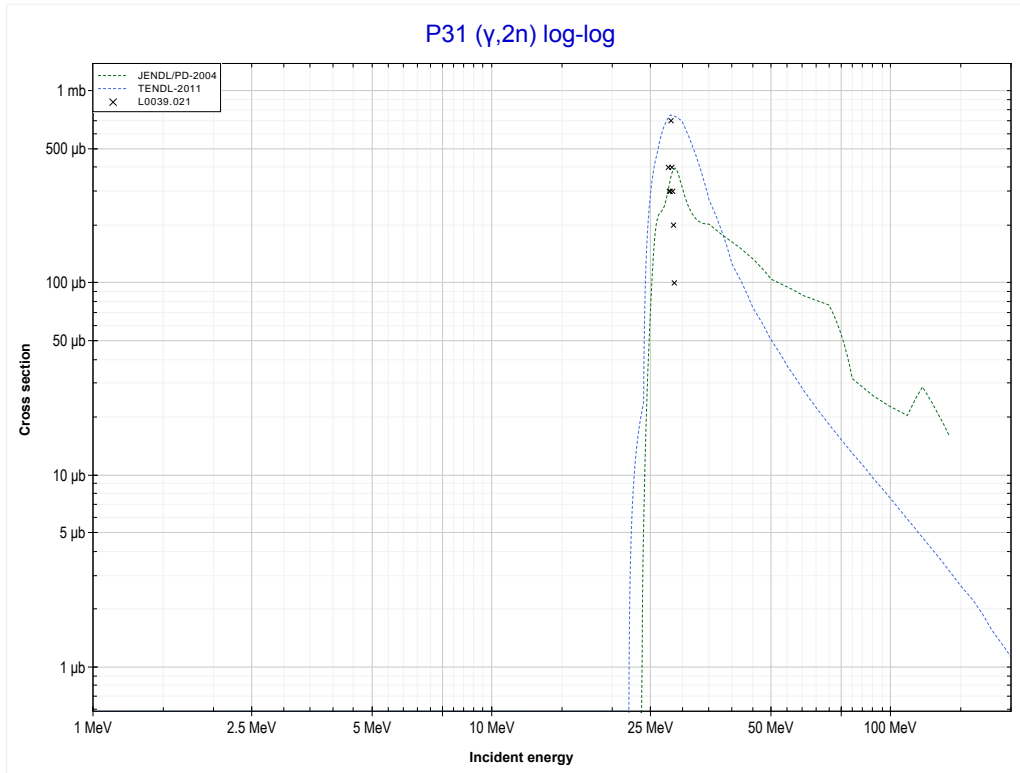
Reaction	Q-Value
Si30(γ, t)Al27	-22186.07 keV
Si30($\gamma, n+d$)Al27	-28443.31 keV
Si30($\gamma, 2n+p$)Al27	-30667.87 keV

<< 14-Si-30	15-P-31	16-S-32 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (P30 production)	MT16 ($\gamma,2n$) >>



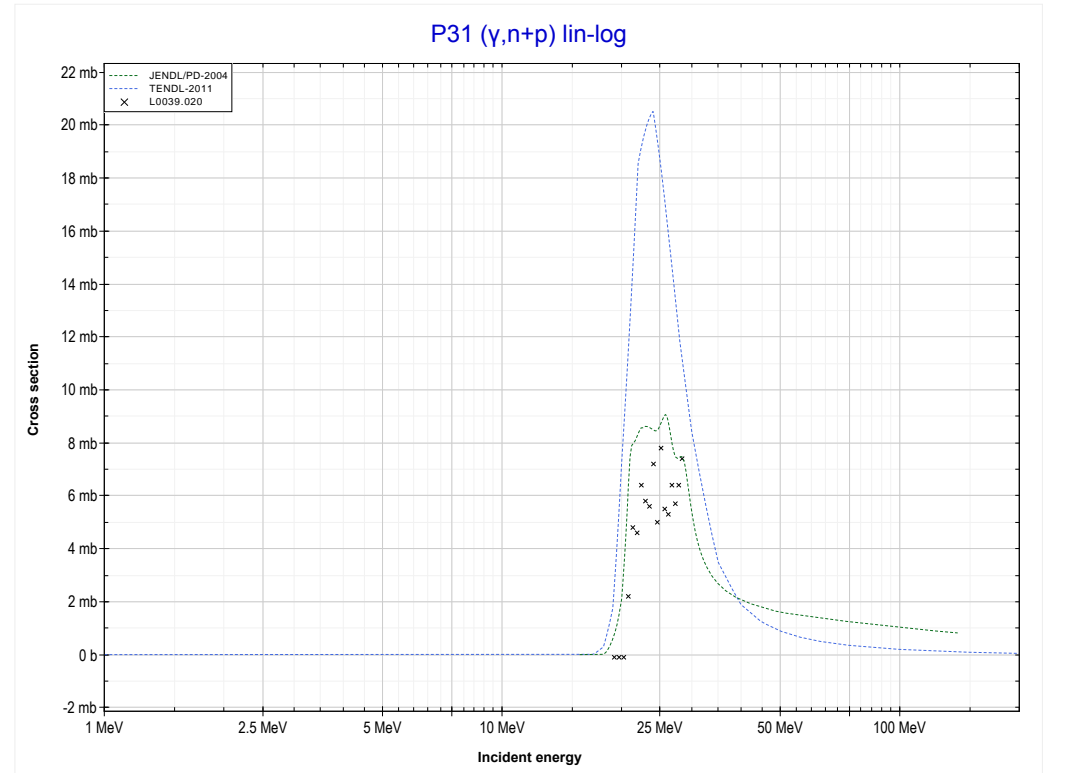
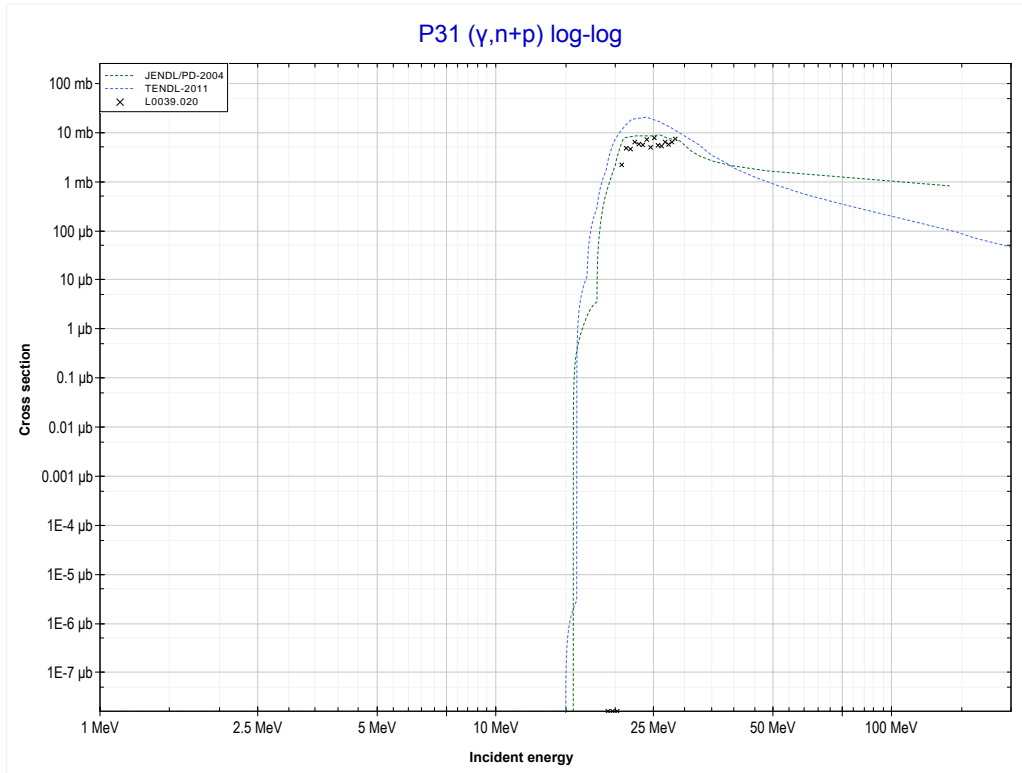
Reaction	Q-Value
P31(γ,n)P30	-12311.60 keV

<< 14-Si-30	15-P-31	16-S-32 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (P29 production)	MT28 ($\gamma,n+p$) >>



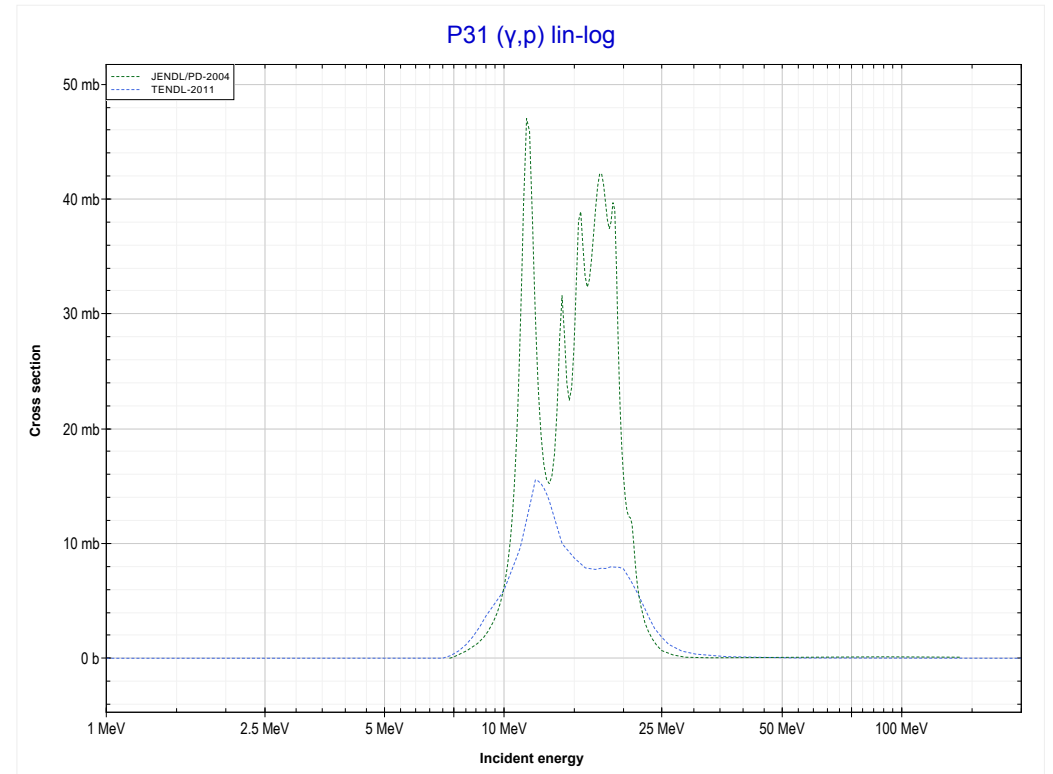
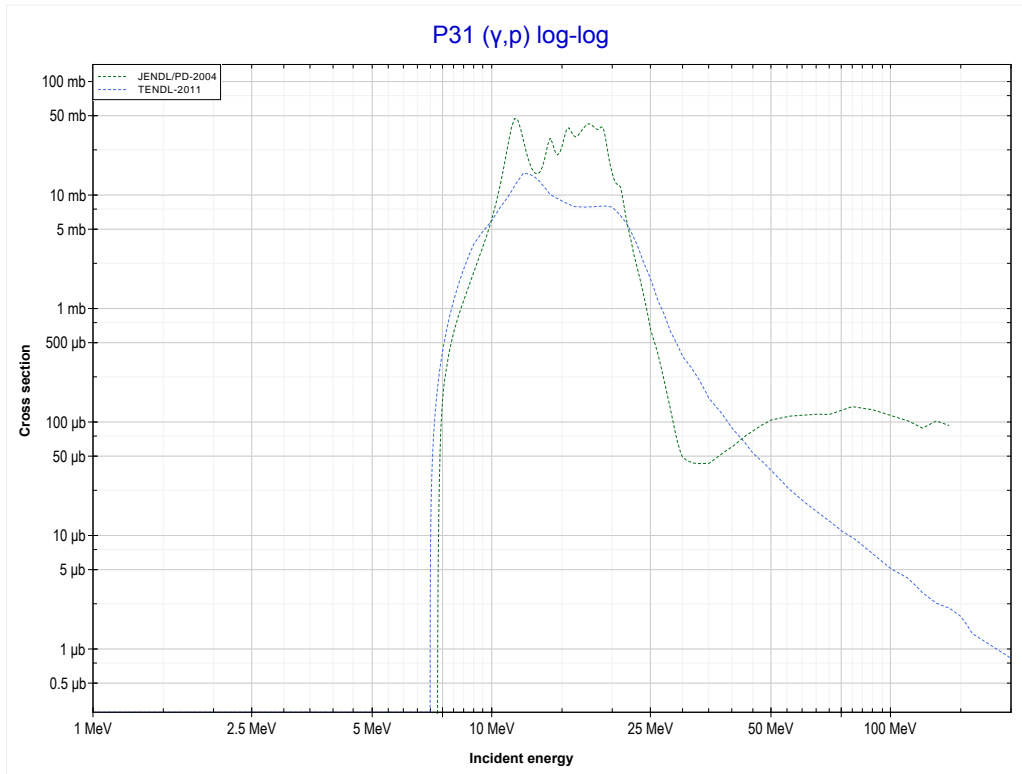
Reaction	Q-Value
P31($\gamma,2n$)P29	-23630.91 keV

<< 14-Si-30	15-P-31	16-S-32 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Si29 production)	MT103 (γ,p) >>



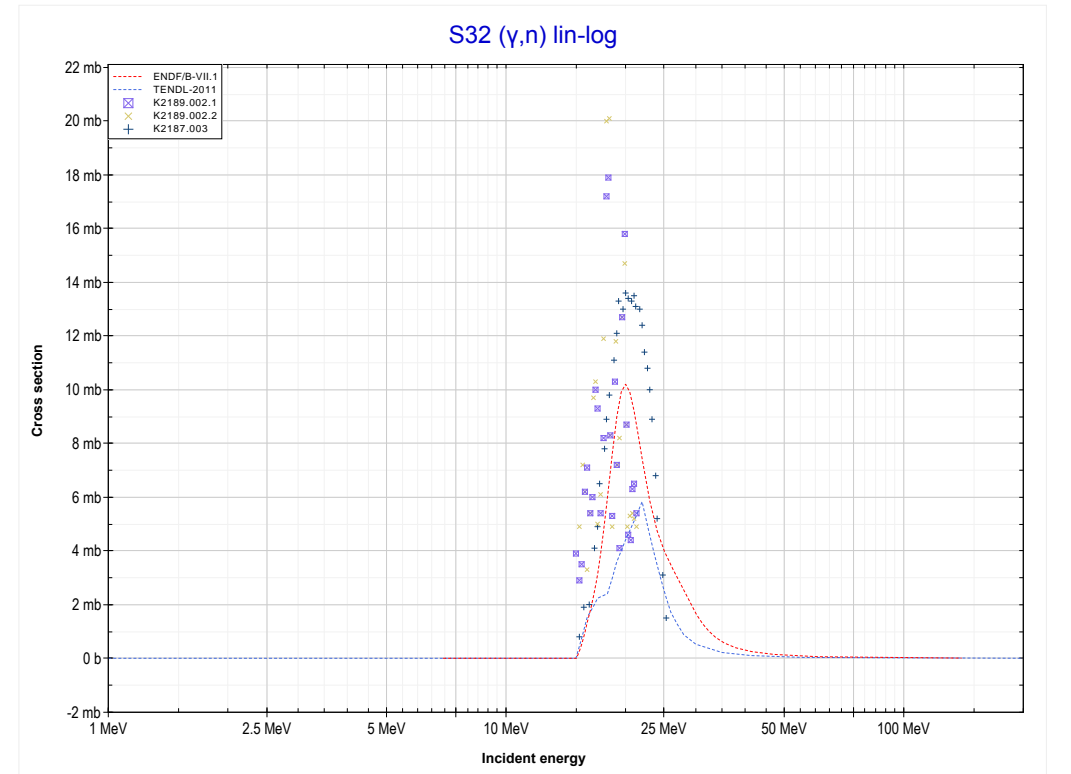
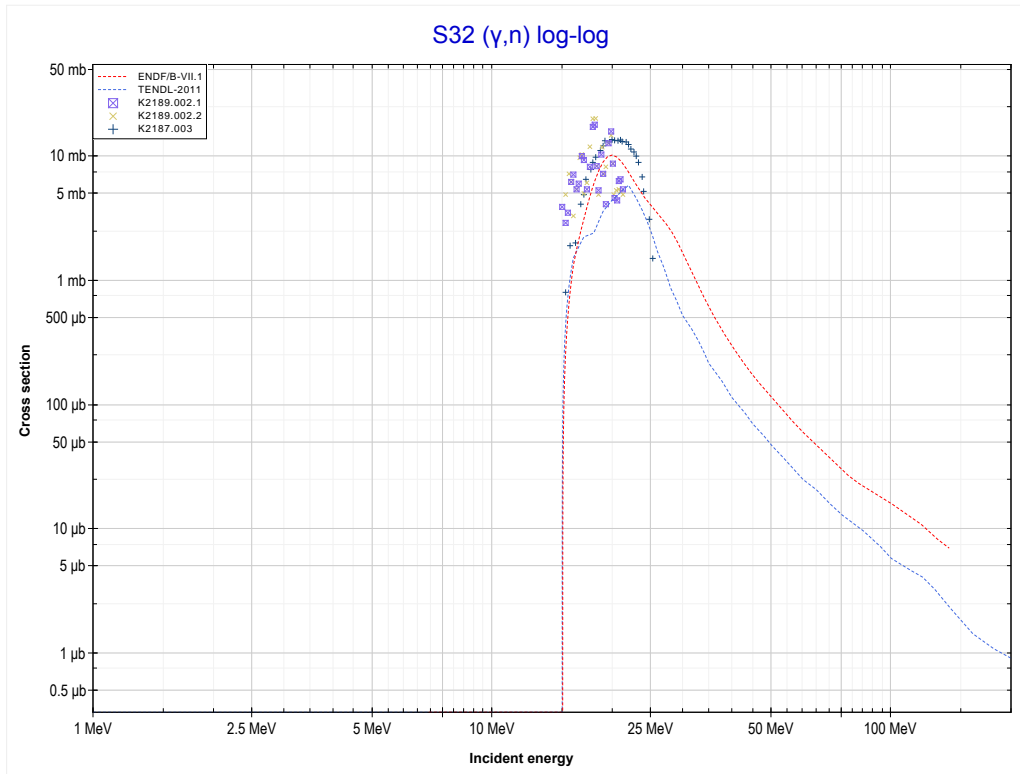
Reaction	Q-Value
P31(γ,d)Si29	-15681.56 keV
P31($\gamma,n+p$)Si29	-17906.12 keV

<< 14-Si-28	15-P-31	16-S-32 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (Si30 production)	MT4 (γ, n) >>



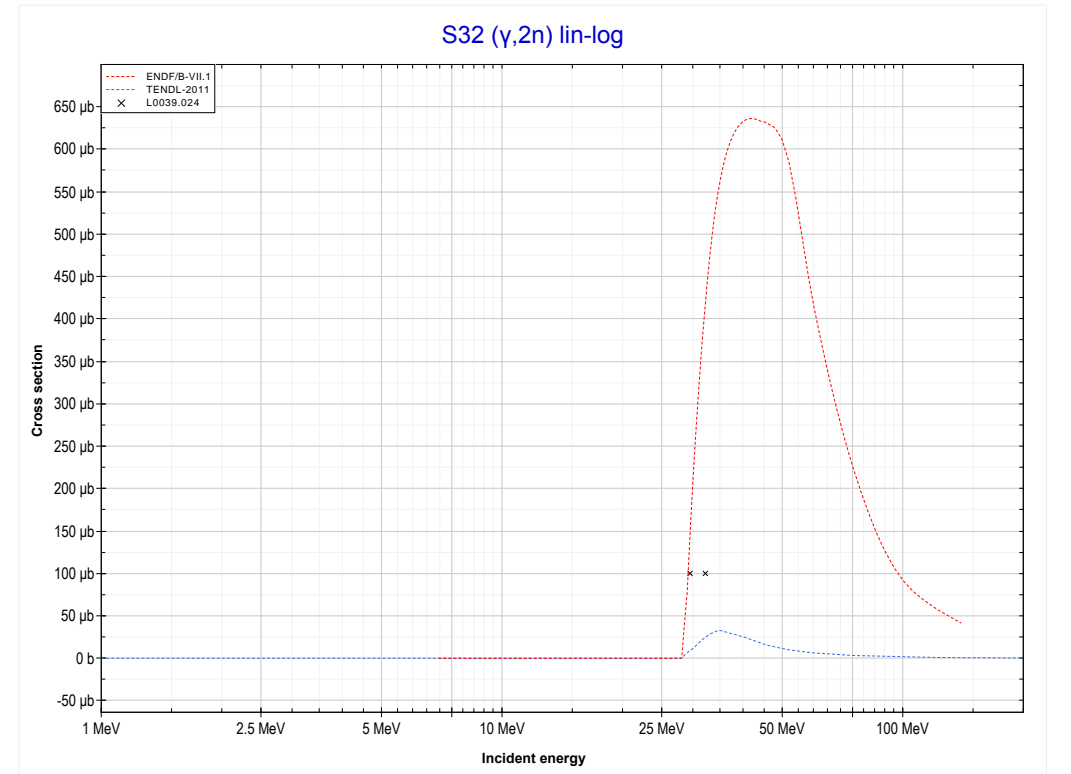
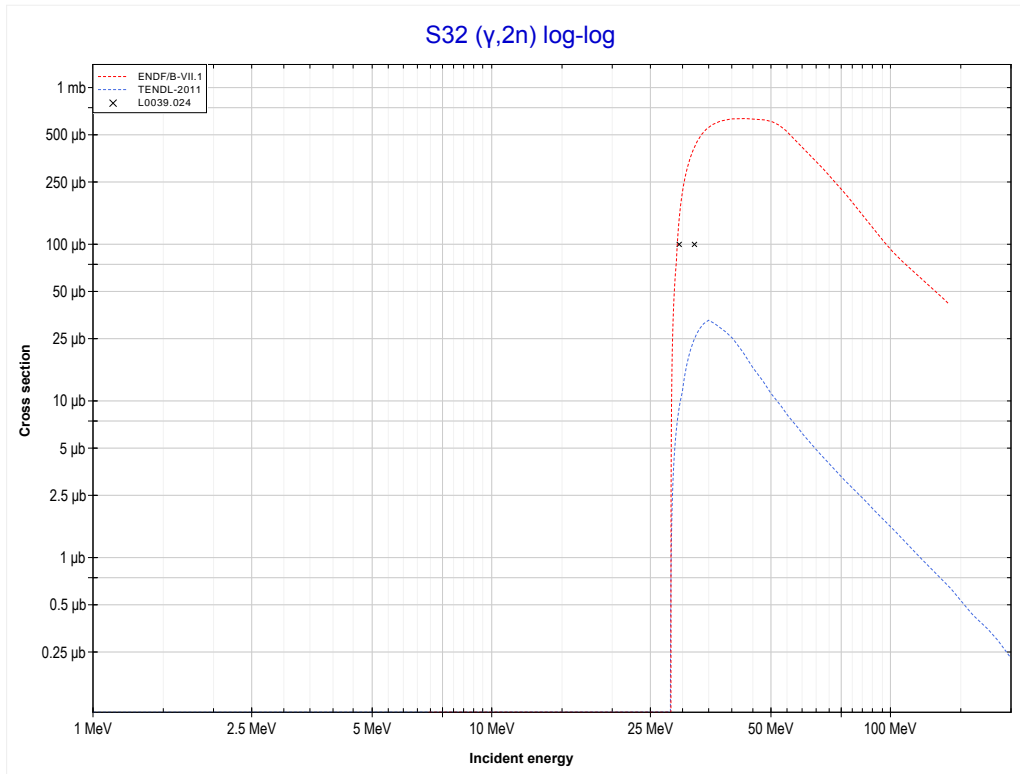
Reaction	Q-Value
P31(γ, p)Si30	-7296.92 keV

<< 15-P-31	16-S-32	17-CI-35 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (S31 production)	MT16 ($\gamma,2n$) >>



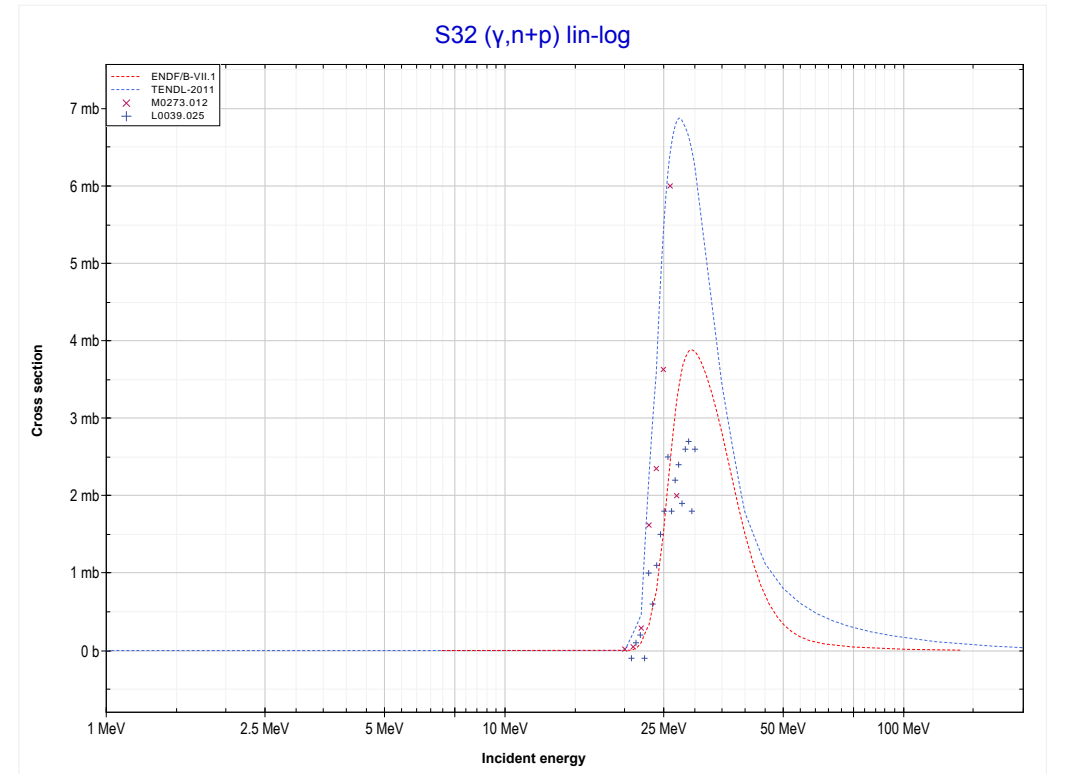
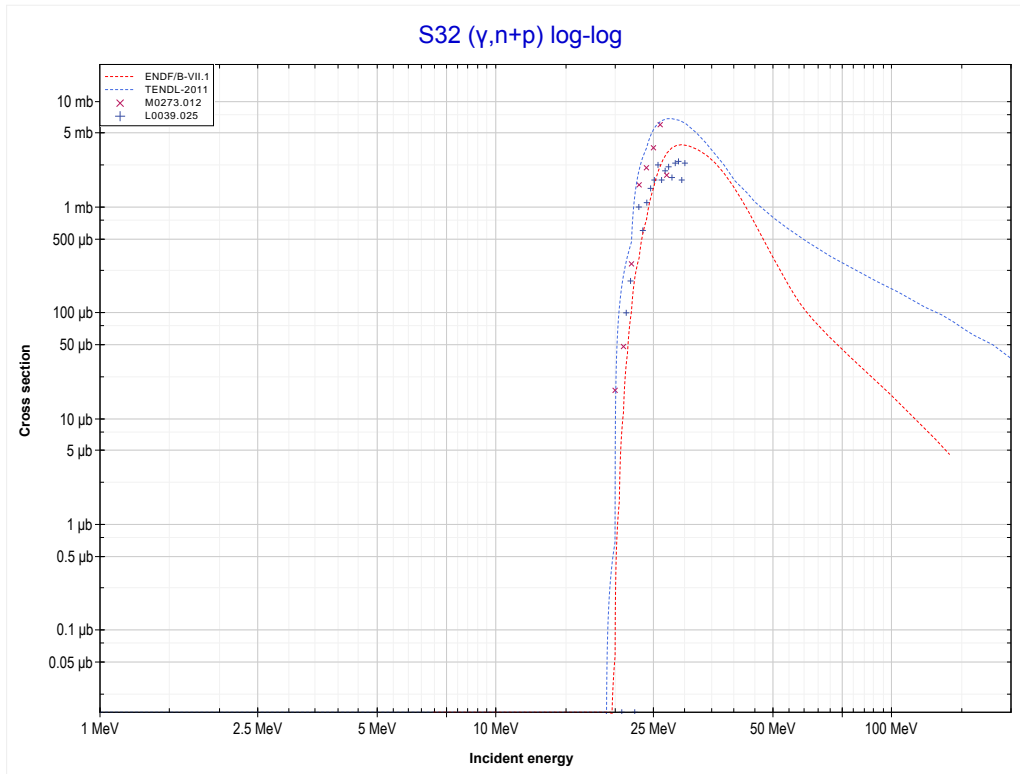
Reaction	Q-Value
S32(γ,n)S31	-15042.42 keV

<< 15-P-31	16-S-32	16-S-34 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (S30 production)	MT28 ($\gamma,n+p$) >>



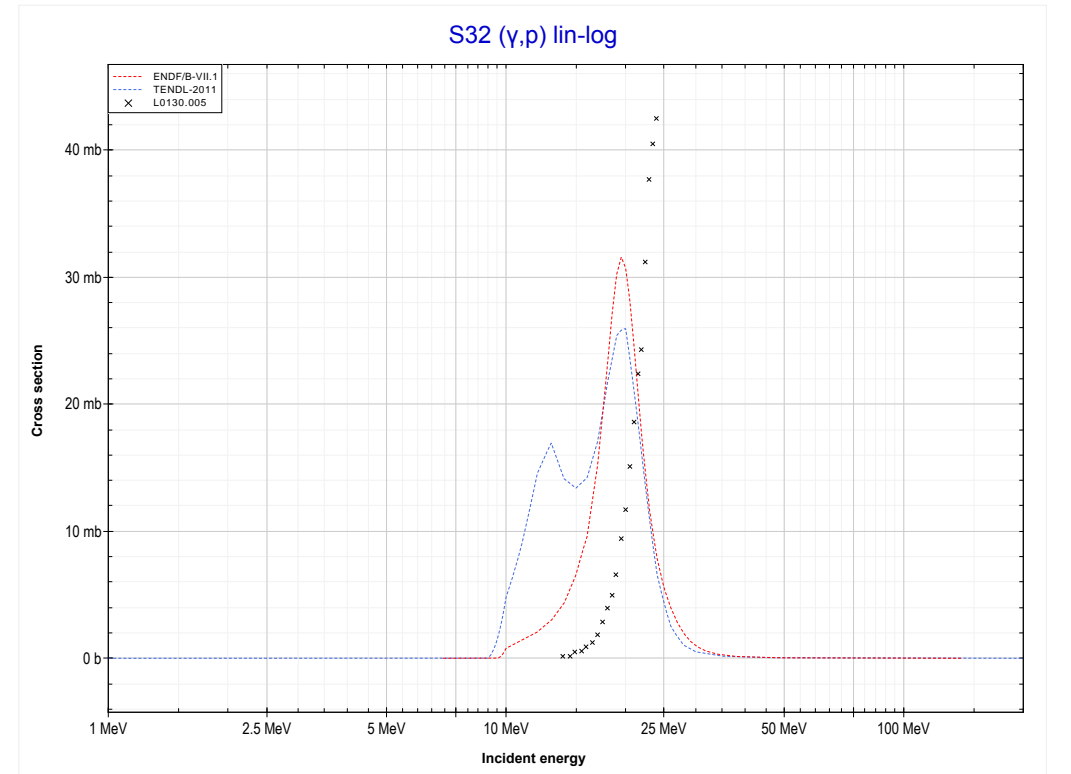
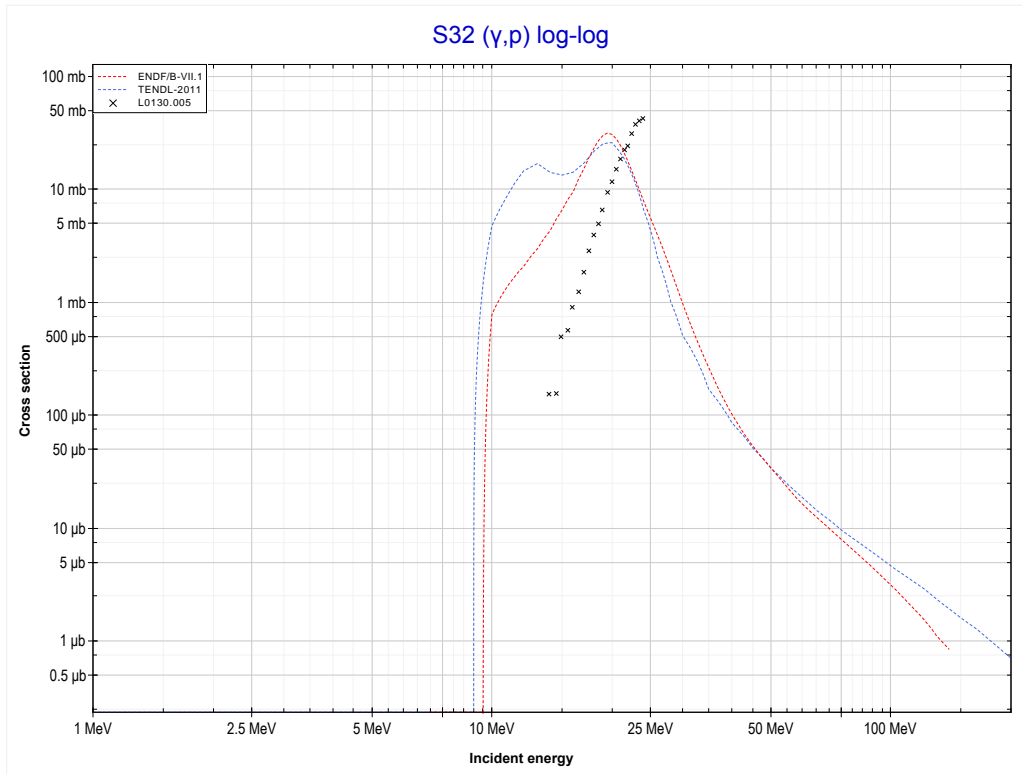
Reaction	Q-Value
S32($\gamma,2n$)S30	-28095.33 keV

<< 15-P-31	16-S-32	16-S-34 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (P30 production)	MT103 (γ,p) >>



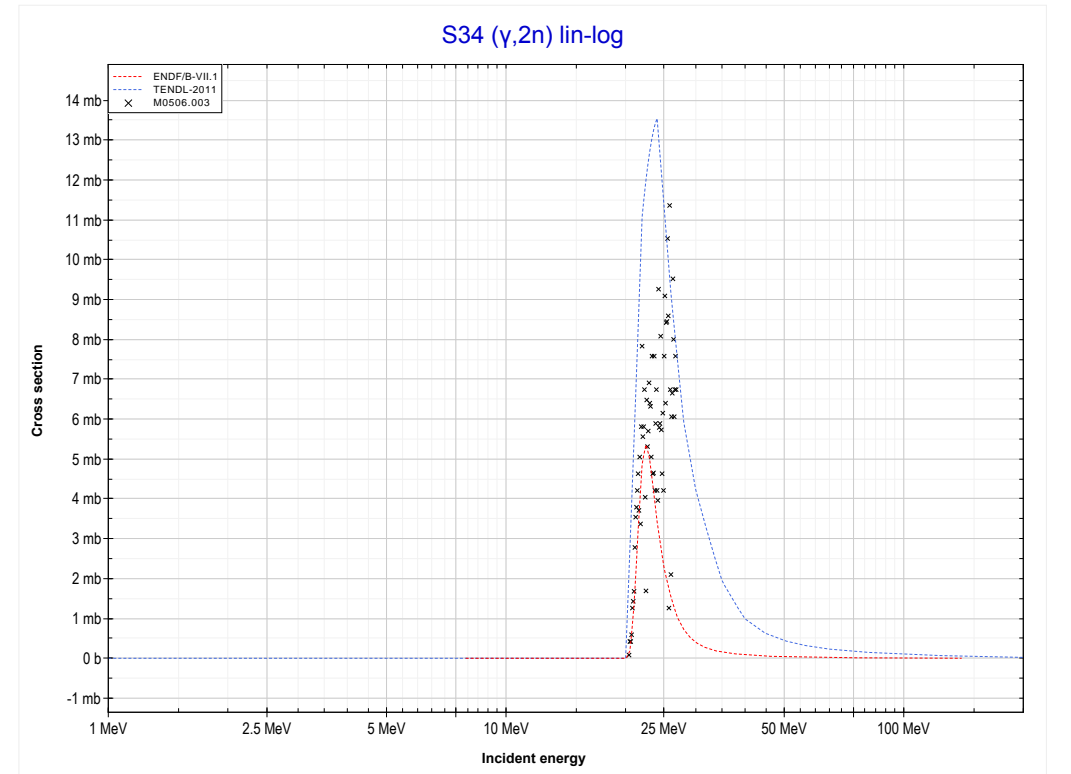
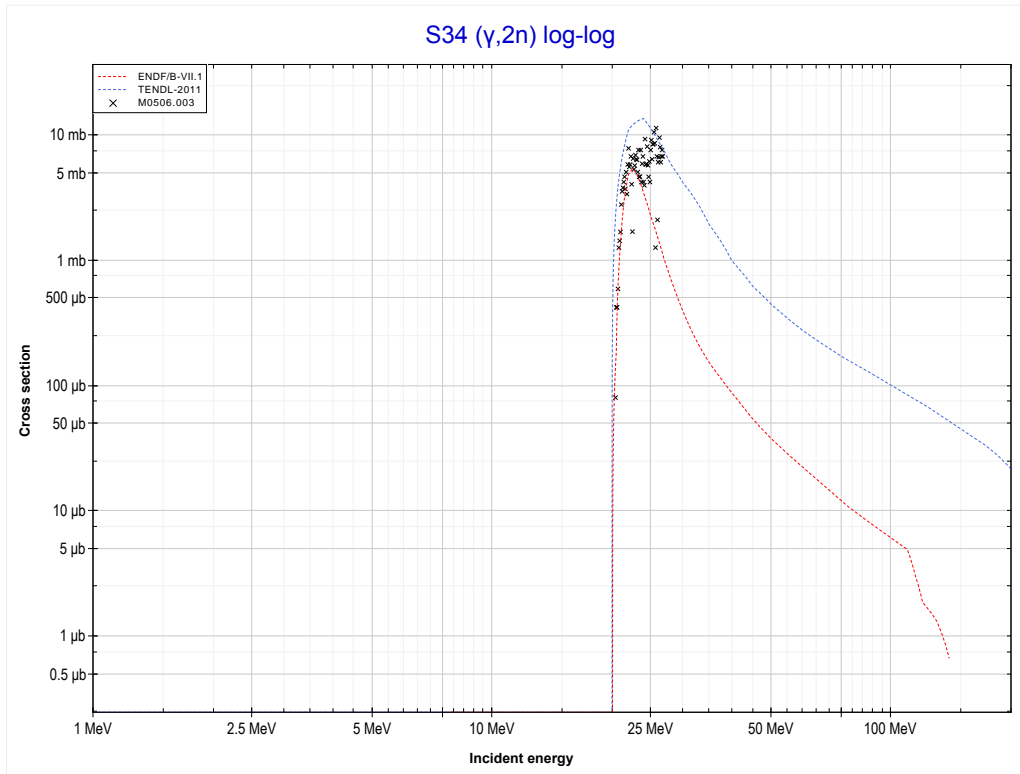
Reaction	Q-Value
S32(γ,d)P30	-18950.82 keV
S32($\gamma,n+p$)P30	-21175.39 keV

<< 15-P-31	16-S-32	16-S-34 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (P31 production)	MT16 ($\gamma, 2n$) >>



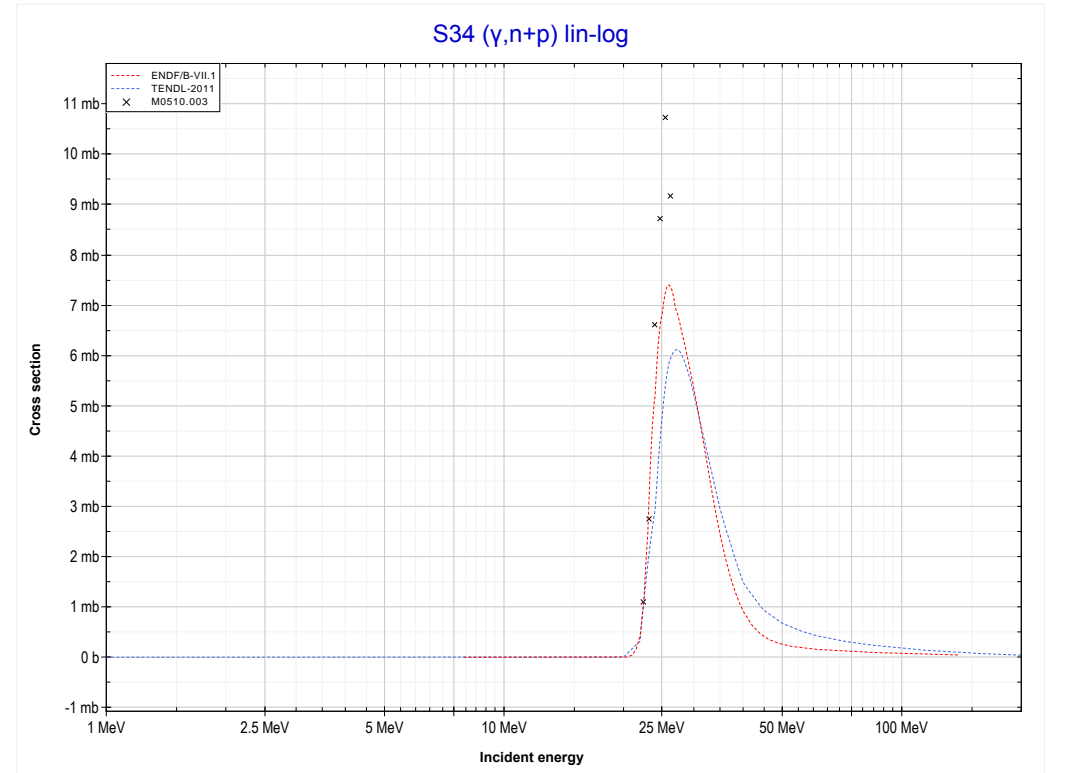
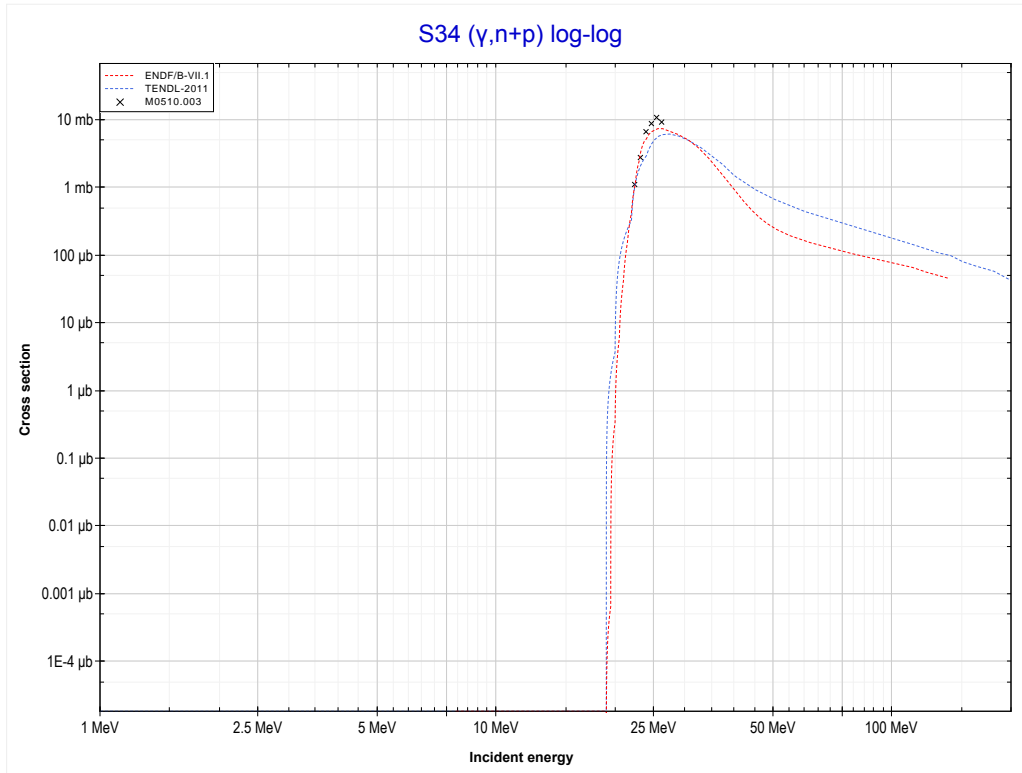
Reaction	Q-Value
S32(γ, p)P31	-8863.79 keV

<< 16-S-32	16-S-34	18-Ar-40 >>
<< MT103 (γ, p)	MT16 ($\gamma, 2n$) or MT5 (S32 production)	MT28 ($\gamma, n+p$) >>



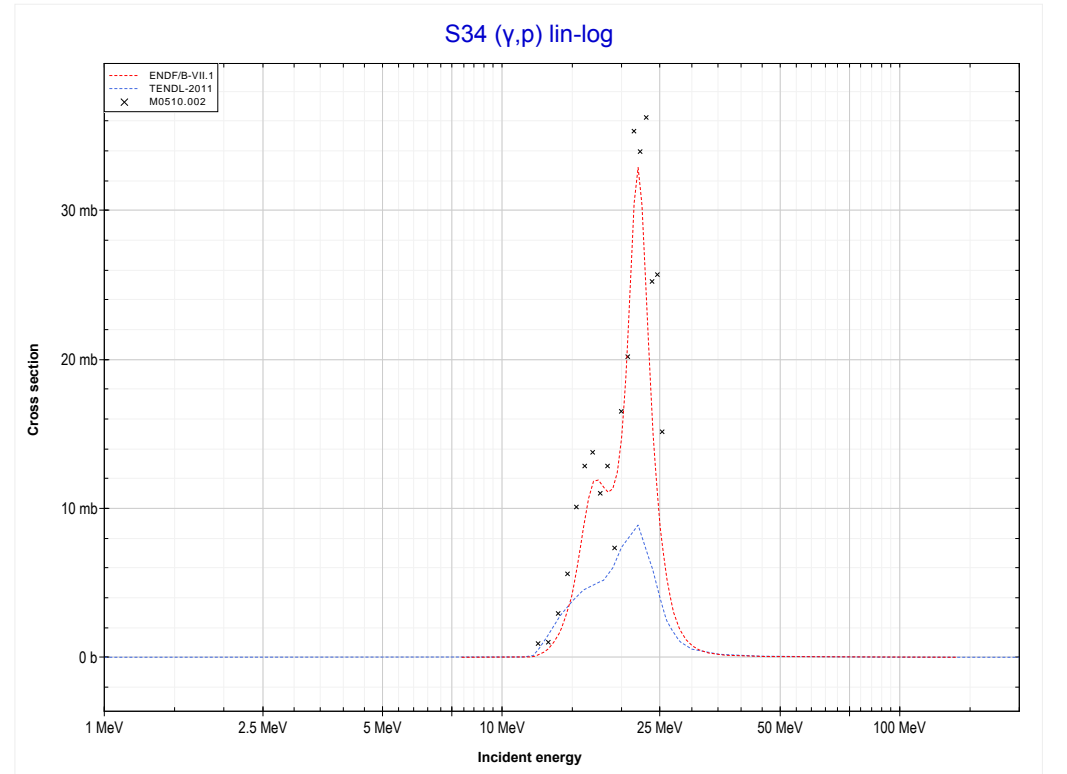
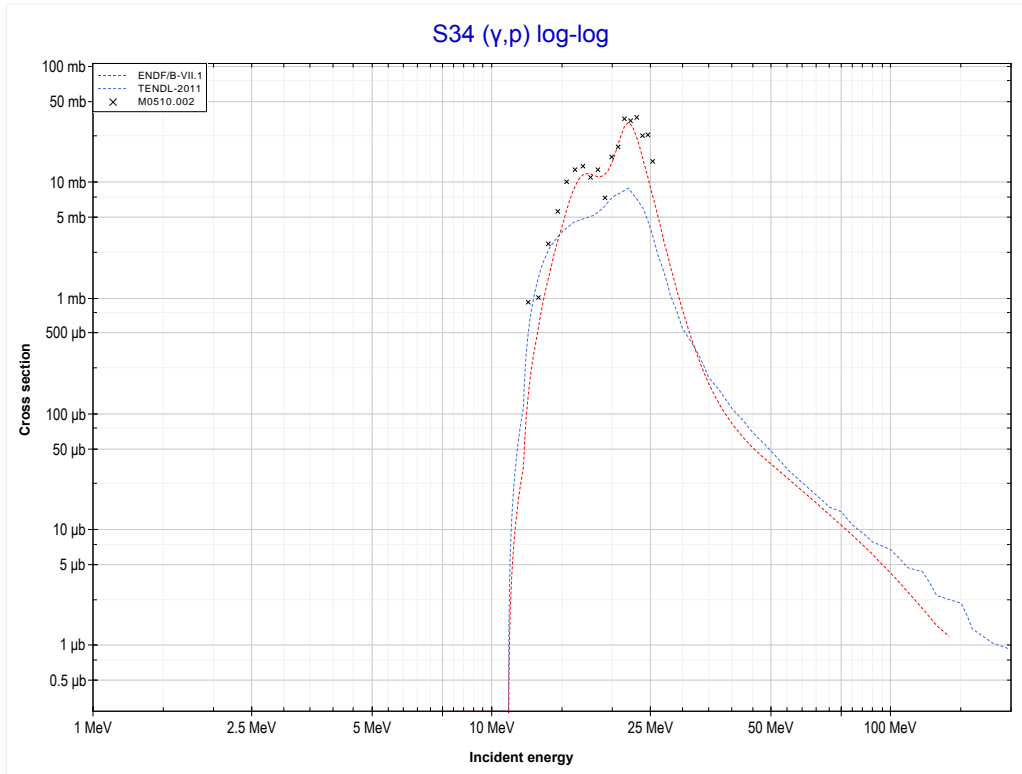
Reaction	Q-Value
S34($\gamma, 2n$)S32	-20058.72 keV

<< 16-S-32	16-S-34	18-Ar-40 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (P32 production)	MT103 (γ,p) >>



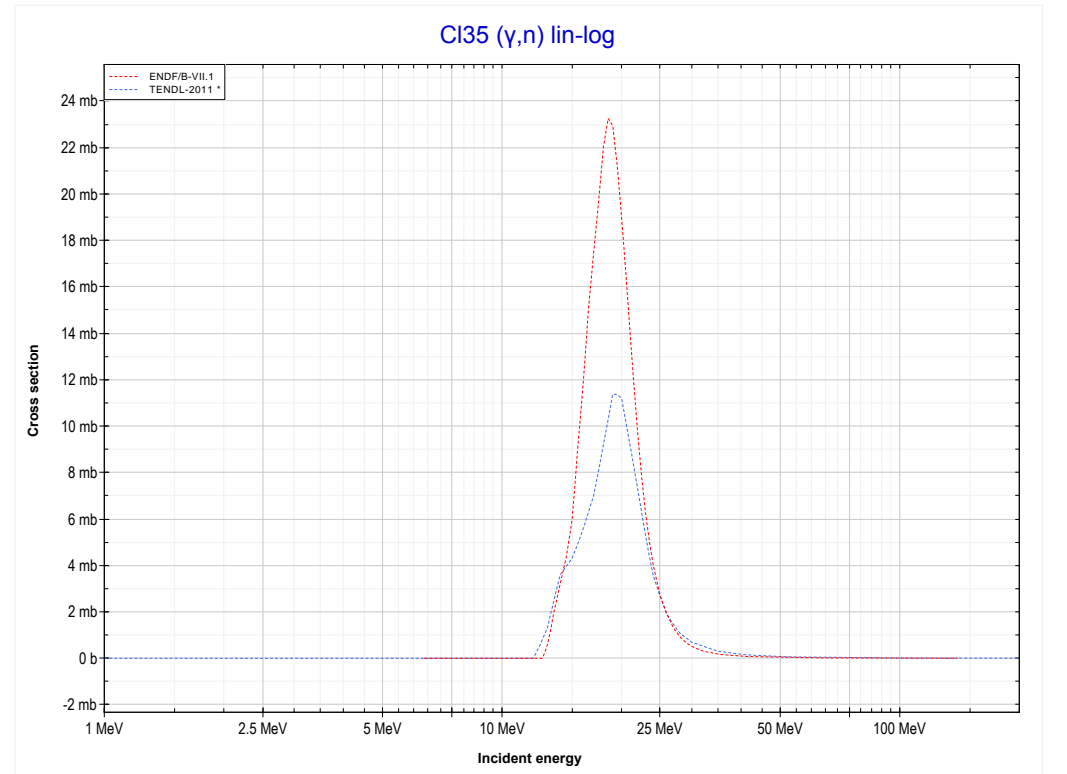
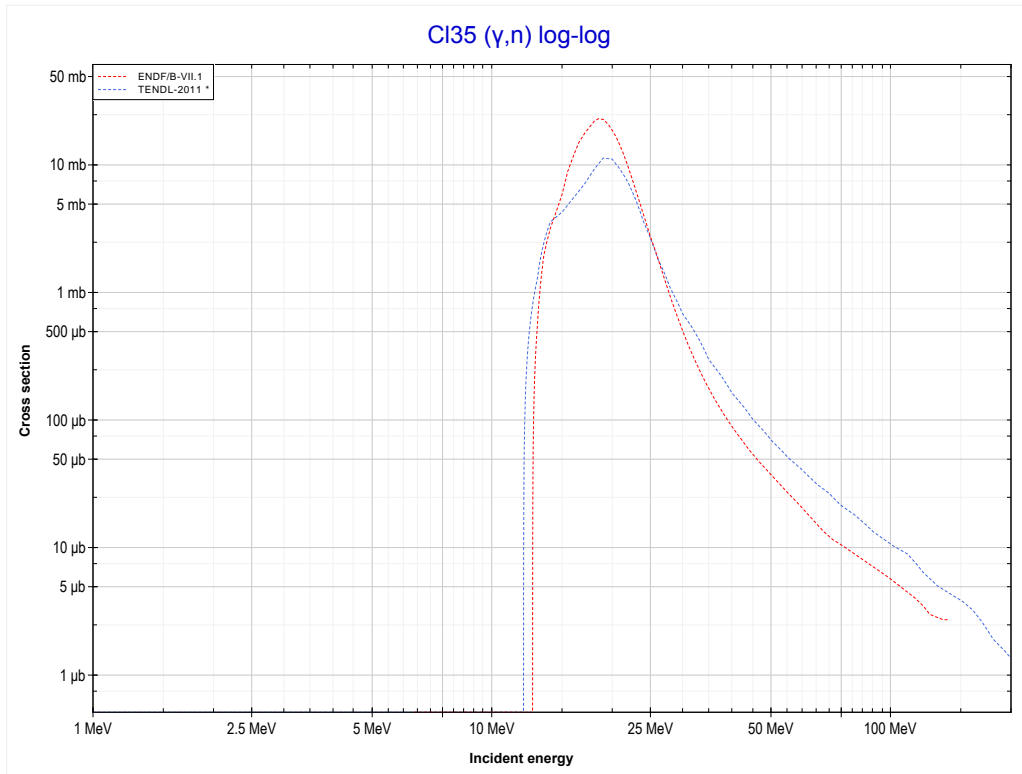
Reaction	Q-Value
S34(γ,d)P32	-18762.29 keV
S34($\gamma,n+p$)P32	-20986.86 keV

<< 16-S-32	16-S-34	20-Ca-40 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (P33 production)	MT4 (γ, n) >>



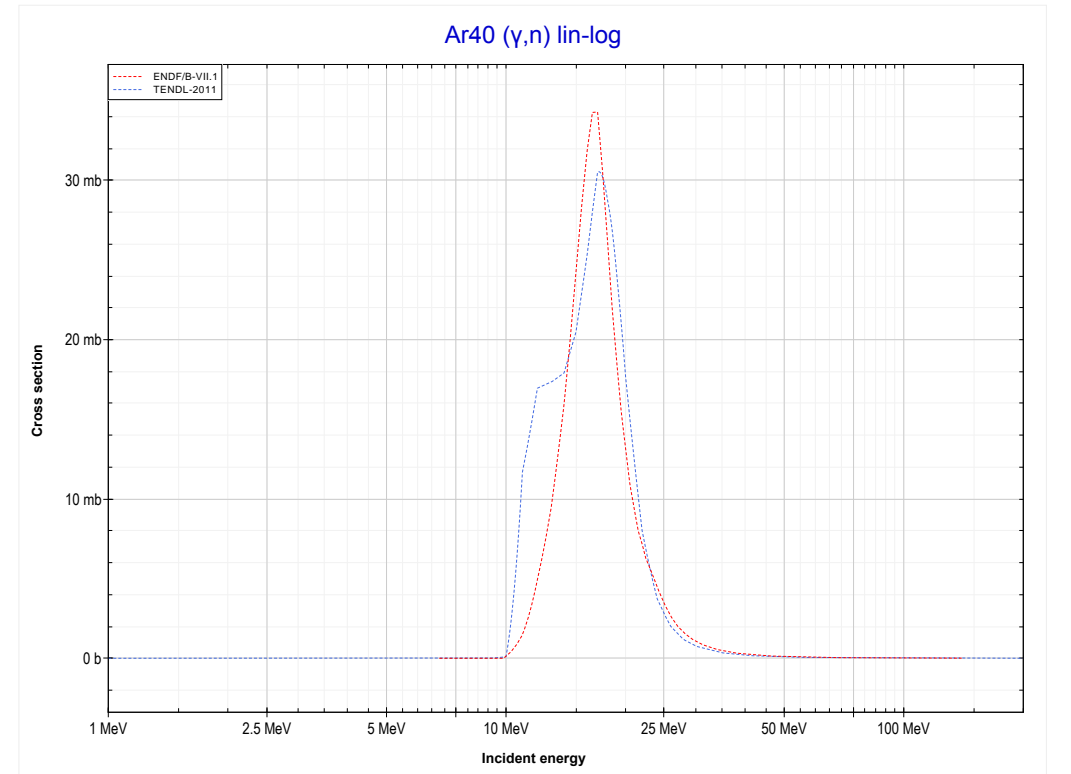
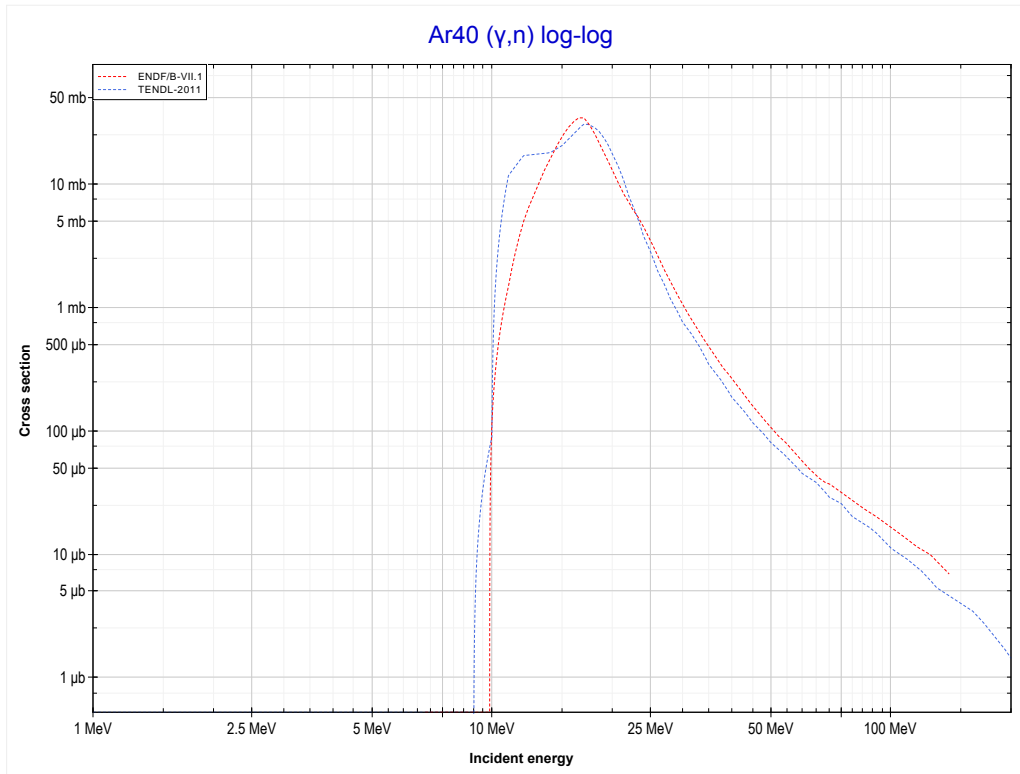
Reaction	Q-Value
S34(γ, p)P33	-10883.26 keV

<< 16-S-32	17-Cl-35	18-Ar-40 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Cl34 production)	MT4 (γ,n) >>



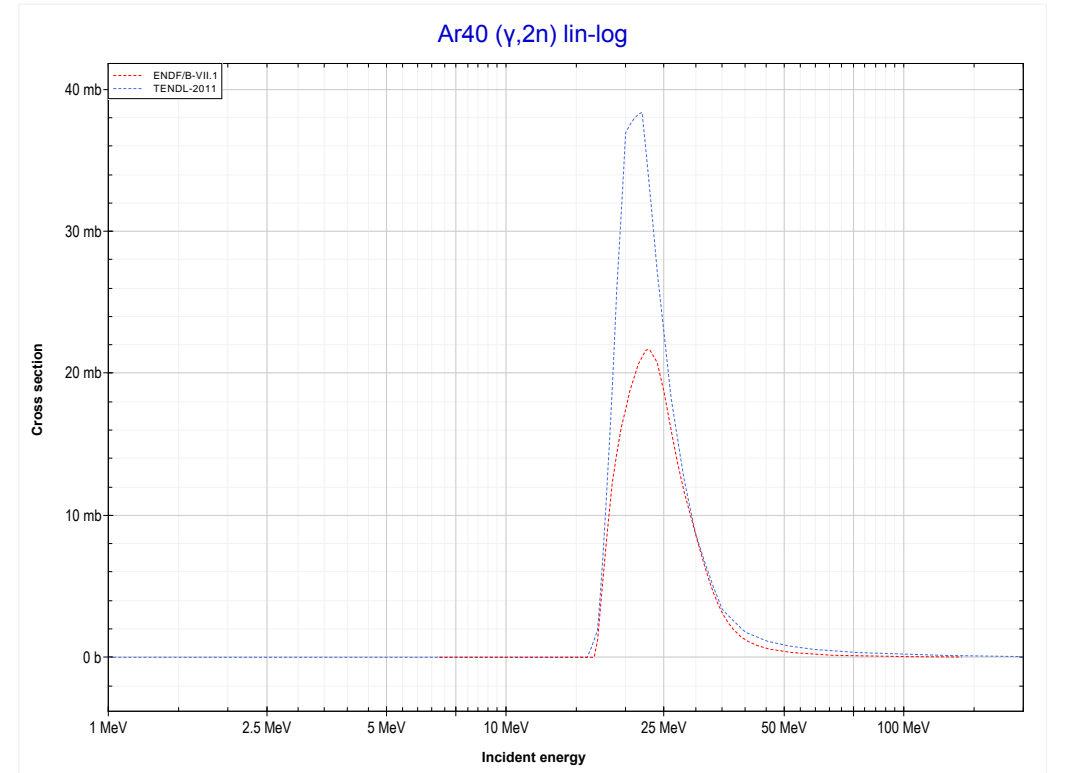
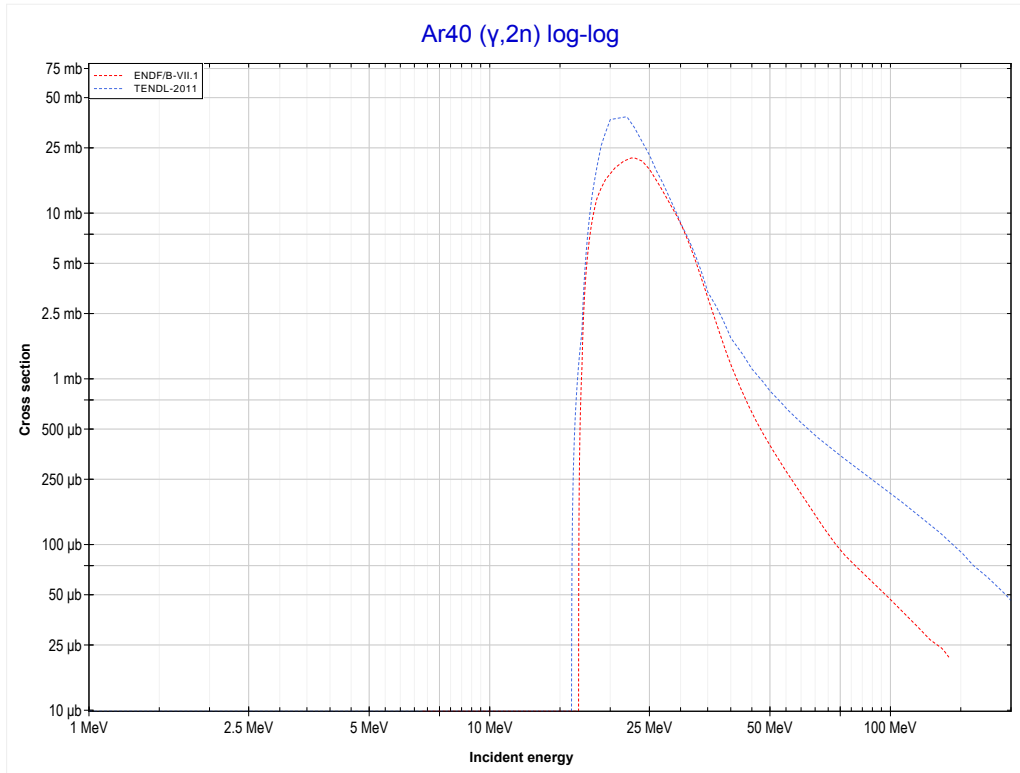
Reaction	Q-Value
Cl35(γ,n)Cl34	-12645.08 keV

<< 17-Cl-35	18-Ar-40	19-K-39 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ar39 production)	MT16 ($\gamma,2n$) >>



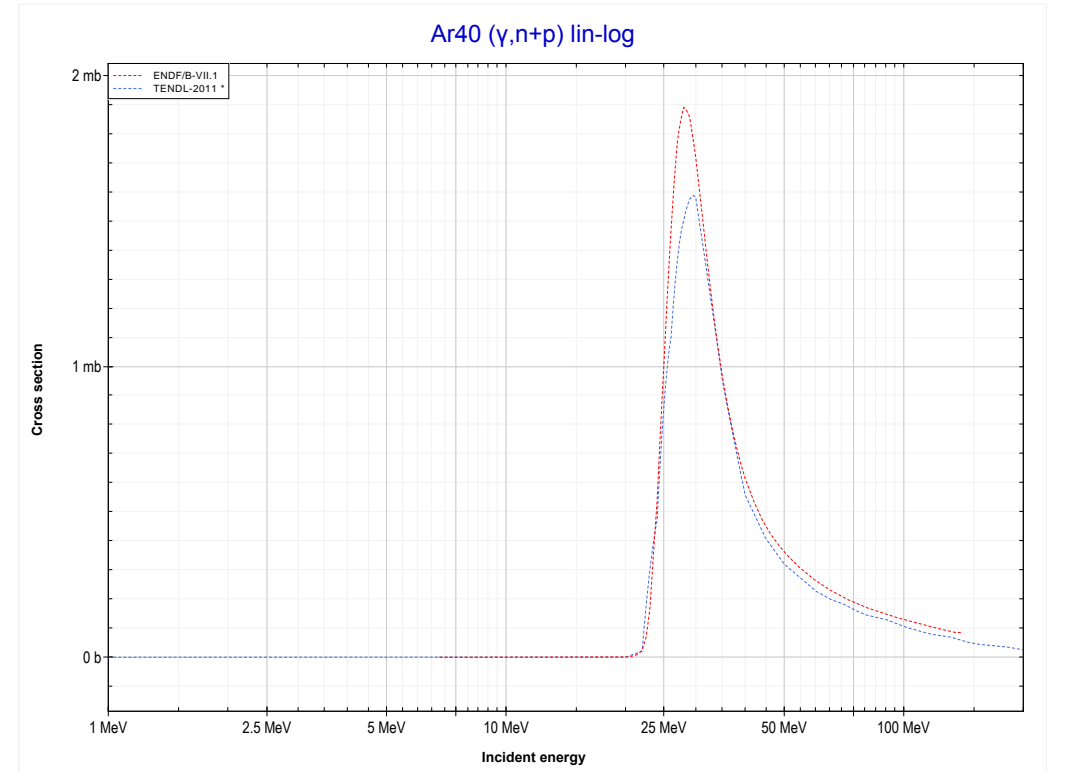
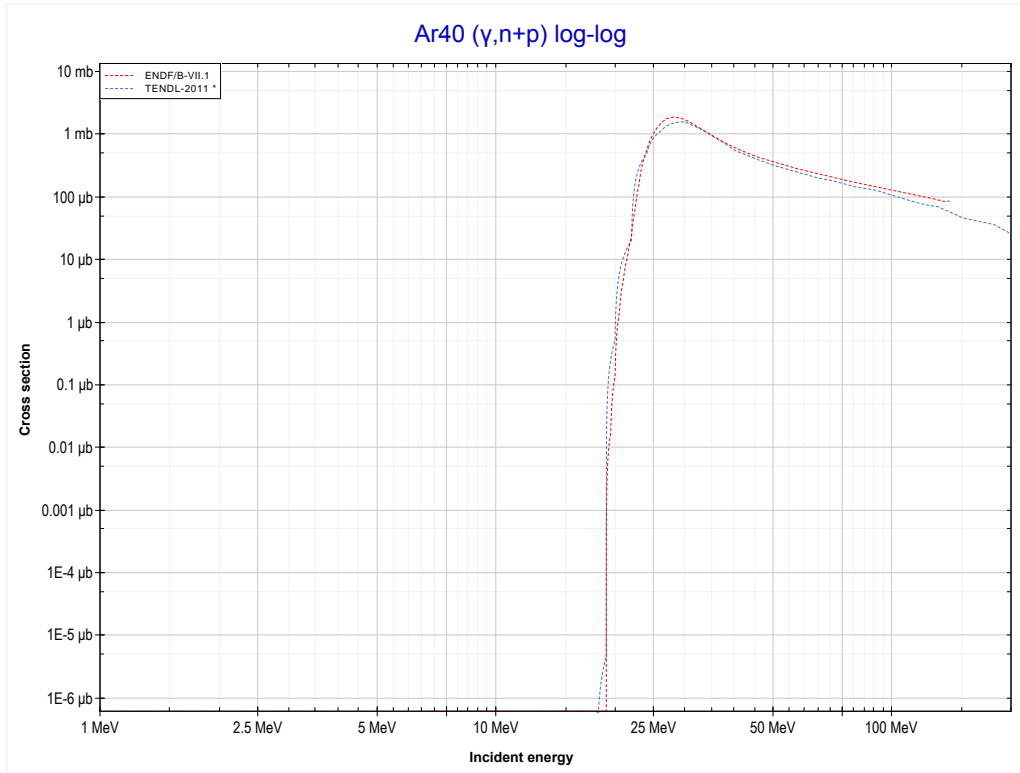
Reaction	Q-Value
Ar40(γ,n)Ar39	-9869.21 keV

<< 16-S-34	18-Ar-40	20-Ca-48 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Ar38 production)	MT28 ($\gamma, n+p$) >>



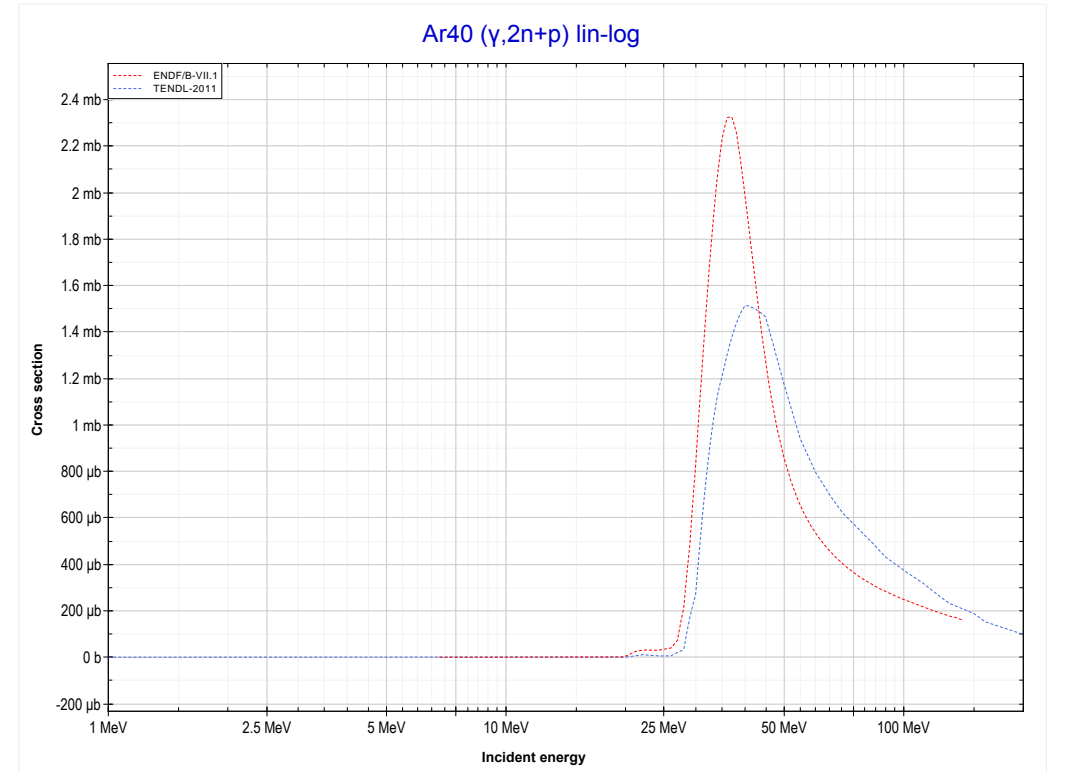
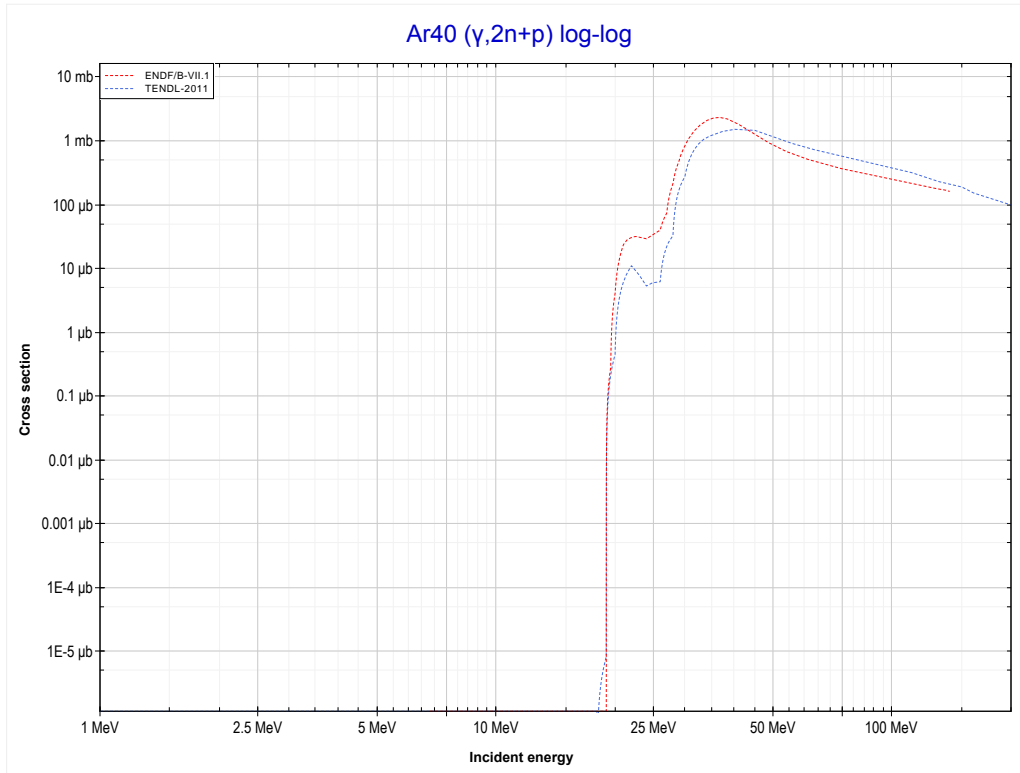
Reaction	Q-Value
Ar40($\gamma, 2n$)Ar38	-16467.93 keV

<< 16-S-34	18-Ar-40	20-Ca-40 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Cl38 production)	MT41 ($\gamma,2n+p$) >>



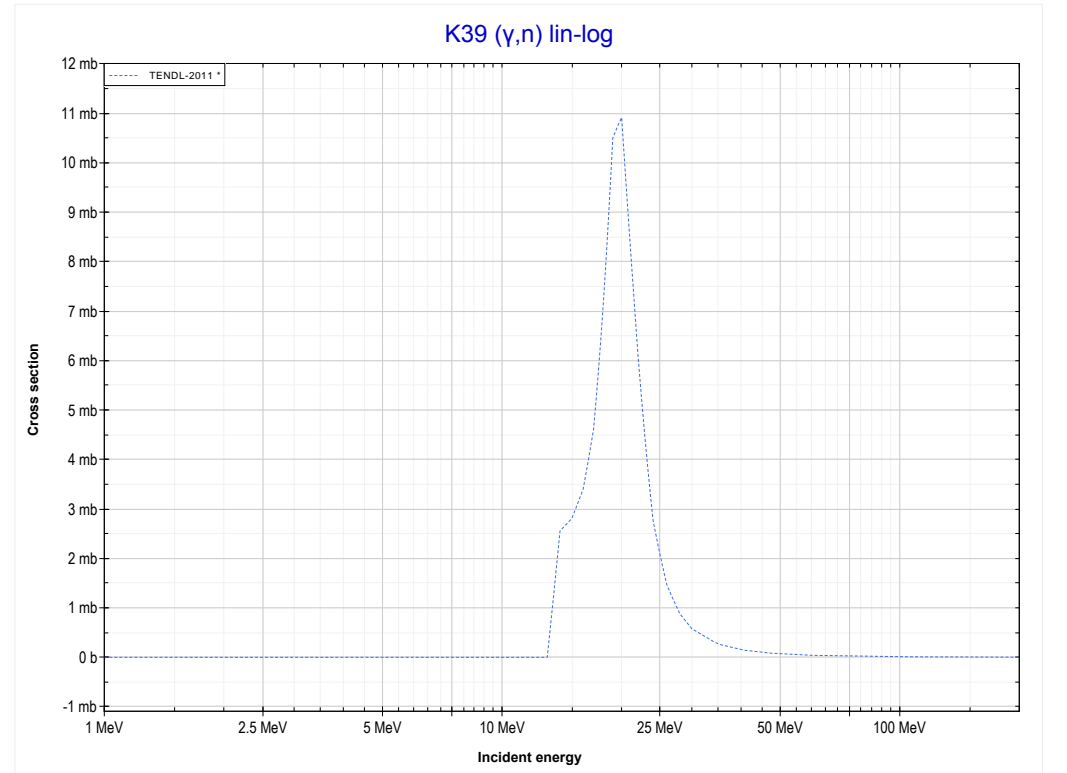
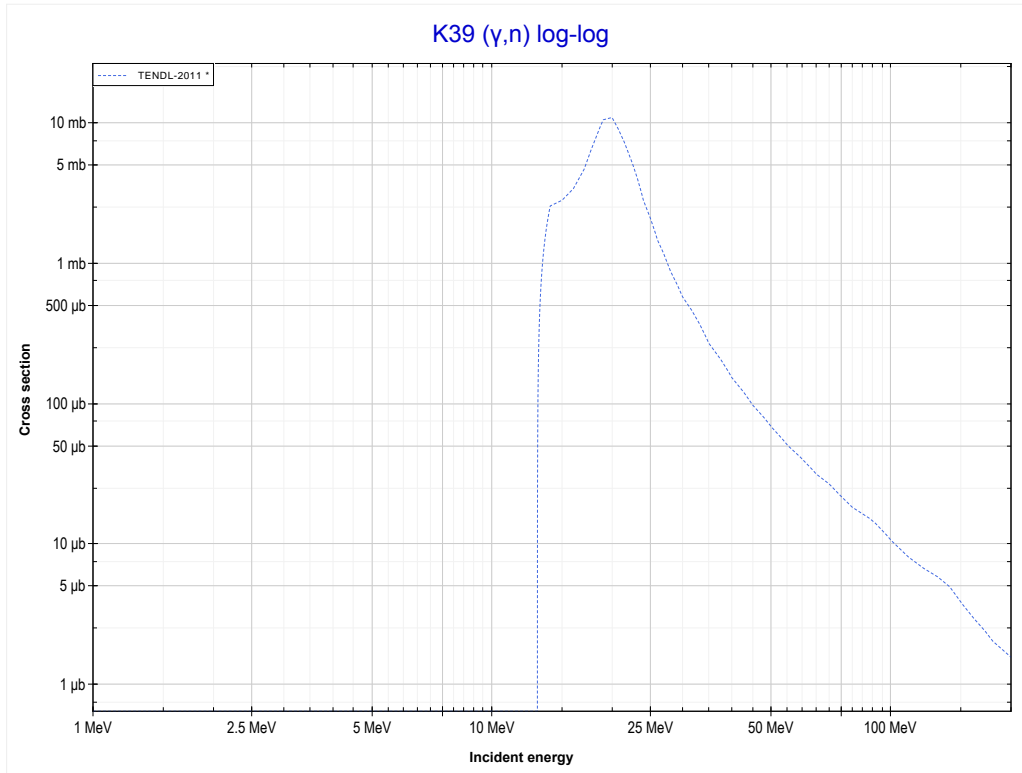
Reaction	Q-Value
Ar40(γ,d)Cl38	-18377.52 keV
Ar40($\gamma,n+p$)Cl38	-20602.08 keV

<< 14-Si-30	18-Ar-40	21-Sc-45 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Cl37 production)	MT4 (γ, n) >>



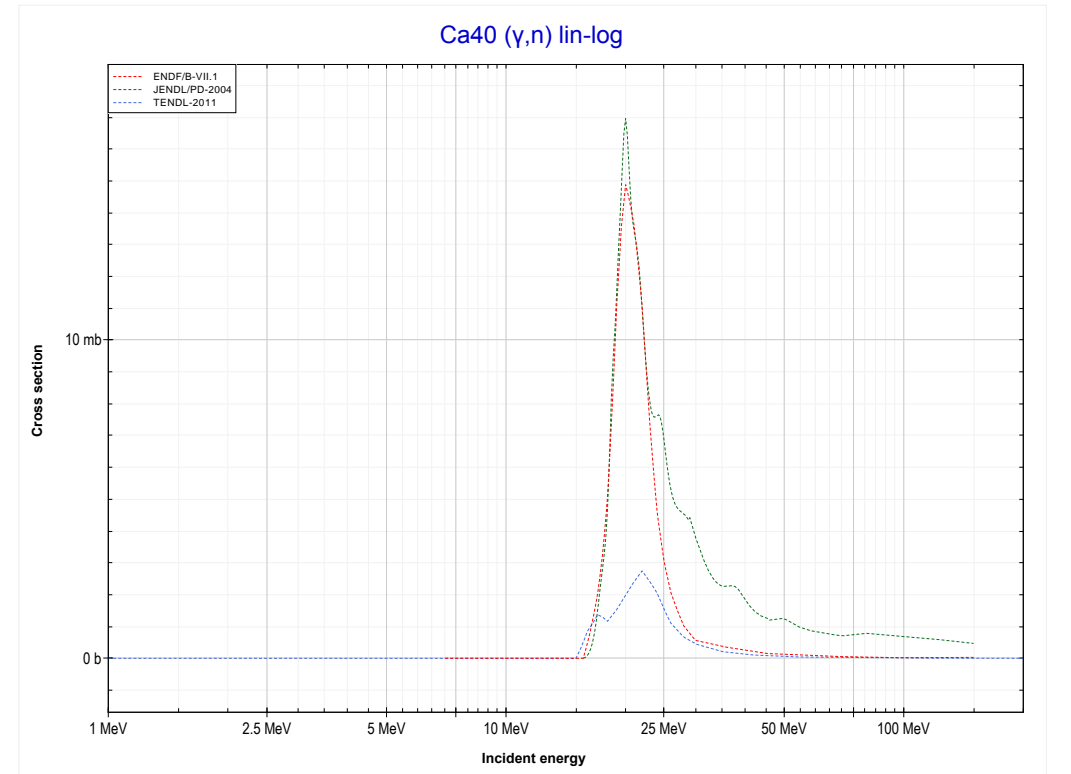
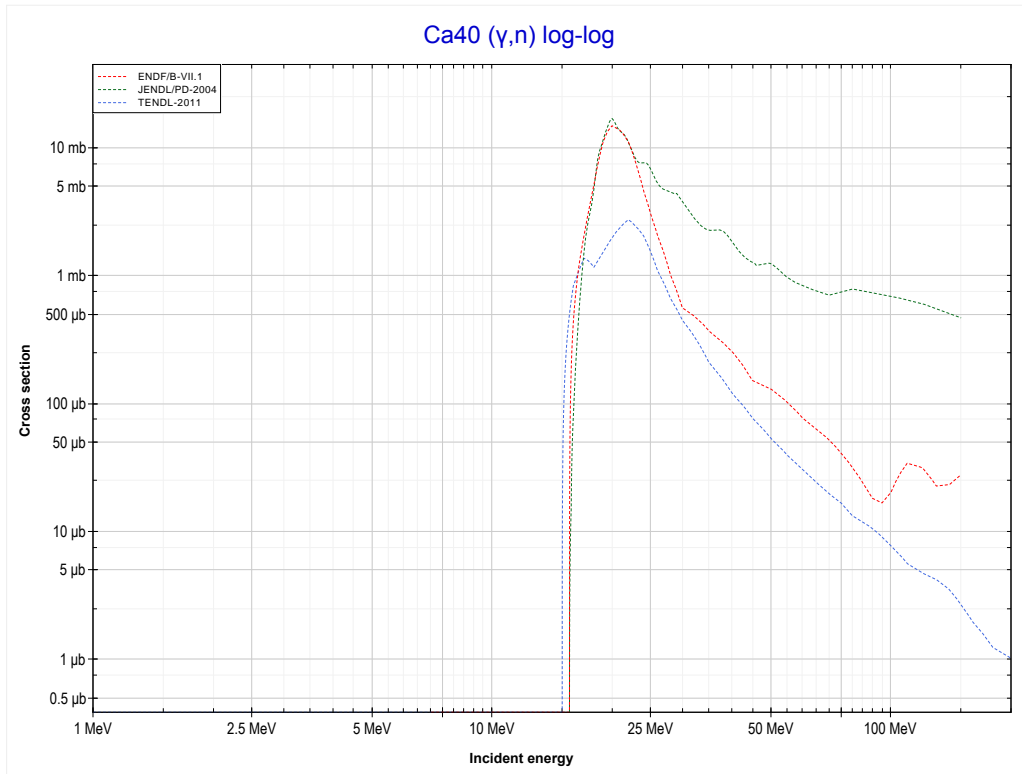
Reaction	Q-Value
Ar40(γ, t)Cl37	-18228.17 keV
Ar40($\gamma, n+d$)Cl37	-24485.40 keV
Ar40($\gamma, 2n+p$)Cl37	-26709.97 keV

<< 18-Ar-40	19-K-39	20-Ca-40 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (K38 production)	MT4 (γ,n) >>



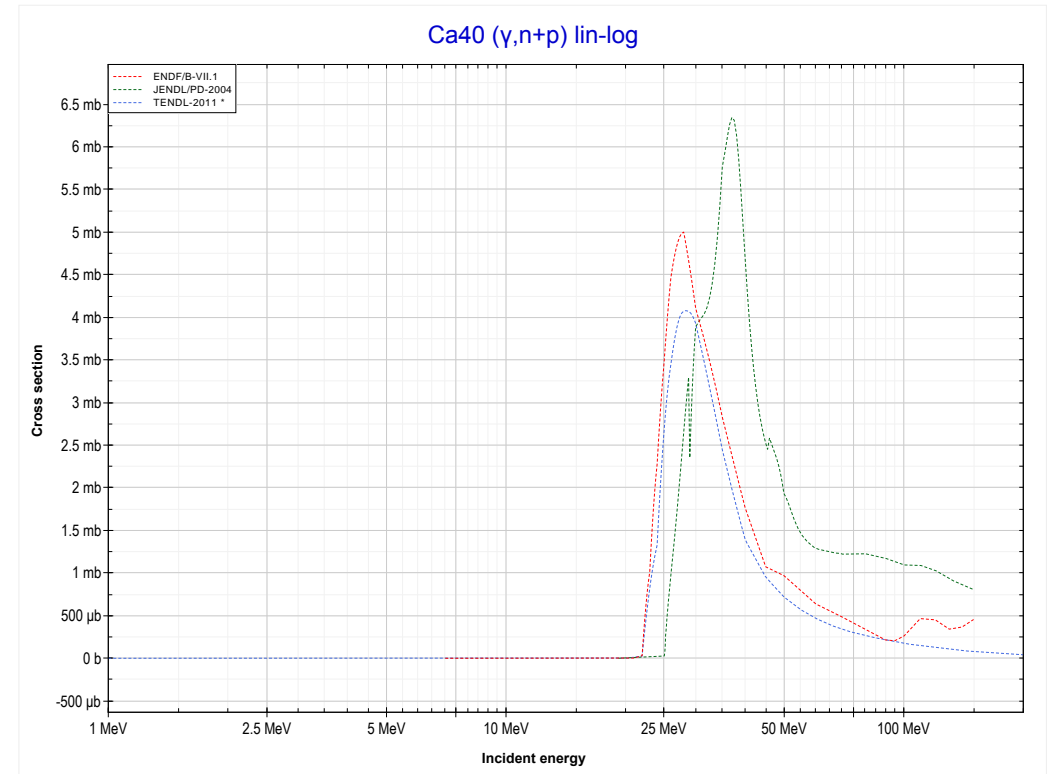
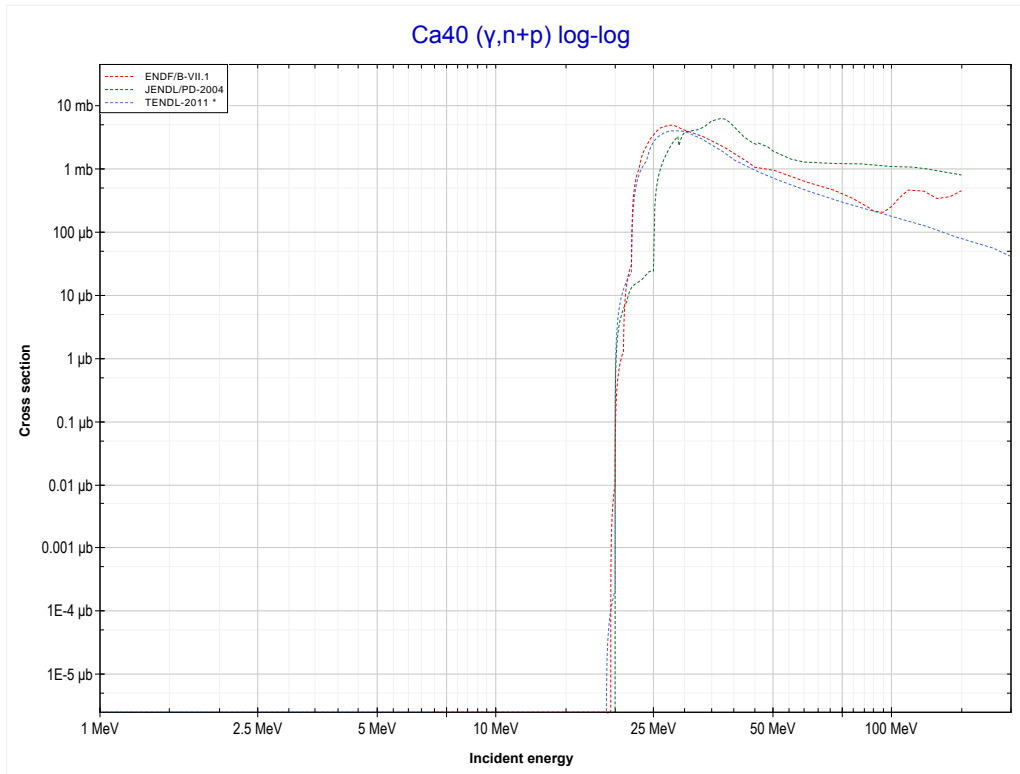
Reaction	Q-Value
K39(γ,n)K38	-13077.63 keV

<< 19-K-39	20-Ca-40	20-Ca-48 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ca39 production)	MT28 ($\gamma,n+p$) >>



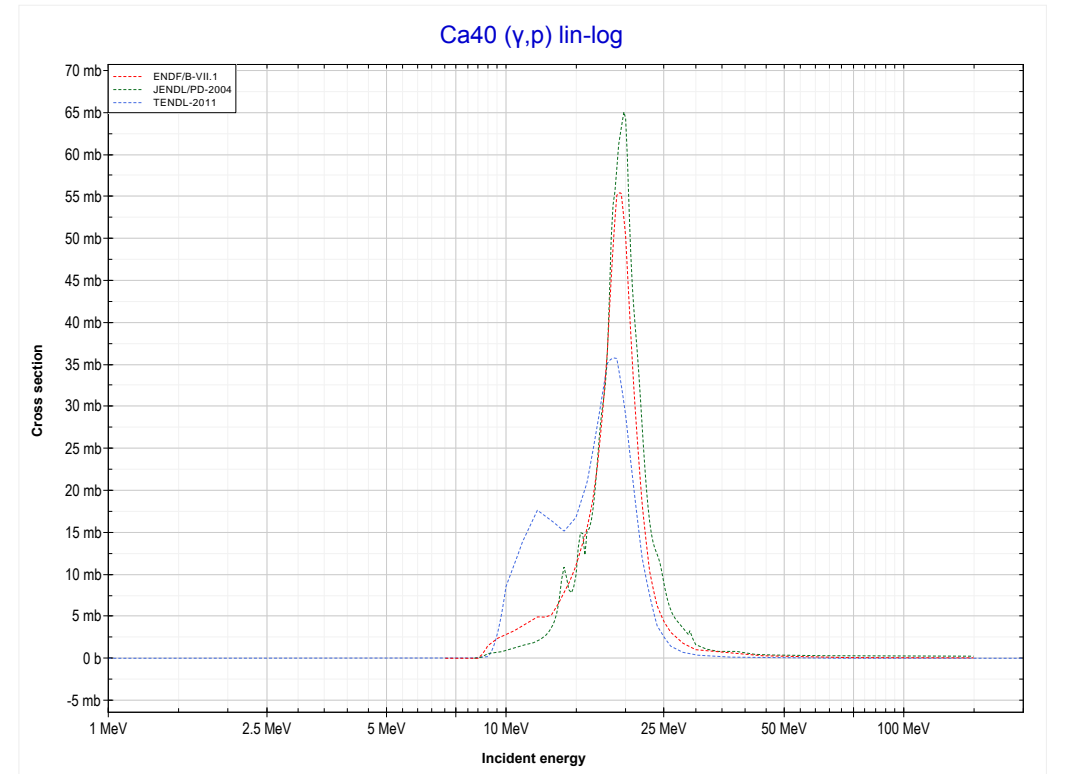
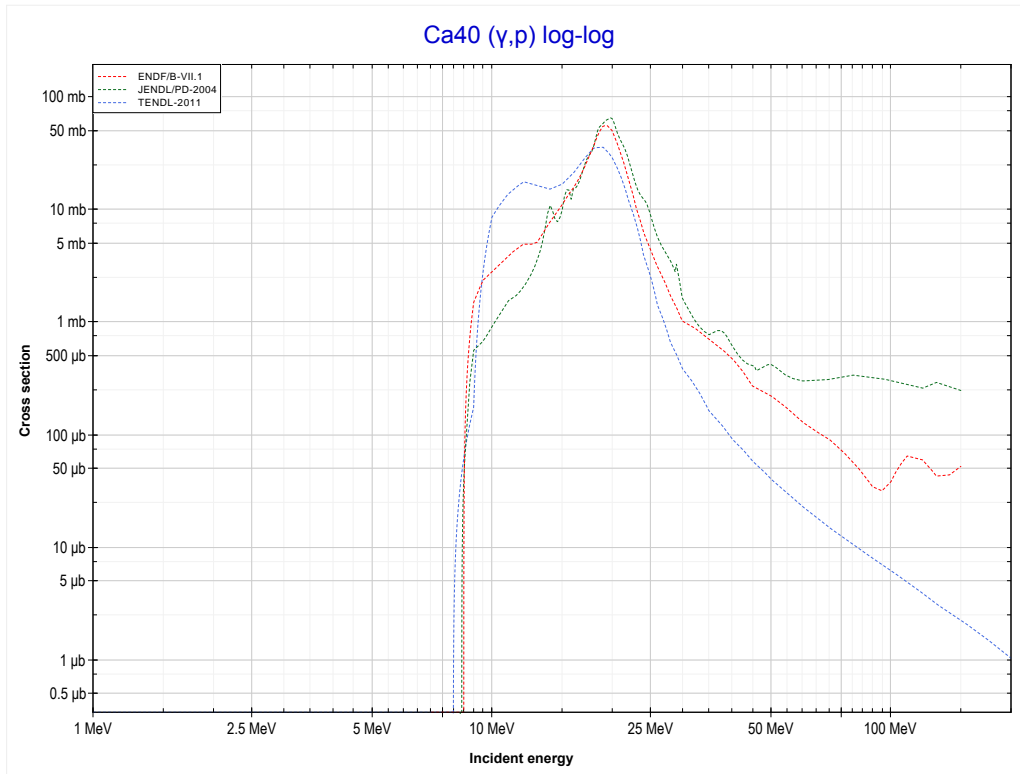
Reaction	Q-Value
Ca40(γ,n)Ca39	-15643.19 keV

<< 18-Ar-40	20-Ca-40	21-Sc-45 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (K38 production)	MT103 (γ,p) >>



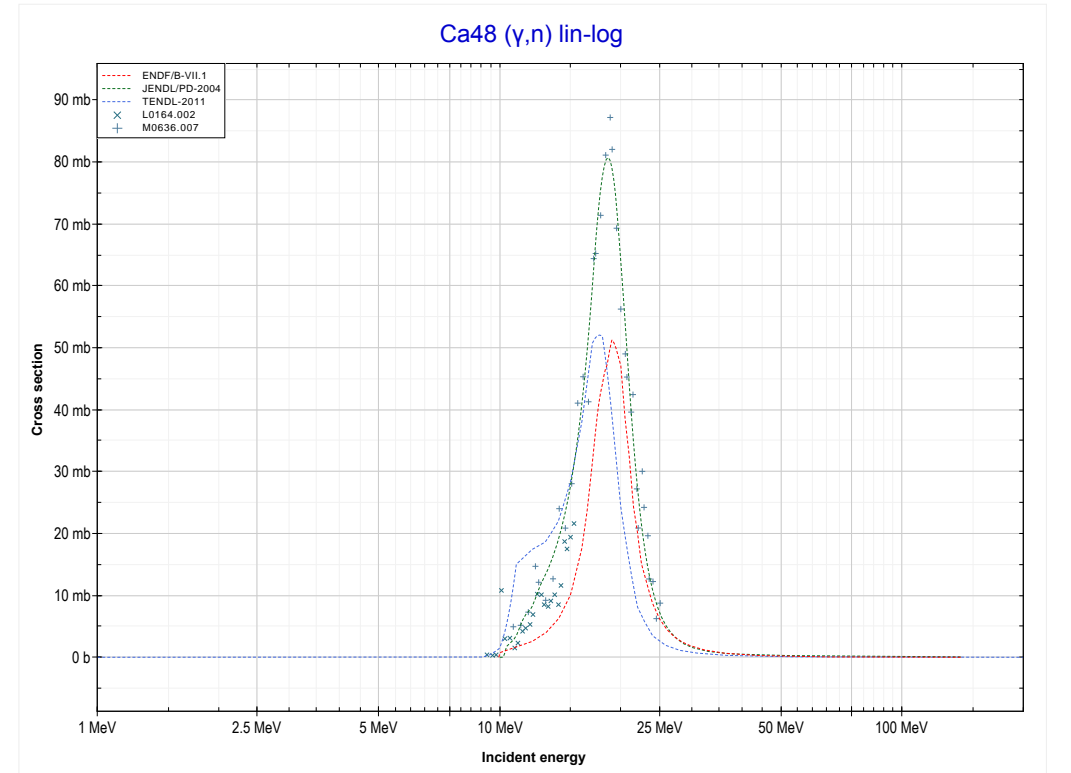
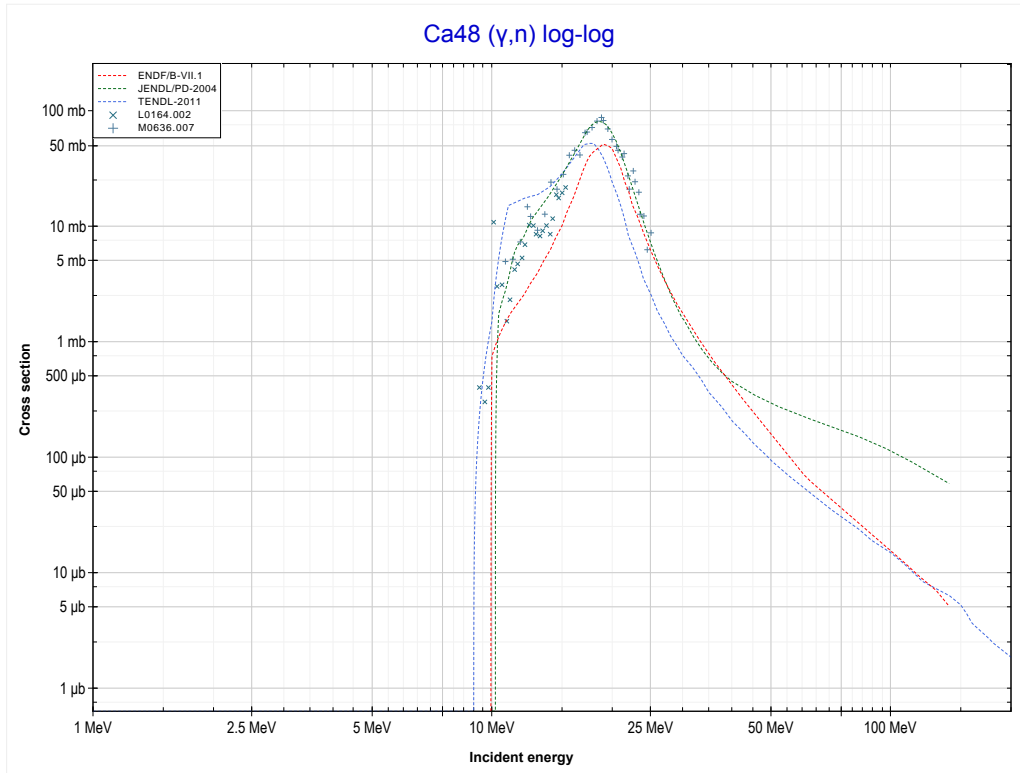
Reaction	Q-Value
Ca40(γ,d)K38	-19181.29 keV
Ca40($\gamma,n+p$)K38	-21405.86 keV

<< 16-S-34	20-Ca-40	20-Ca-48 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (K39 production)	MT4 (γ, n) >>



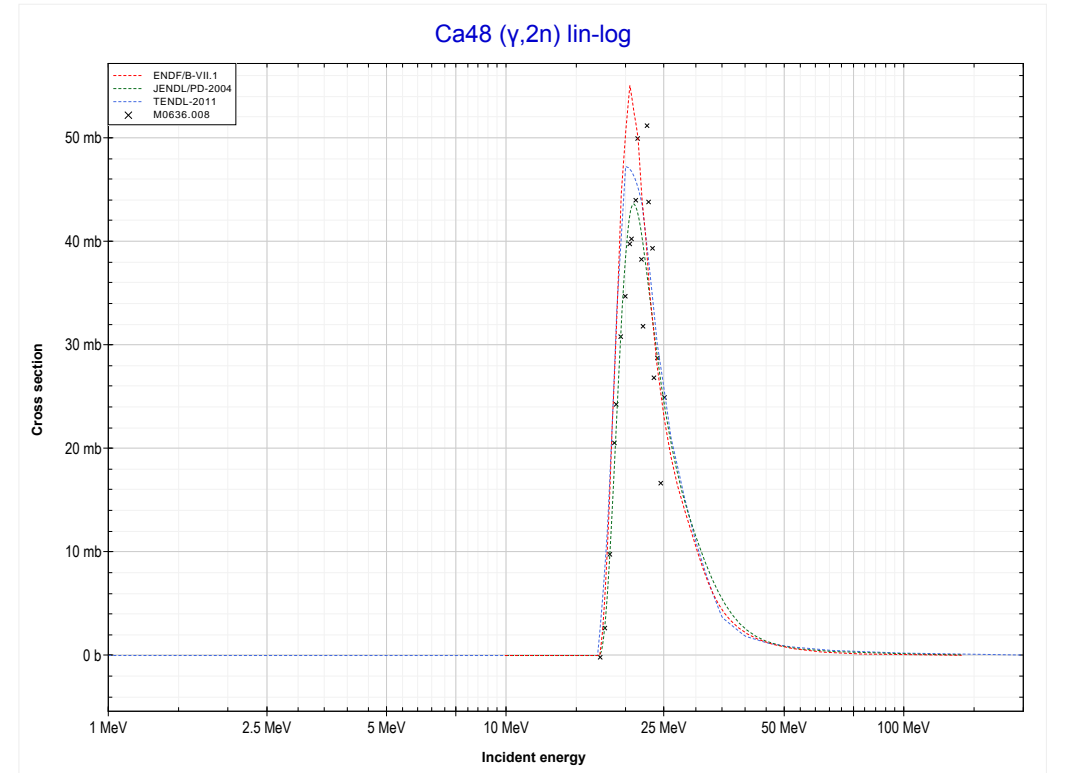
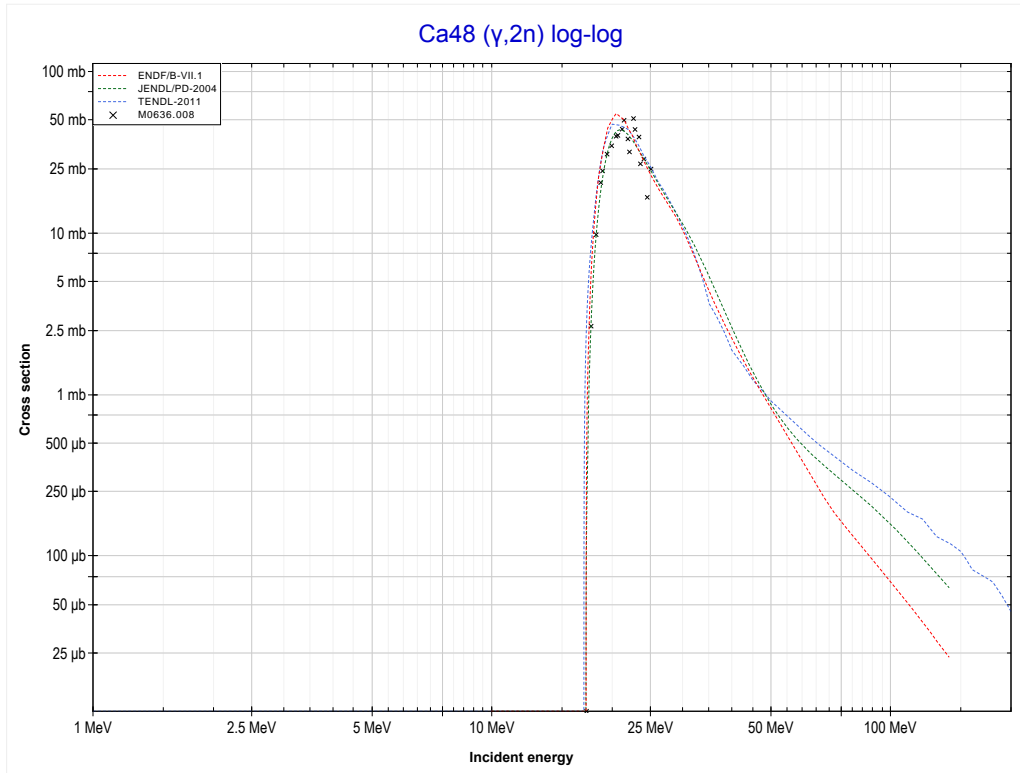
Reaction	Q-Value
Ca40(γ, p)K39	-8328.23 keV

<< 20-Ca-40	20-Ca-48	21-Sc-45 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Ca47 production)	MT16 ($\gamma,2n$) >>



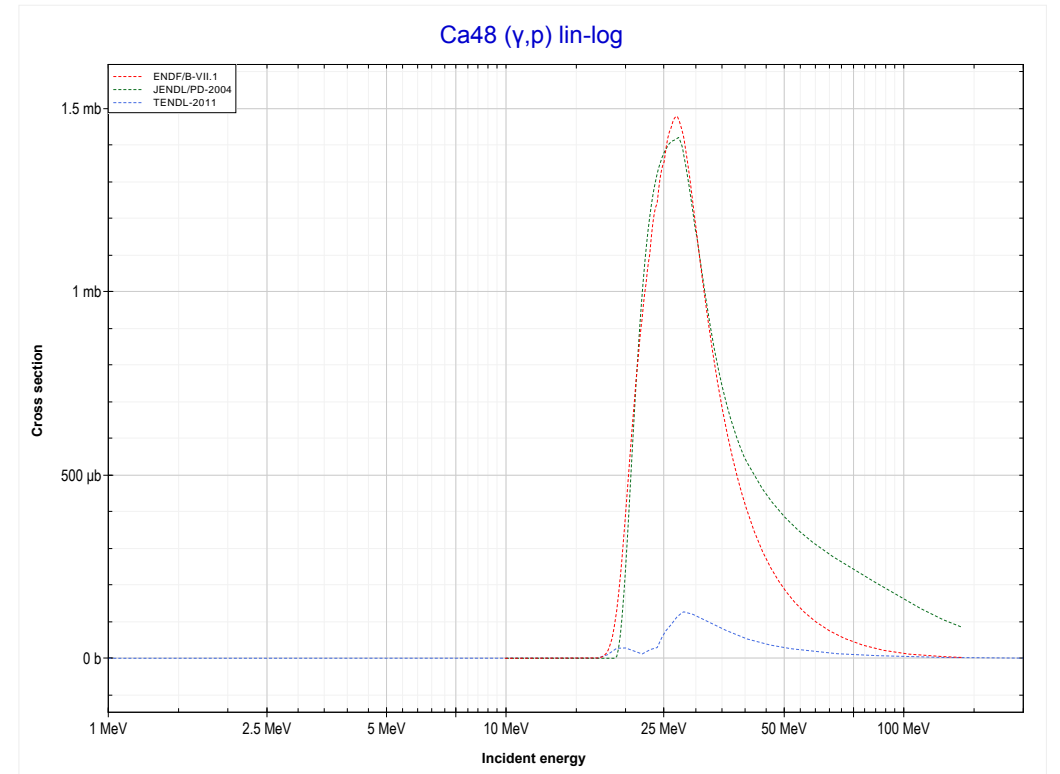
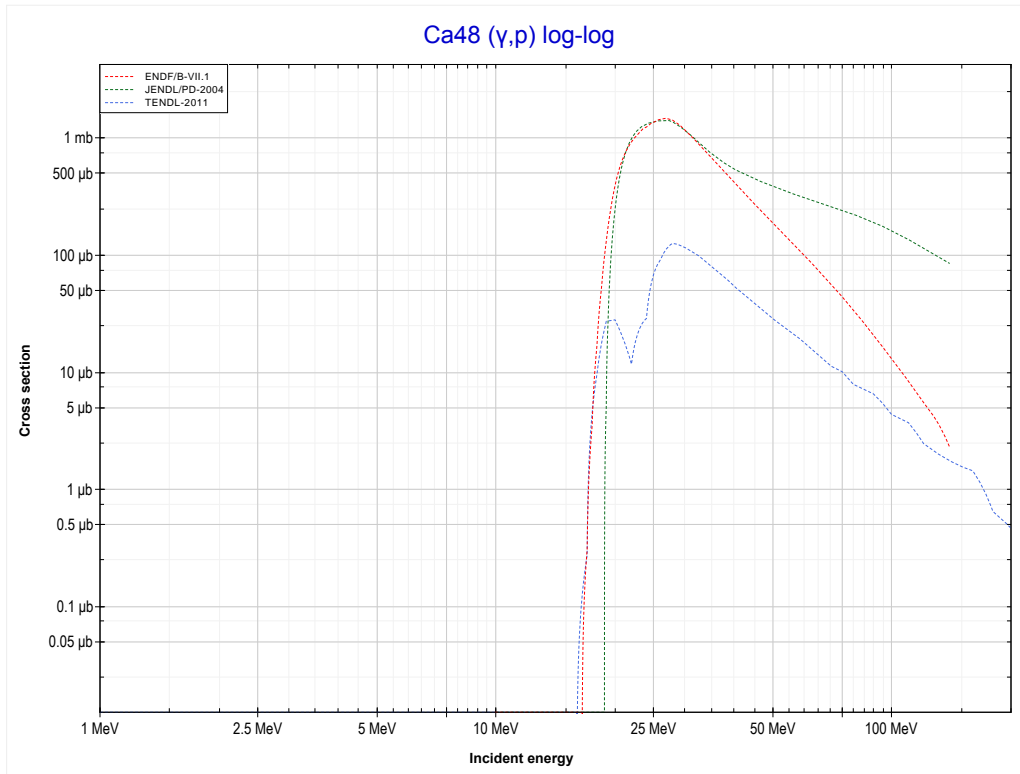
Reaction	Q-Value
Ca48(γ,n)Ca47	-9945.22 keV

<< 18-Ar-40	20-Ca-48	21-Sc-45 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ca46 production)	MT103 (γ,p) >>



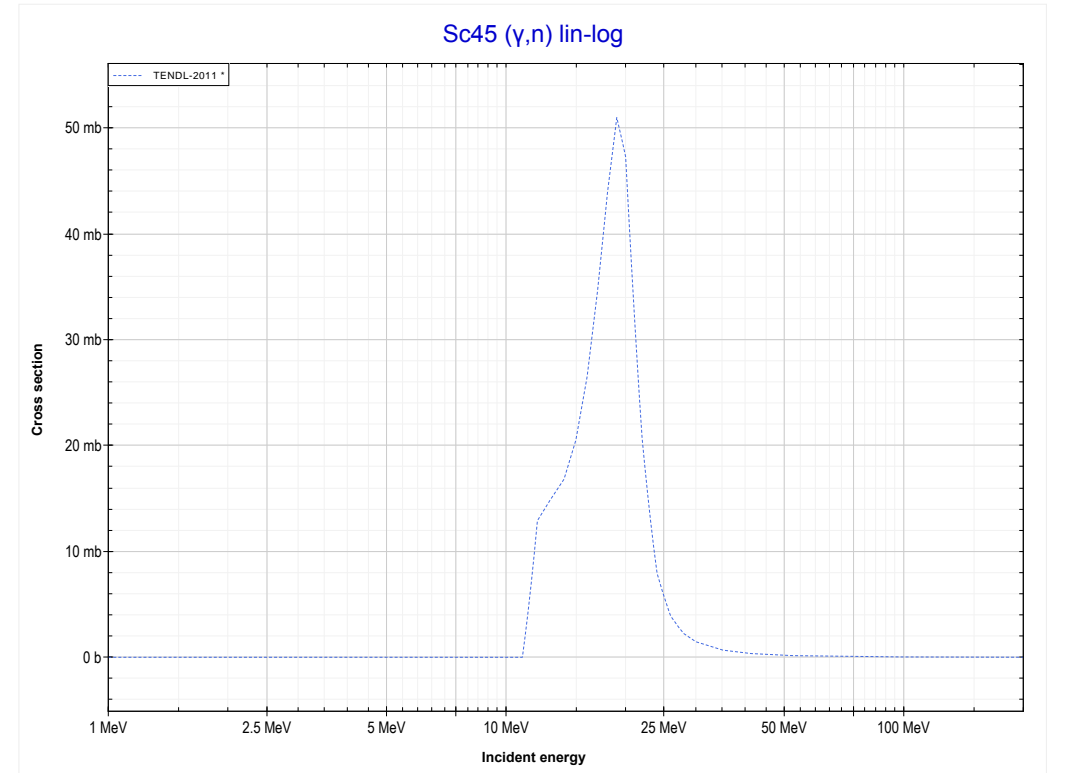
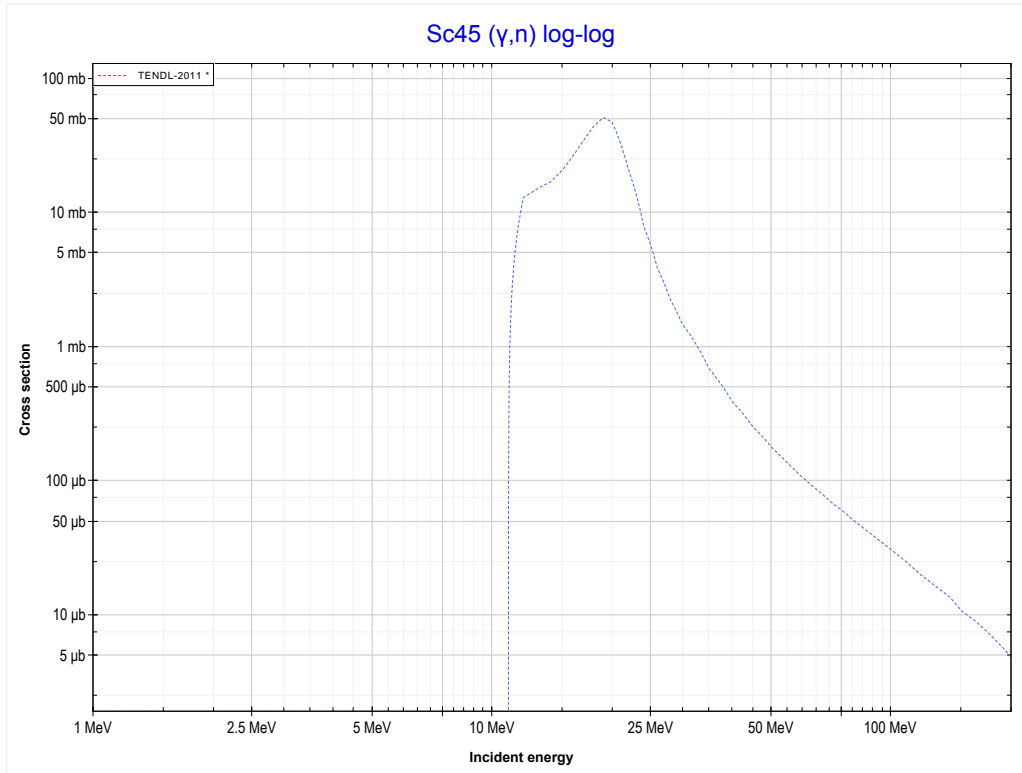
Reaction	Q-Value
Ca48($\gamma,2n$)Ca46	-17221.53 keV

<< 20-Ca-40	20-Ca-48	24-Cr-52 >>
<< MT16 ($\gamma,2n$)	MT103 (γ,p) or MT5 (K47 production)	MT4 (γ,n) >>



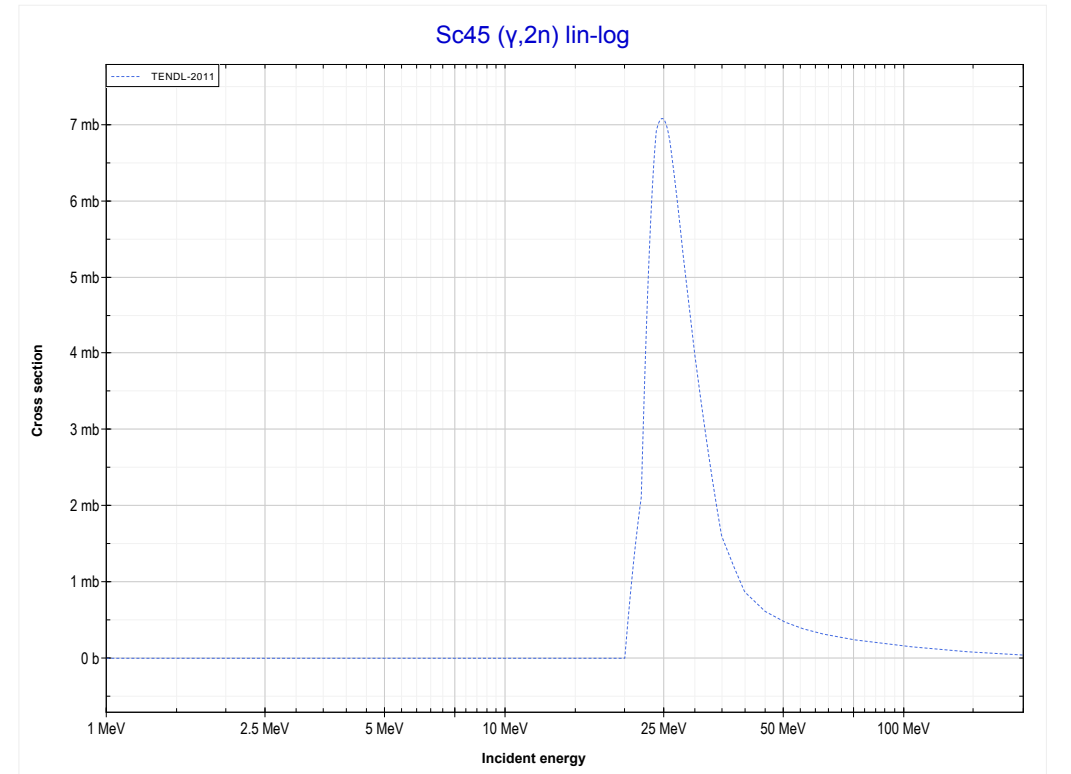
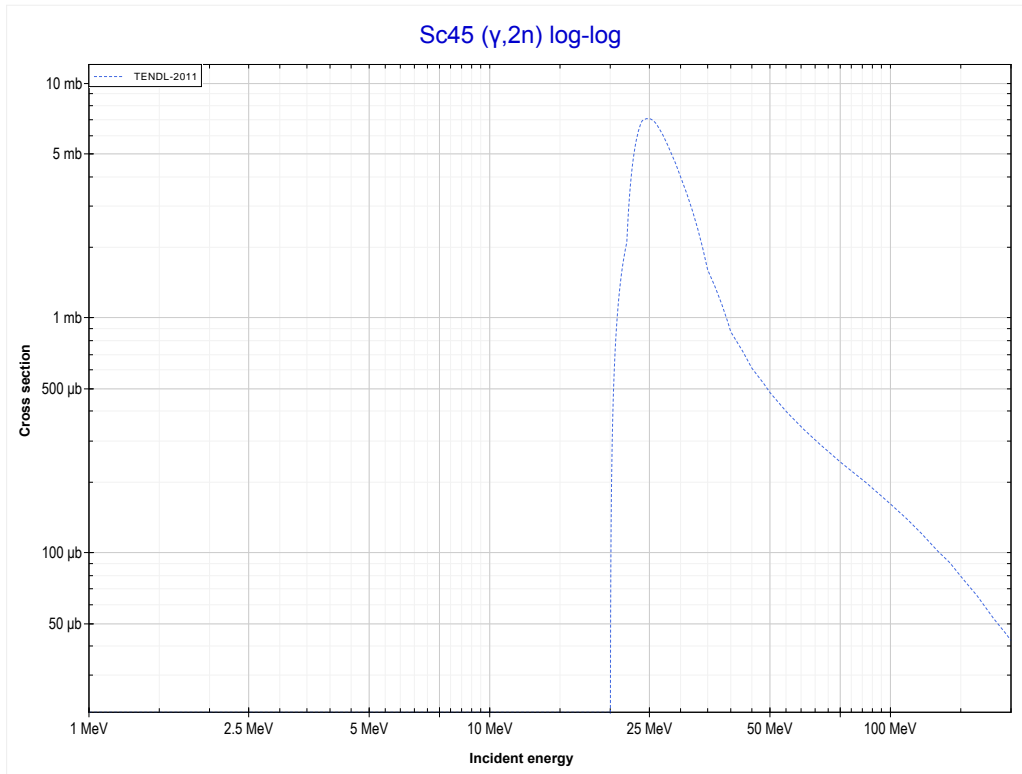
Reaction	Q-Value
Ca48(γ,p)K47	-15806.97 keV

<< 20-Ca-48	21-Sc-45	22-Ti-46 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Sc44 production)	MT16 ($\gamma,2n$) >>



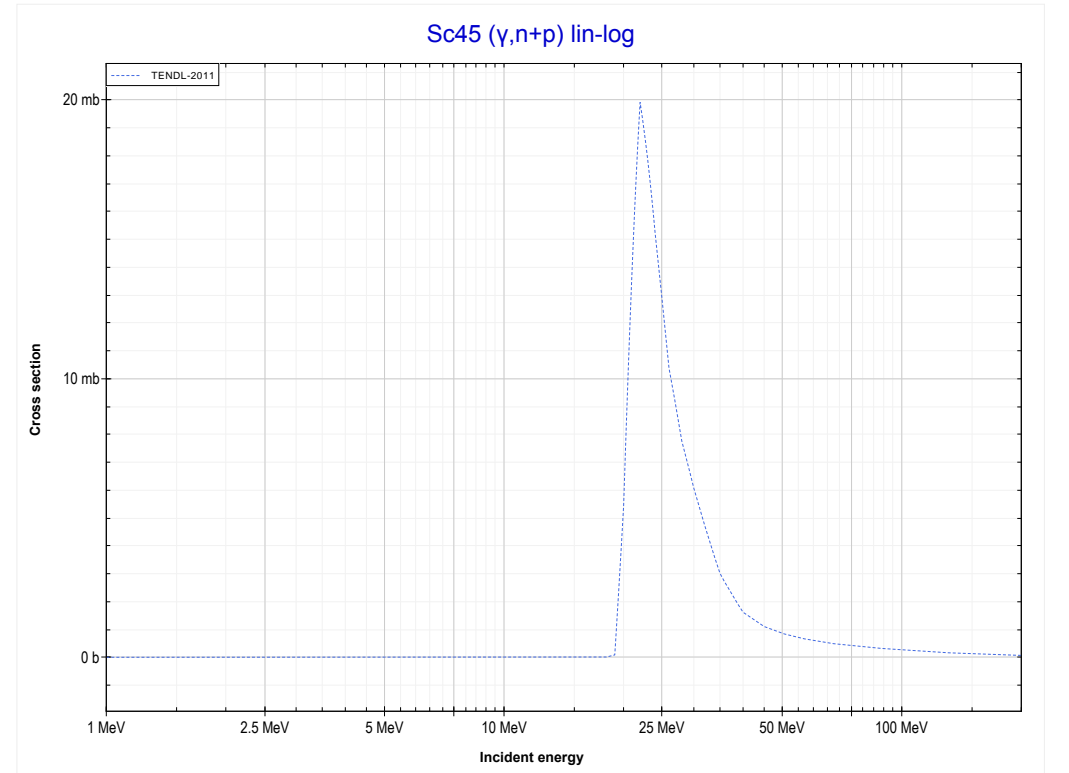
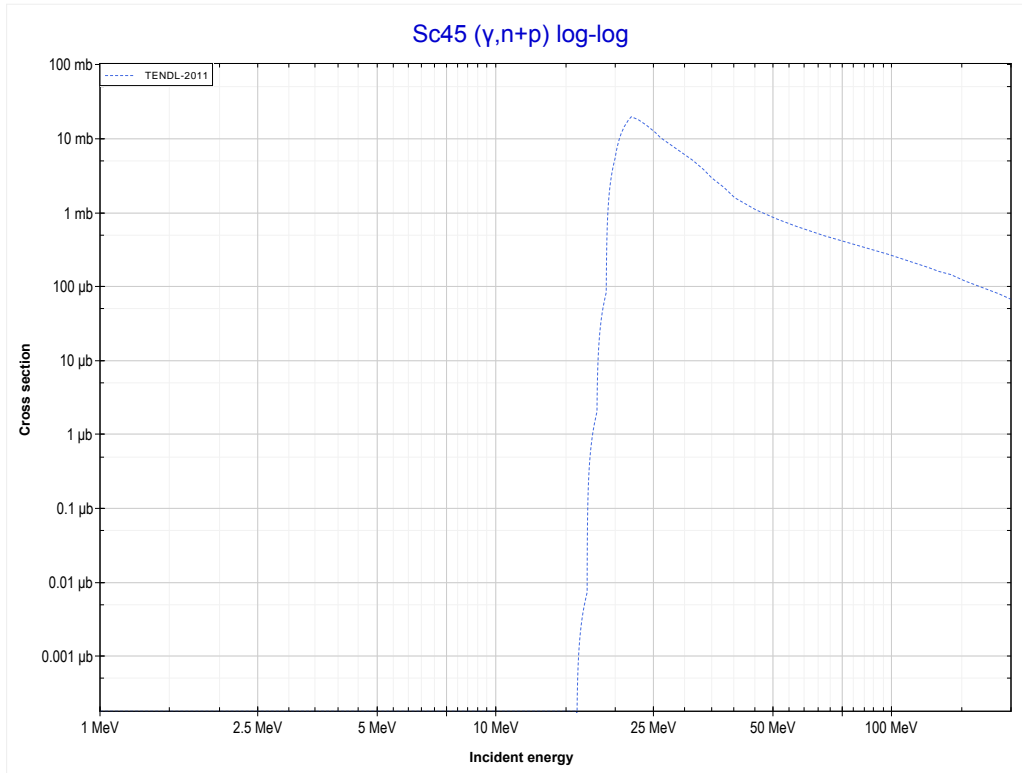
Reaction	Q-Value
Sc45(γ,n)Sc44	-11323.02 keV

<< 20-Ca-48	21-Sc-45	22-Ti-50 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sc43 production)	MT28 ($\gamma,n+p$) >>



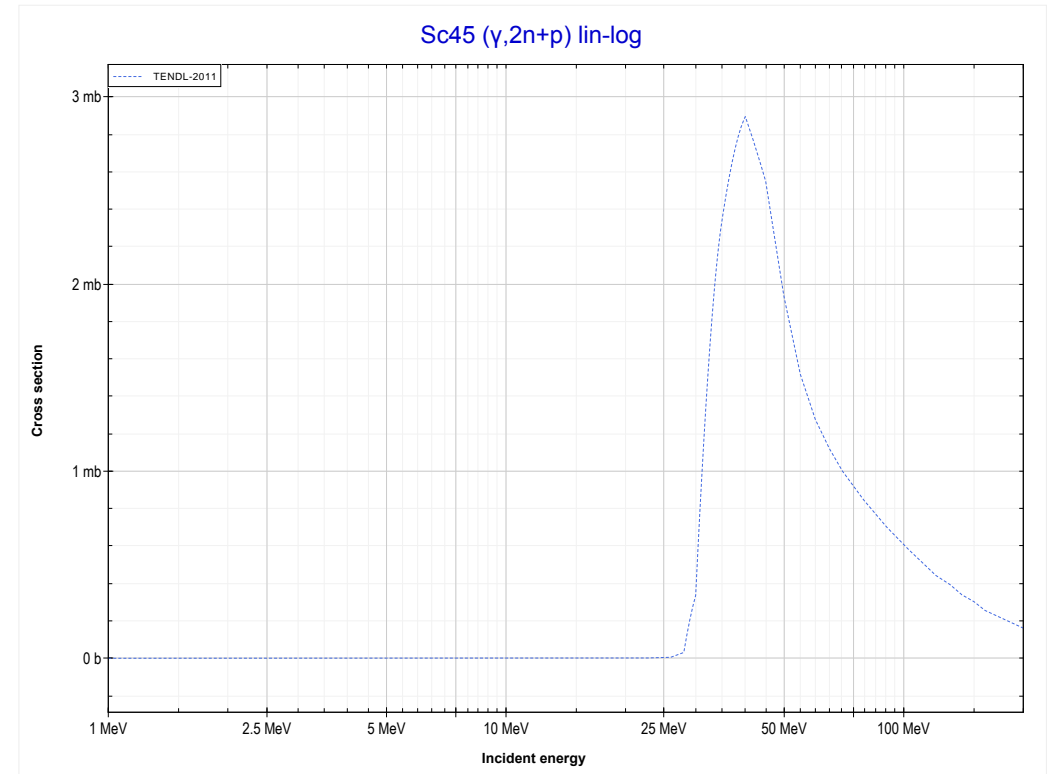
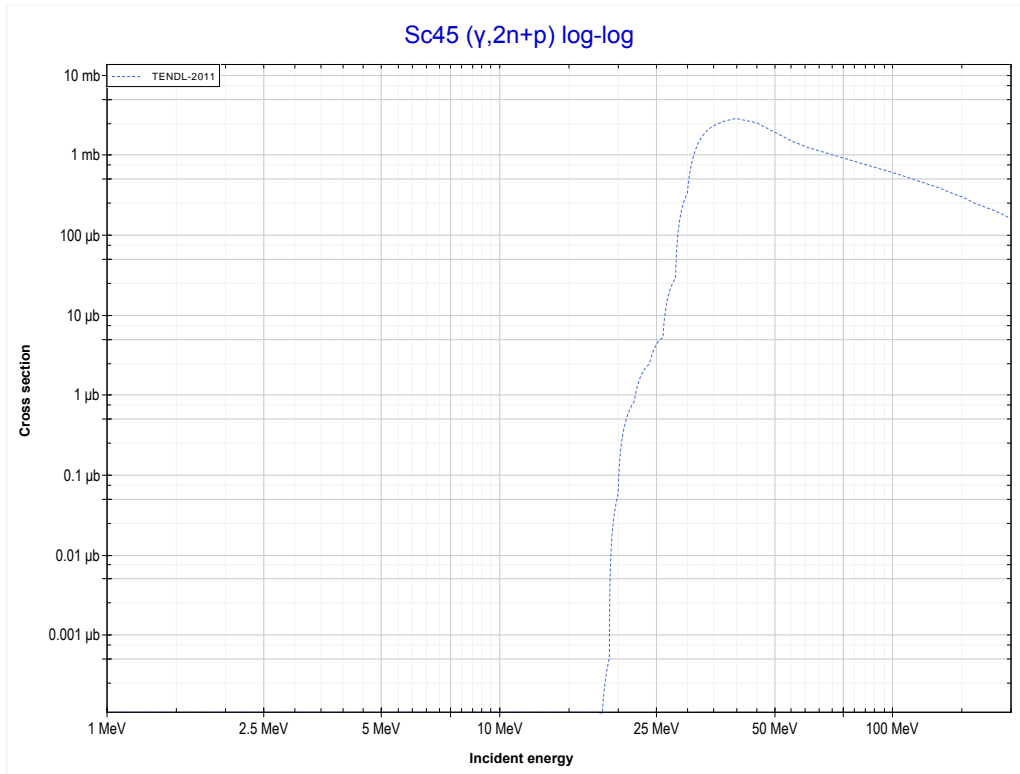
Reaction	Q-Value
Sc45($\gamma,2n$)Sc43	-21022.53 keV

<< 20-Ca-40	21-Sc-45	23-V-51 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ca43 production)	MT41 ($\gamma,2n+p$) >>



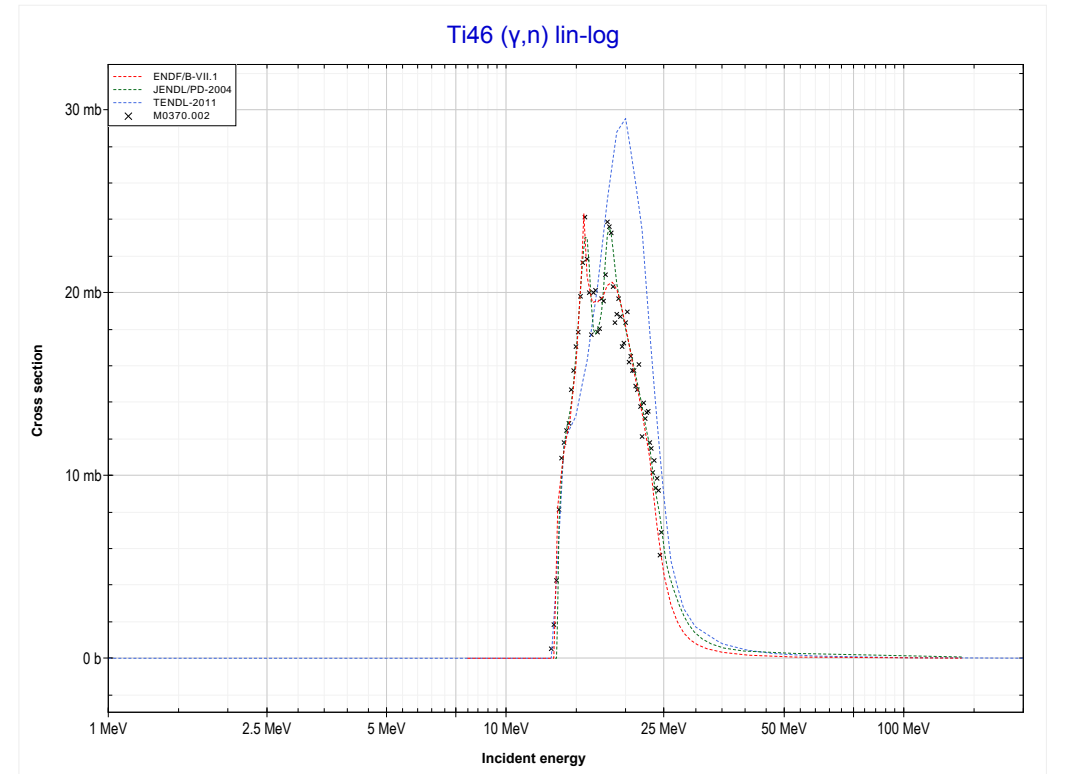
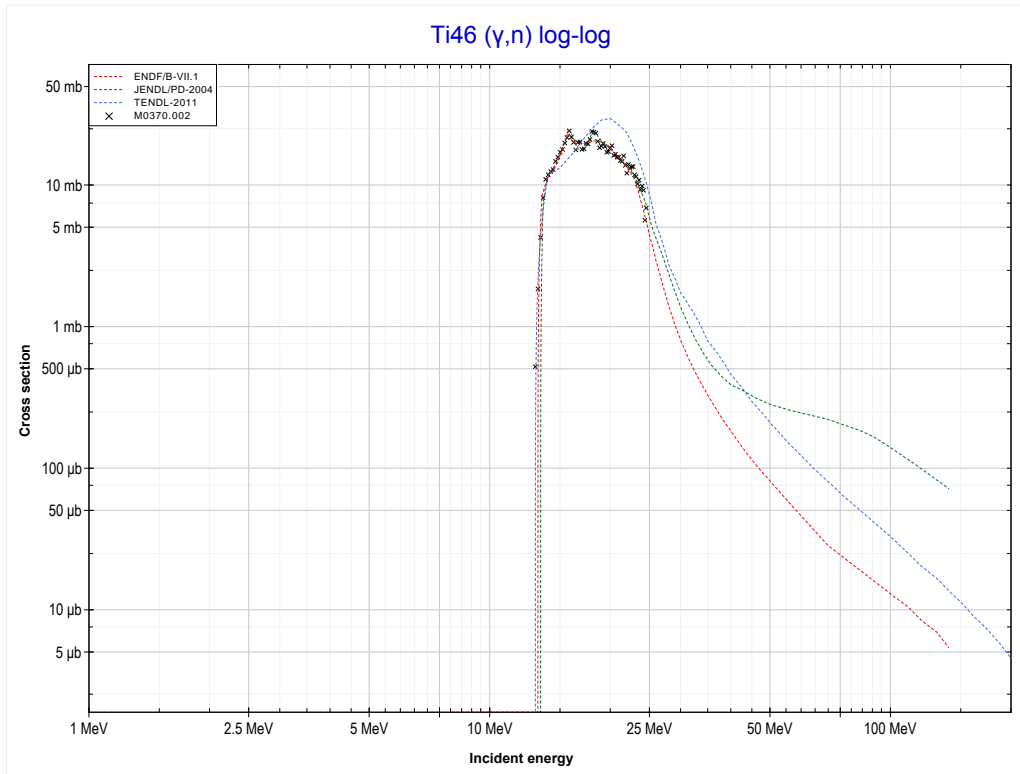
Reaction	Q-Value
Sc45(γ,d)Ca43	-15794.92 keV
Sc45($\gamma,n+p$)Ca43	-18019.49 keV

<< 18-Ar-40	21-Sc-45	23-V-51 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ca42 production)	MT4 (γ, n) >>



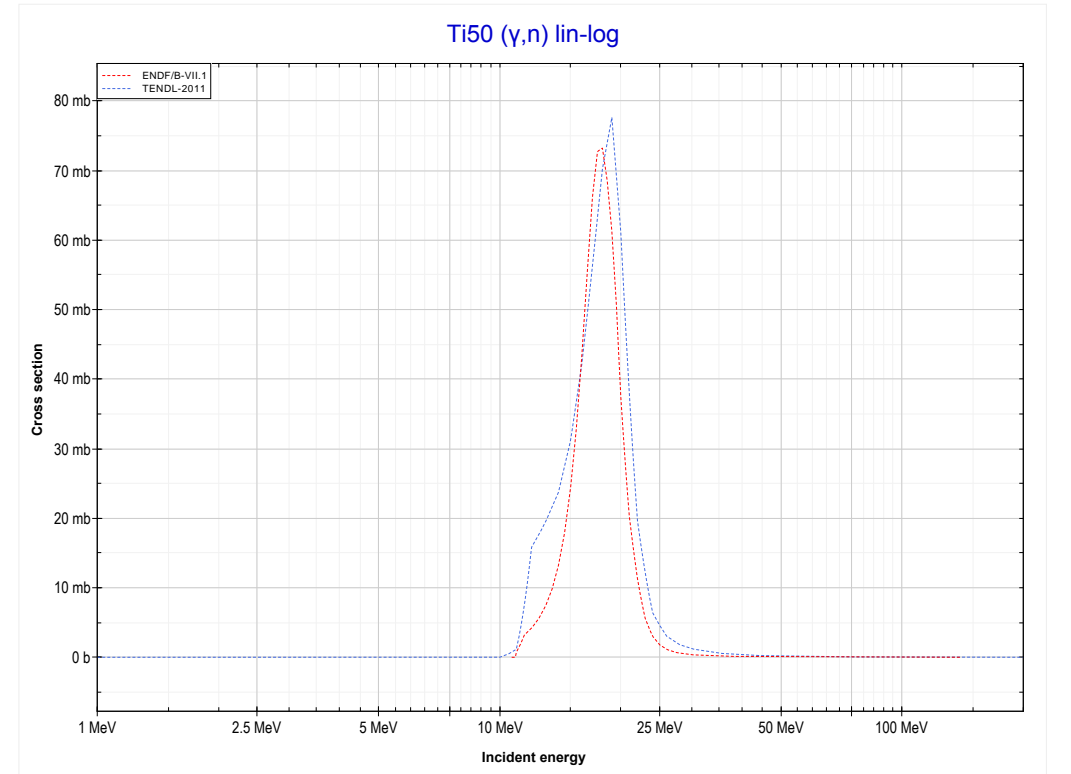
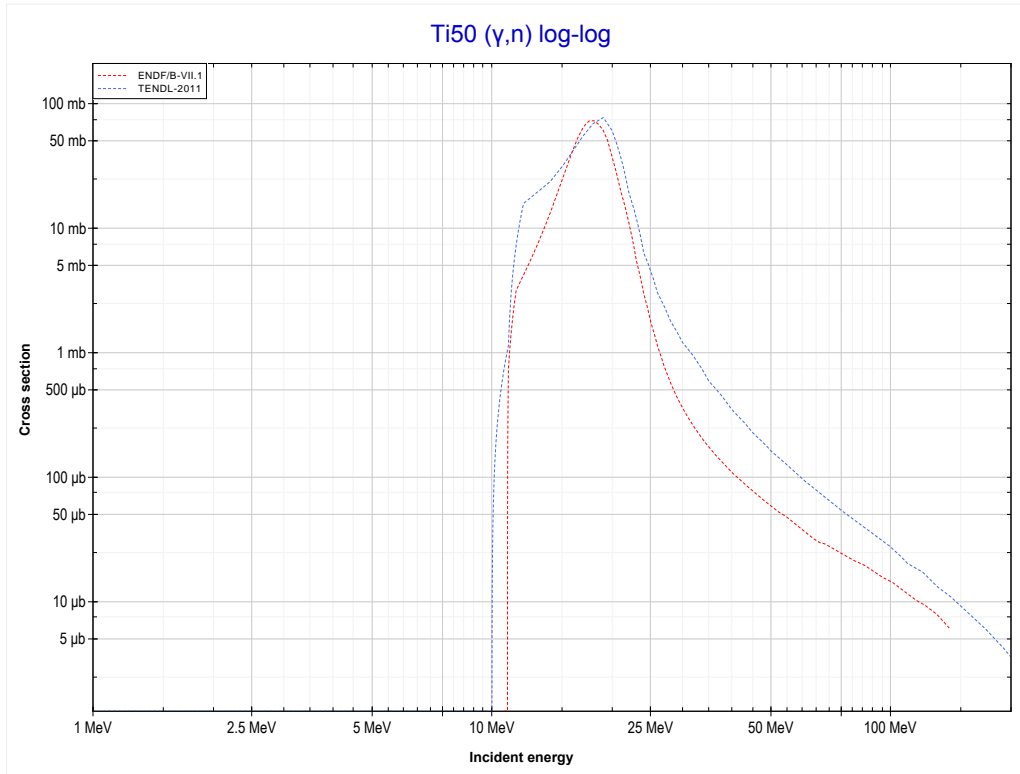
Reaction	Q-Value
Sc45(γ, t)Ca42	-17470.54 keV
Sc45($\gamma, n+d$)Ca42	-23727.77 keV
Sc45($\gamma, 2n+p$)Ca42	-25952.33 keV

<< 21-Sc-45	22-Ti-46	22-Ti-50 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Ti45 production)	MT4 (γ, n) >>



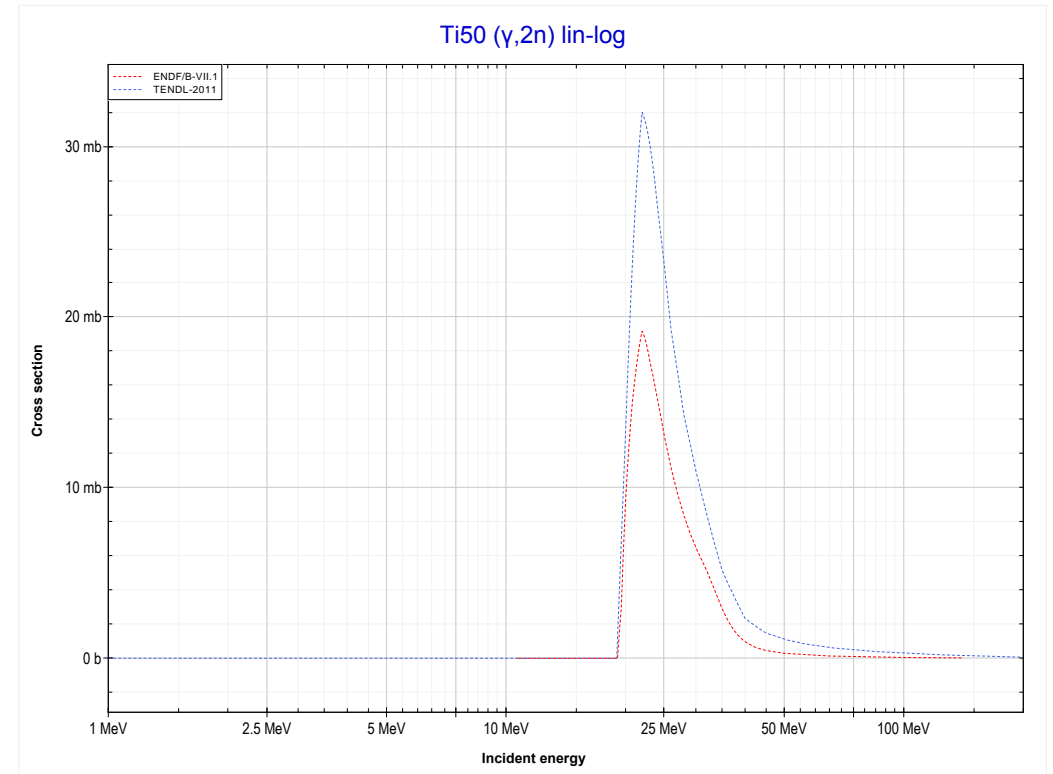
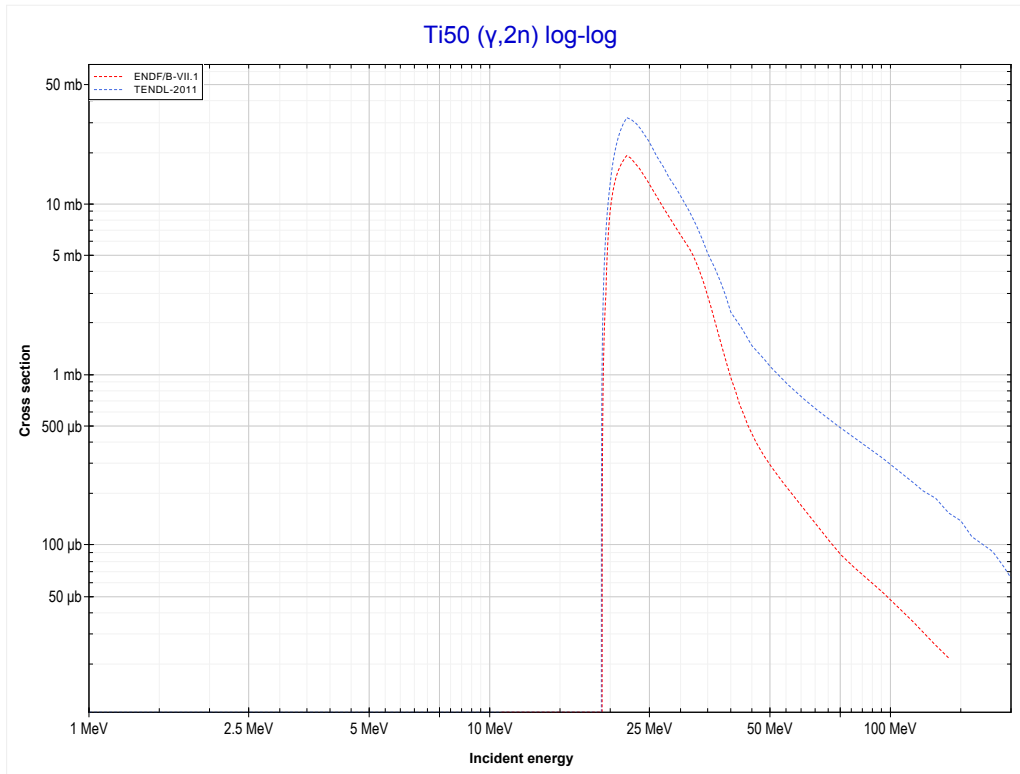
Reaction	Q-Value
Ti46(γ, n)Ti45	-13189.02 keV

<< 22-Ti-46	22-Ti-50	23-V-51 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ti49 production)	MT16 ($\gamma,2n$) >>



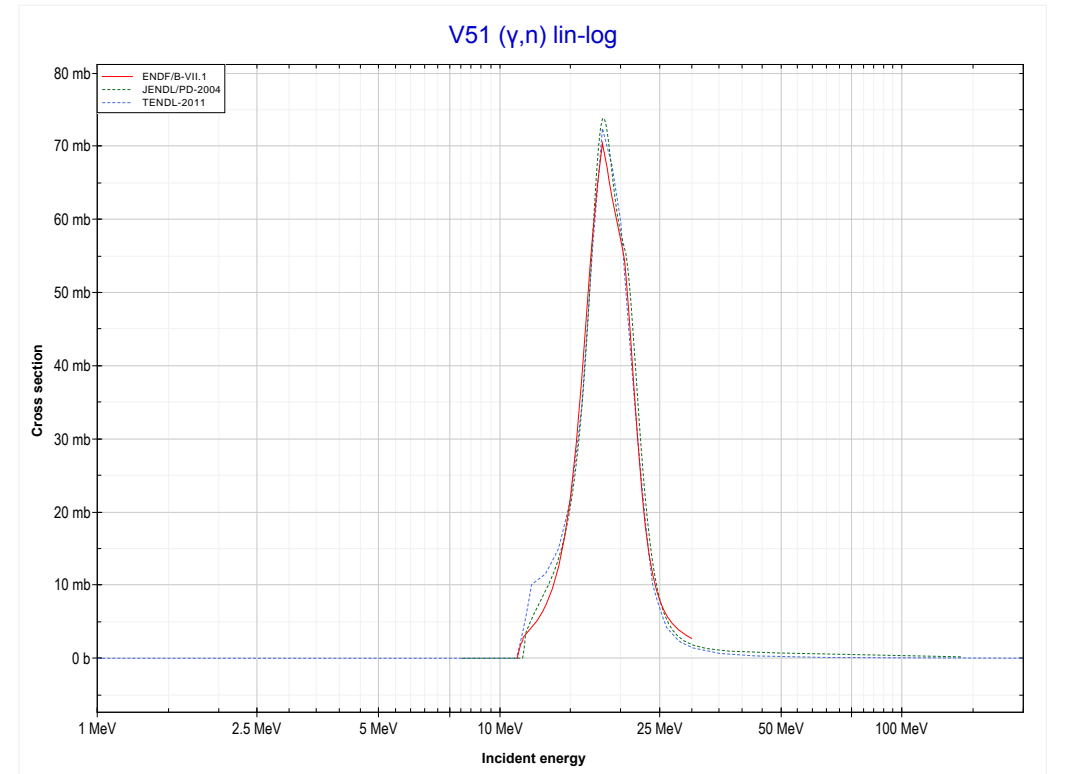
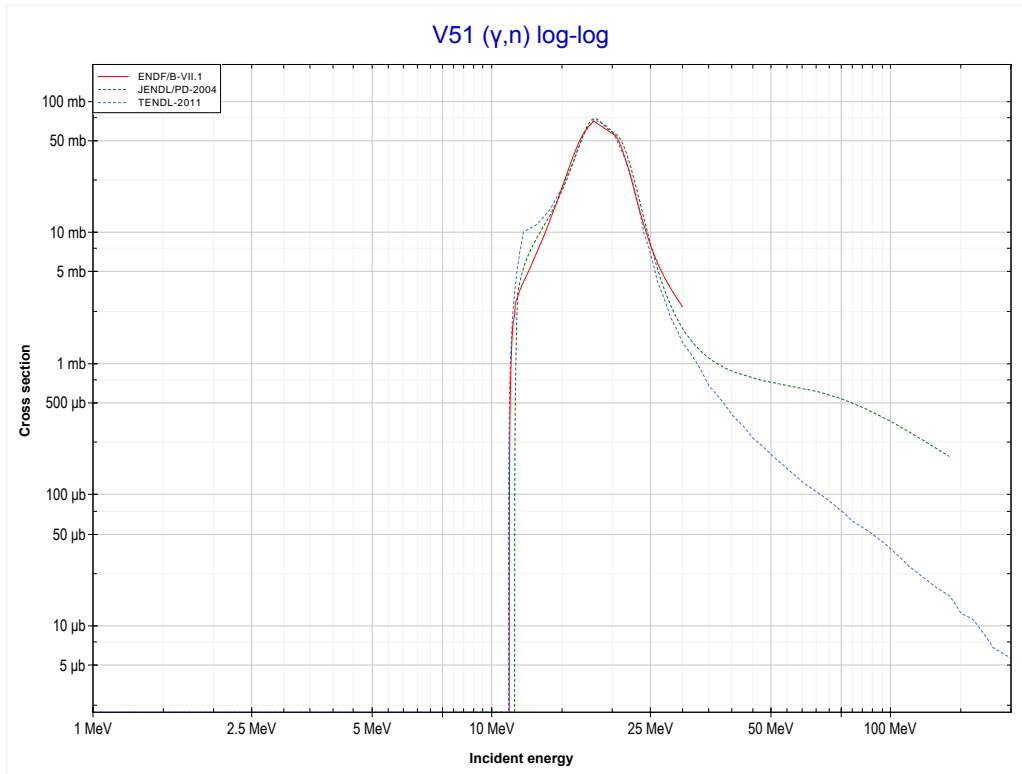
Reaction	Q-Value
Ti50(γ,n)Ti49	-10939.22 keV

<< 21-Sc-45	22-Ti-50	23-V-51 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ti48 production)	MT4 (γ,n) >>



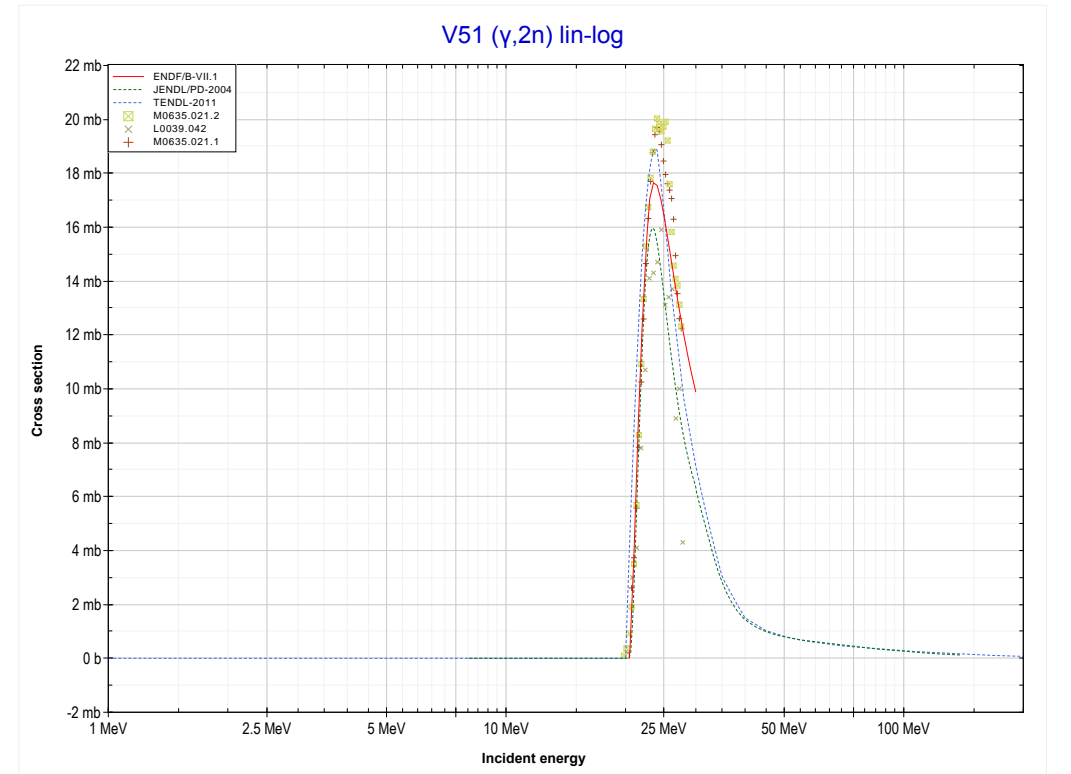
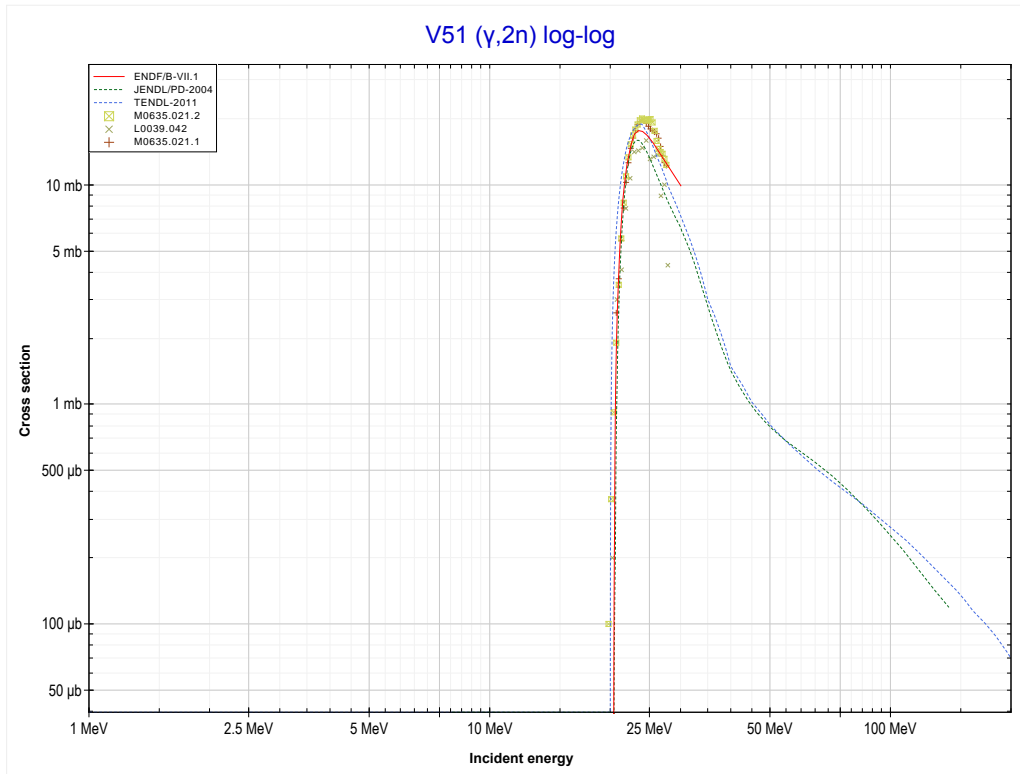
Reaction	Q-Value
Ti50($\gamma,2n$)Ti48	-19081.63 keV

<< 22-Ti-50	23-V-51	24-Cr-50 >>
<< MT16 ($\gamma,2n$)	MT4 (γ,n) or MT5 (V50 production)	MT16 ($\gamma,2n$) >>



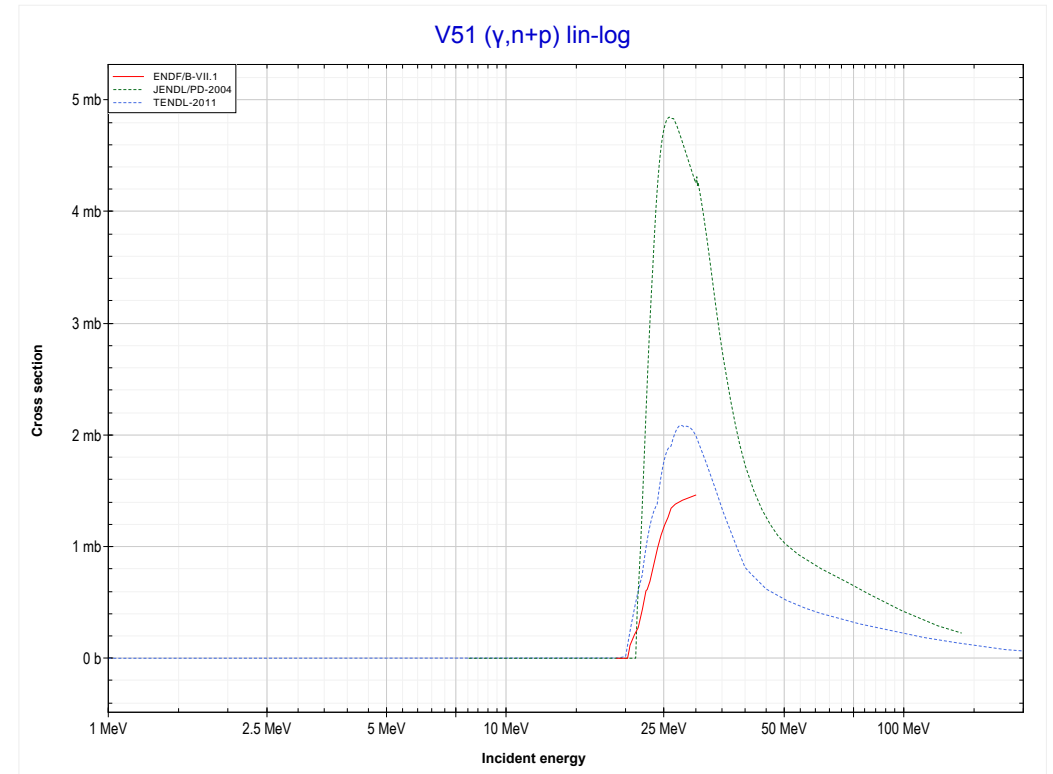
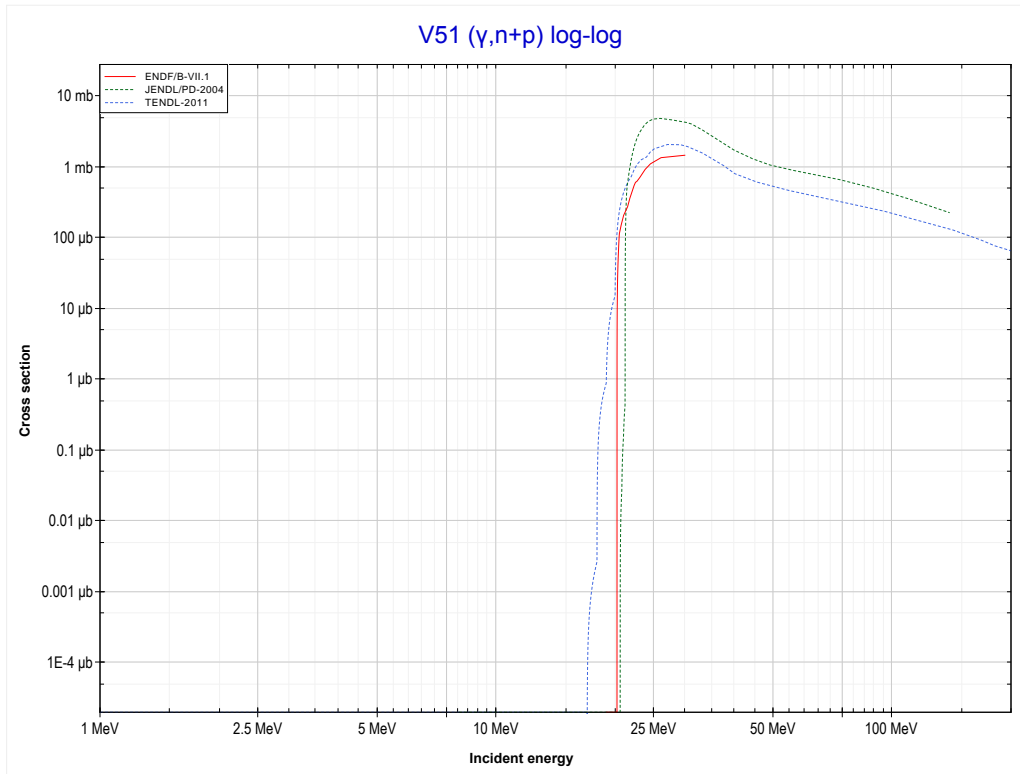
Reaction	Q-Value
V51(γ,n)V50	-11051.12 keV

<< 22-Ti-50	23-V-51	25-Mn-55 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (V49 production)	MT28 ($\gamma,n+p$) >>



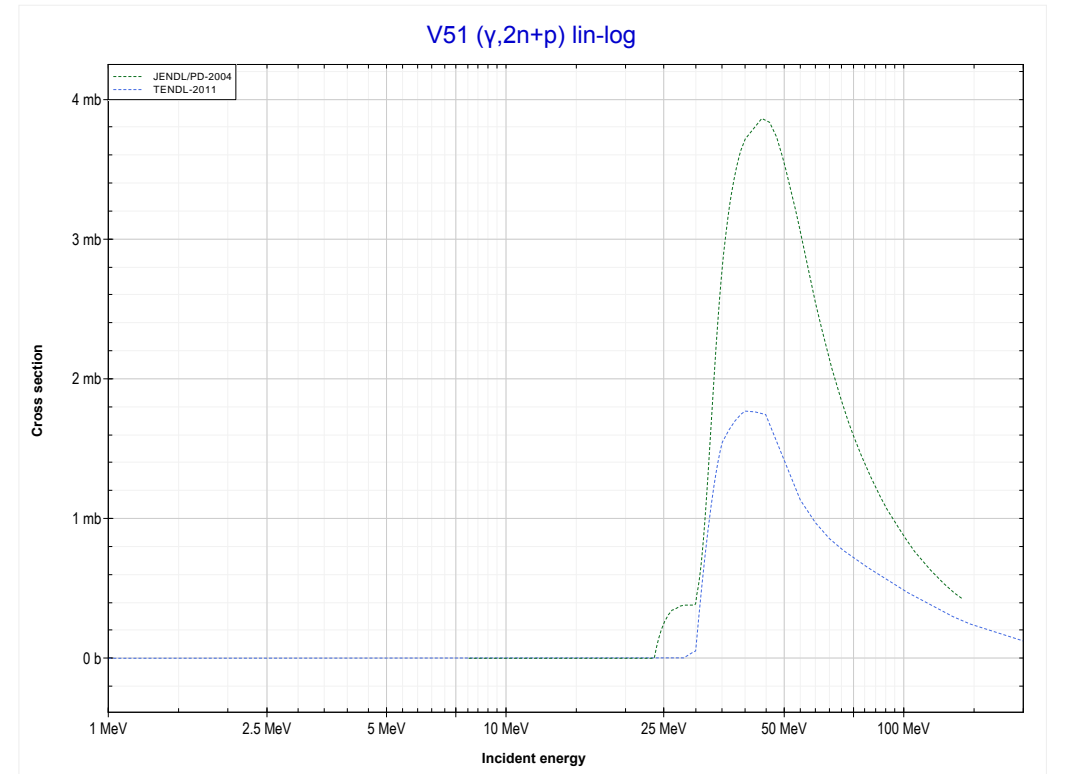
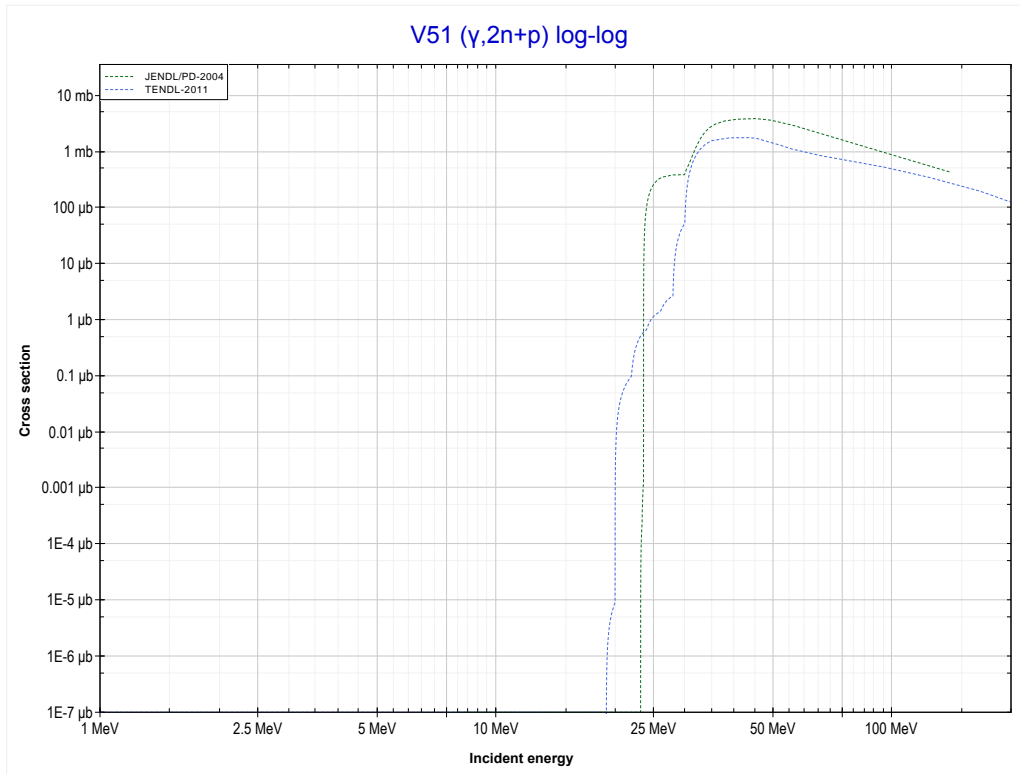
Reaction	Q-Value
V51($\gamma,2n$)V49	-20387.13 keV

<< 21-Sc-45	23-V-51	24-Cr-52 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ti49 production)	MT41 ($\gamma,2n+p$) >>



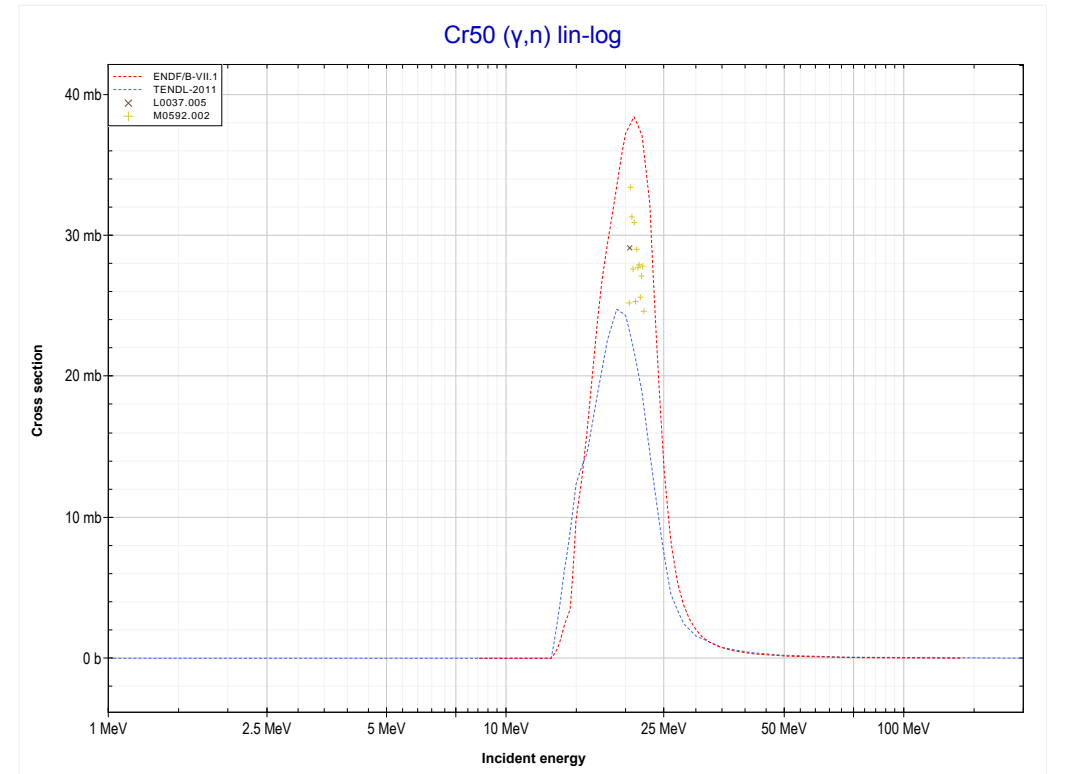
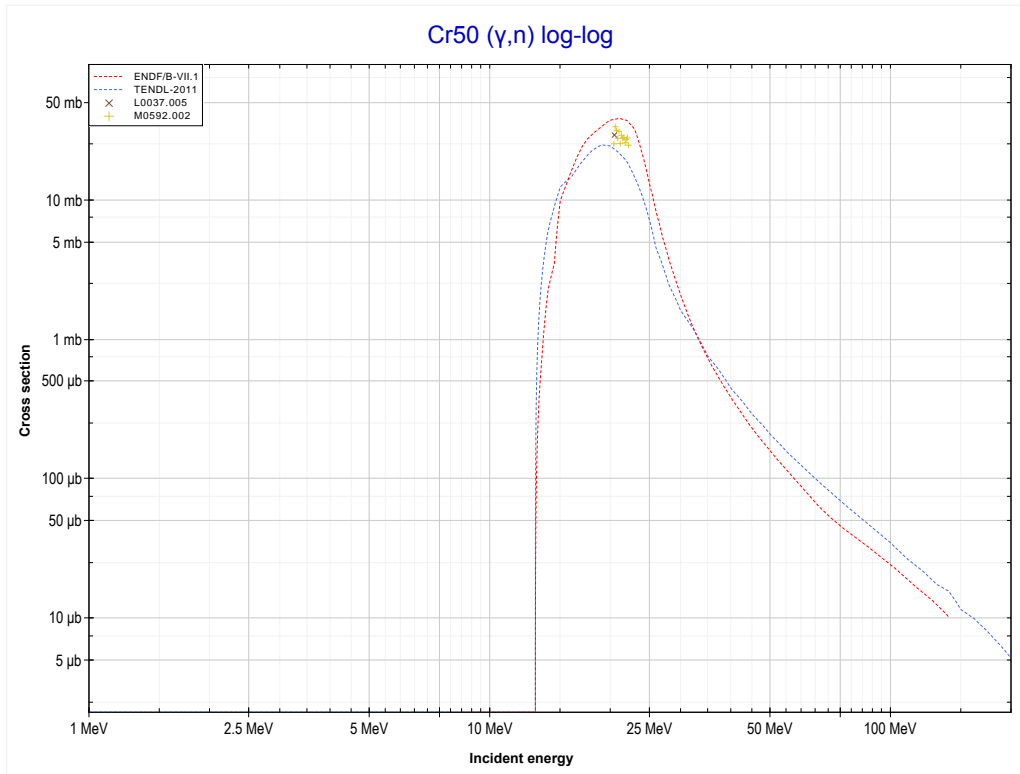
Reaction	Q-Value
V51(γ,d)Ti49	-16778.32 keV
V51($\gamma,n+p$)Ti49	-19002.89 keV

<< 21-Sc-45	23-V-51	25-Mn-55 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ti48 production)	MT4 (γ, n) >>



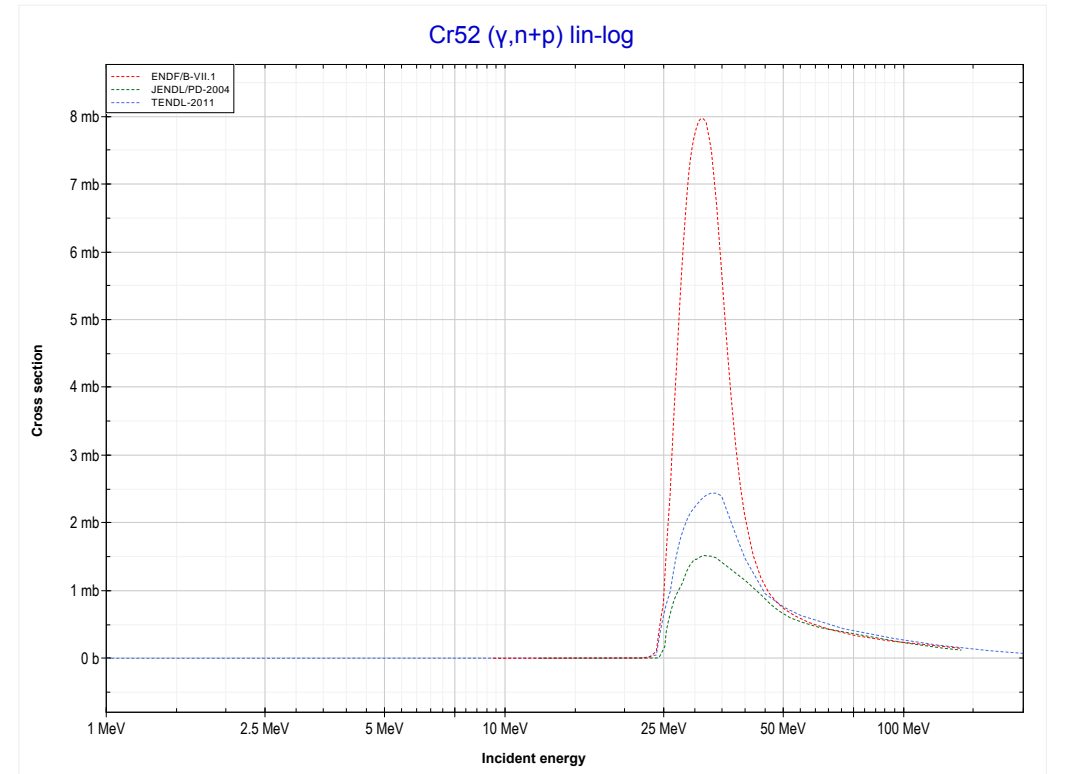
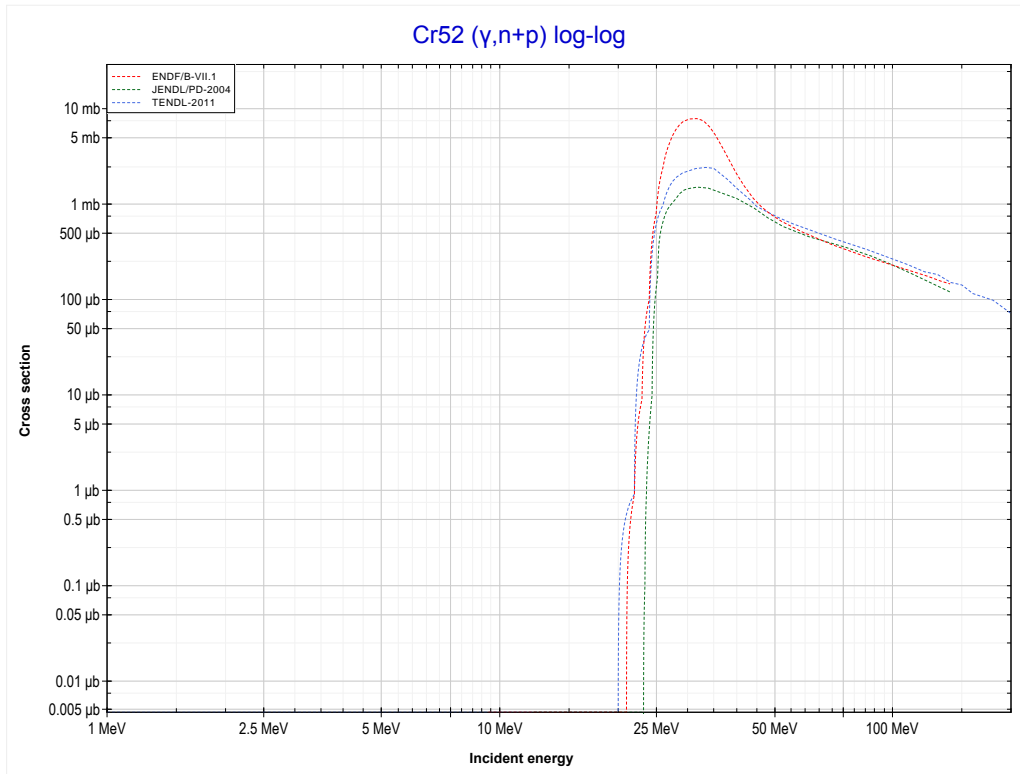
Reaction	Q-Value
V51(γ, t)Ti48	-18663.51 keV
V51($\gamma, n+d$)Ti48	-24920.74 keV
V51($\gamma, 2n+p$)Ti48	-27145.30 keV

<< 23-V-51	24-Cr-50	25-Mn-55 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Cr49 production)	MT28 ($\gamma,n+p$) >>



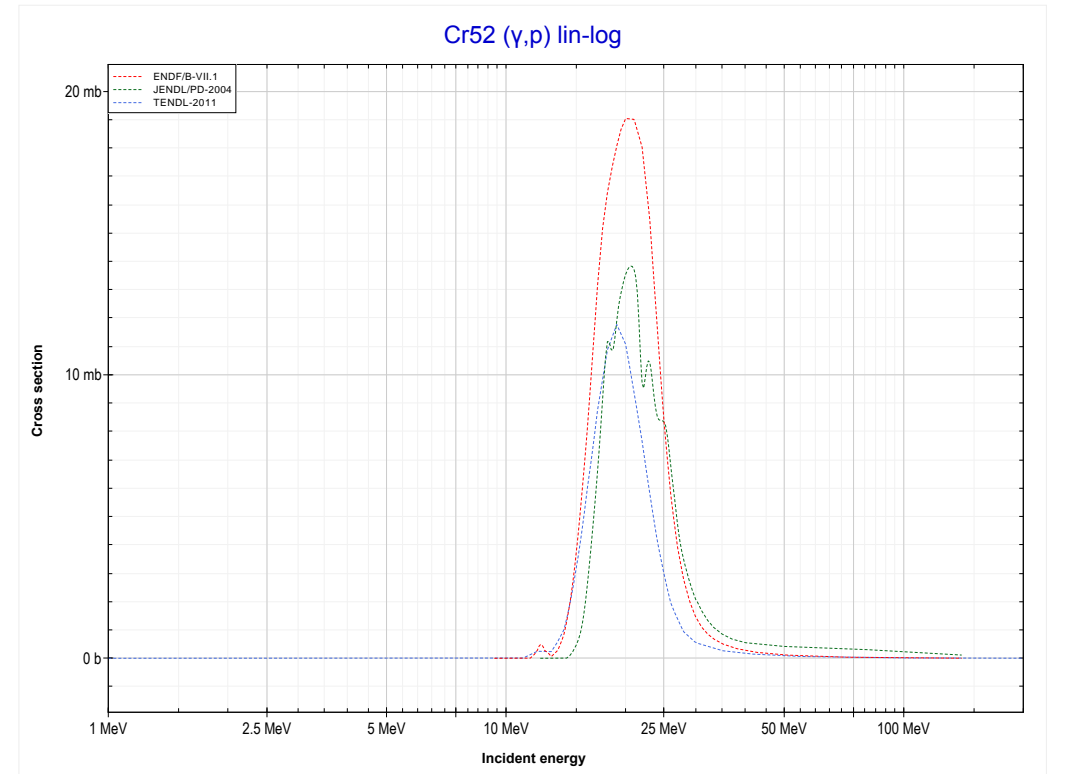
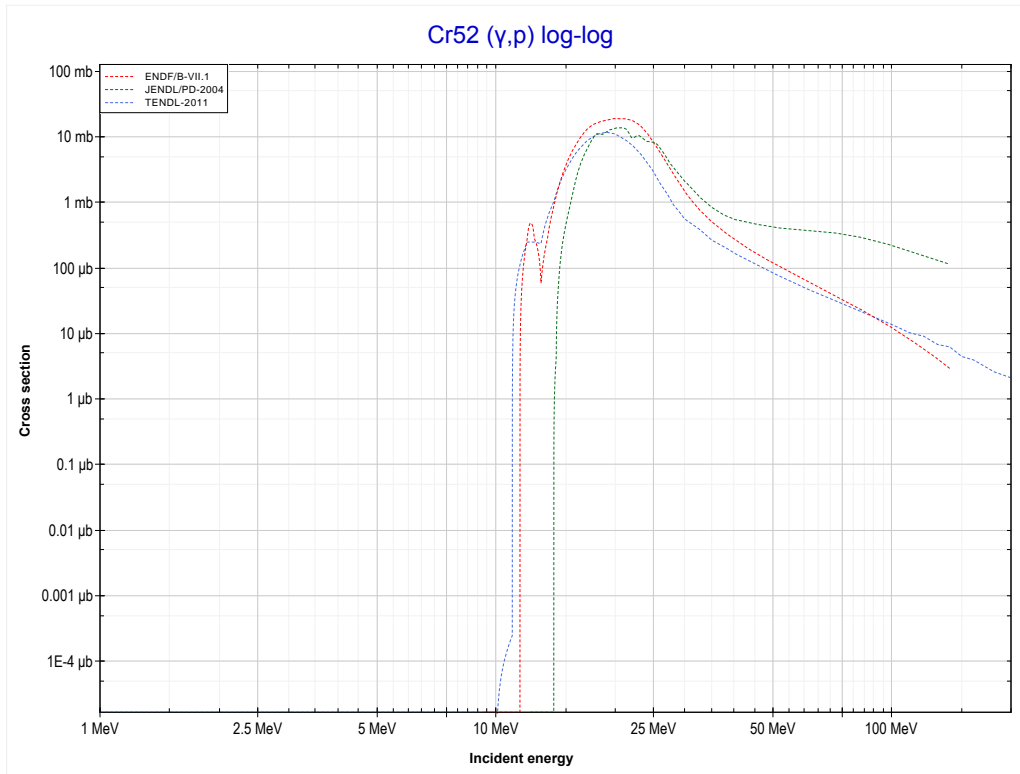
Reaction	Q-Value
Cr50(γ,n)Cr49	-13000.32 keV

<< 23-V-51	24-Cr-52	25-Mn-55 >>
<< MT4 (γ, n)	MT28 ($\gamma, n+p$) or MT5 (V50 production)	MT103 (γ, p) >>



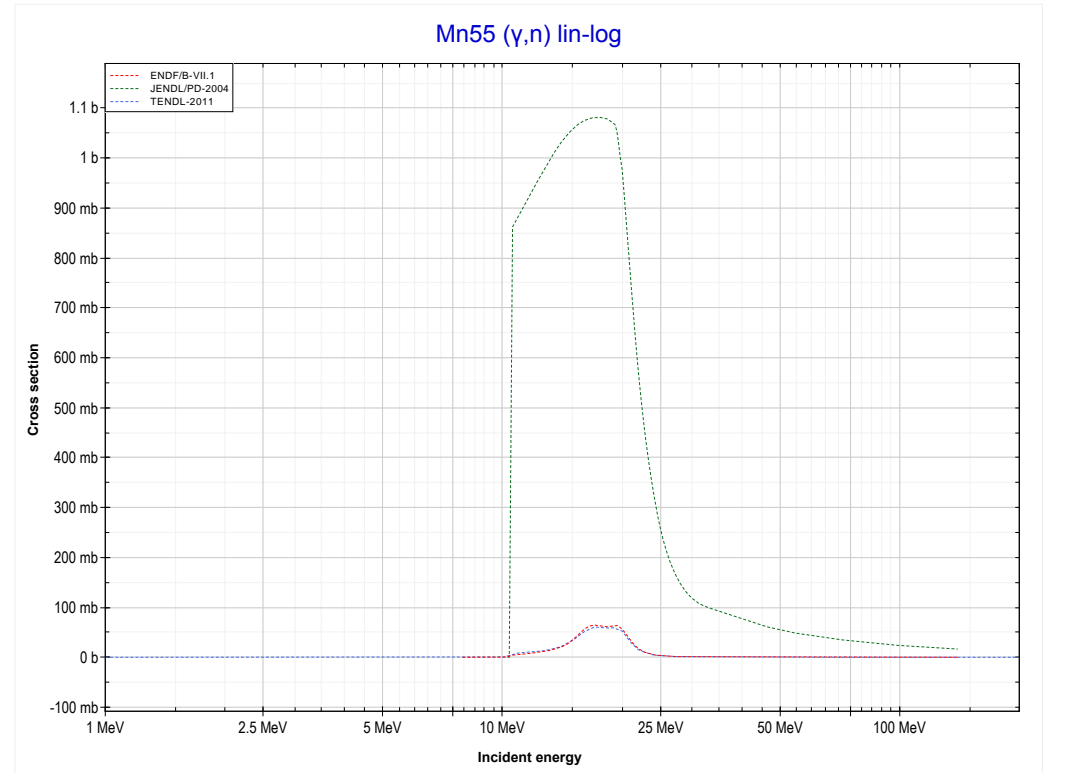
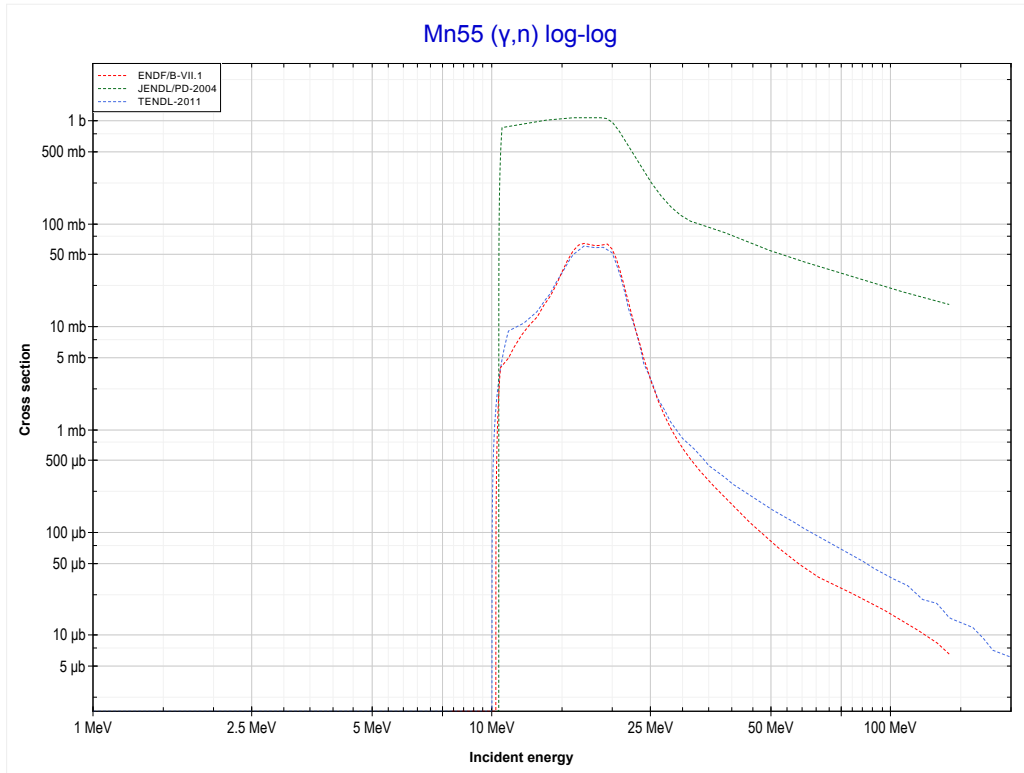
Reaction	Q-Value
Cr52(γ, d)V50	-19331.02 keV
Cr52($\gamma, n+p$)V50	-21555.59 keV

<< 20-Ca-48	24-Cr-52	26-Fe-54 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (V51 production)	MT4 (γ, n) >>



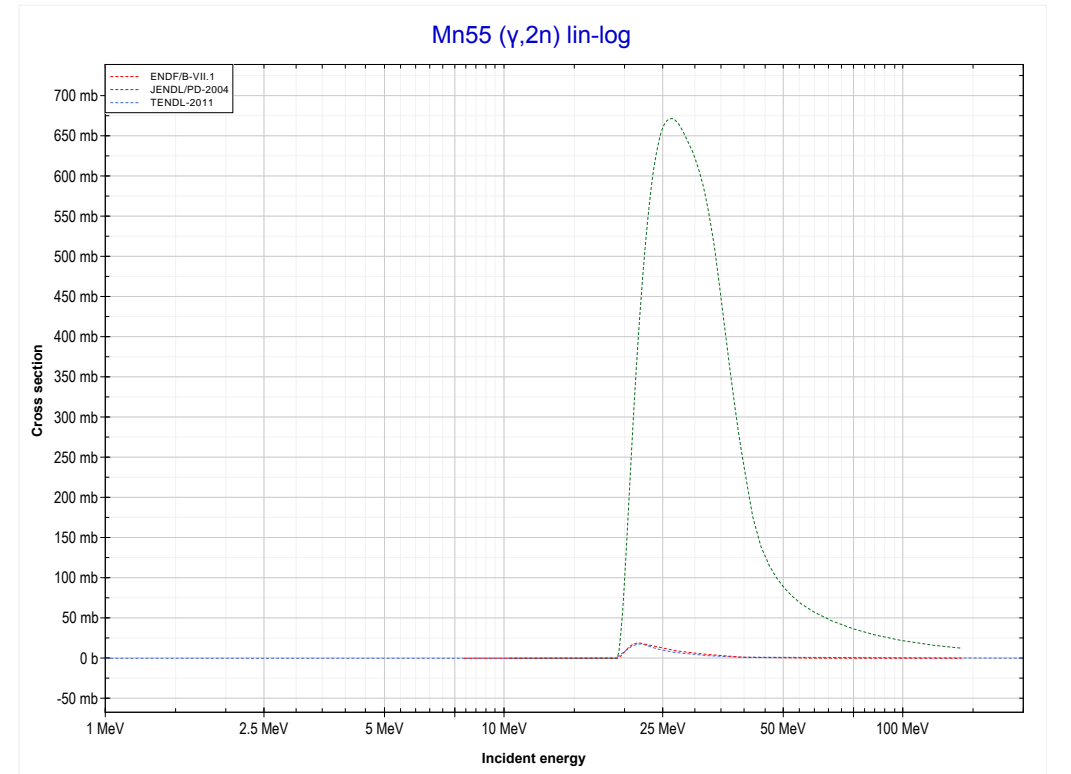
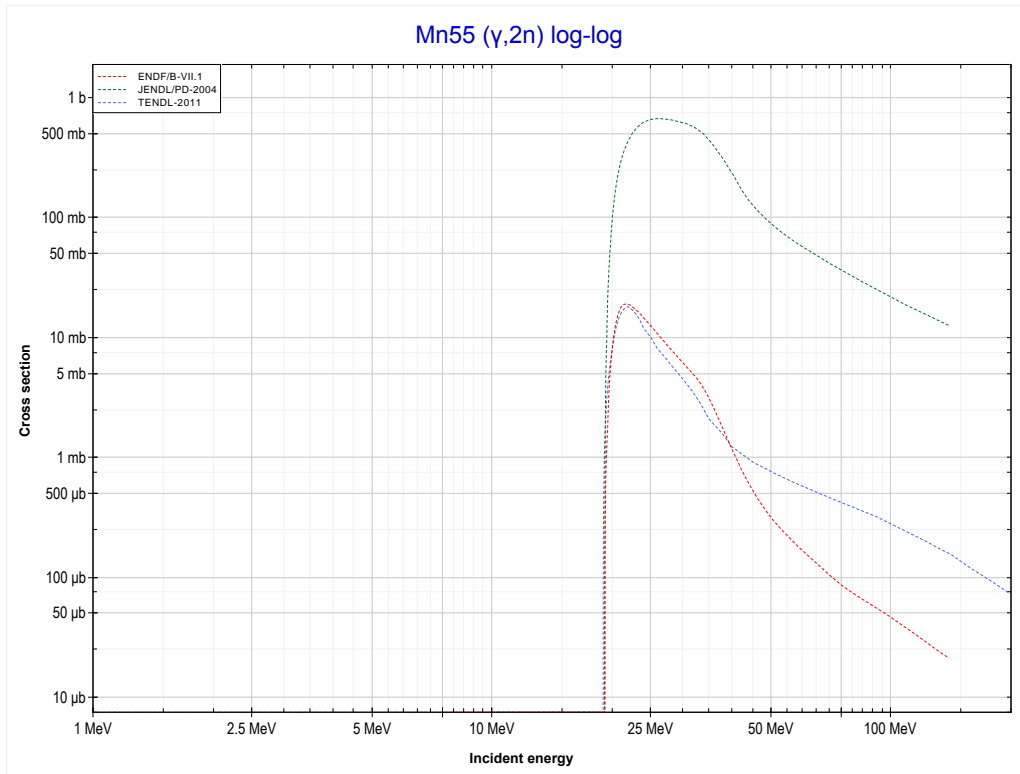
Reaction	Q-Value
Cr52(γ, p)V51	-10504.47 keV

<< 24-Cr-50	25-Mn-55	26-Fe-54 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Mn54 production)	MT16 (γ,2n) >>



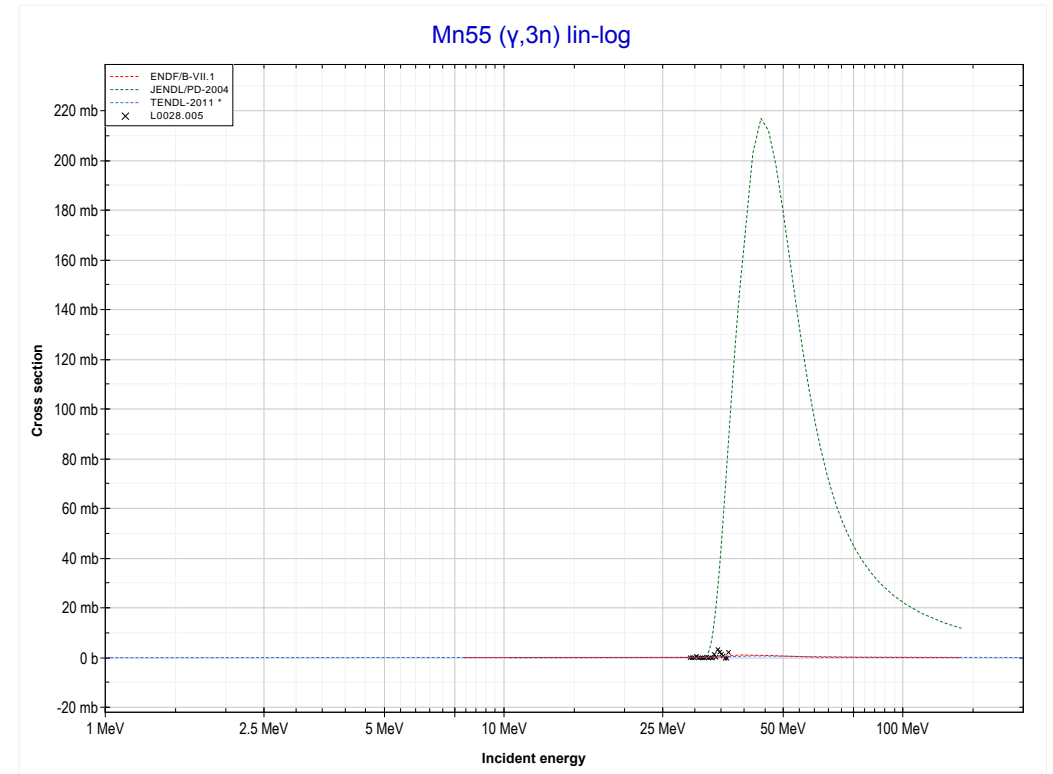
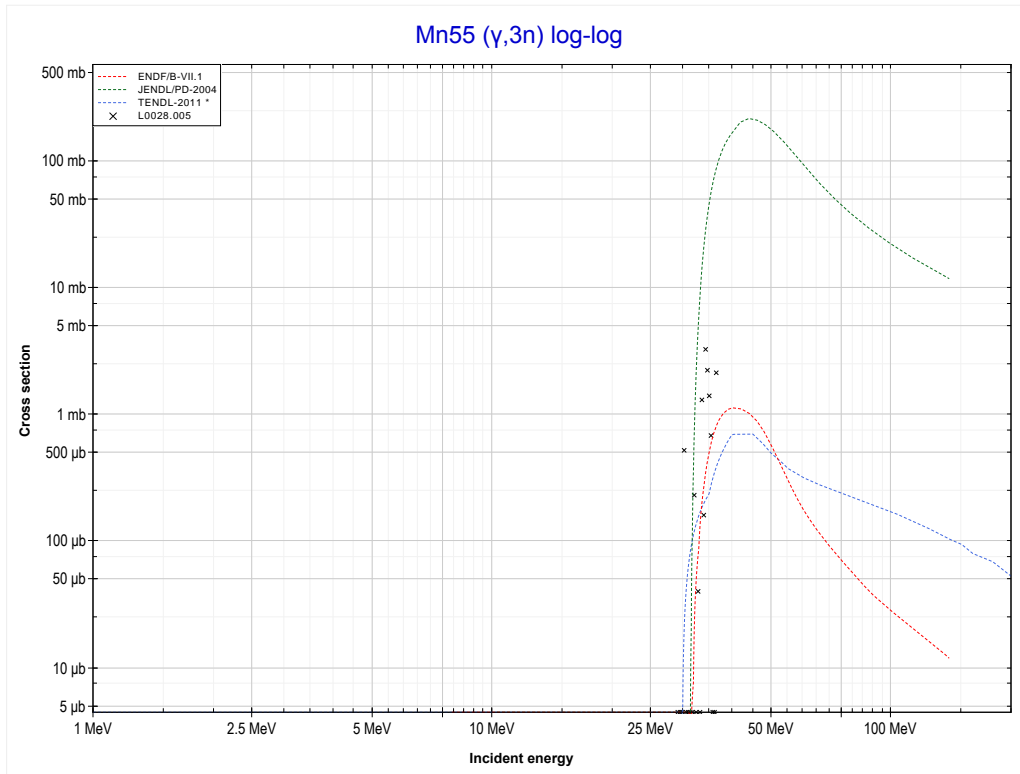
Reaction	Q-Value
Mn55(γ,n)Mn54	-10226.52 keV

<< 23-V-51	25-Mn-55	26-Fe-54 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Mn53 production)	MT17 ($\gamma,3n$) >>



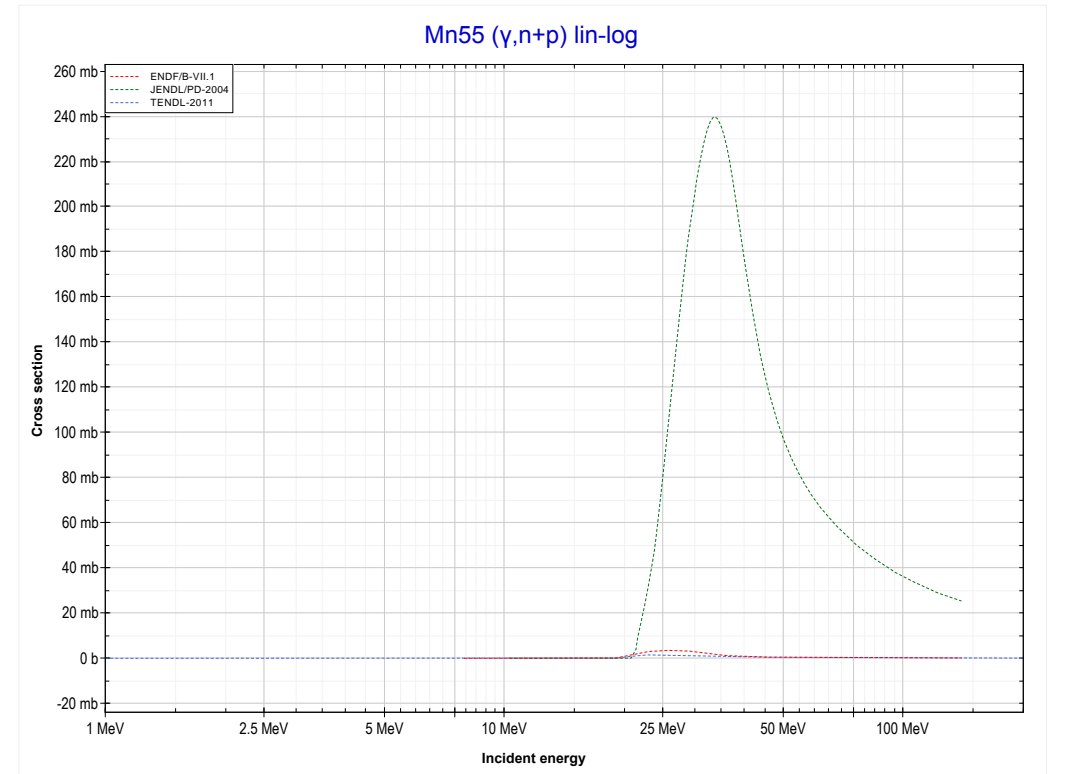
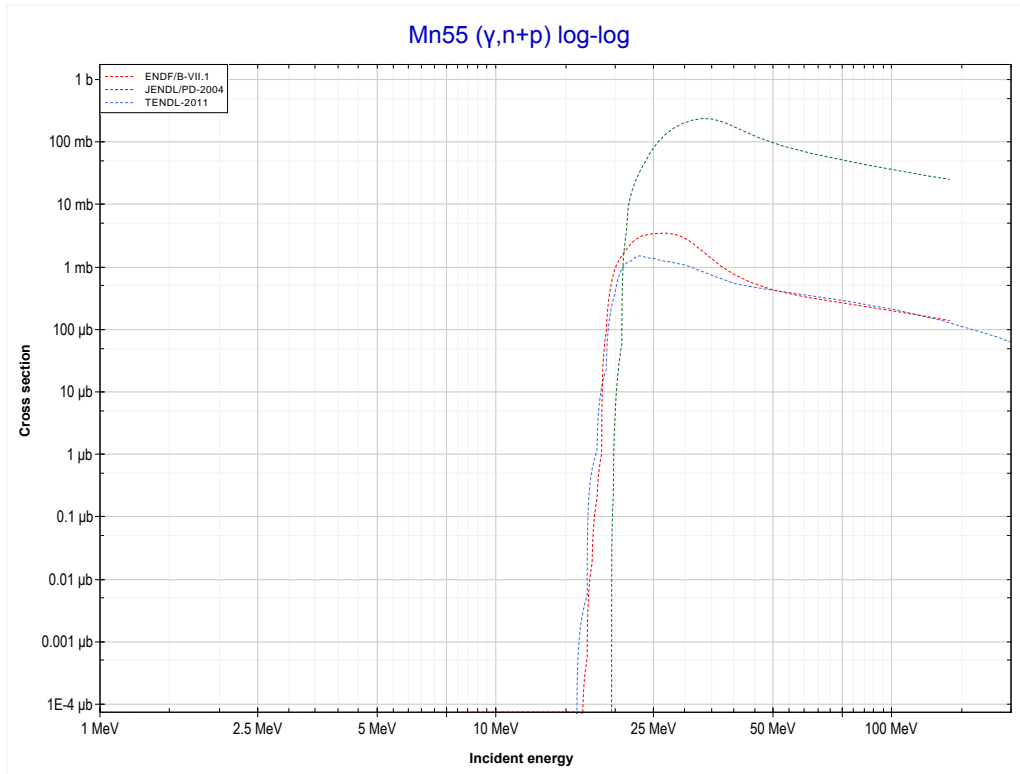
Reaction	Q-Value
Mn55($\gamma,2n$)Mn53	-19165.33 keV

	25-Mn-55	27-Co-59 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Mn52 production)	MT28 ($\gamma,n+p$) >>



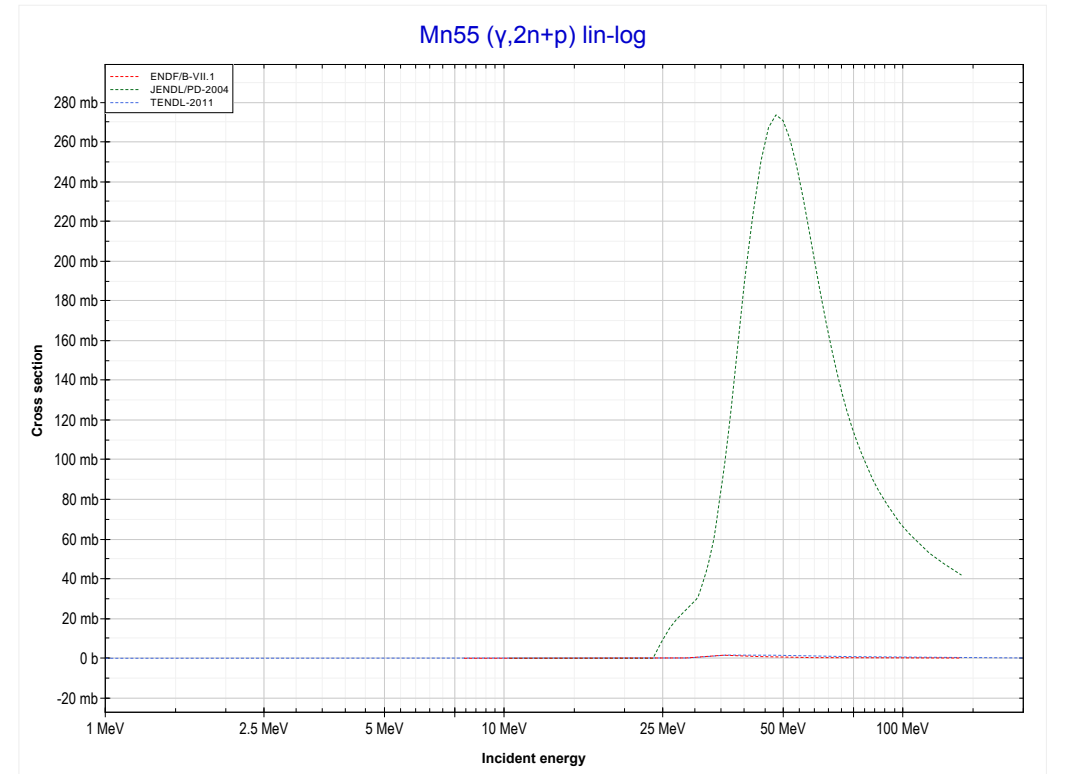
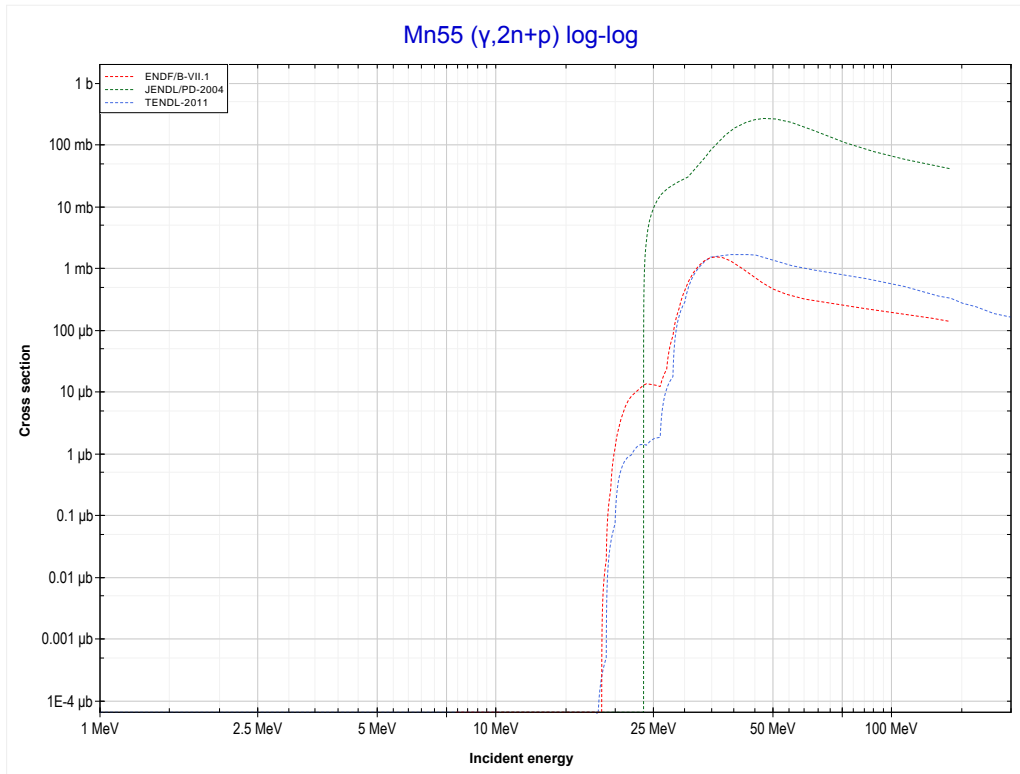
Reaction	Q-Value
Mn55($\gamma,3n$)Mn52	-31219.15 keV

<< 24-Cr-52	25-Mn-55	26-Fe-54 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Cr53 production)	MT41 ($\gamma,2n+p$) >>



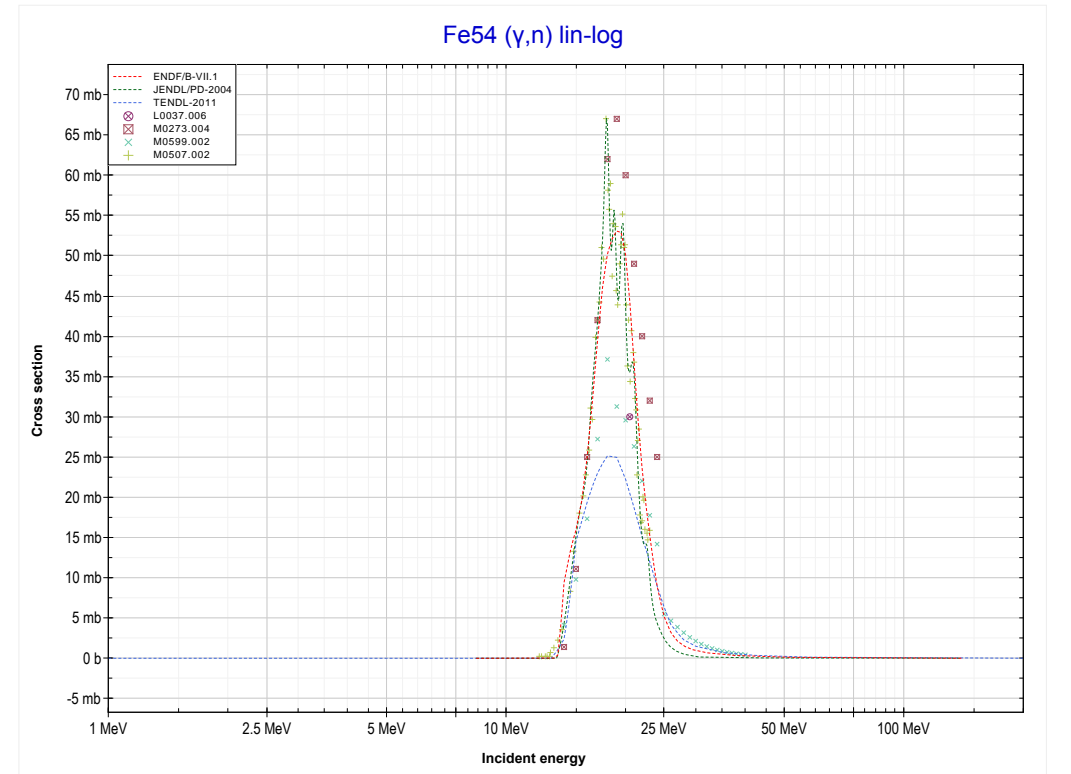
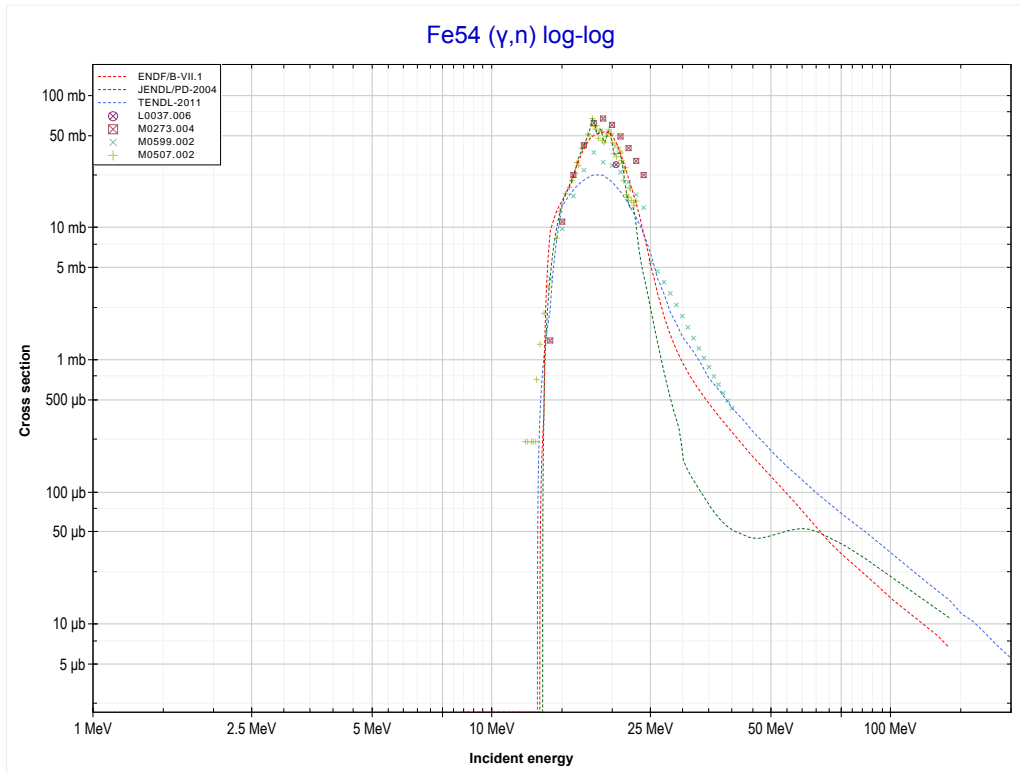
Reaction	Q-Value
Mn55(γ,d)Cr53	-15561.62 keV
Mn55($\gamma,n+p$)Cr53	-17786.19 keV

<< 23-V-51	25-Mn-55	27-Co-59 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Cr52 production)	MT4 (γ, n) >>



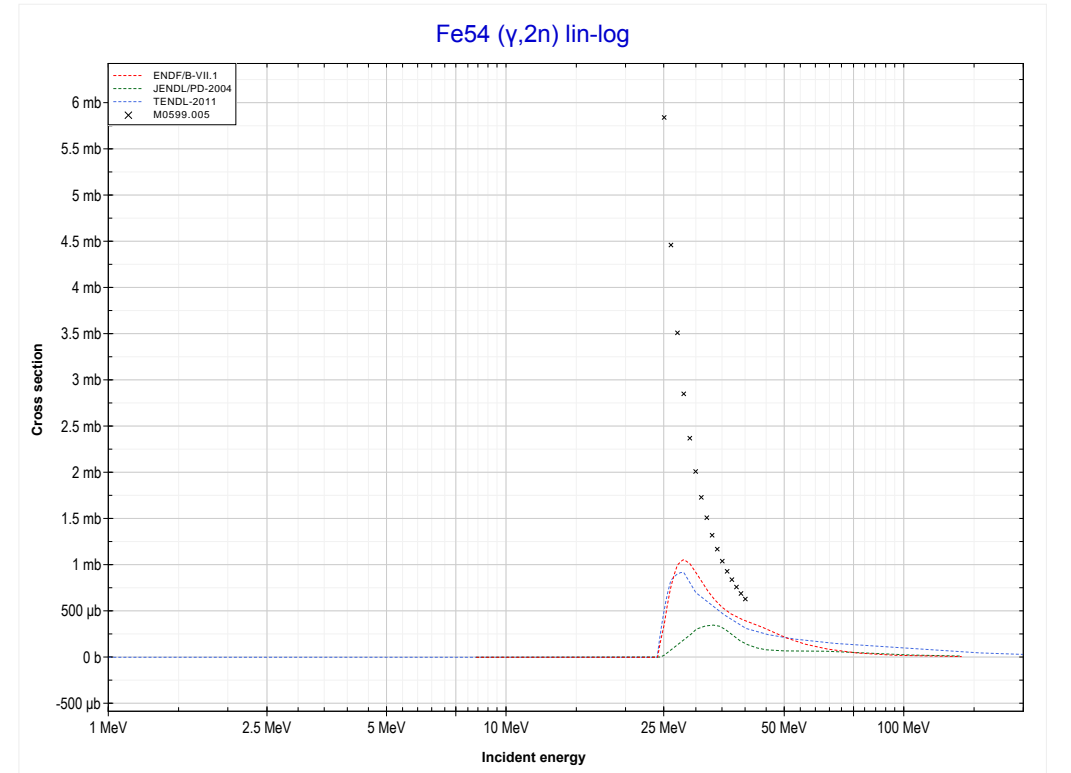
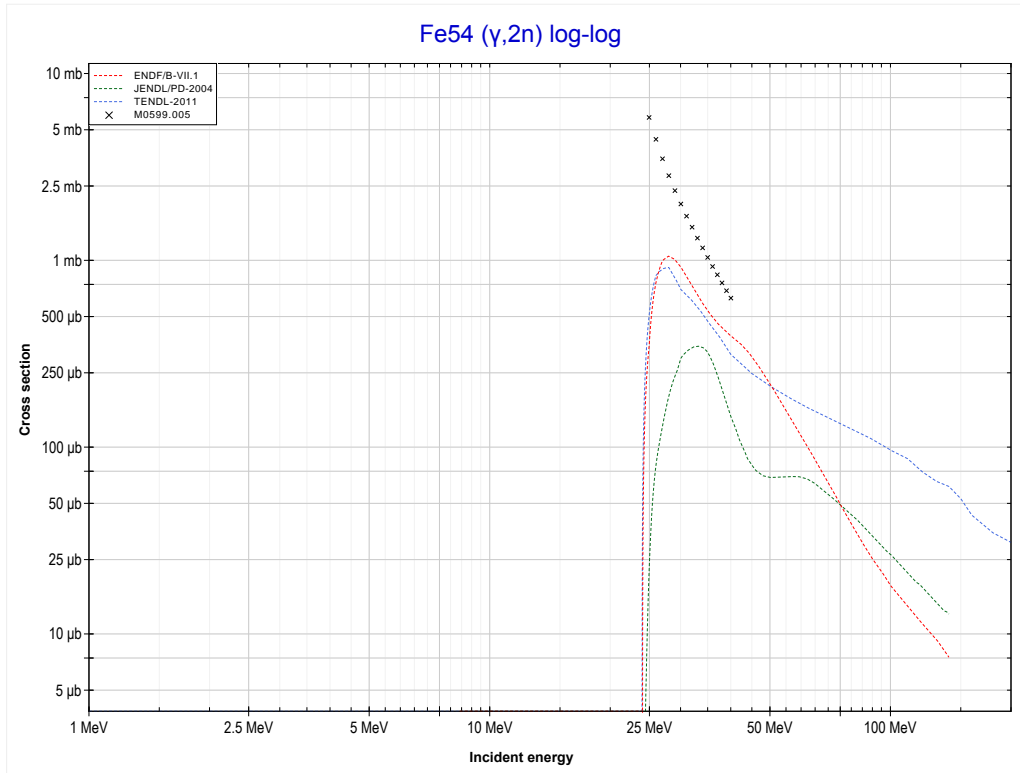
Reaction	Q-Value
Mn55(γ, t)Cr52	-17243.51 keV
Mn55($\gamma, n+d$)Cr52	-23500.74 keV
Mn55($\gamma, 2n+p$)Cr52	-25725.30 keV

<< 25-Mn-55	26-Fe-54	26-Fe-56 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Fe53 production)	MT16 ($\gamma,2n$) >>



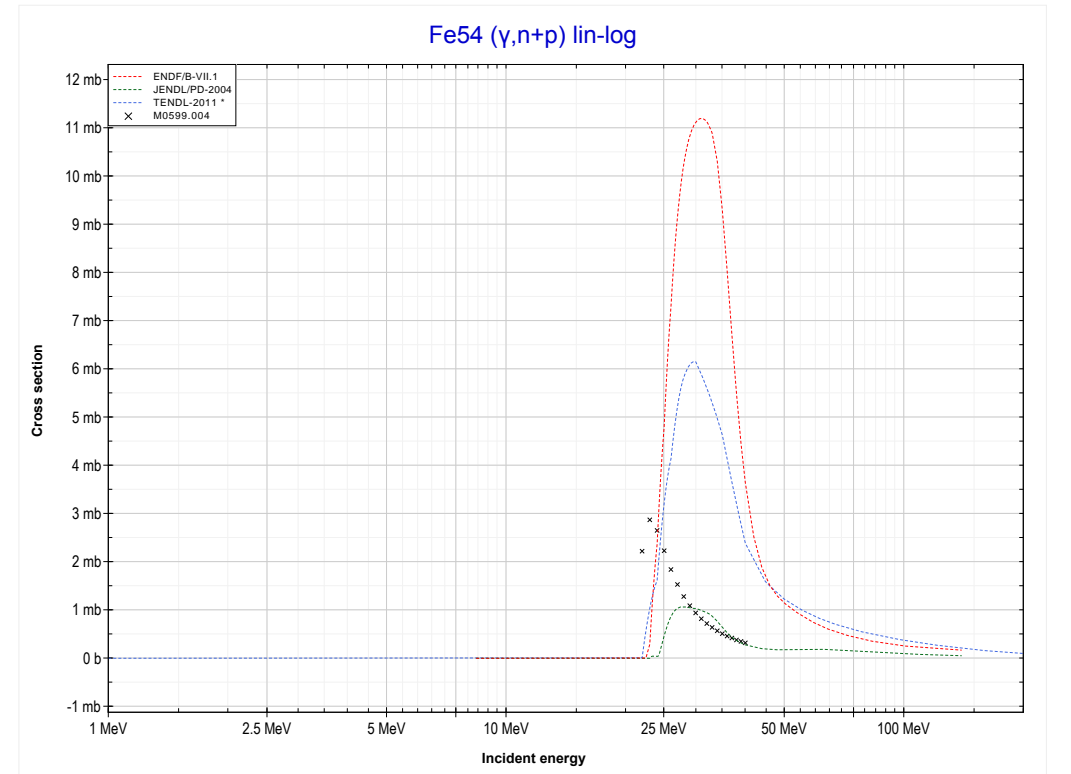
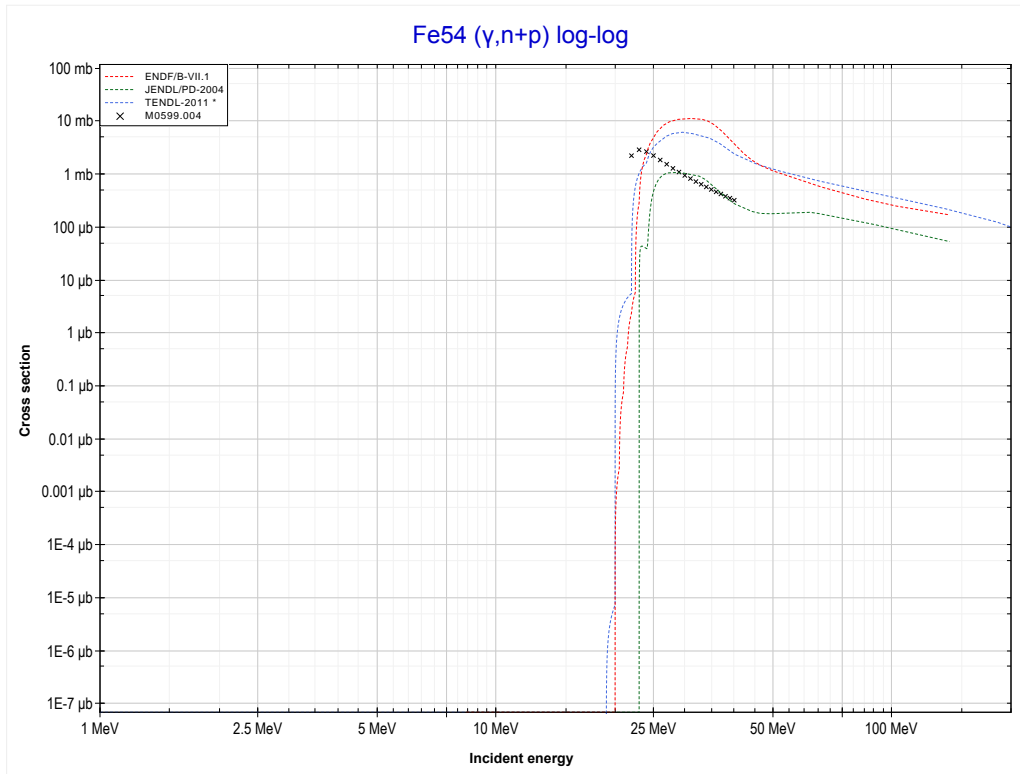
Reaction	Q-Value
Fe54(γ,n)Fe53	-13378.52 keV

<< 25-Mn-55	26-Fe-54	26-Fe-56 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Fe52 production)	MT28 ($\gamma,n+p$) >>



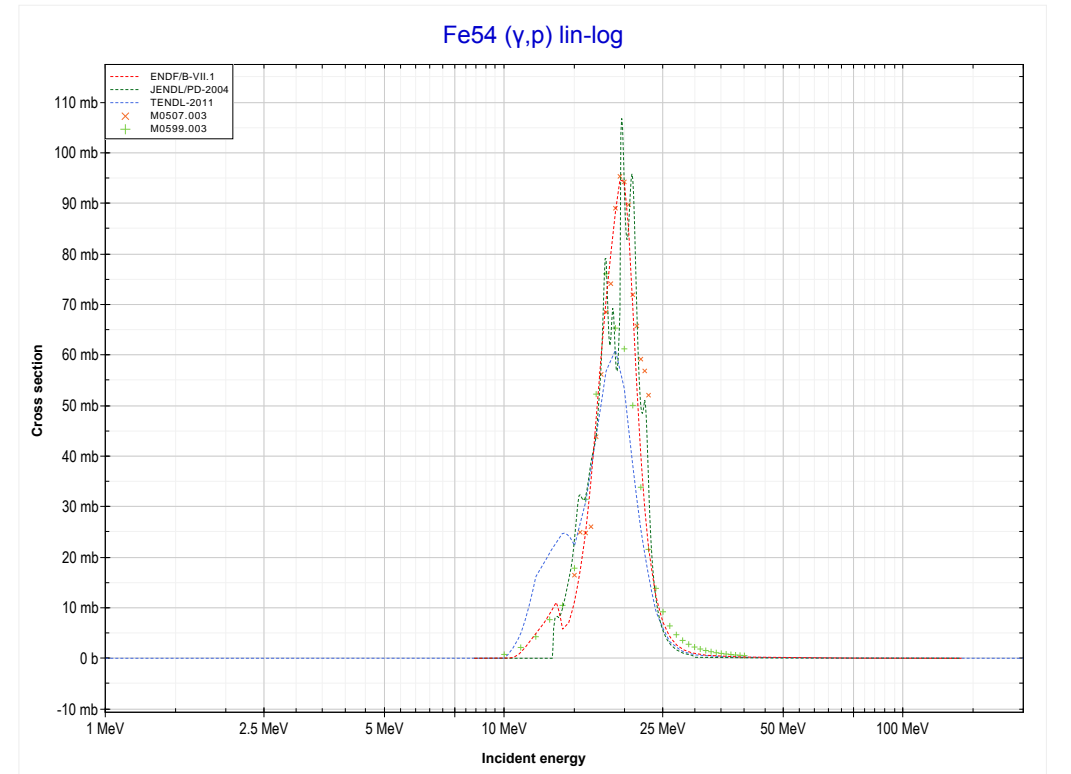
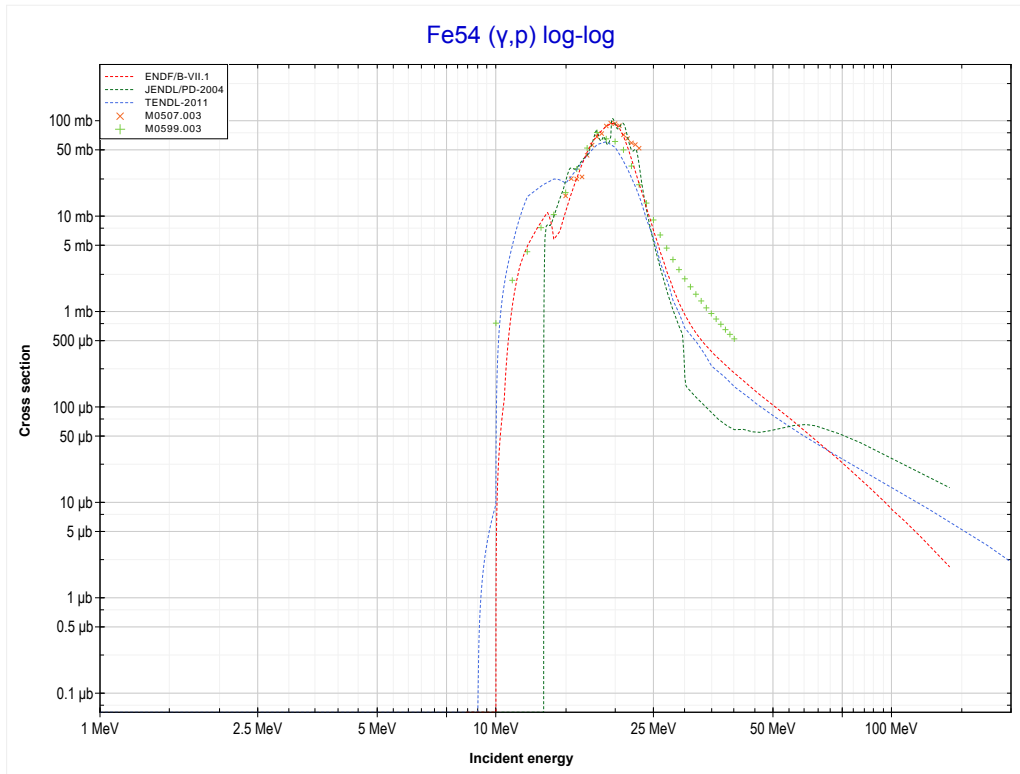
Reaction	Q-Value
Fe54($\gamma,2n$)Fe52	-24063.13 keV

<< 25-Mn-55	26-Fe-54	26-Fe-56 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Mn52 production)	MT103 (γ,p) >>



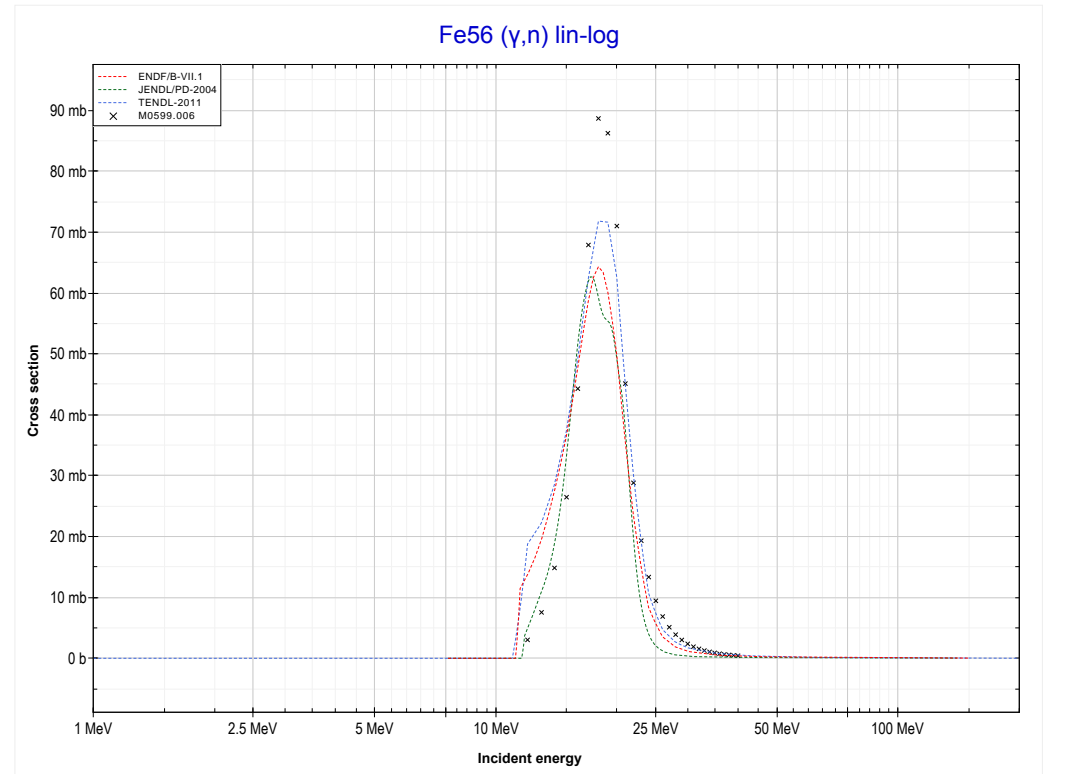
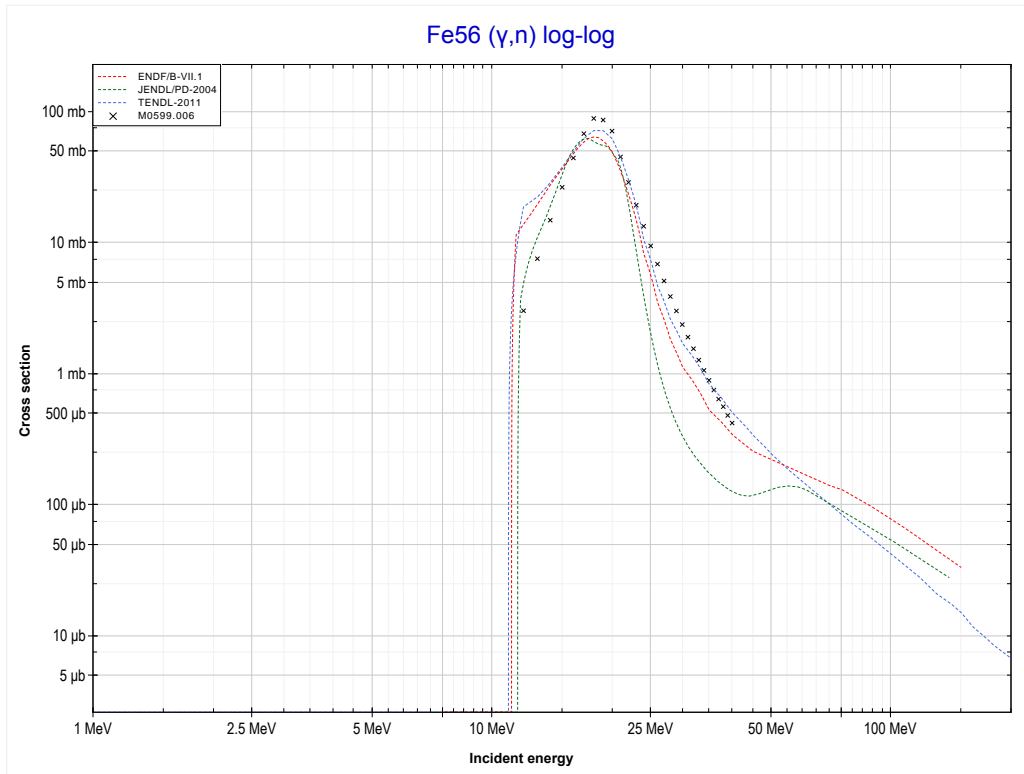
Reaction	Q-Value
Fe54(γ,d)Mn52	-18682.82 keV
Fe54($\gamma,n+p$)Mn52	-20907.39 keV

<< 24-Cr-52	26-Fe-54	26-Fe-56 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (Mn53 production)	MT4 (γ, n) >>



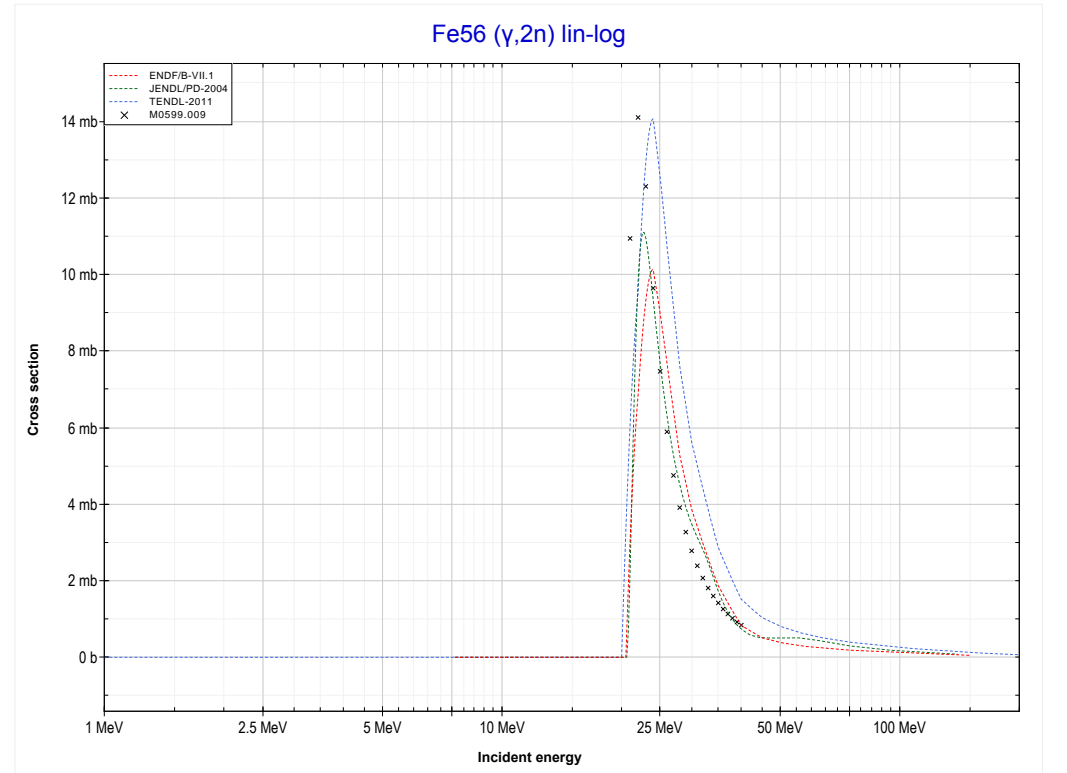
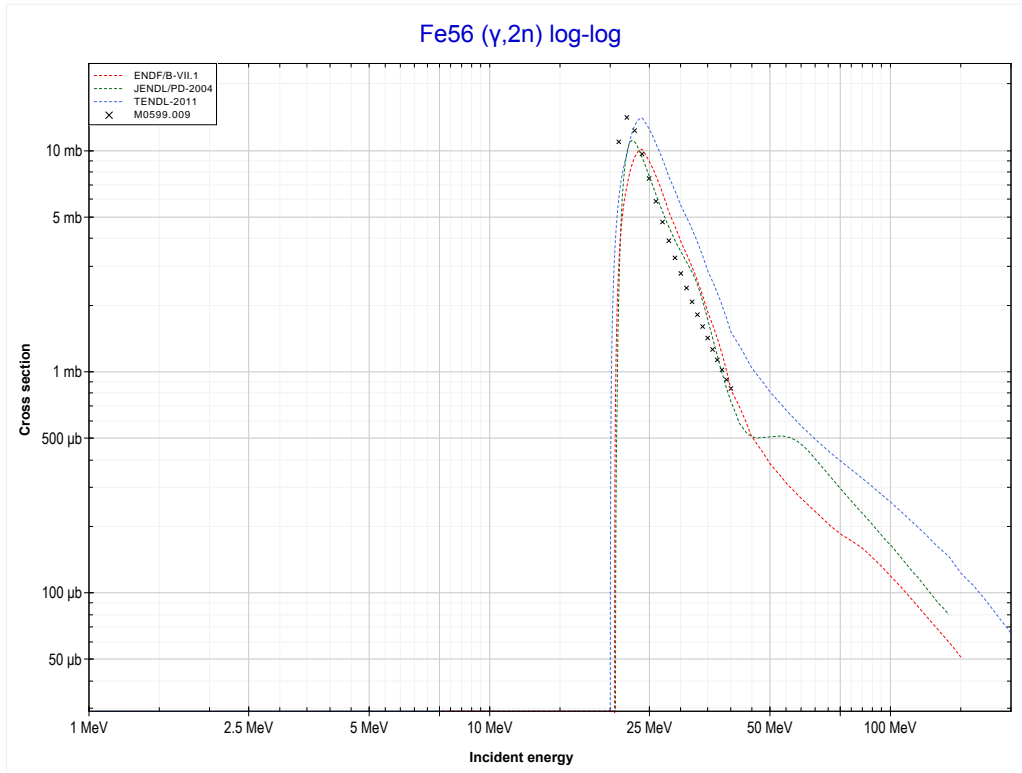
Reaction	Q-Value
Fe54(γ, p)Mn53	-8853.57 keV

<< 26-Fe-54	26-Fe-56	27-Co-59 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Fe55 production)	MT16 (γ,2n) >>



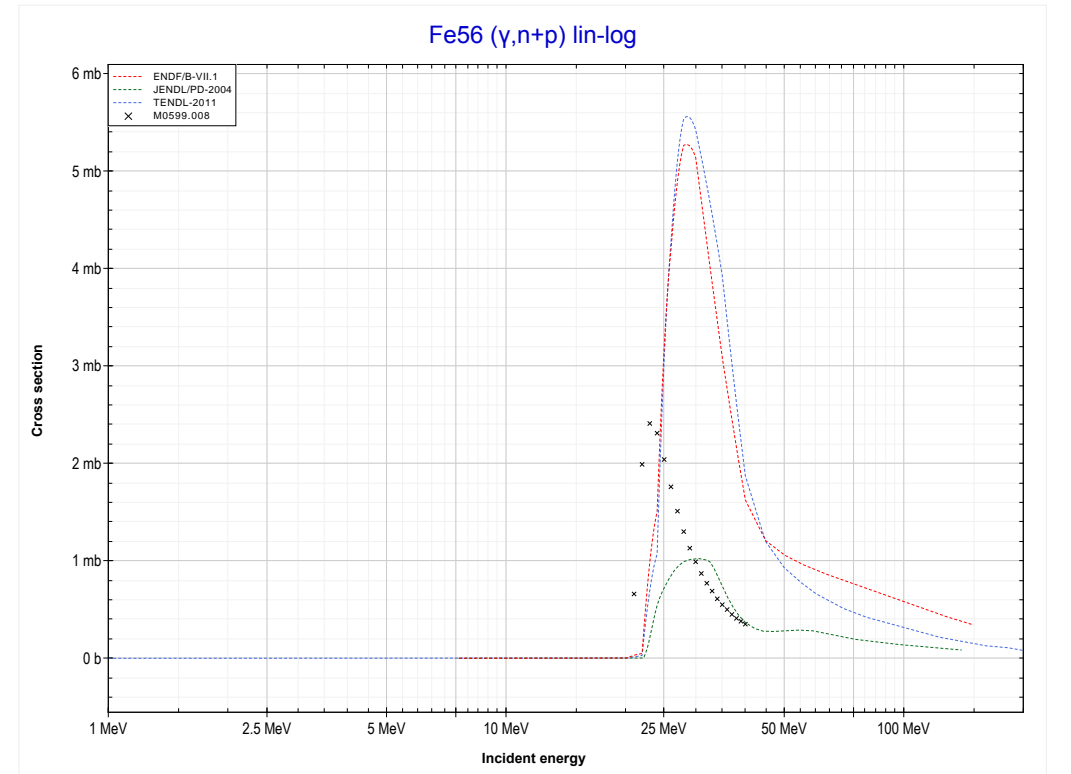
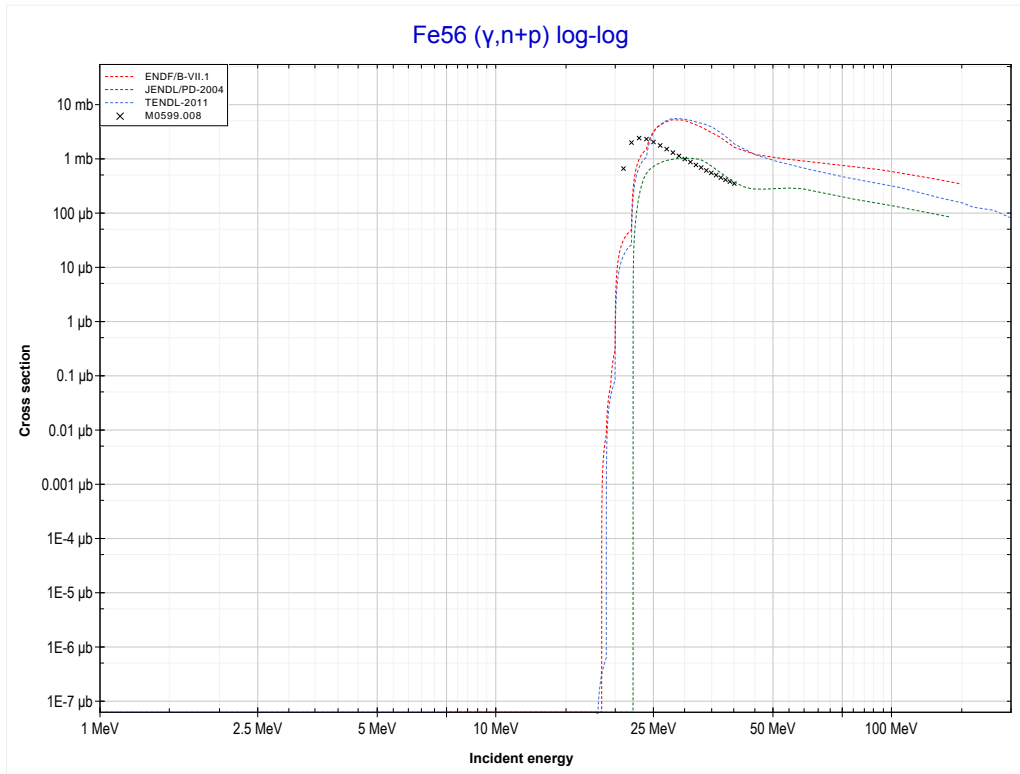
Reaction	Q-Value
Fe56(γ,n)Fe55	-11197.32 keV

<< 26-Fe-54	26-Fe-56	27-Co-59 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Fe54 production)	MT28 ($\gamma,n+p$) >>



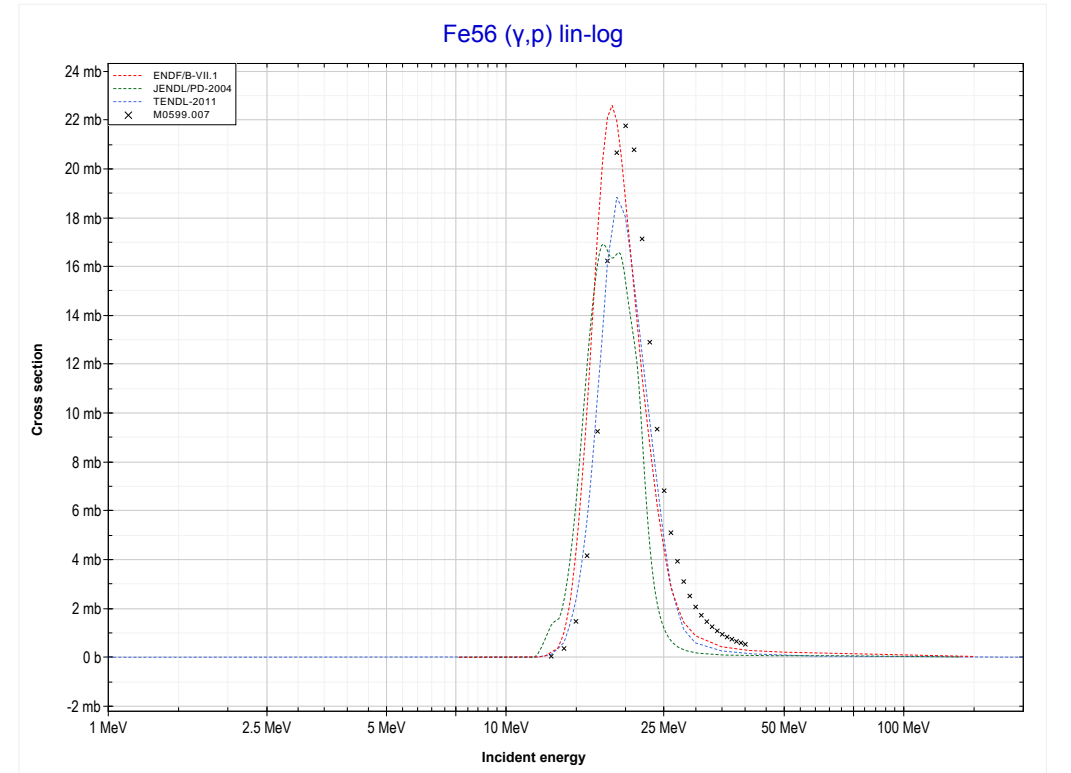
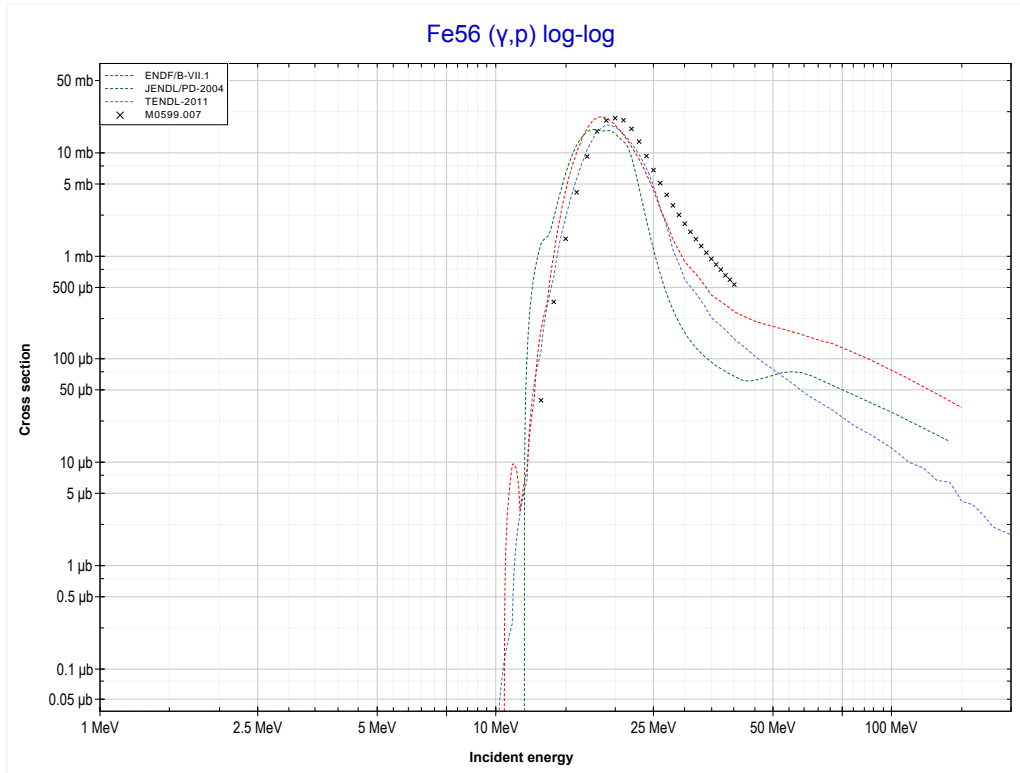
Reaction	Q-Value
Fe56($\gamma,2n$)Fe54	-20495.53 keV

<< 26-Fe-54	26-Fe-56	27-Co-59 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Mn54 production)	MT103 (γ,p) >>



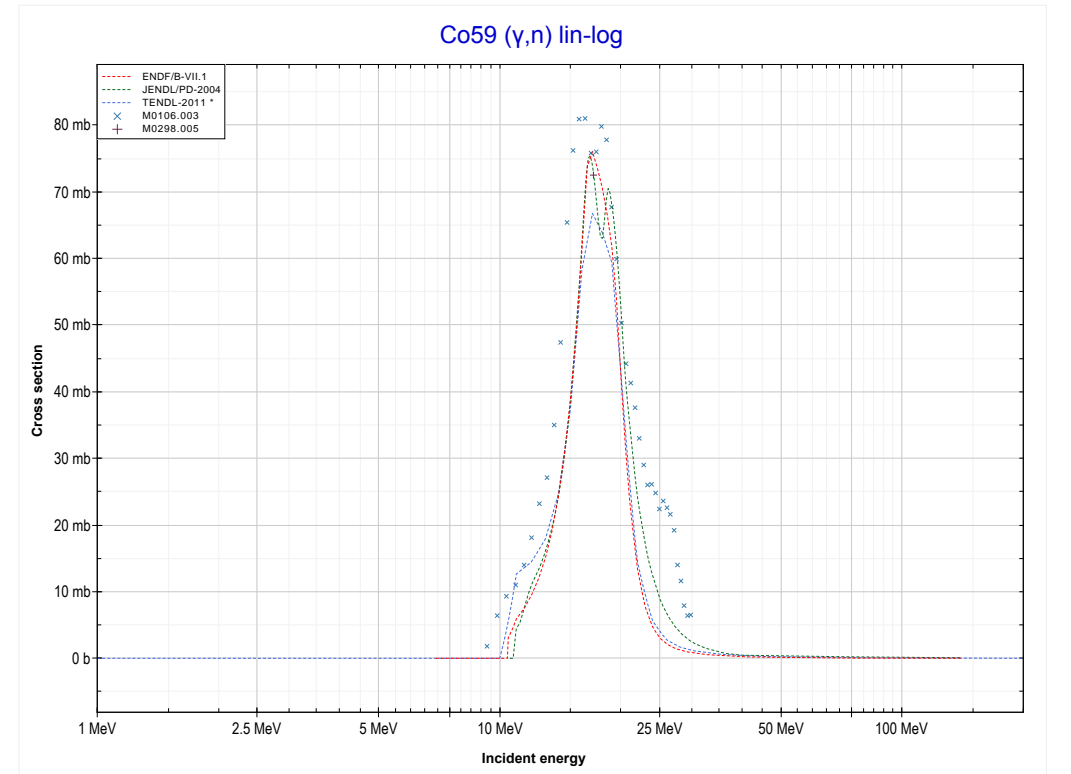
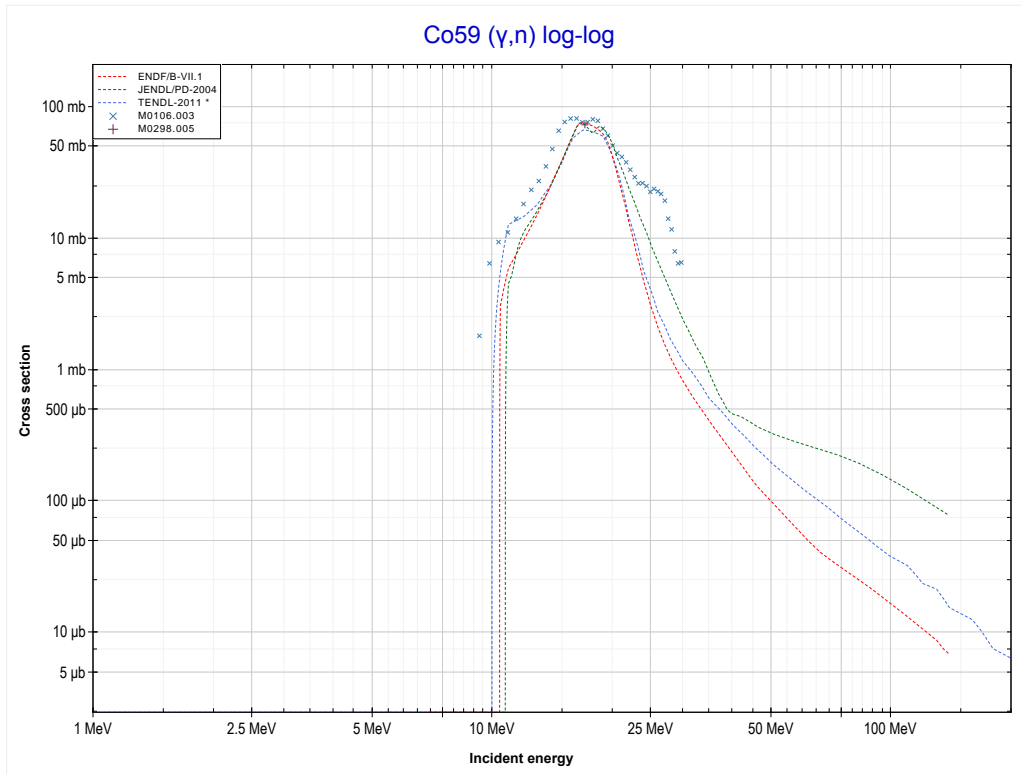
Reaction	Q-Value
Fe56(γ,d)Mn54	-18185.72 keV
Fe56($\gamma,n+p$)Mn54	-20410.29 keV

<< 26-Fe-54	26-Fe-56	28-Ni-58 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (Mn55 production)	MT4 (γ, n) >>



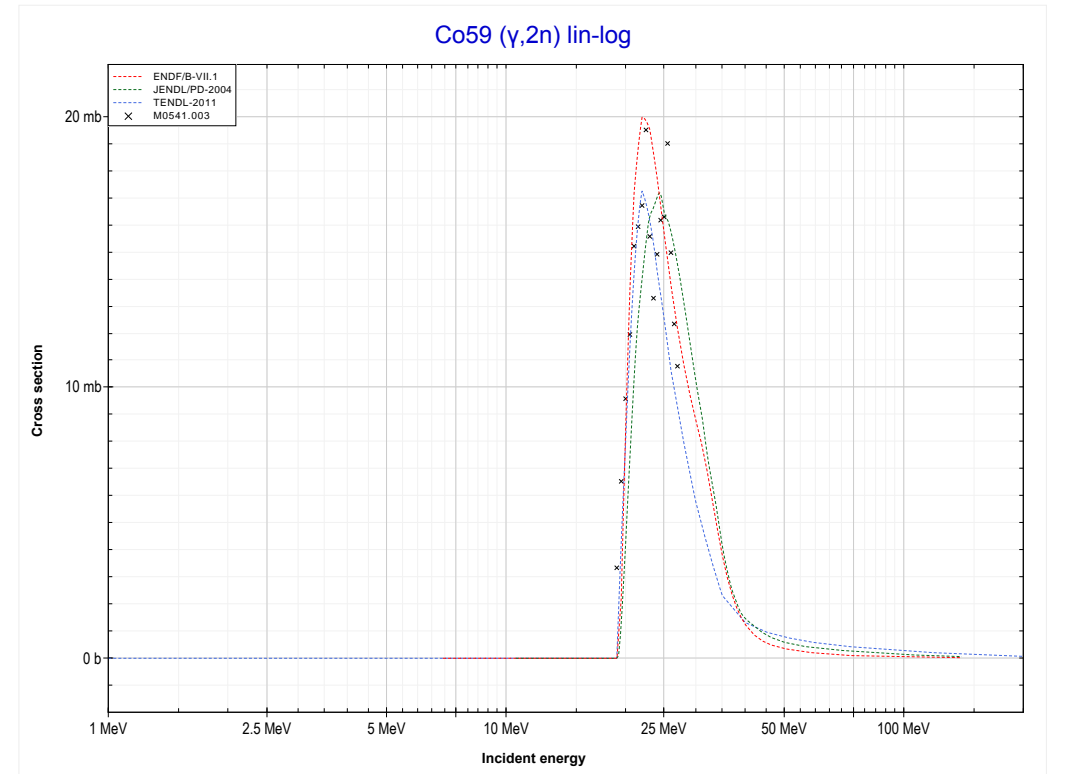
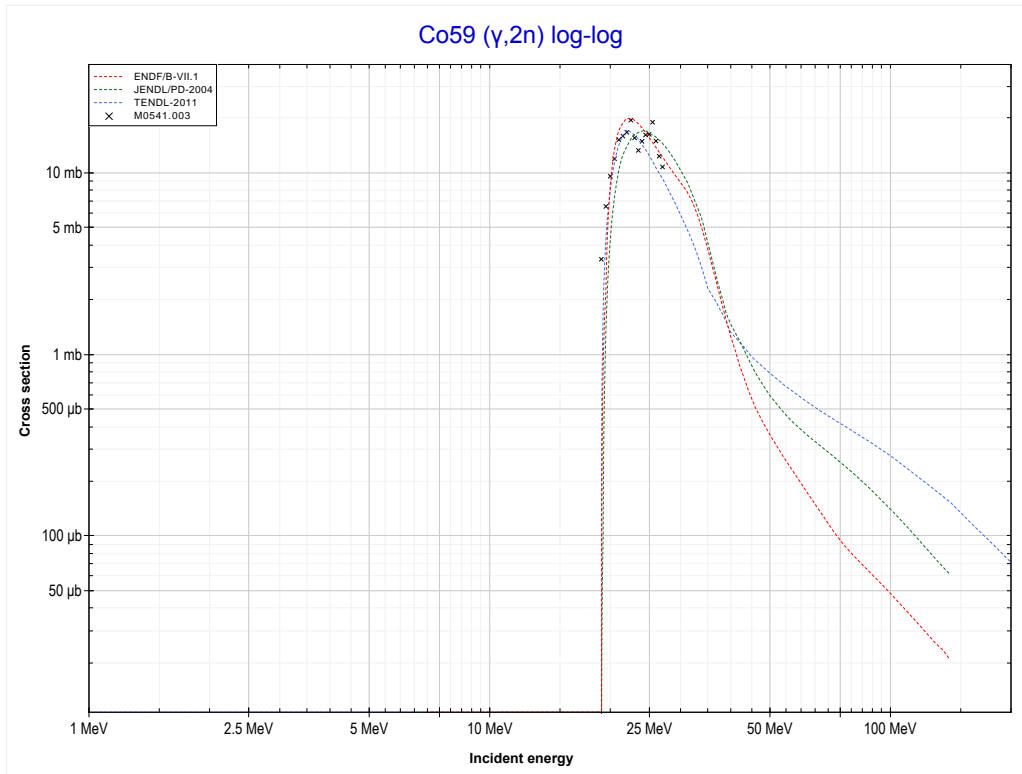
Reaction	Q-Value
Fe56(γ, p)Mn55	-10183.77 keV

<< 26-Fe-56	27-Co-59	28-Ni-58 >>
<< MT103 (γ, p)	MT4 (γ, n) or MT5 (Co58 production)	MT16 ($\gamma, 2n$) >>



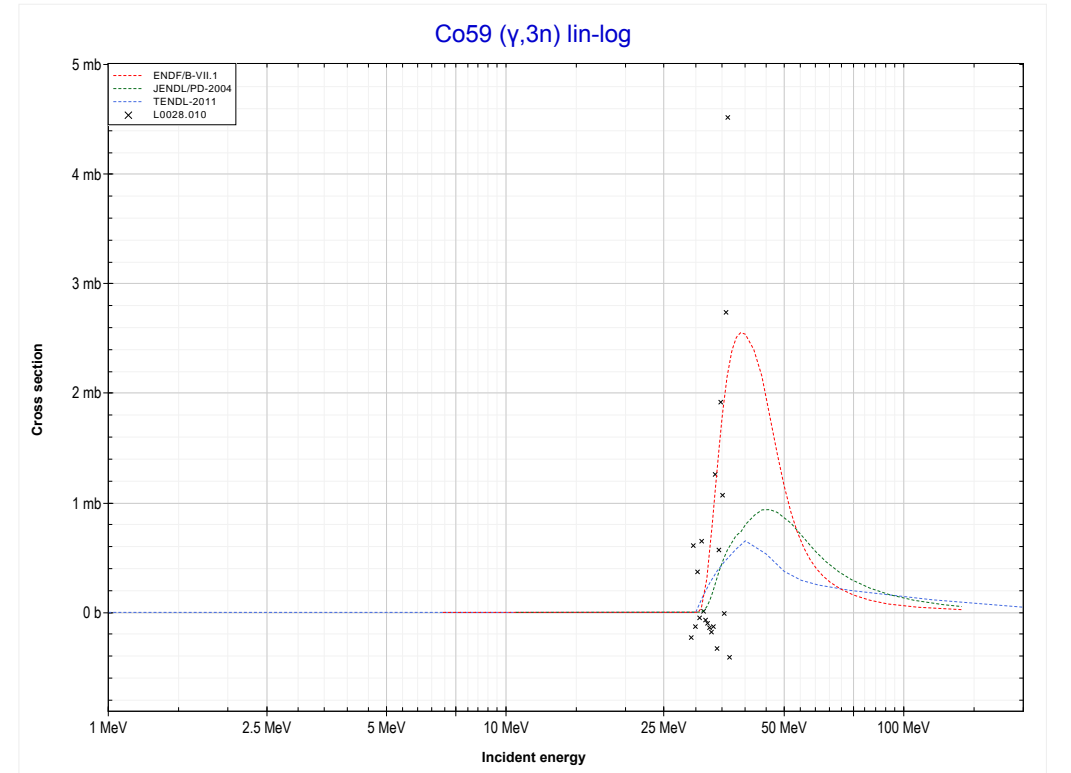
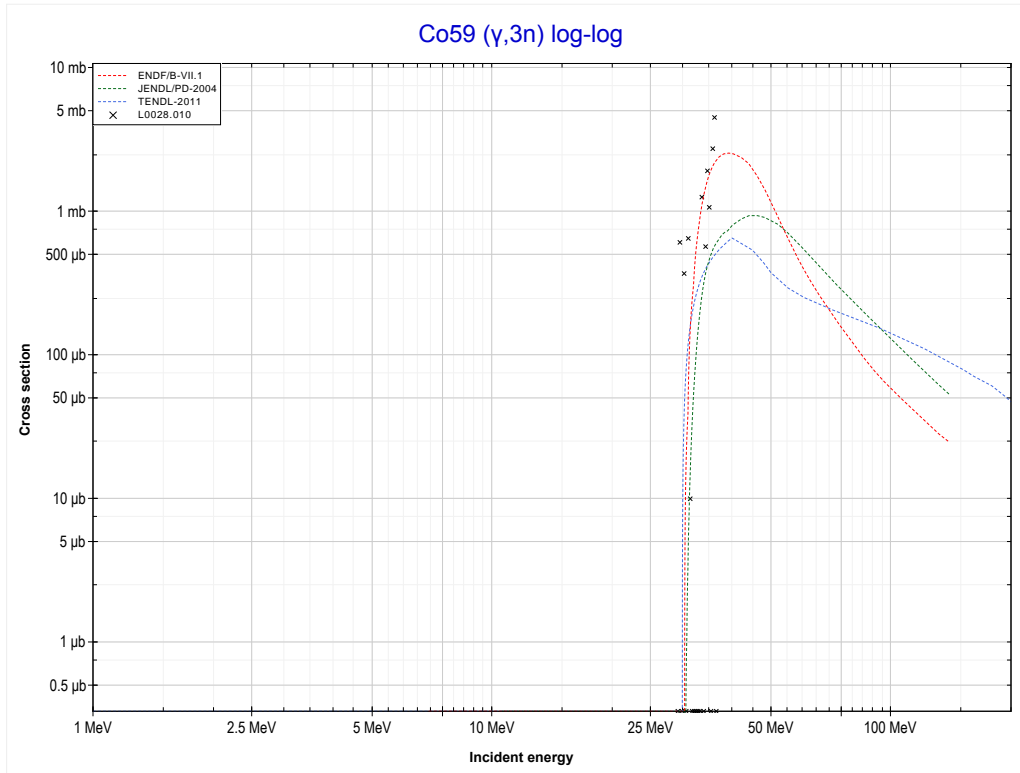
Reaction	Q-Value
Co59(γ, n)Co58	-10453.82 keV

<< 26-Fe-56	27-Co-59	28-Ni-58 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Co57 production)	MT17 ($\gamma,3n$) >>



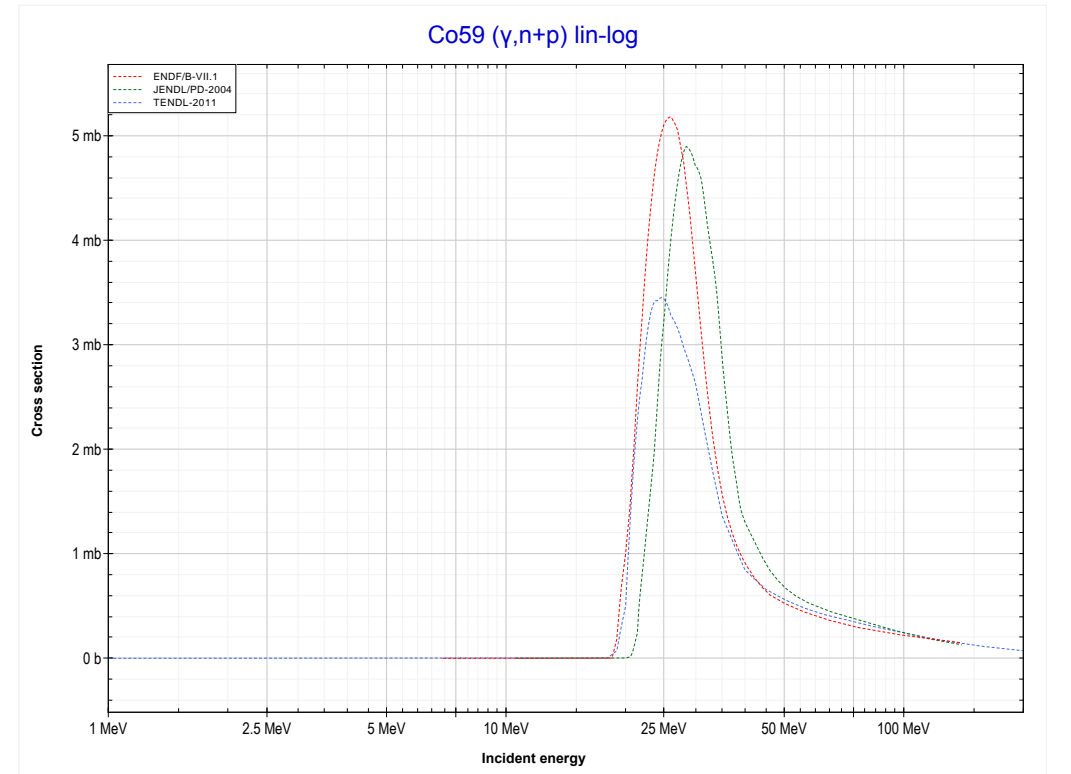
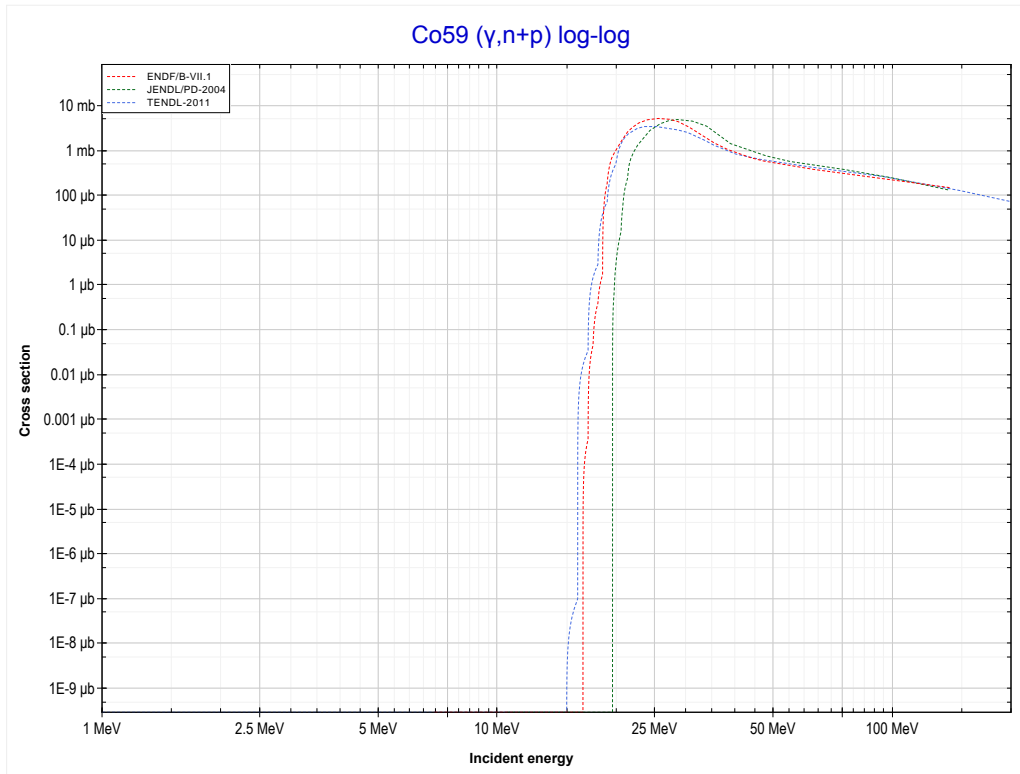
Reaction	Q-Value
Co59($\gamma,2n$)Co57	-19026.83 keV

<< 25-Mn-55	27-Co-59	40-Zr-94 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Co56 production)	MT28 ($\gamma,n+p$) >>



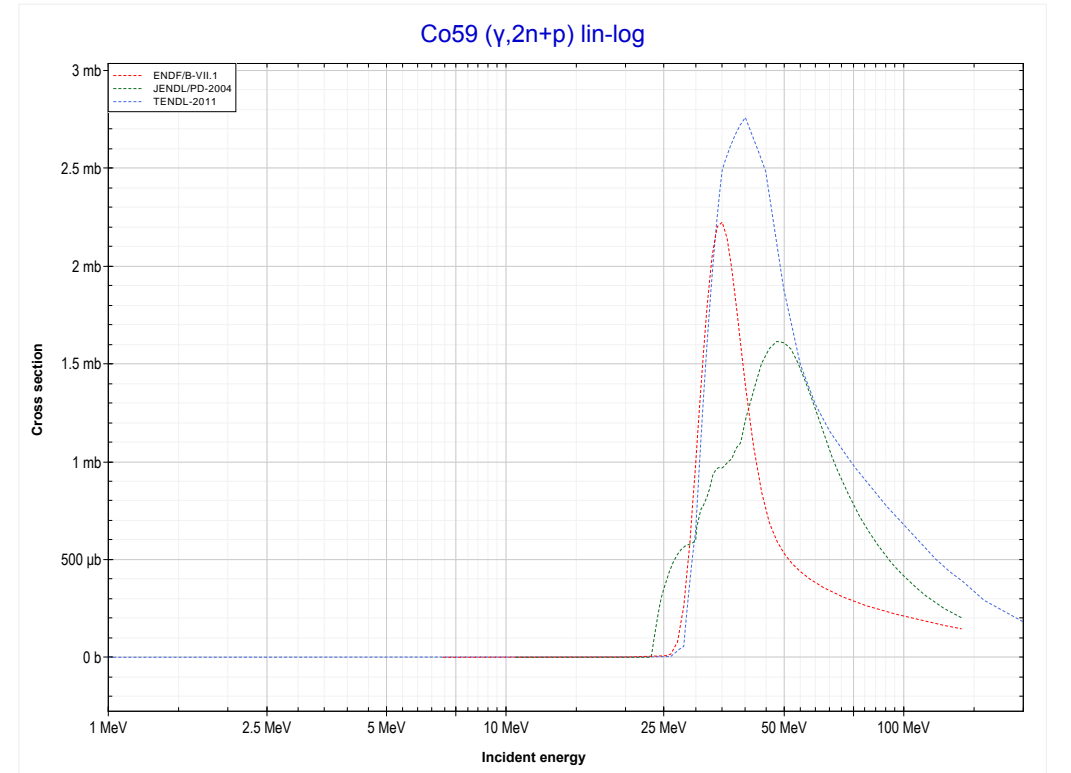
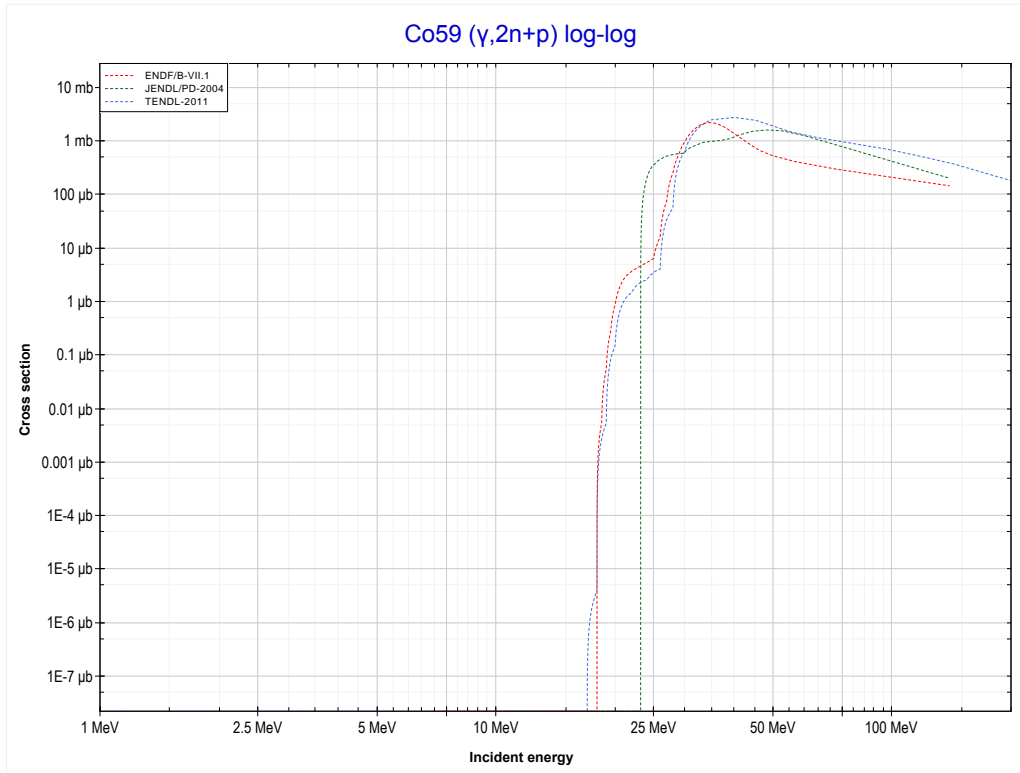
Reaction	Q-Value
Co59($\gamma,3n$)Co56	-30402.95 keV

<< 26-Fe-56	27-Co-59	28-Ni-58 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Fe57 production)	MT41 ($\gamma,2n+p$) >>



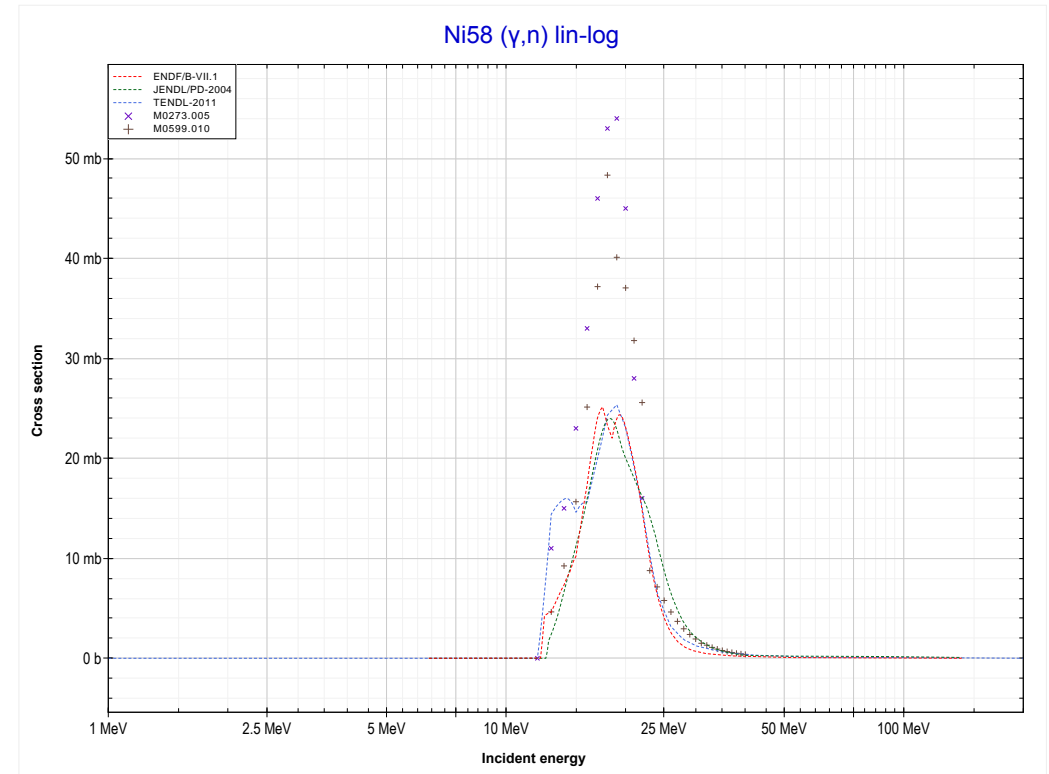
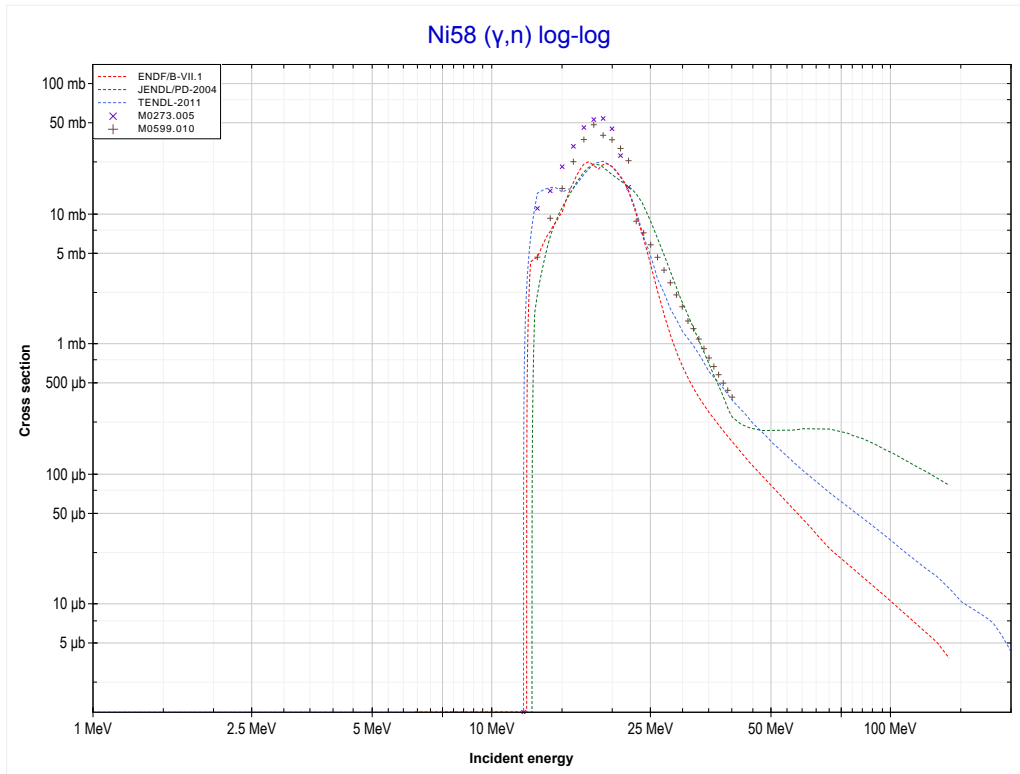
Reaction	Q-Value
$\text{Co59}(\gamma,d)\text{Fe57}$	-15184.02 keV
$\text{Co59}(\gamma,n+p)\text{Fe57}$	-17408.59 keV

<< 25-Mn-55	27-Co-59	28-Ni-58 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Fe56 production)	MT4 (γ, n) >>



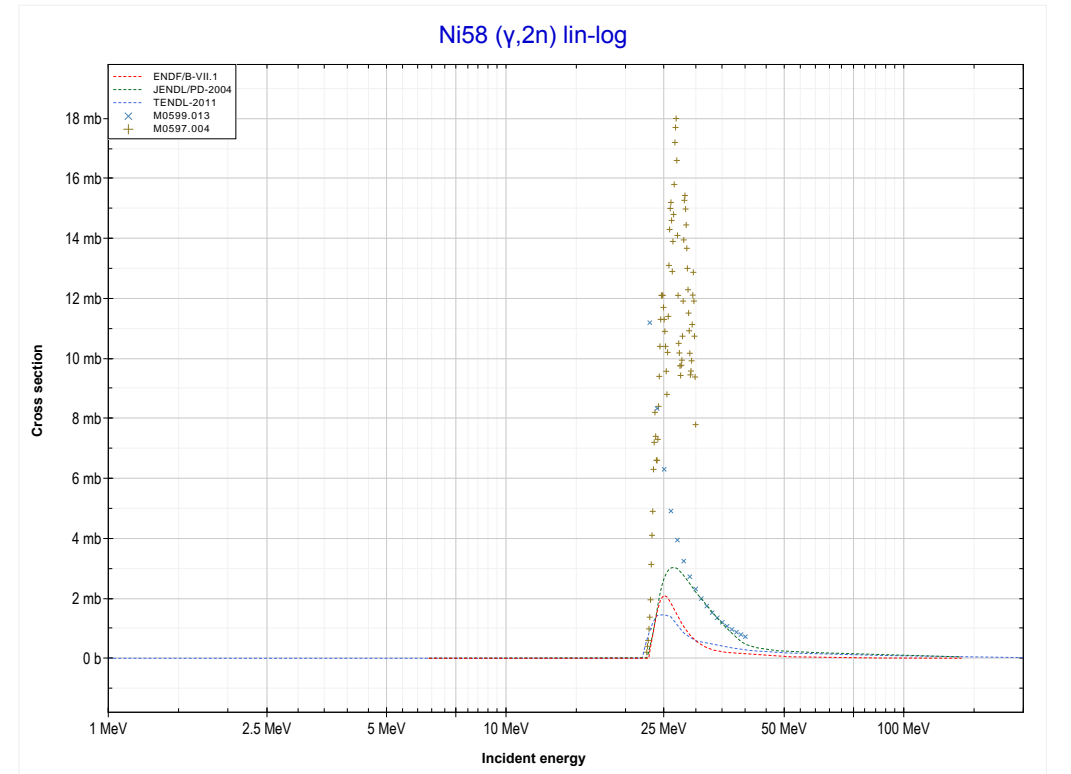
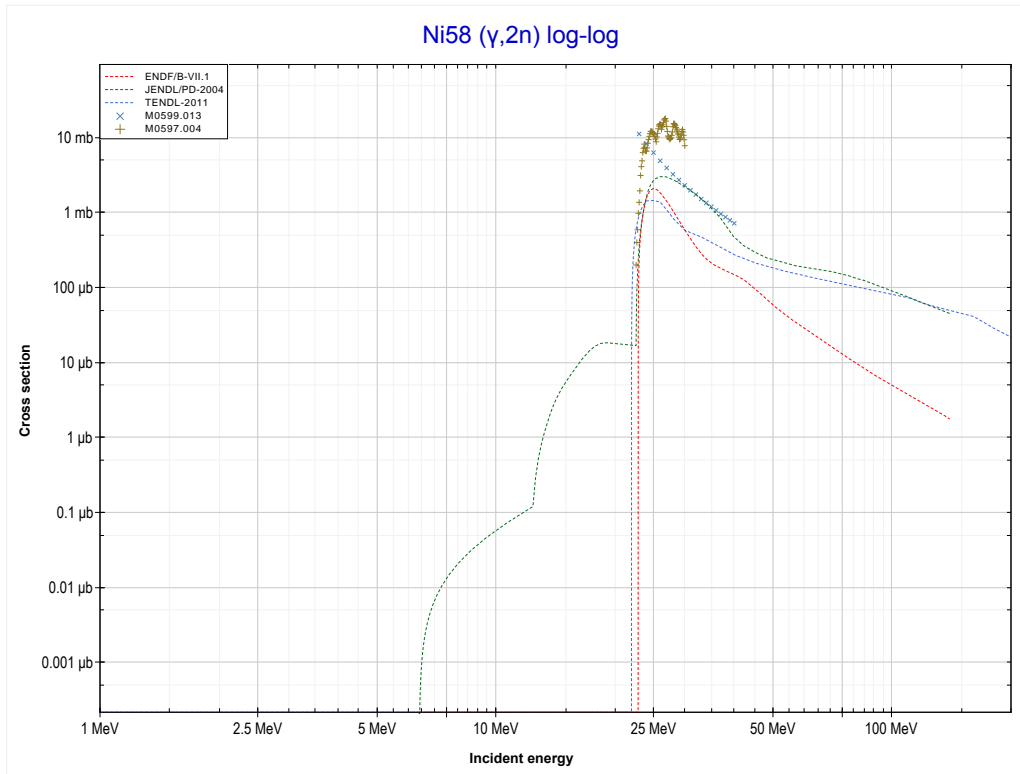
Reaction	Q-Value
$\text{Co59}(\gamma, t)\text{Fe56}$	-16572.81 keV
$\text{Co59}(\gamma, n+d)\text{Fe56}$	-22830.04 keV
$\text{Co59}(\gamma, 2n+p)\text{Fe56}$	-25054.60 keV

<< 27-Co-59	28-Ni-58	28-Ni-60 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Ni57 production)	MT16 ($\gamma, 2n$) >>



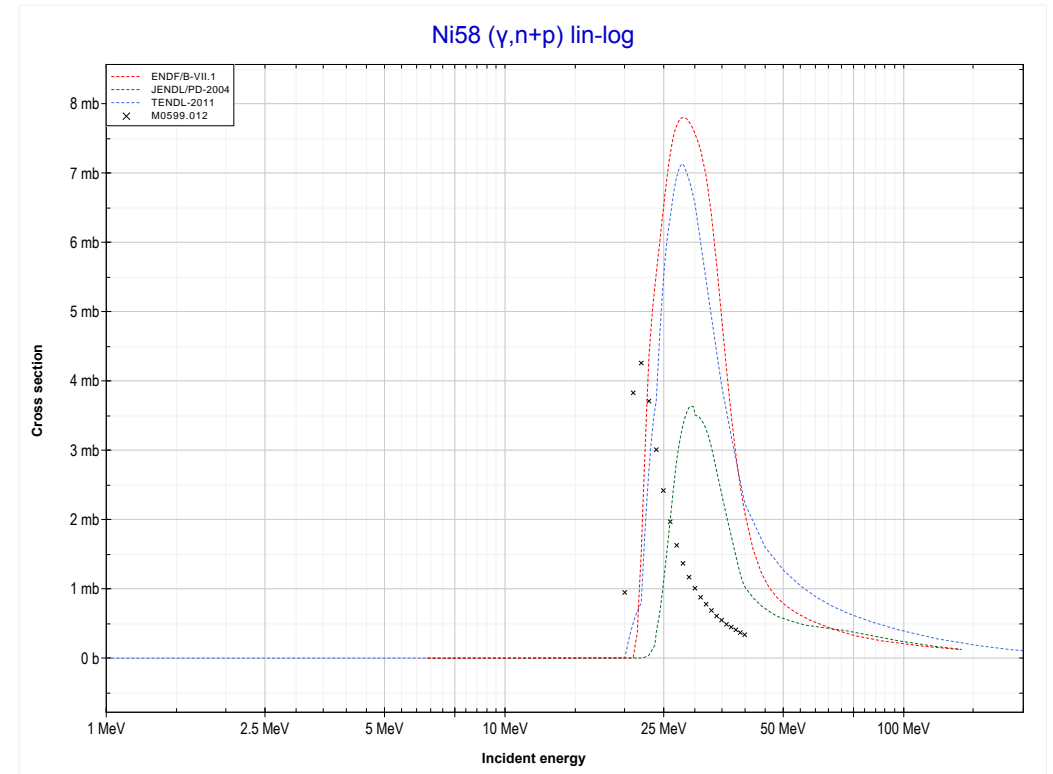
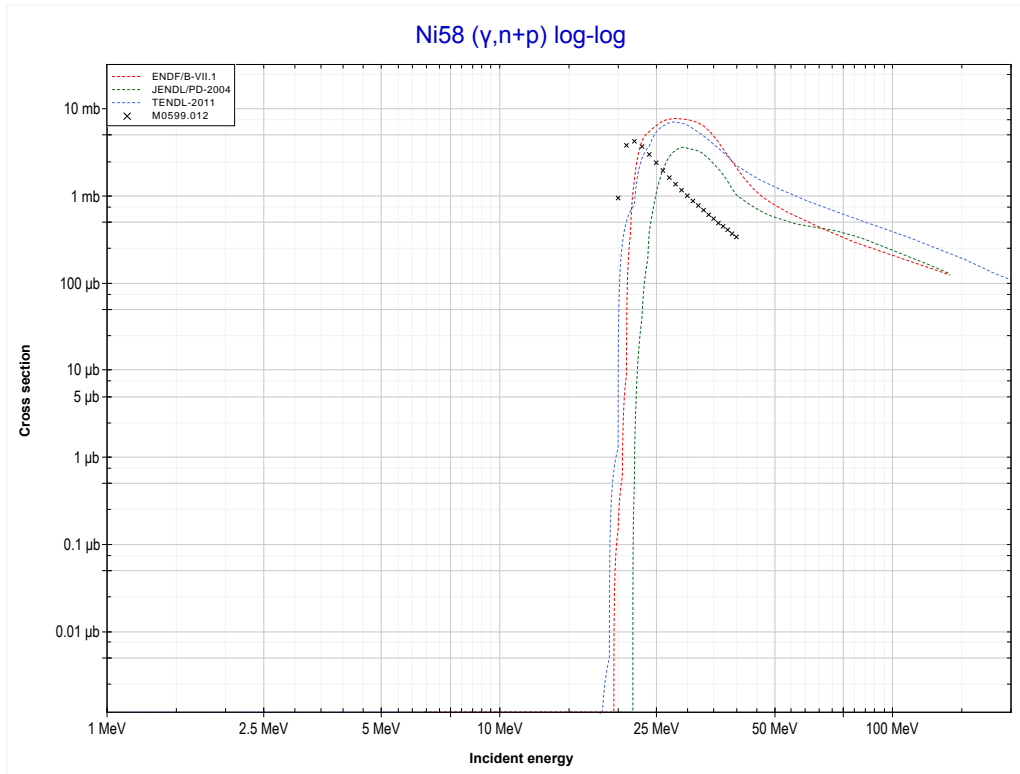
Reaction	Q-Value
Ni58(γ, n)Ni57	-12217.02 keV

<< 27-Co-59	28-Ni-58	28-Ni-60 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ni56 production)	MT28 ($\gamma,n+p$) >>



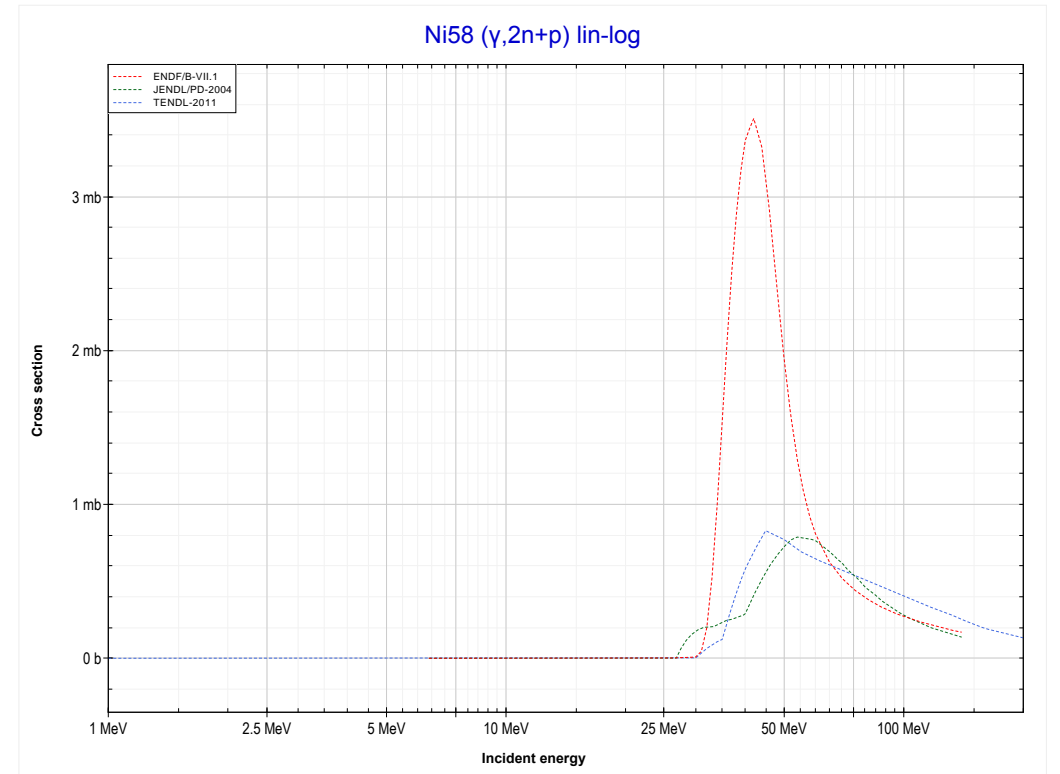
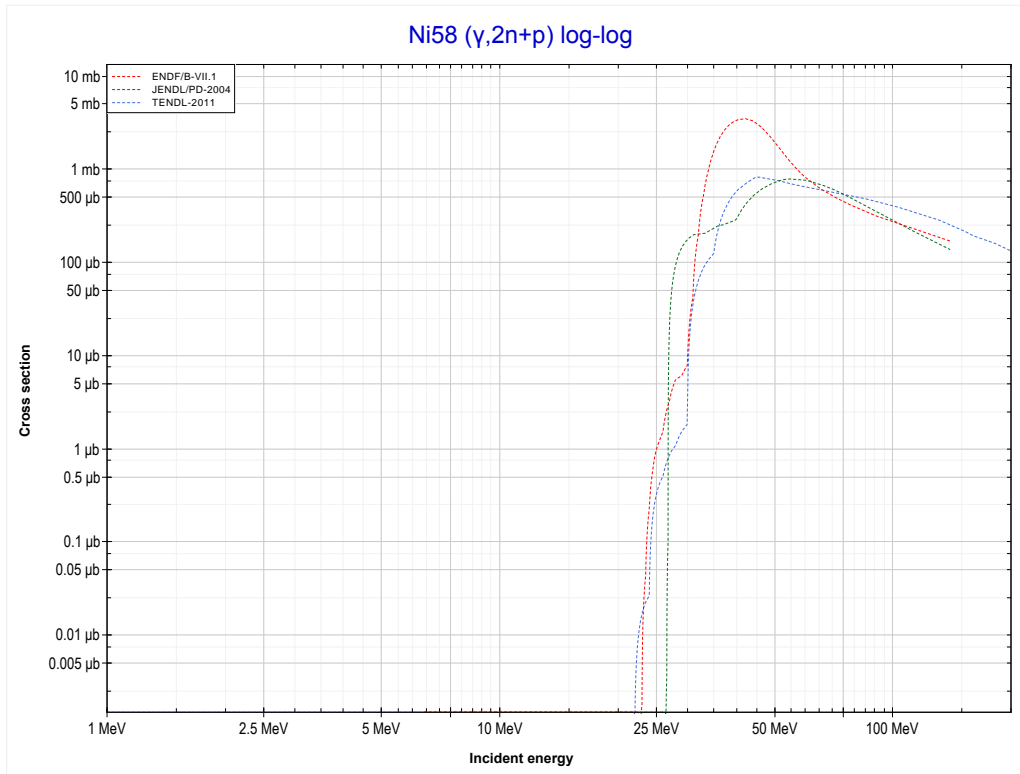
Reaction	Q-Value
Ni58($\gamma,2n$)Ni56	-22466.33 keV

<< 27-Co-59	28-Ni-58	28-Ni-60 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Co56 production)	MT41 ($\gamma,2n+p$) >>



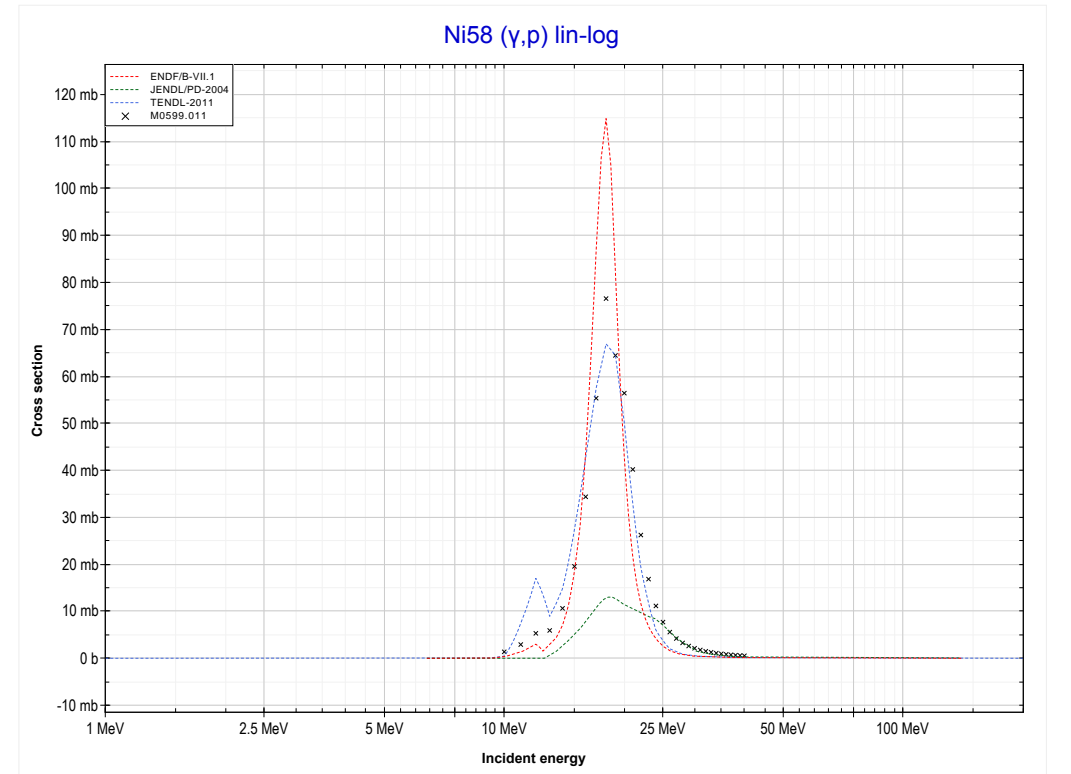
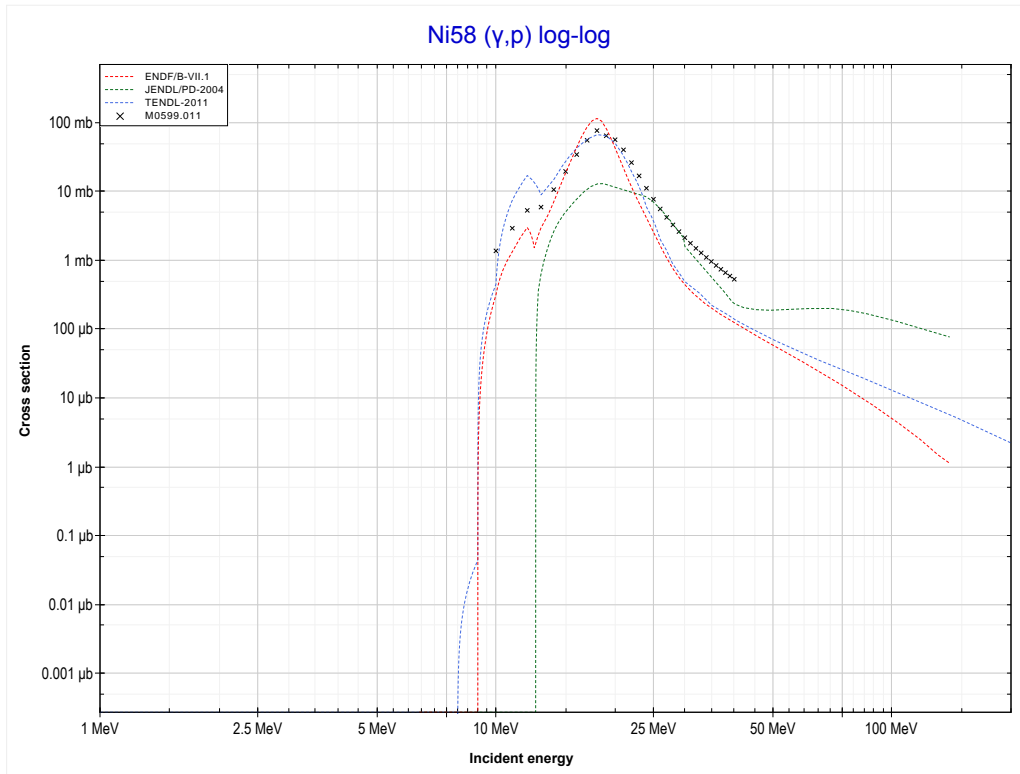
Reaction	Q-Value
Ni58(γ,d)Co56	-17324.02 keV
Ni58($\gamma,n+p$)Co56	-19548.59 keV

<< 27-Co-59	28-Ni-58	28-Ni-60 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Co55 production)	MT103 (γ, p) >>



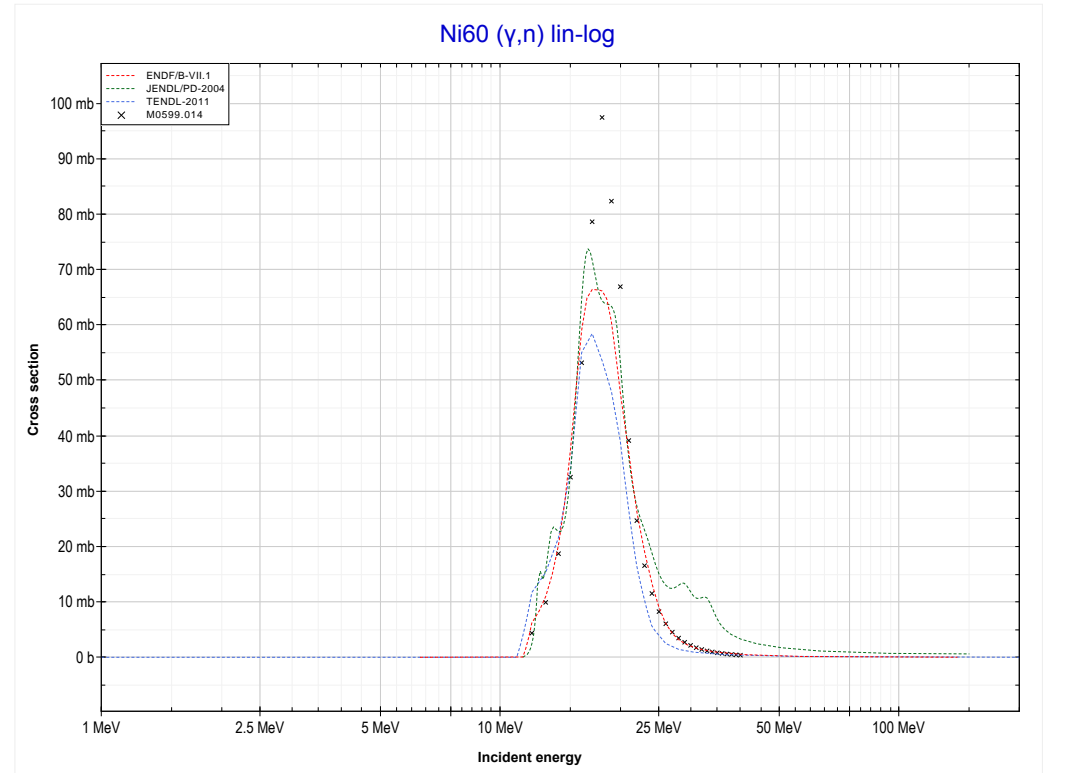
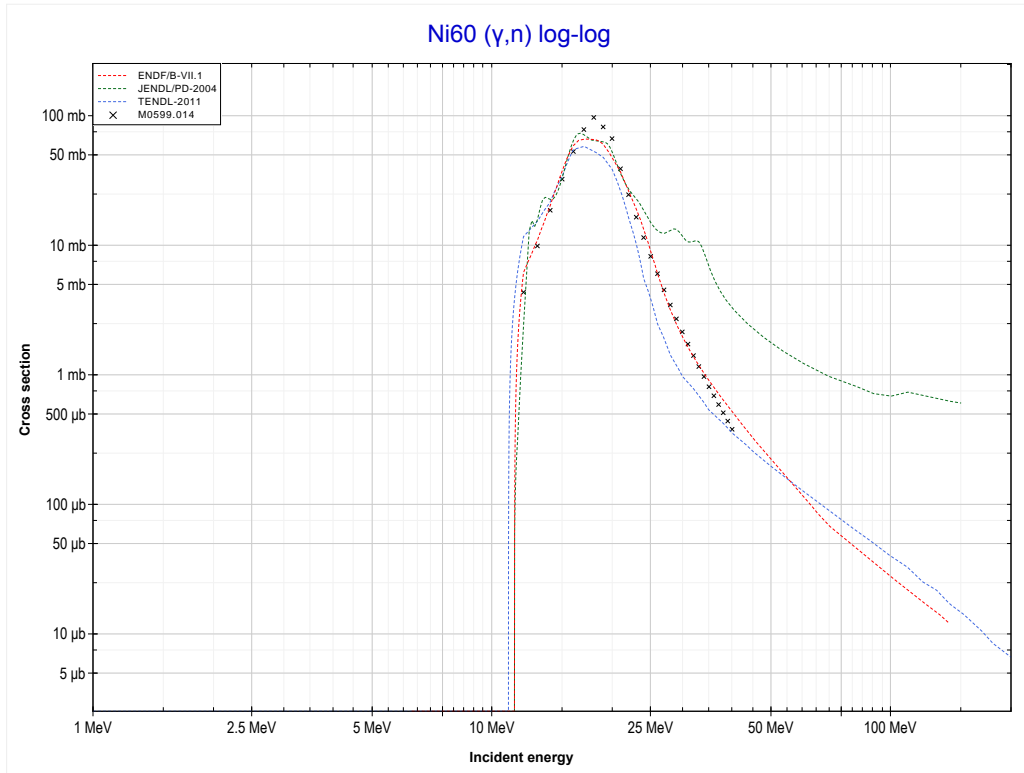
Reaction	Q-Value
Ni58(γ, t)Co55	-21149.91 keV
Ni58($\gamma, n+d$)Co55	-27407.14 keV
Ni58($\gamma, 2n+p$)Co55	-29631.70 keV

<< 26-Fe-56	28-Ni-58	28-Ni-60 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Co57 production)	MT4 (γ,n) >>



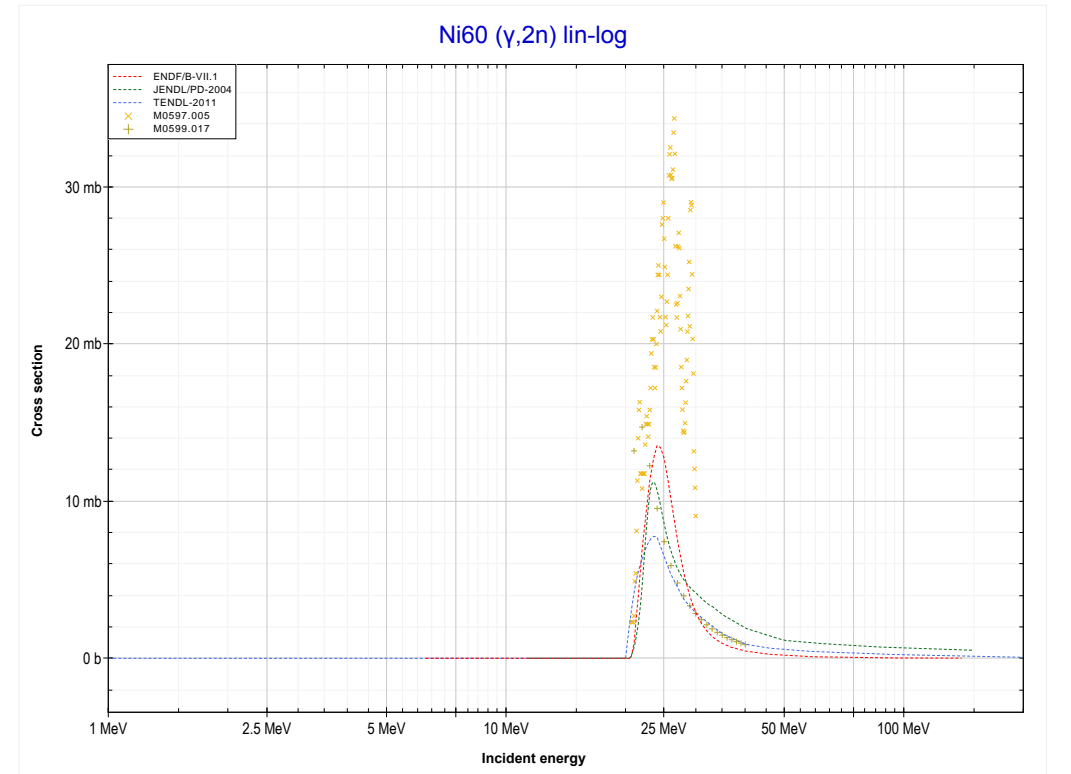
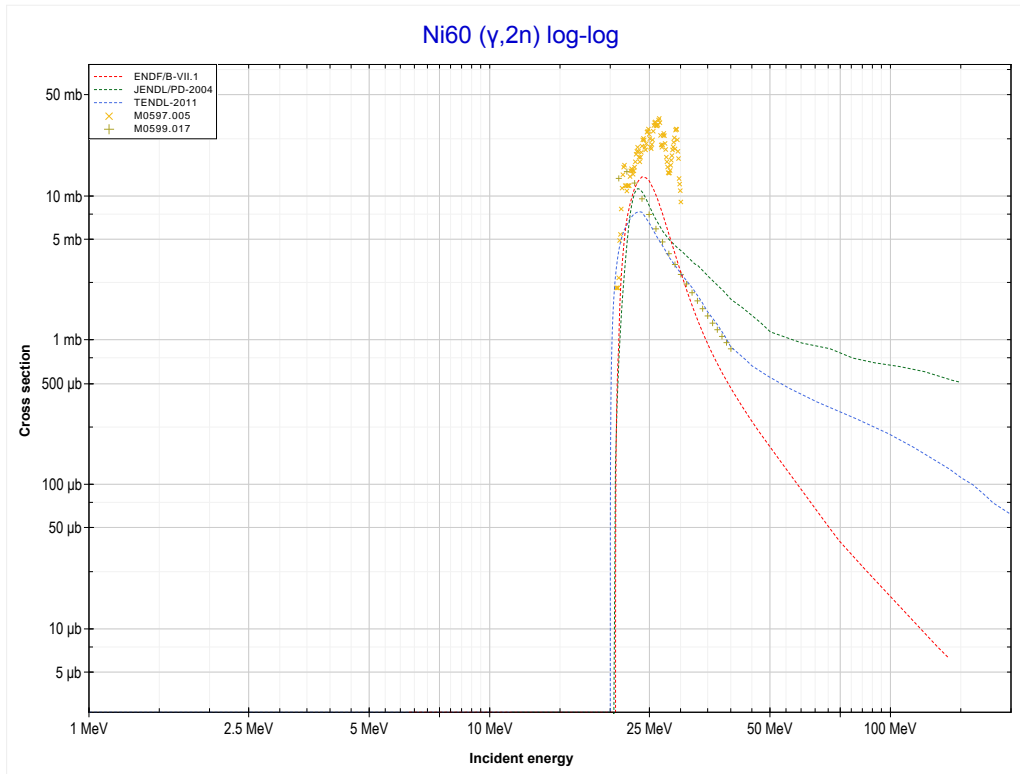
Reaction	Q-Value
Ni58(γ,p)Co57	-8172.47 keV

<< 28-Ni-58	28-Ni-60	29-Cu-63 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Ni59 production)	MT16 ($\gamma,2n$) >>



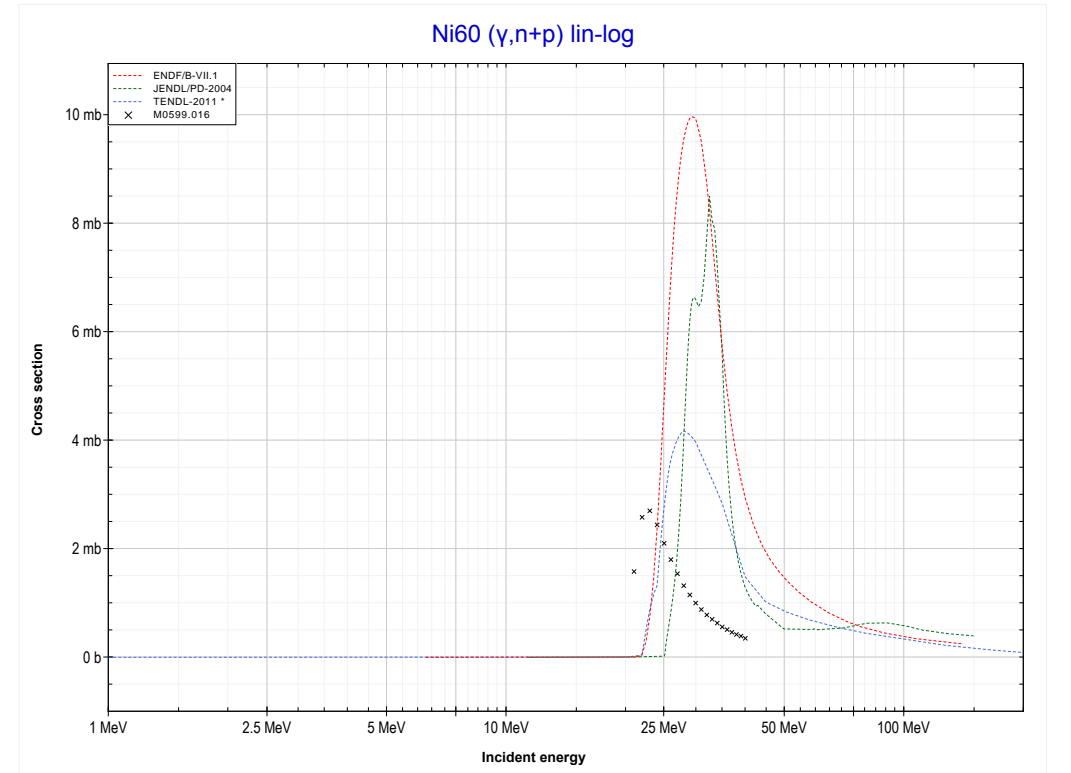
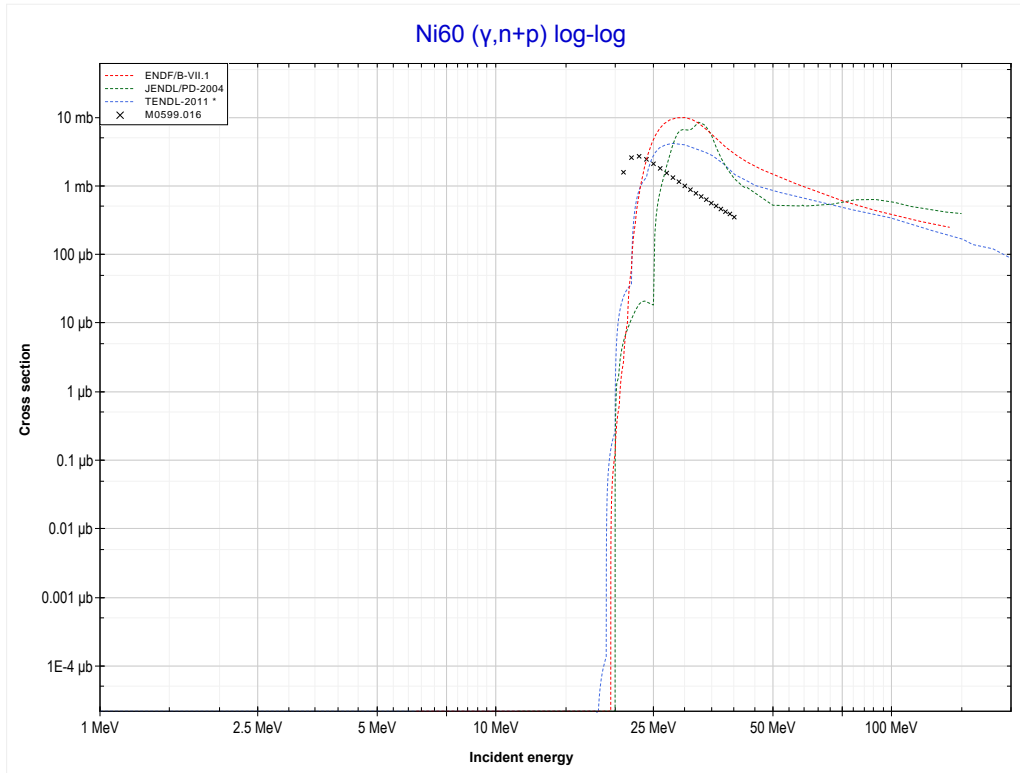
Reaction	Q-Value
Ni60(γ,n)Ni59	-11387.72 keV

<< 28-Ni-58	28-Ni-60	29-Cu-63 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ni58 production)	MT28 ($\gamma,n+p$) >>



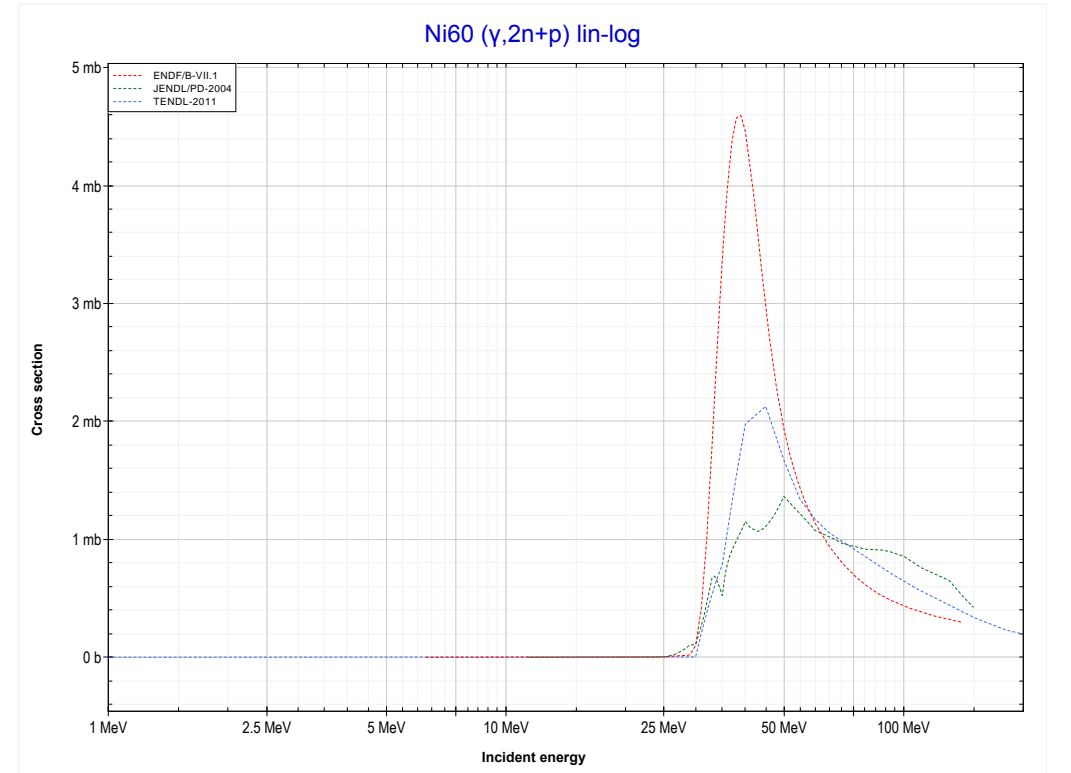
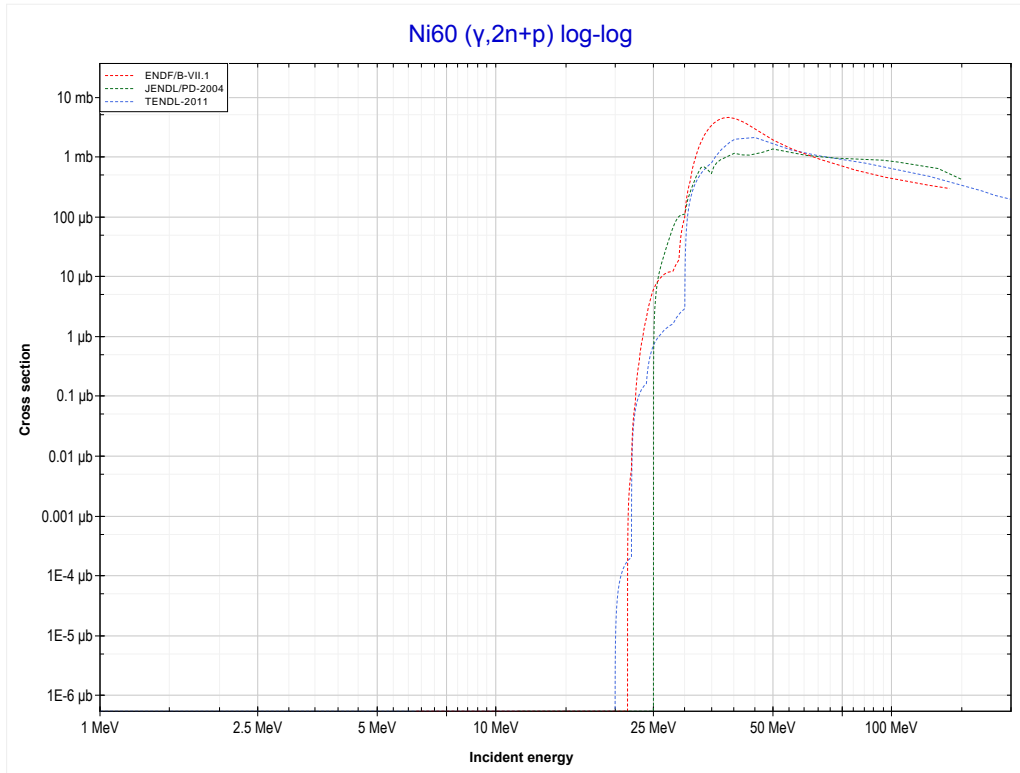
Reaction	Q-Value
Ni60($\gamma,2n$)Ni58	-20387.03 keV

<< 28-Ni-58	28-Ni-60	29-Cu-63 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Co58 production)	MT41 ($\gamma,2n+p$) >>



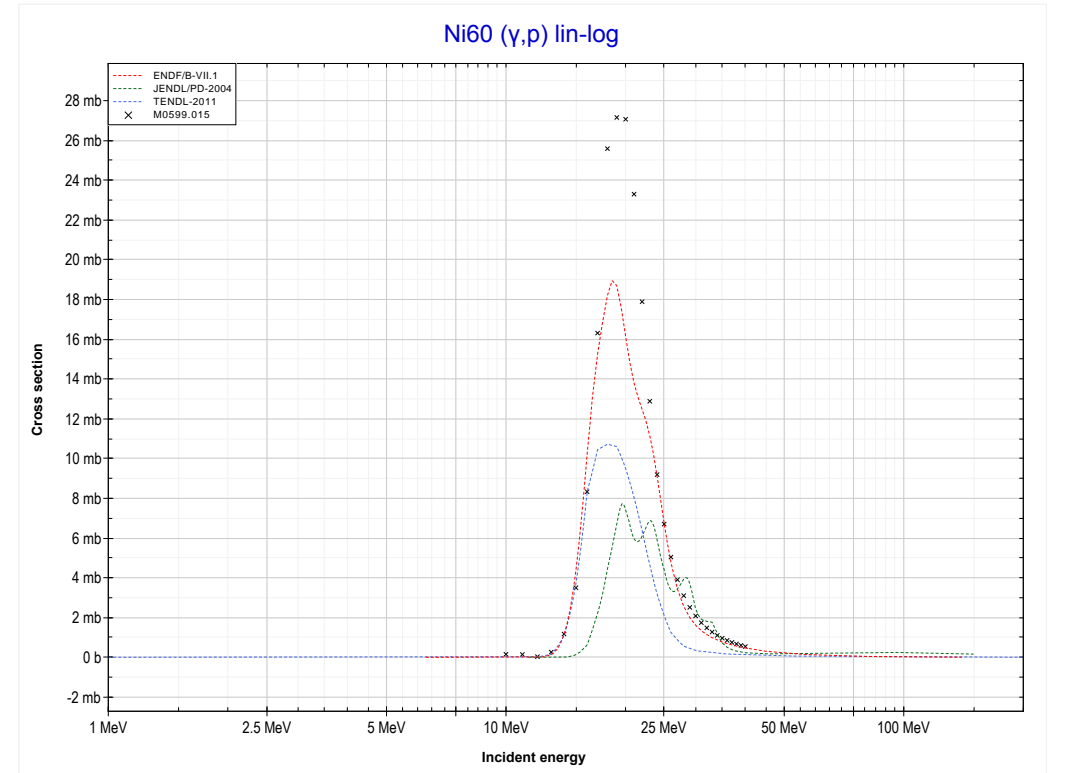
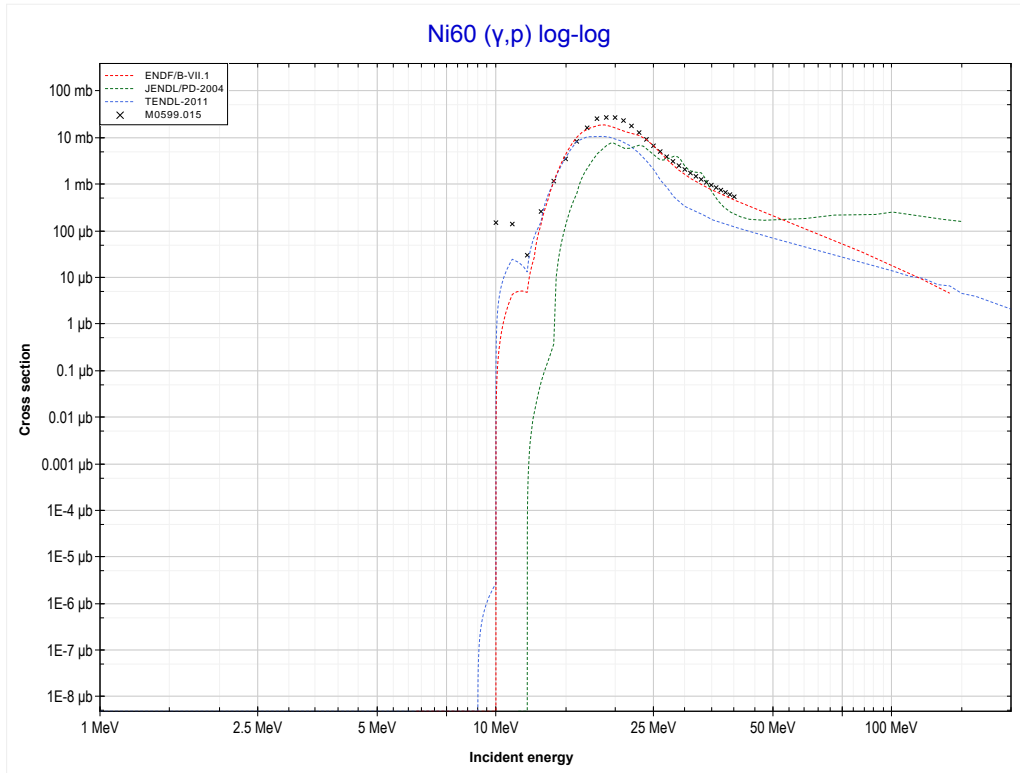
Reaction	Q-Value
Ni60(γ,d)Co58	-17761.92 keV
Ni60($\gamma,n+p$)Co58	-19986.49 keV

<< 28-Ni-58	28-Ni-60	29-Cu-63 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Co57 production)	MT103 (γ, p) >>



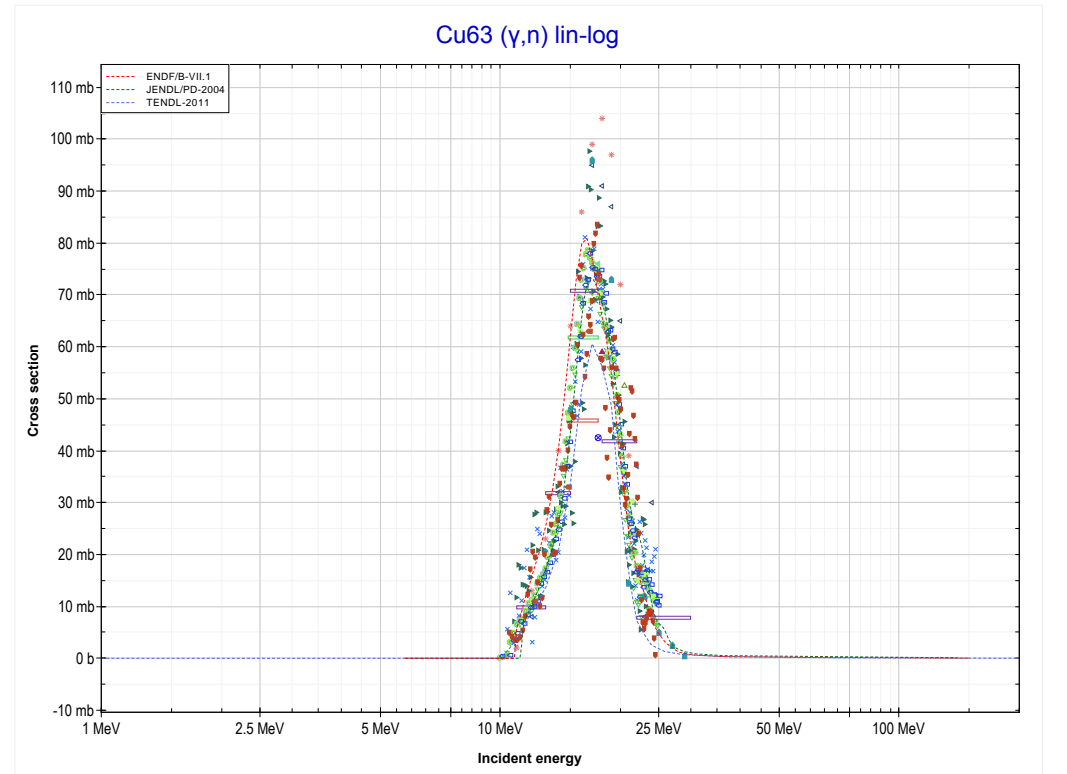
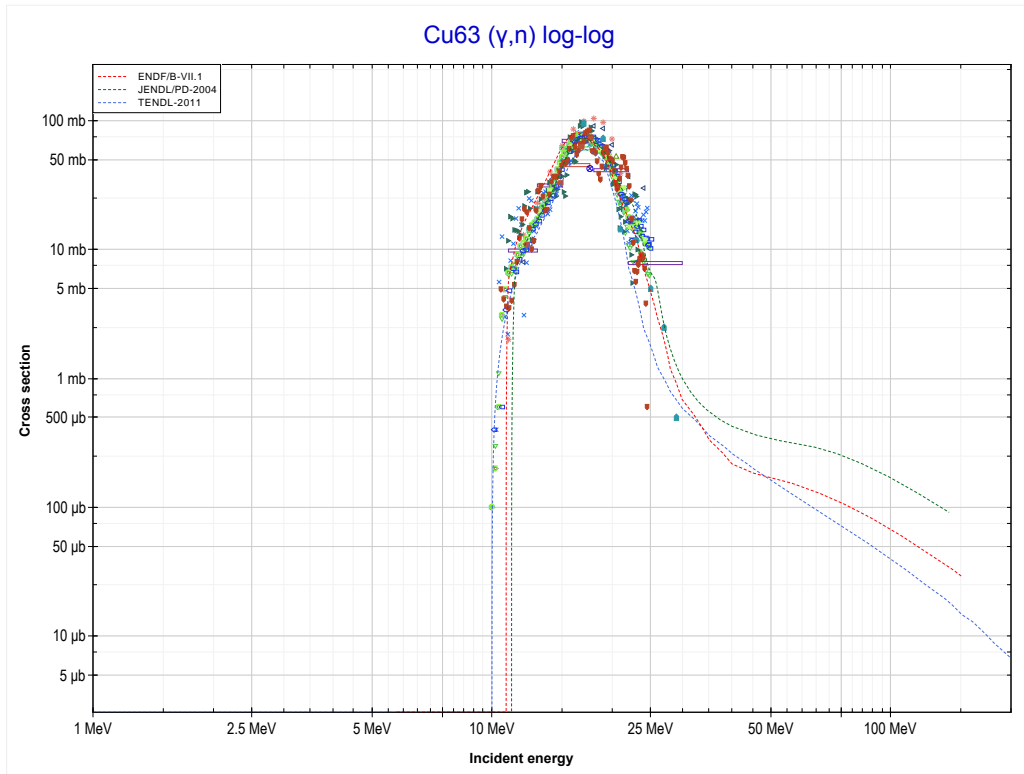
Reaction	Q-Value
Ni60(γ, t)Co57	-20077.71 keV
Ni60($\gamma, n+d$)Co57	-26334.94 keV
Ni60($\gamma, 2n+p$)Co57	-28559.50 keV

<< 28-Ni-58	28-Ni-60	29-Cu-63 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Co59 production)	MT4 (γ,n) >>



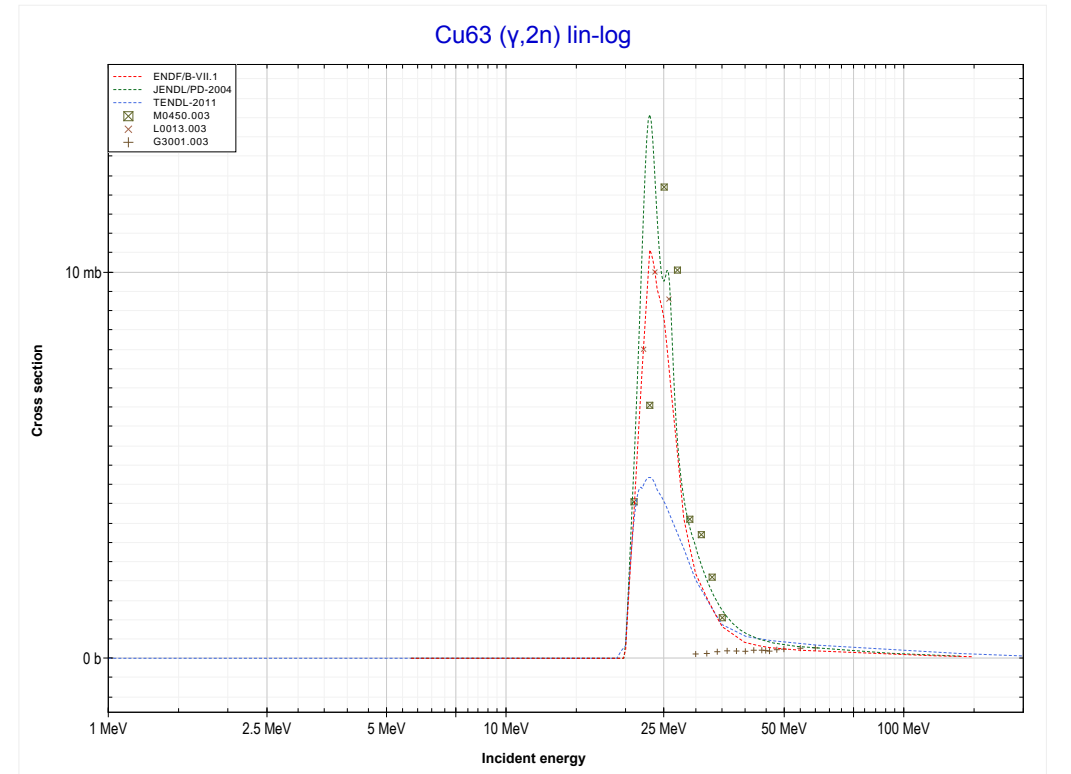
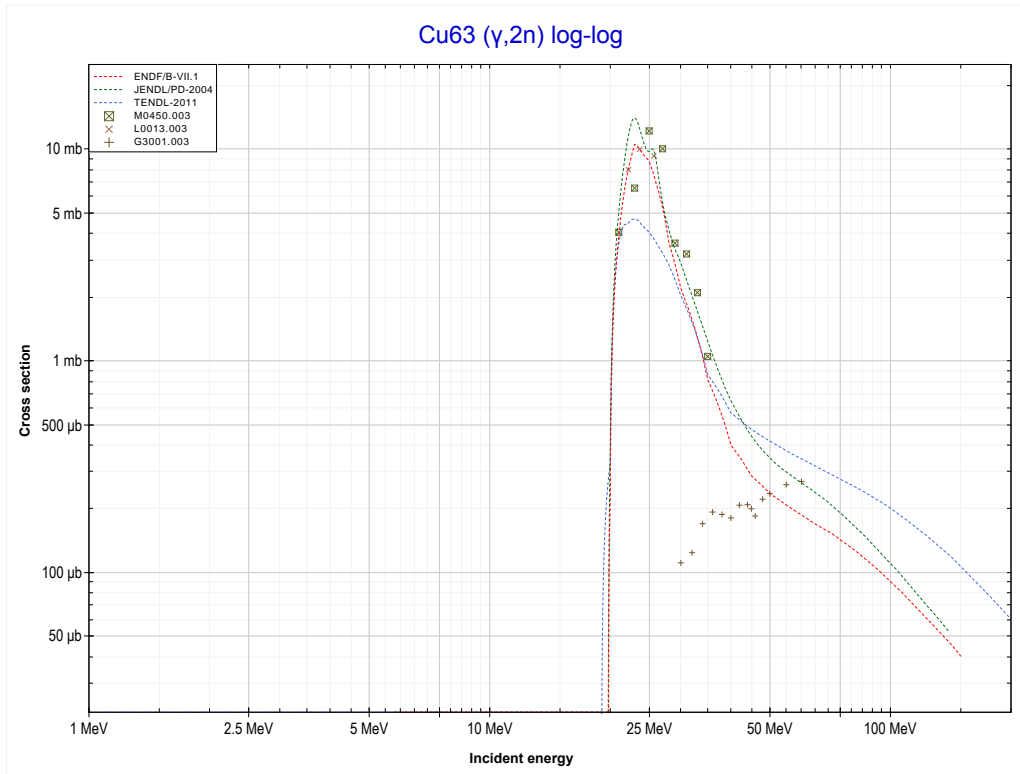
Reaction	Q-Value
Ni60(γ,p)Co59	-9532.67 keV

<< 28-Ni-60	29-Cu-63	29-Cu-65 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Cu62 production)	MT16 ($\gamma,2n$) >>



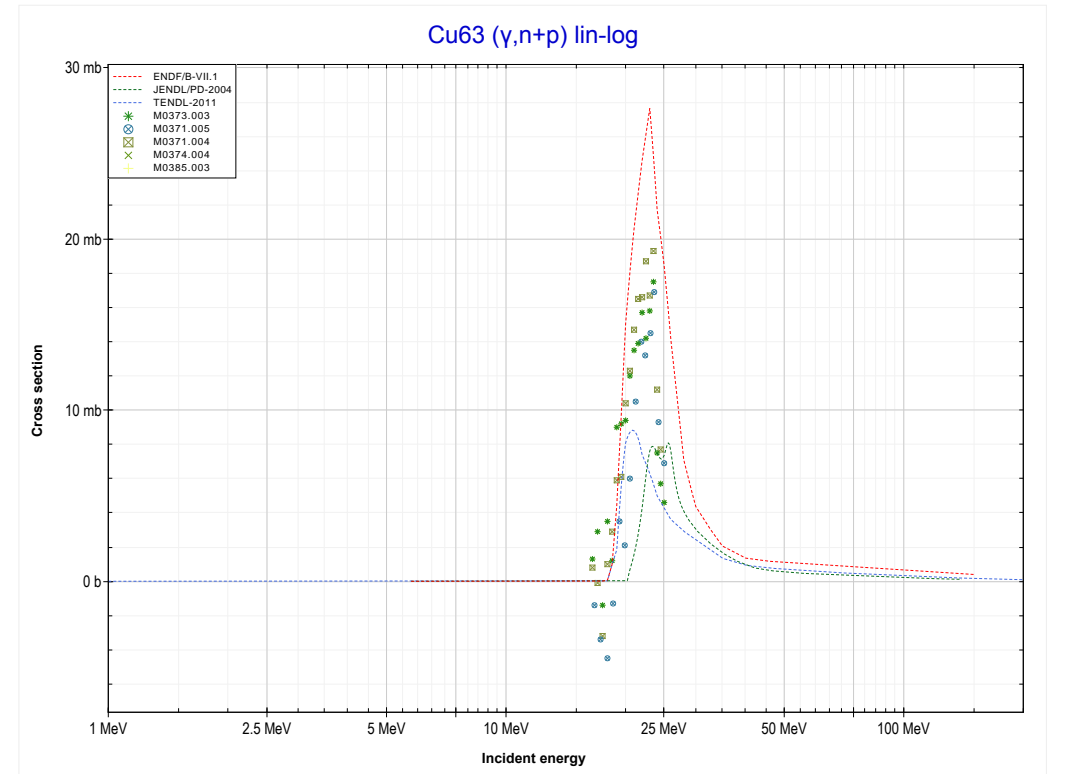
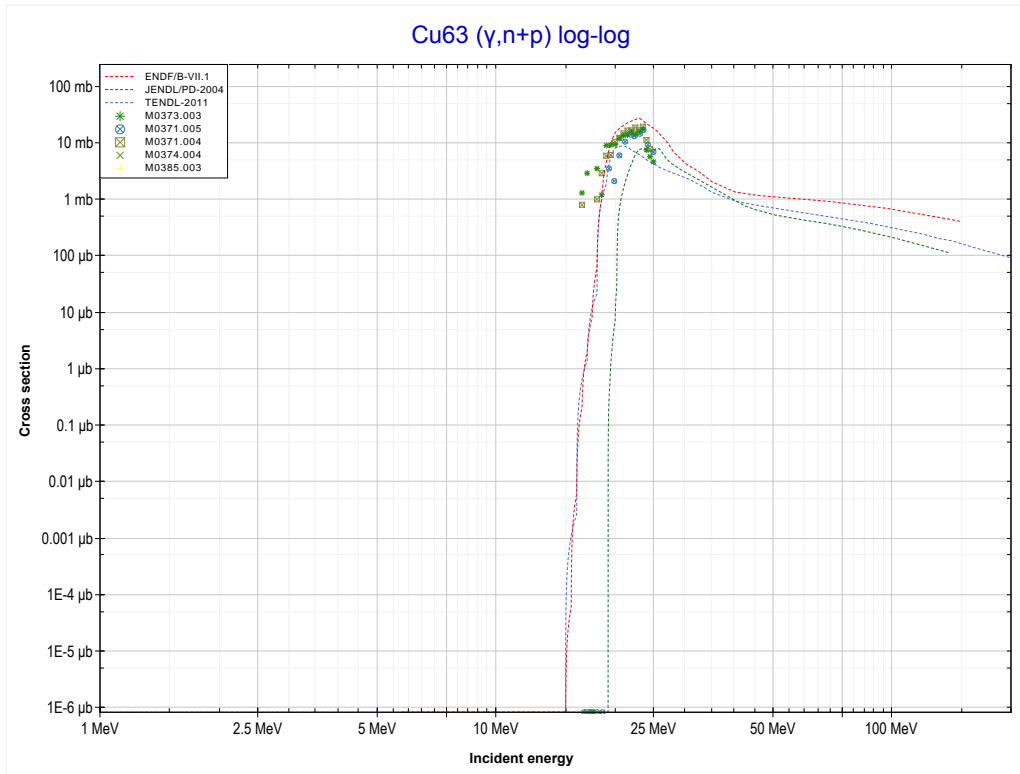
Reaction	Q-Value
Cu63(γ,n)Cu62	-10852.82 keV

<< 28-Ni-60	29-Cu-63	29-Cu-65 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Cu61 production)	MT28 ($\gamma,n+p$) >>



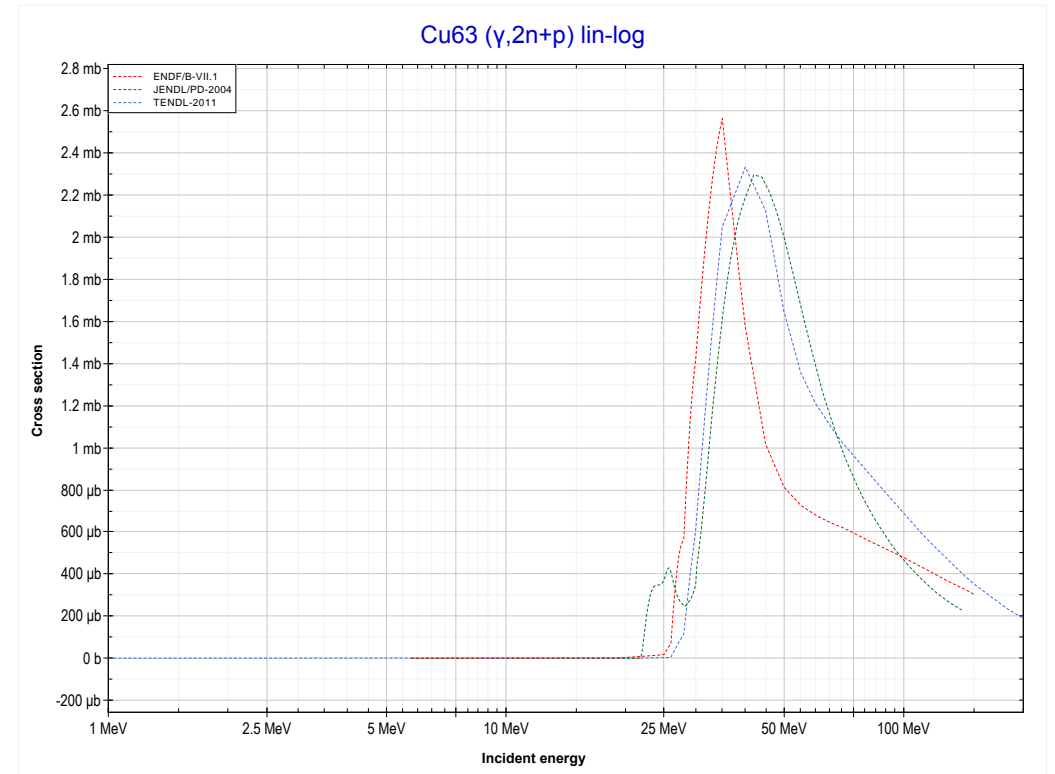
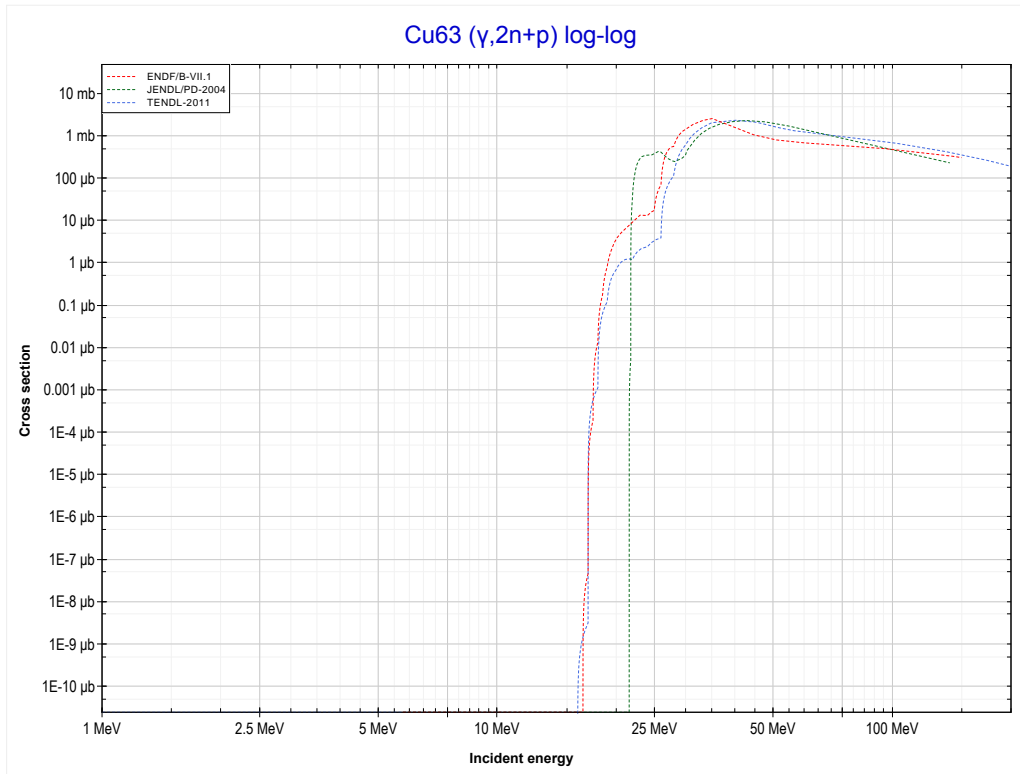
Reaction	Q-Value
Cu63($\gamma,2n$)Cu61	-19738.53 keV

<< 28-Ni-60	29-Cu-63	29-Cu-65 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ni61 production)	MT41 ($\gamma,2n+p$) >>



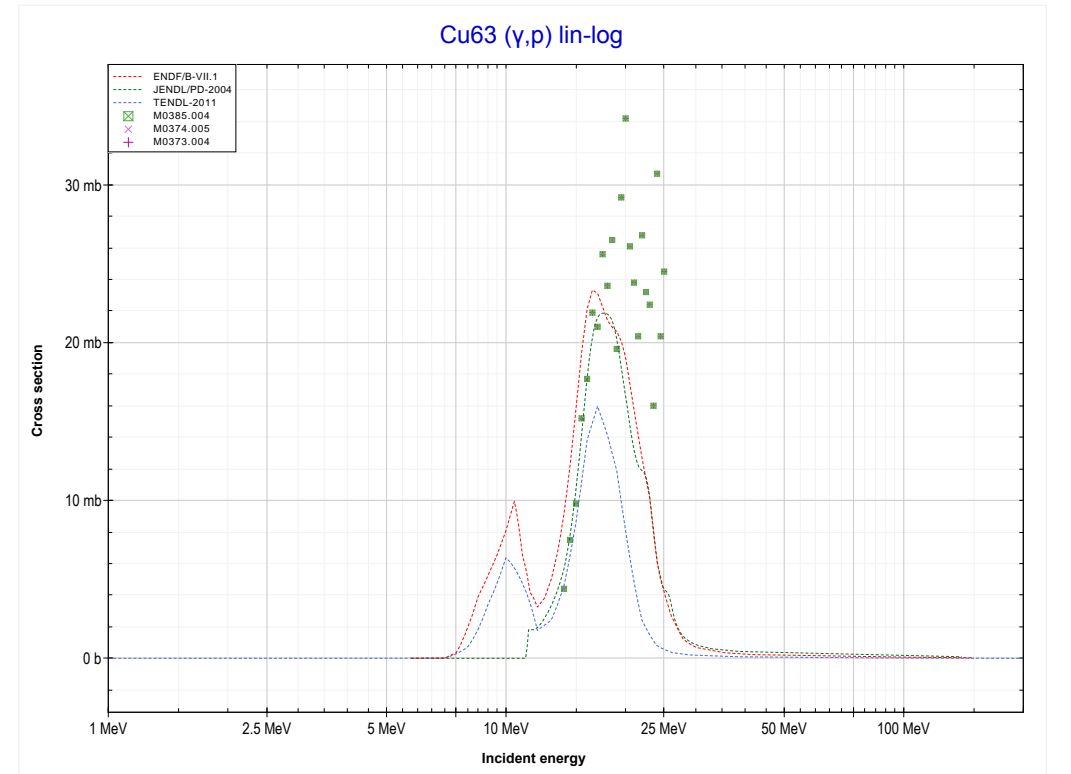
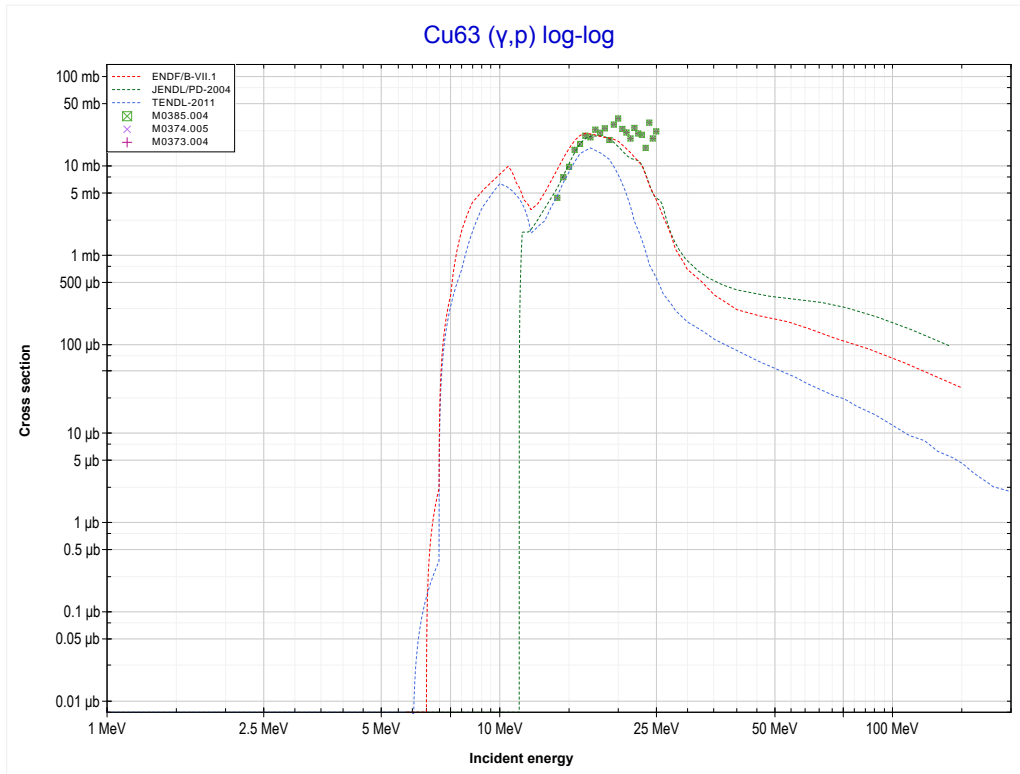
Reaction	Q-Value
Cu63(γ,d)Ni61	-14494.32 keV
Cu63($\gamma,n+p$)Ni61	-16718.89 keV

<< 28-Ni-60	29-Cu-63	29-Cu-65 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ni60 production)	MT103 (γ, p) >>



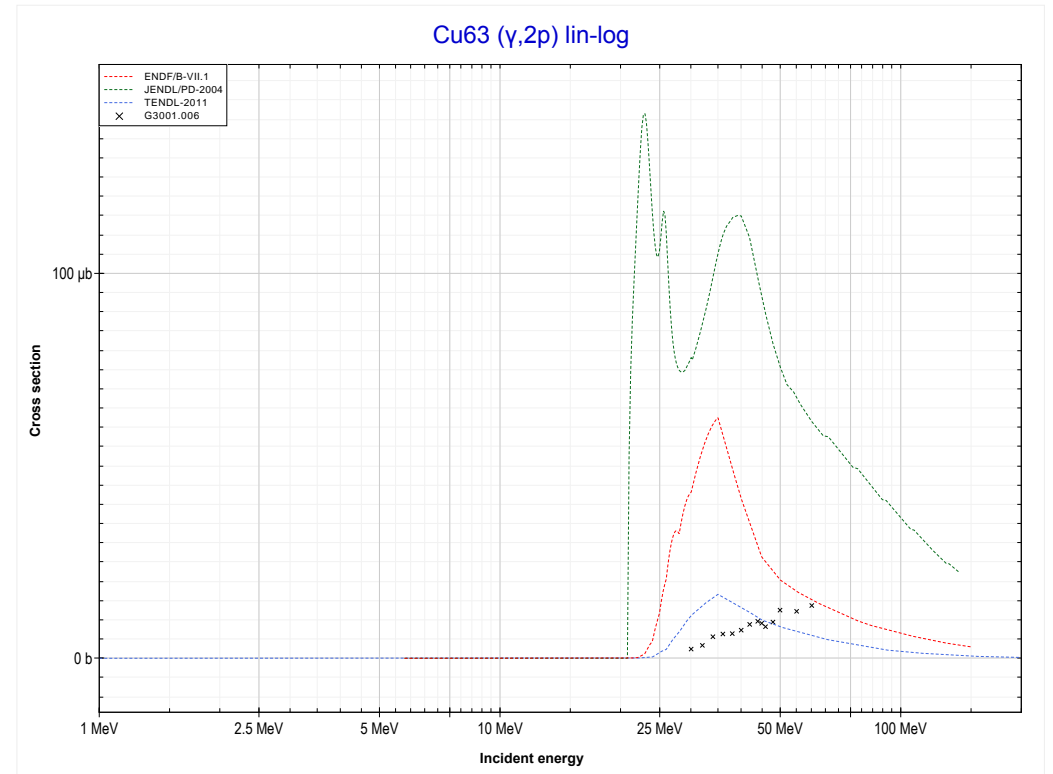
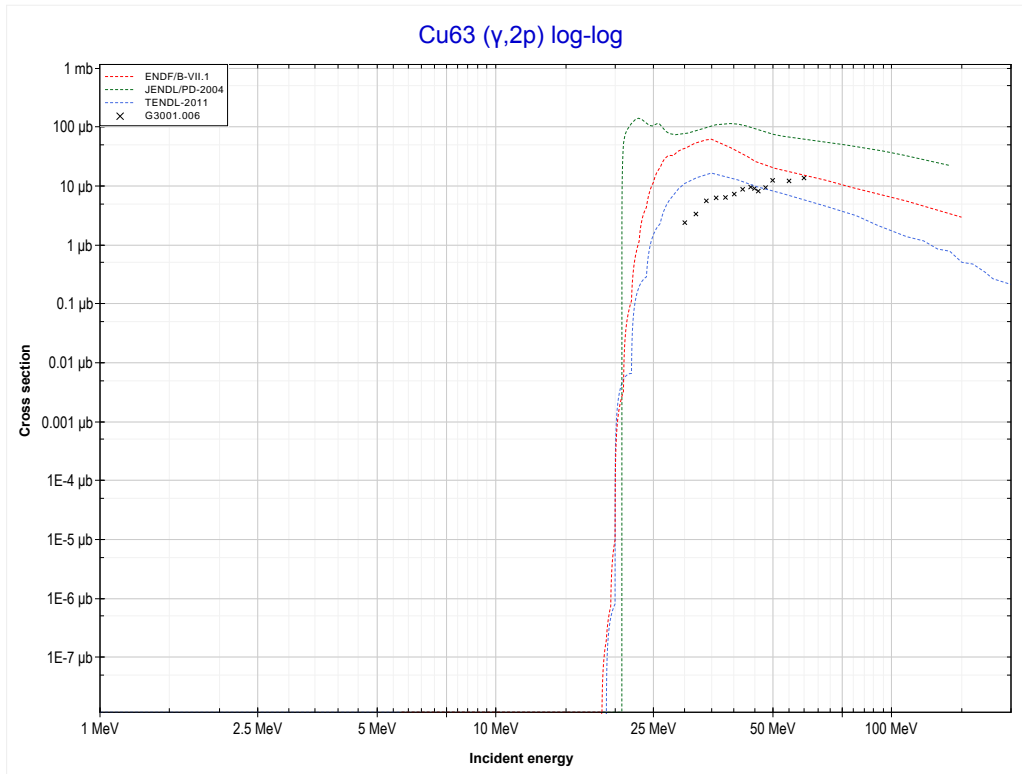
Reaction	Q-Value
Cu63(γ, t)Ni60	-16057.21 keV
Cu63($\gamma, n+d$)Ni60	-22314.44 keV
Cu63($\gamma, 2n+p$)Ni60	-24539.00 keV

<< 28-Ni-60	29-Cu-63	29-Cu-65 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Ni62 production)	MT111 ($\gamma,2p$) >>



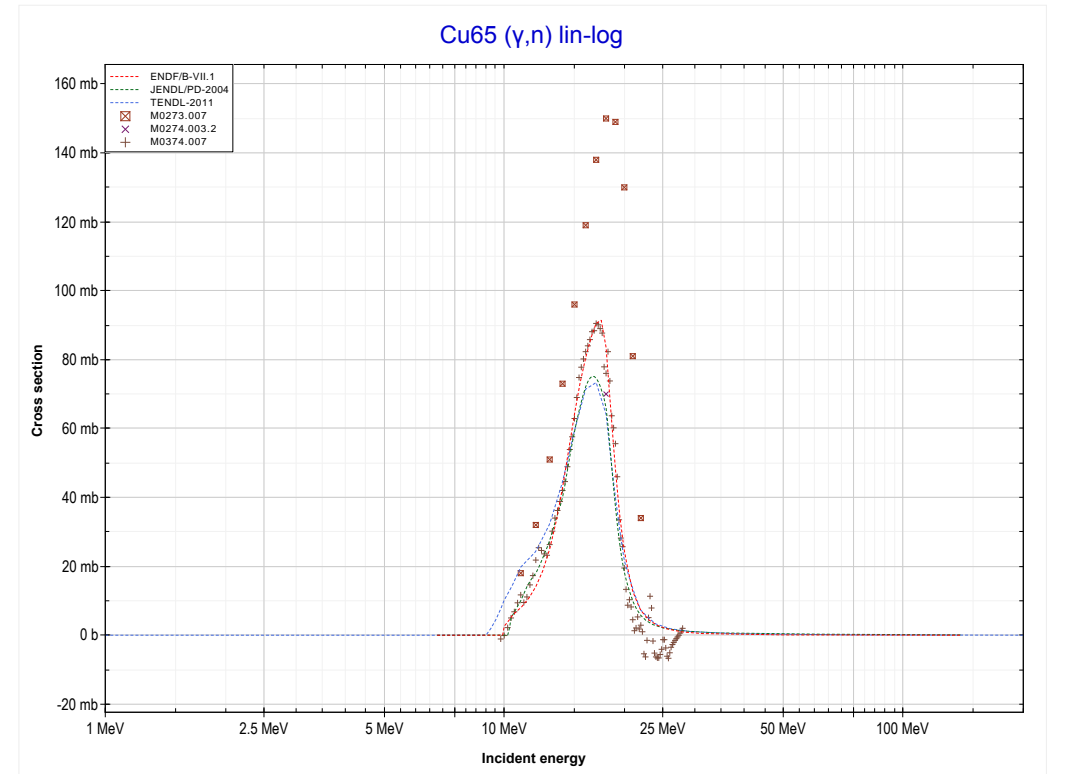
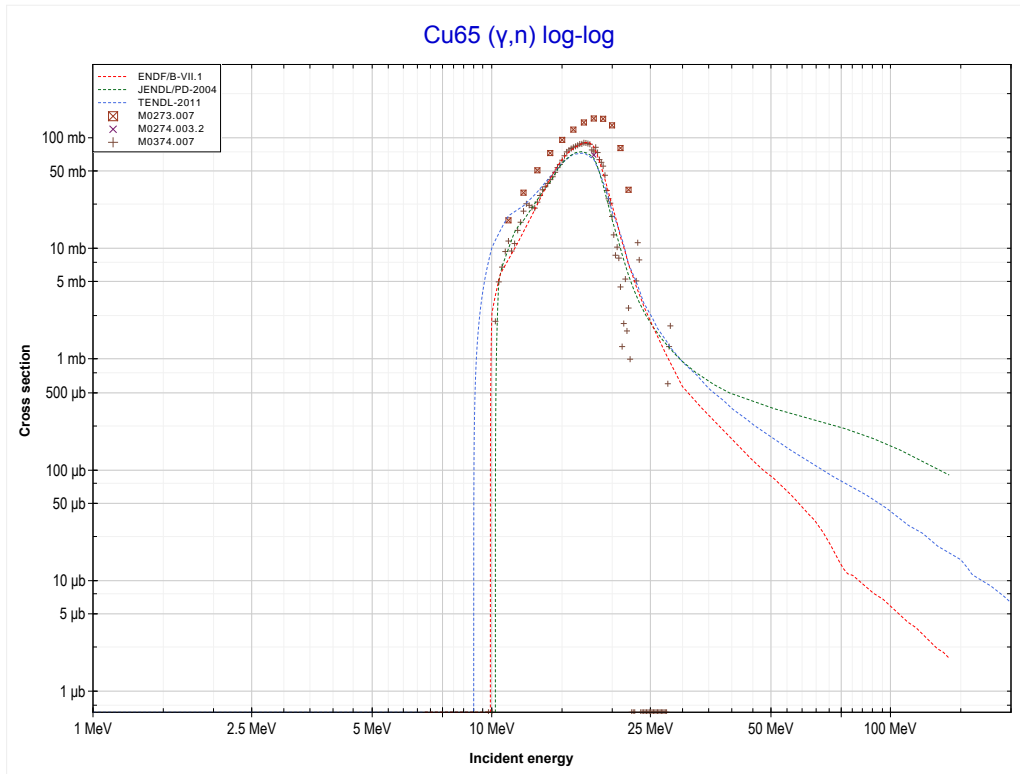
Reaction	Q-Value
Cu63(γ,p)Ni62	-6122.37 keV

29-Cu-63		
<< MT103 (γ,p)	MT111 ($\gamma,2p$) or MT5 (Co61 production)	MT4 (γ,n) >>



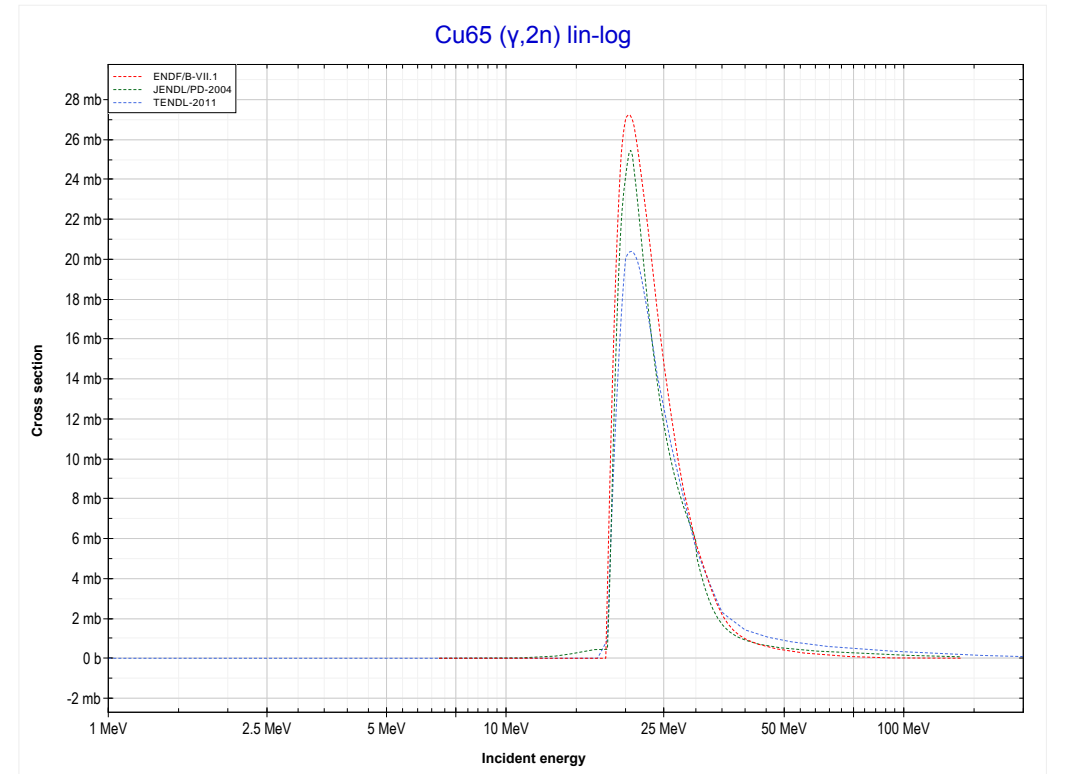
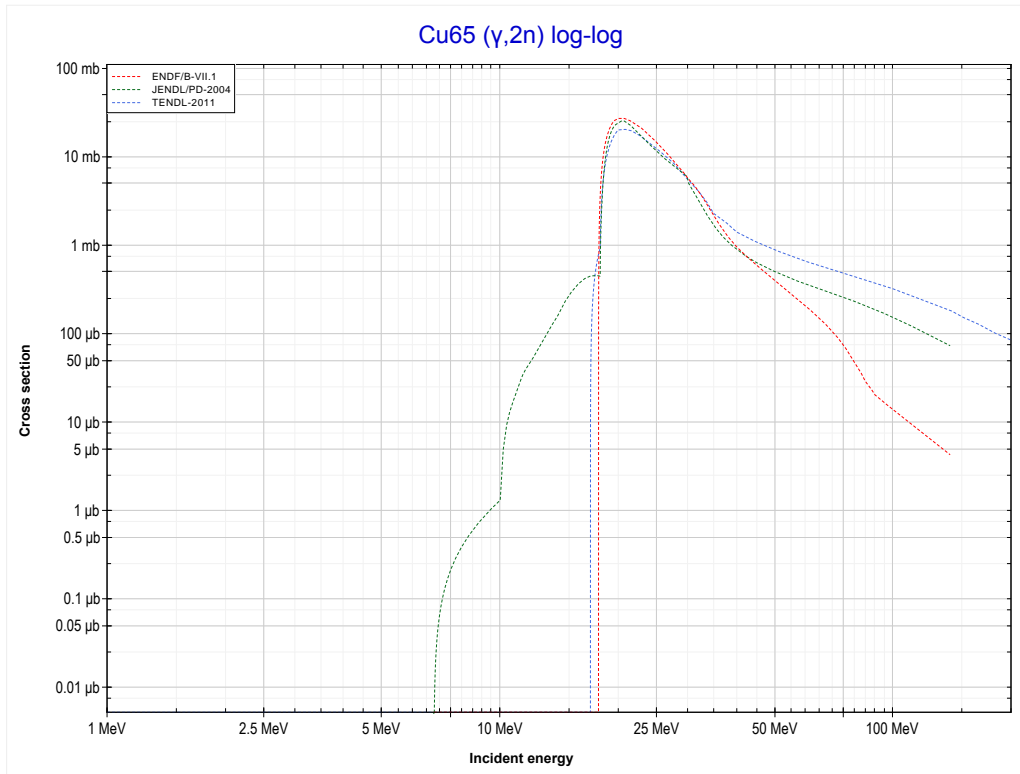
Reaction	Q-Value
Cu63($\gamma,2p$)Co61	-17259.04 keV

<< 29-Cu-63	29-Cu-65	30-Zn-64 >>
<< MT111 ($\gamma,2p$)	MT4 (γ,n) or MT5 (Cu64 production)	MT16 ($\gamma,2n$) >>



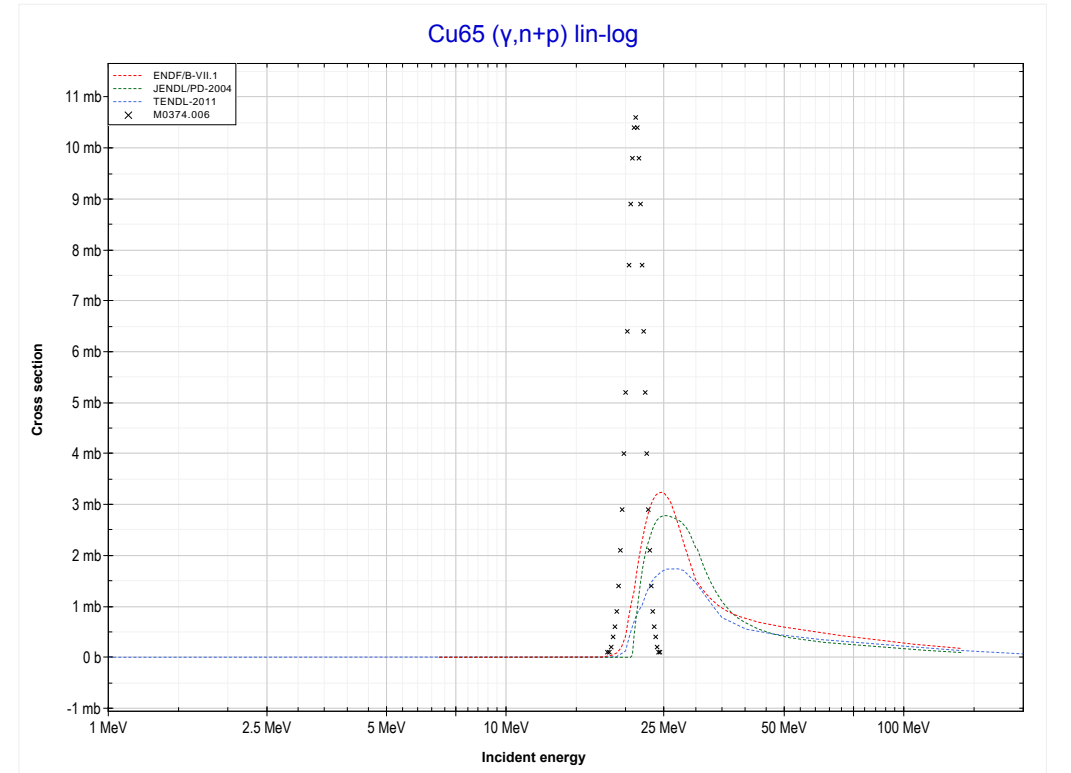
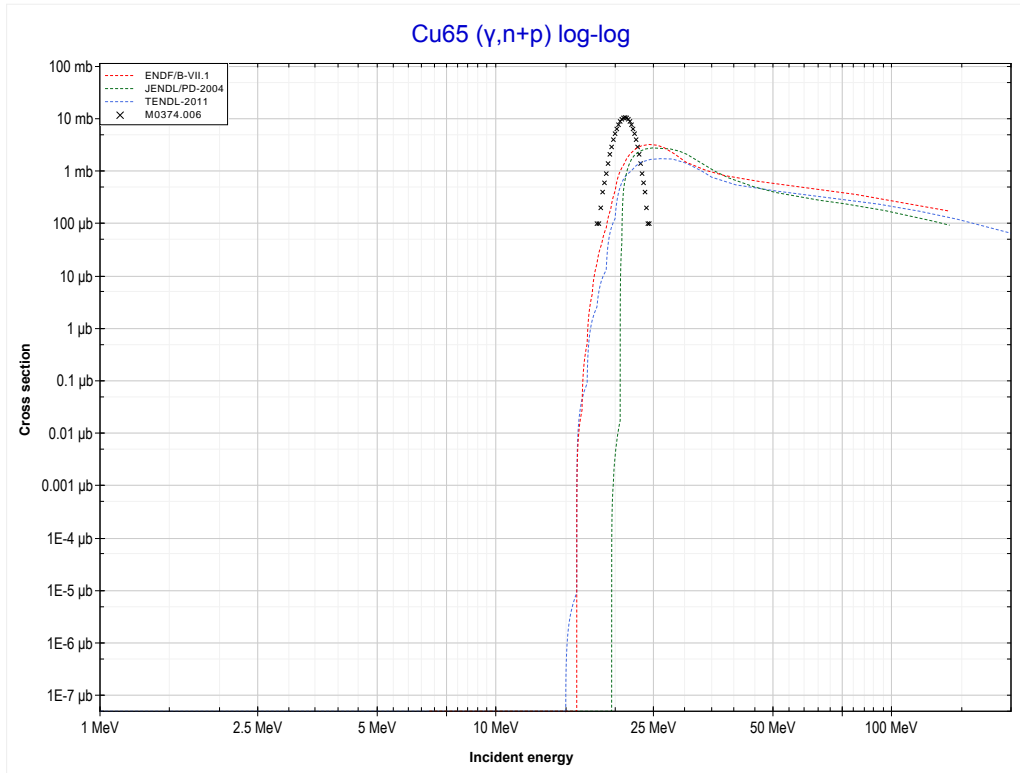
Reaction	Q-Value
Cu65(γ,n)Cu64	-9910.82 keV

<< 29-Cu-63	29-Cu-65	30-Zn-64 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Cu63 production)	MT28 ($\gamma, n+p$) >>



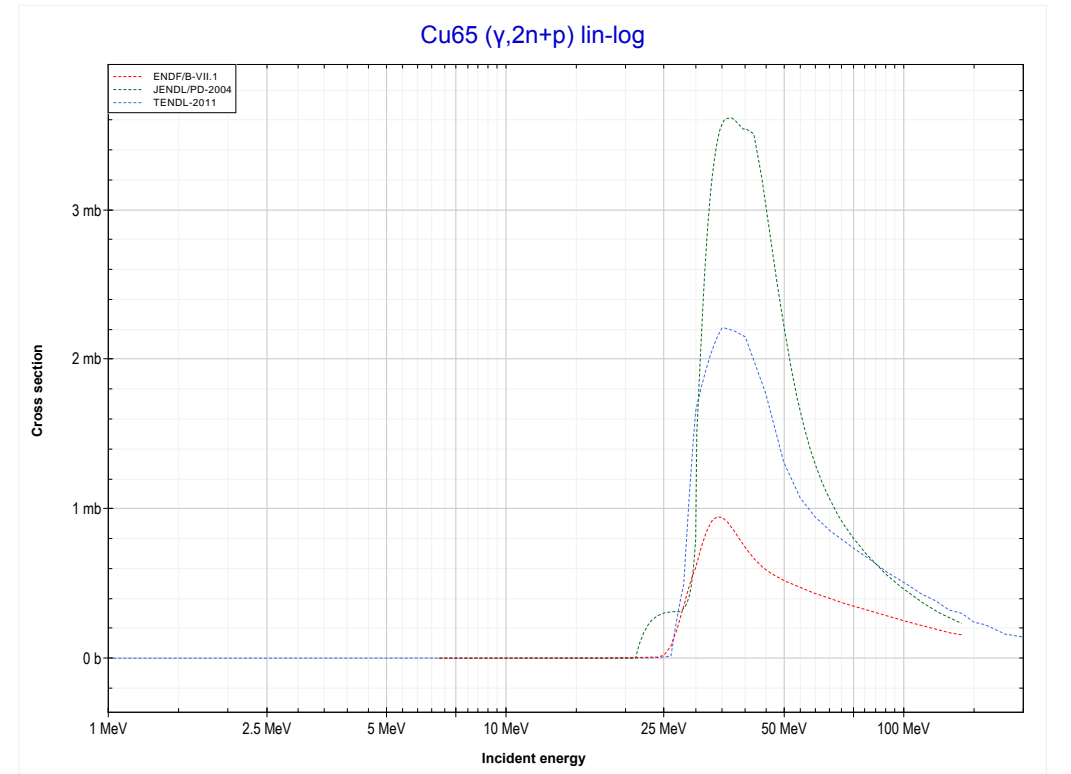
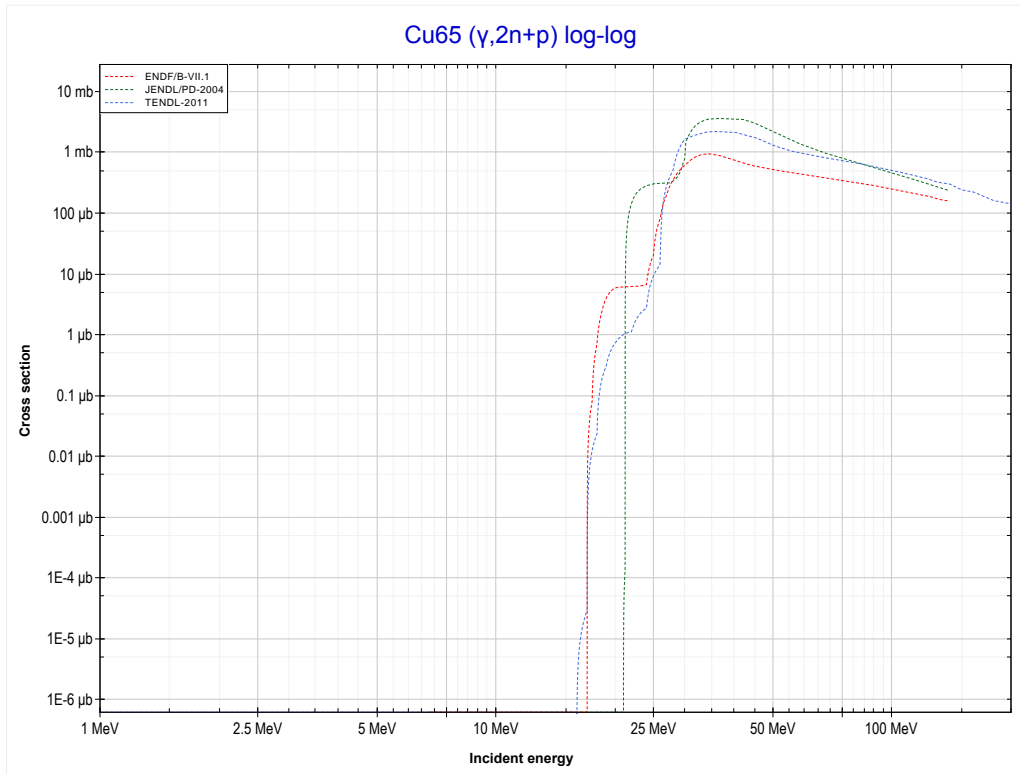
Reaction	Q-Value
Cu65($\gamma, 2n$)Cu63	-17826.83 keV

<< 29-Cu-63	29-Cu-65	30-Zn-64 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ni63 production)	MT41 ($\gamma,2n+p$) >>



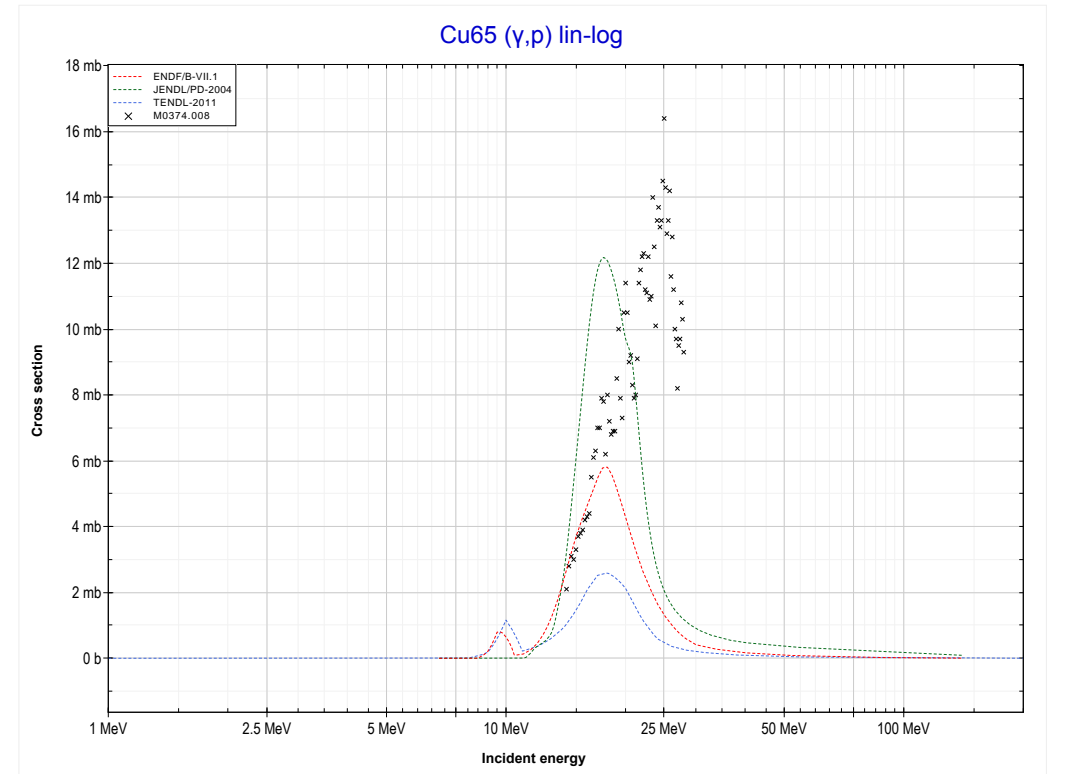
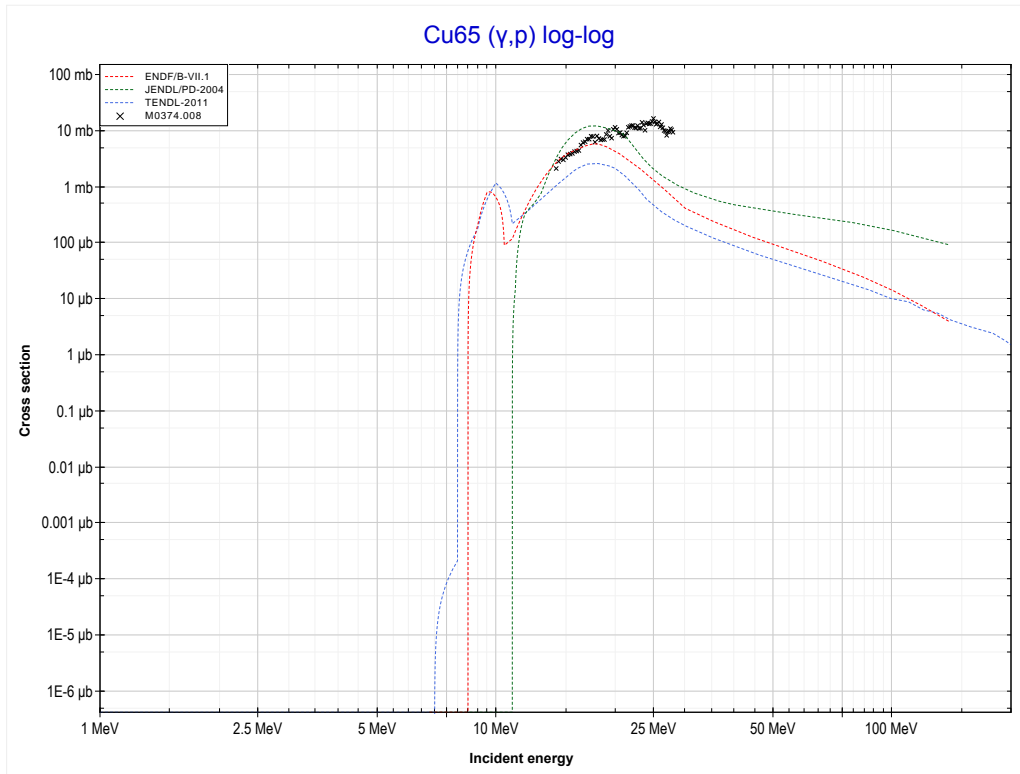
Reaction	Q-Value
Cu65(γ,d)Ni63	-14886.82 keV
Cu65($\gamma,n+p$)Ni63	-17111.39 keV

<< 29-Cu-63	29-Cu-65	30-Zn-64 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ni62 production)	MT103 (γ, p) >>



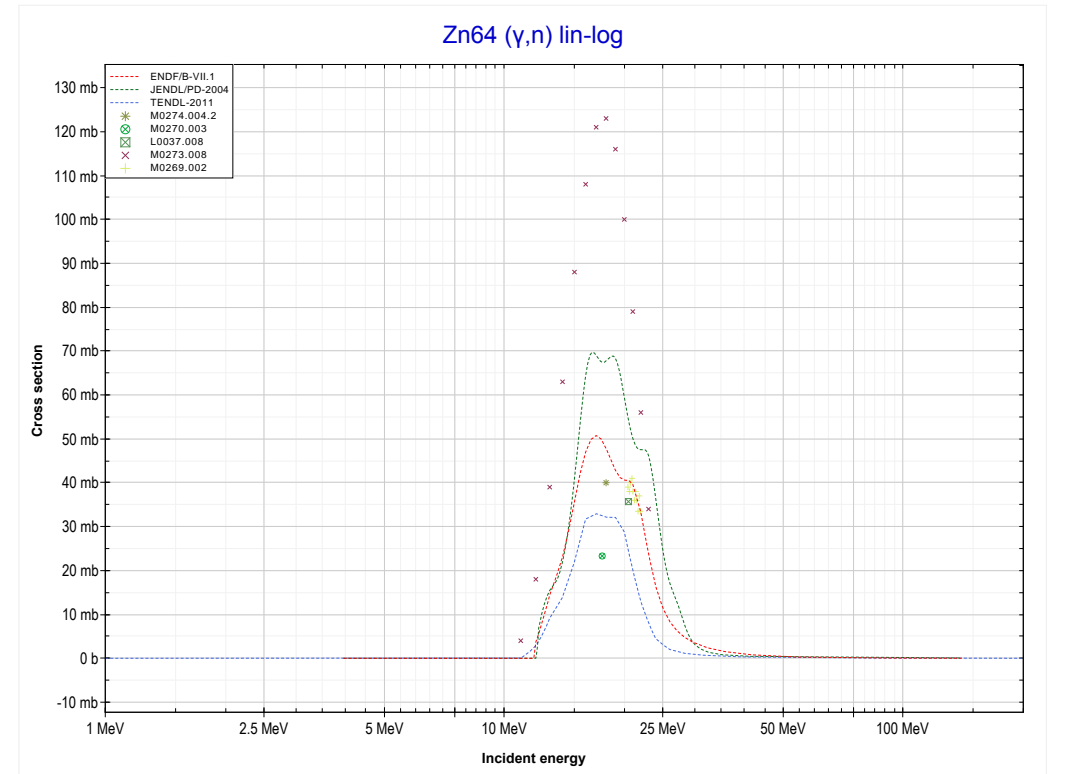
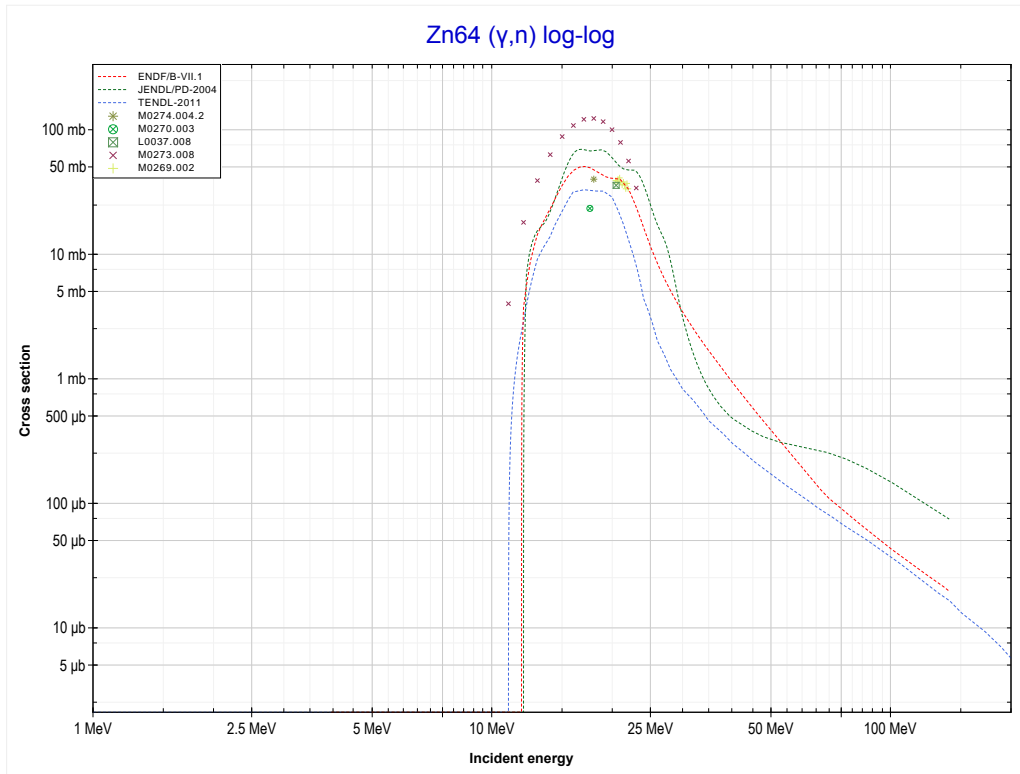
Reaction	Q-Value
Cu65(γ, t)Ni62	-15467.41 keV
Cu65($\gamma, n+d$)Ni62	-21724.64 keV
Cu65($\gamma, 2n+p$)Ni62	-23949.20 keV

<< 29-Cu-63	29-Cu-65	32-Ge-70 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (Ni64 production)	MT4 (γ, n) >>



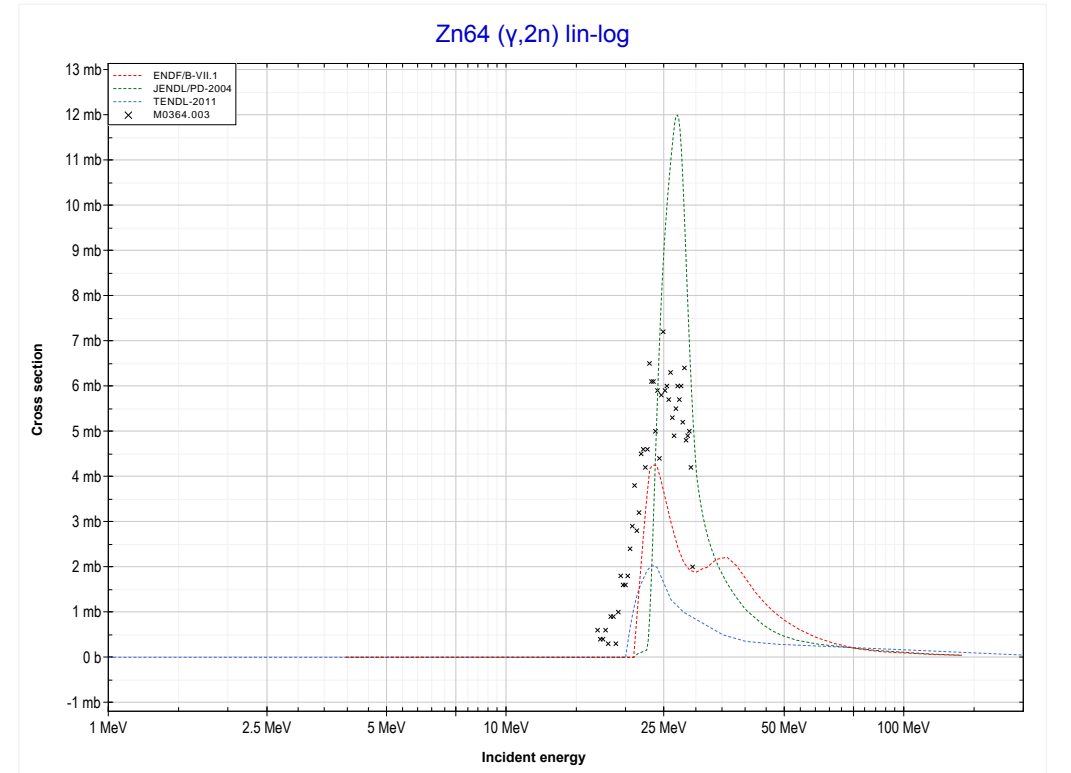
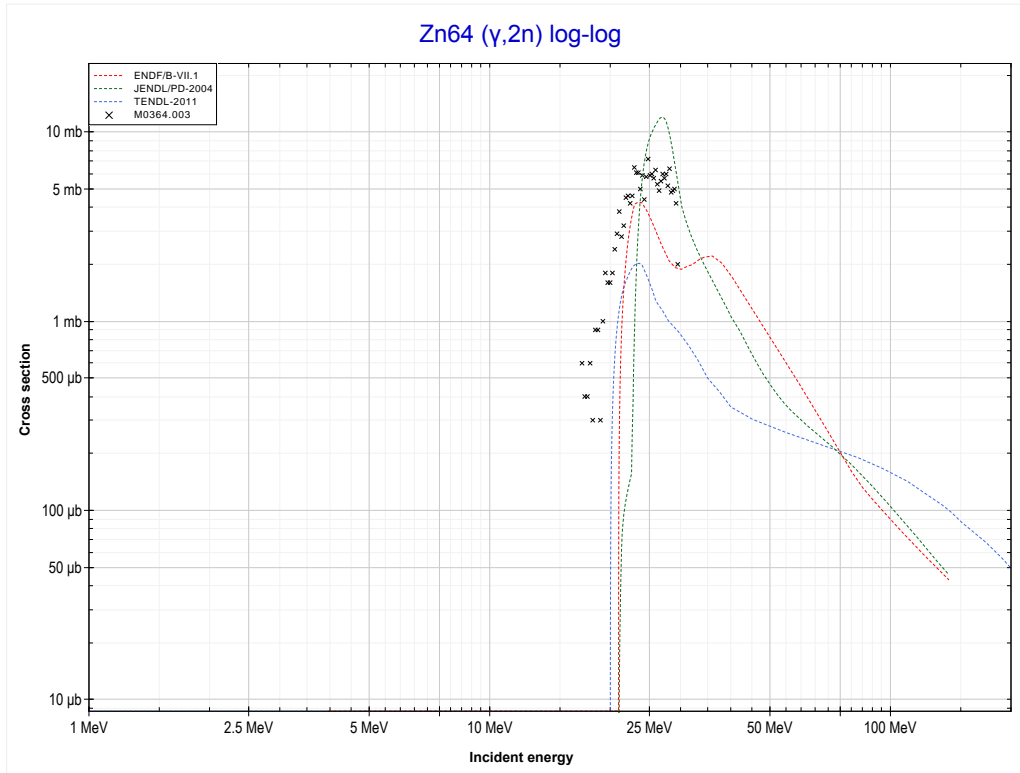
Reaction	Q-Value
Cu65(γ, p)Ni64	-7453.37 keV

<< 29-Cu-65	30-Zn-64	30-Zn-65 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Zn63 production)	MT16 ($\gamma,2n$) >>



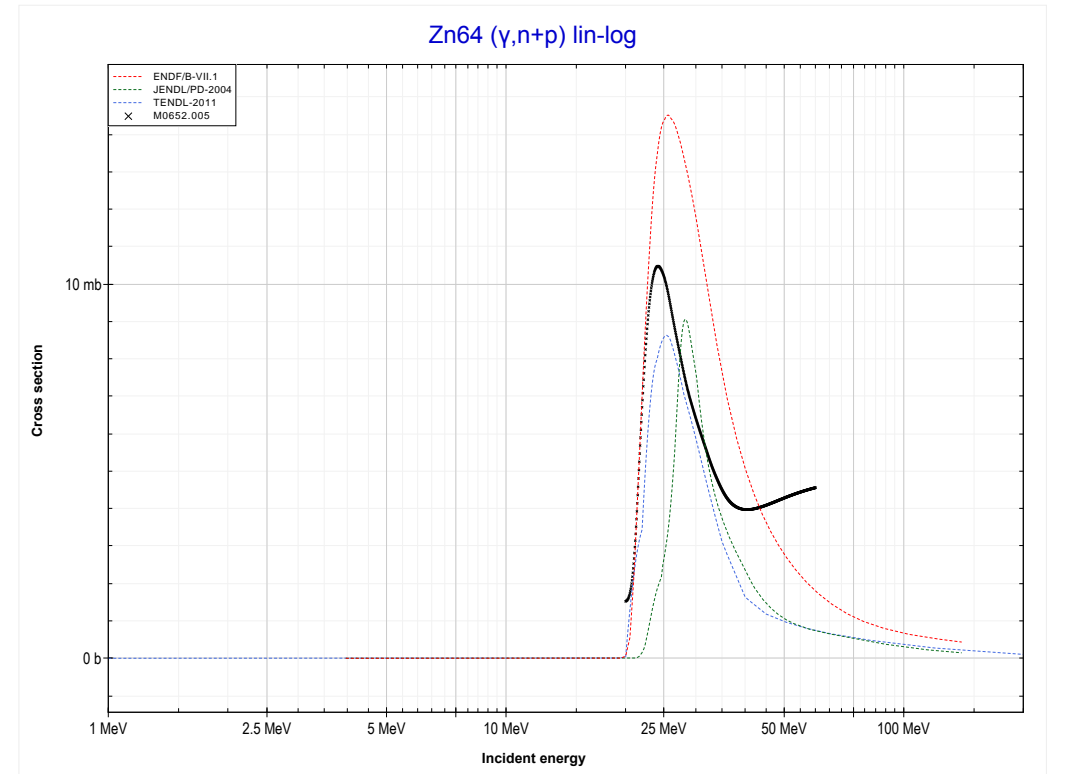
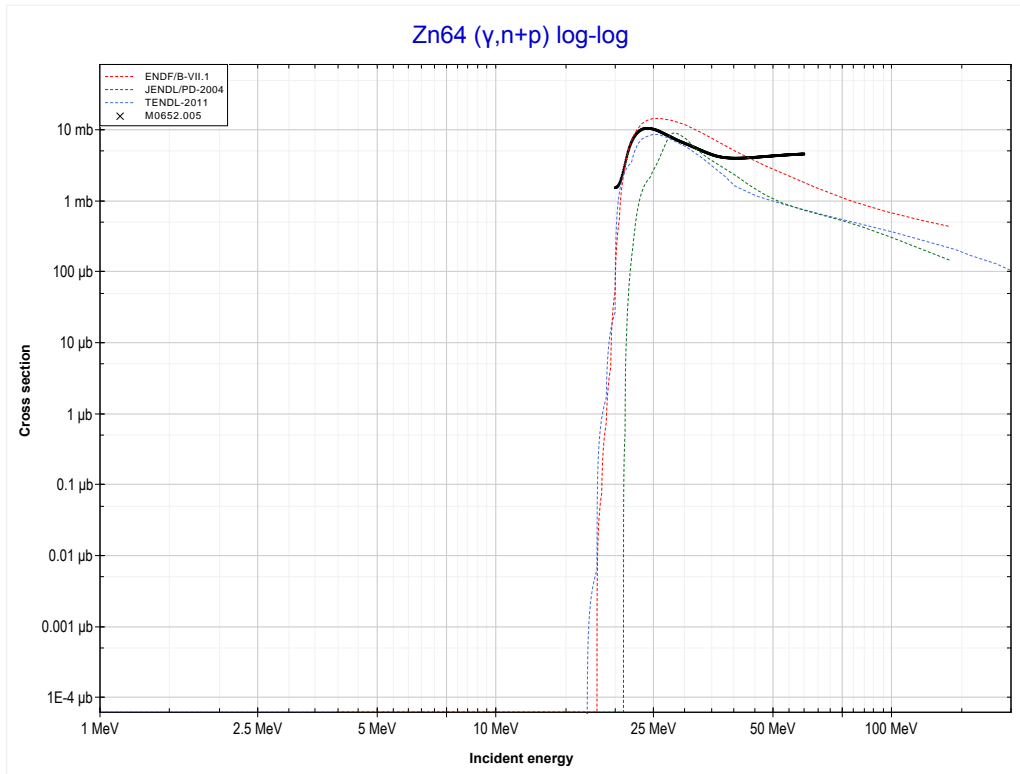
Reaction	Q-Value
Zn64(γ,n)Zn63	-11861.92 keV

<< 29-Cu-65	30-Zn-64	32-Ge-70 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Zn62 production)	MT28 ($\gamma, n+p$) >>



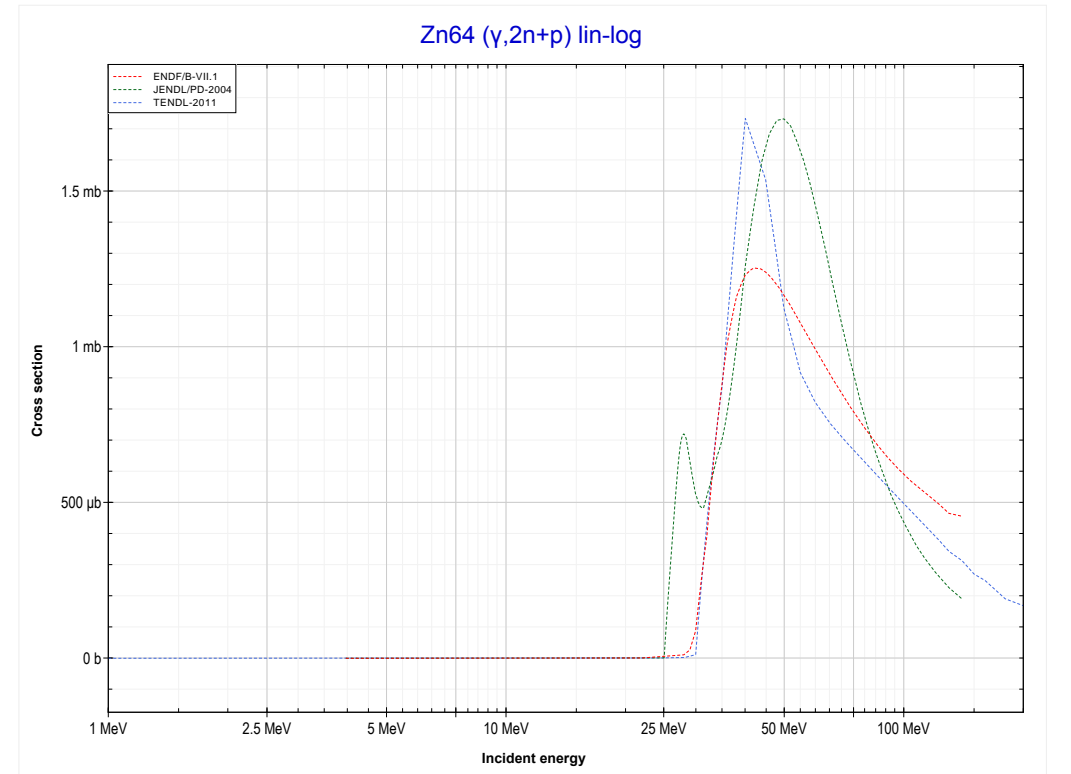
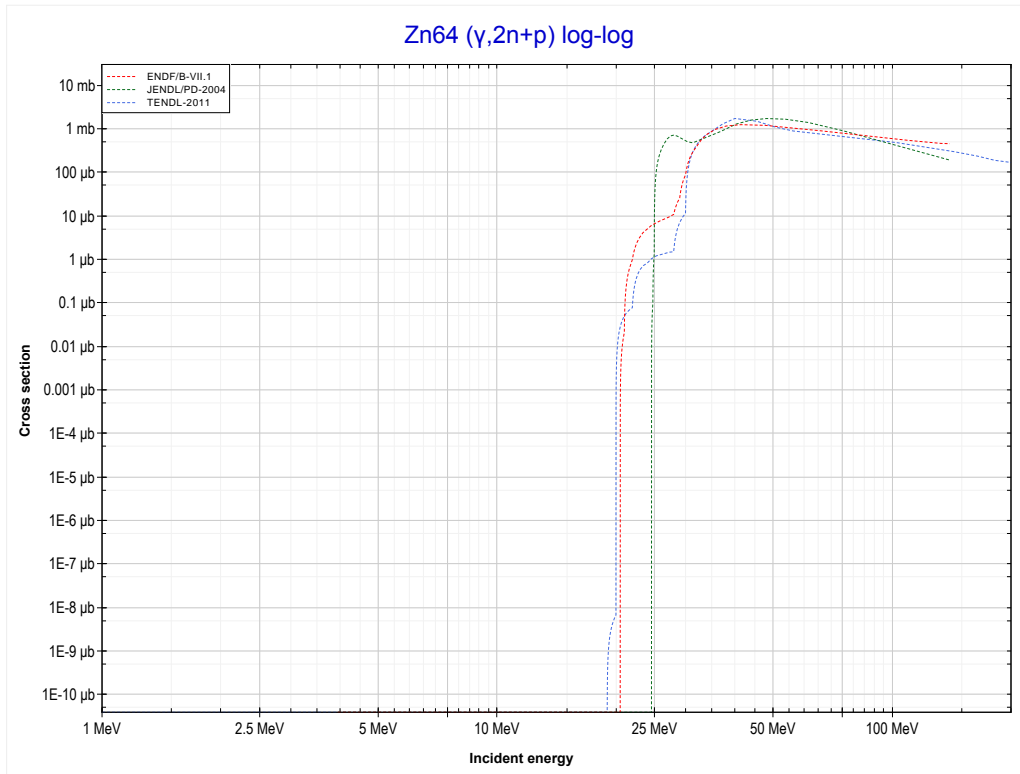
Reaction	Q-Value
Zn64($\gamma, 2n$)Zn62	-20975.23 keV

<< 29-Cu-65	30-Zn-64	30-Zn-66 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Cu62 production)	MT41 ($\gamma,2n+p$) >>



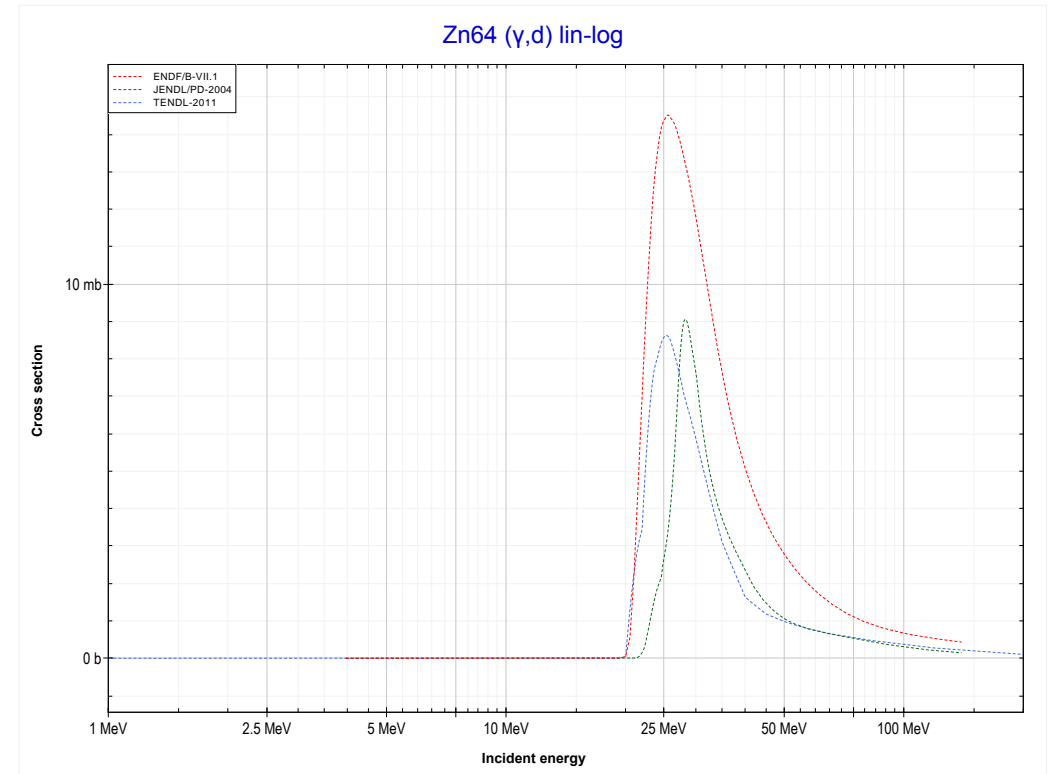
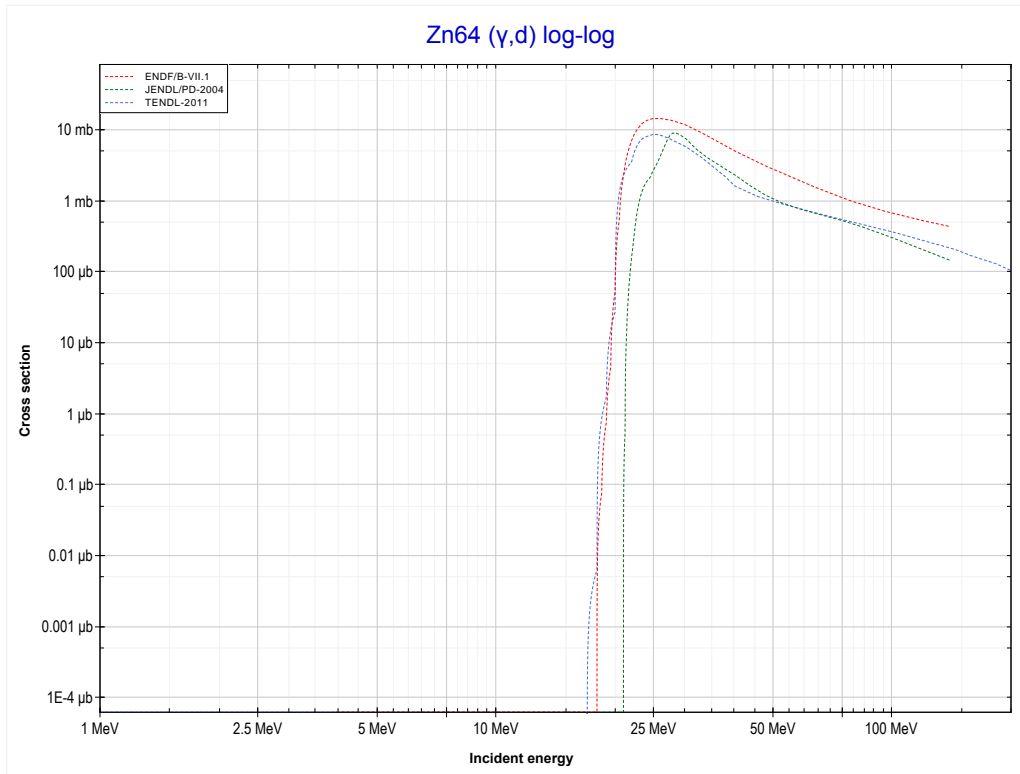
Reaction	Q-Value
Zn64(γ,d)Cu62	-16341.32 keV
Zn64($\gamma,n+p$)Cu62	-18565.89 keV

<< 29-Cu-65	30-Zn-64	32-Ge-70 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Cu61 production)	MT104 (γ, d) >>



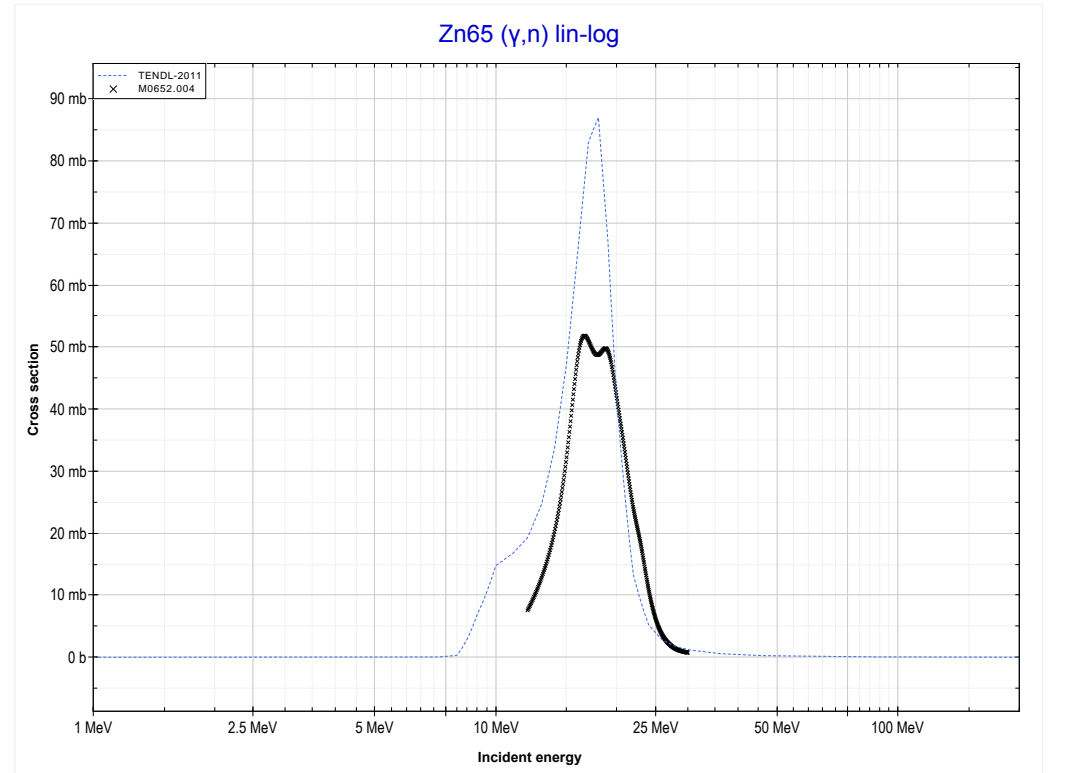
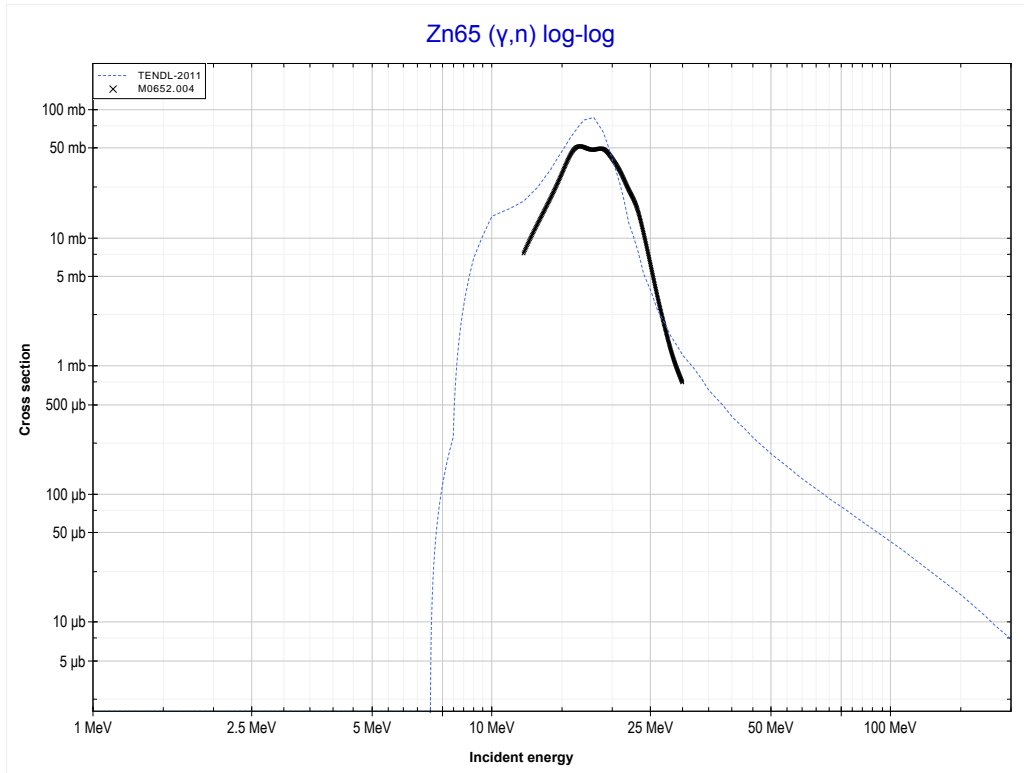
Reaction	Q-Value
Zn64(γ, t)Cu61	-18969.81 keV
Zn64($\gamma, n+d$)Cu61	-25227.04 keV
Zn64($\gamma, 2n+p$)Cu61	-27451.60 keV

	30-Zn-64	30-Zn-66 >>
<< MT41 ($\gamma,2n+p$)	MT104 (γ,d) or MT5 (Cu62 production)	MT4 (γ,n) >>



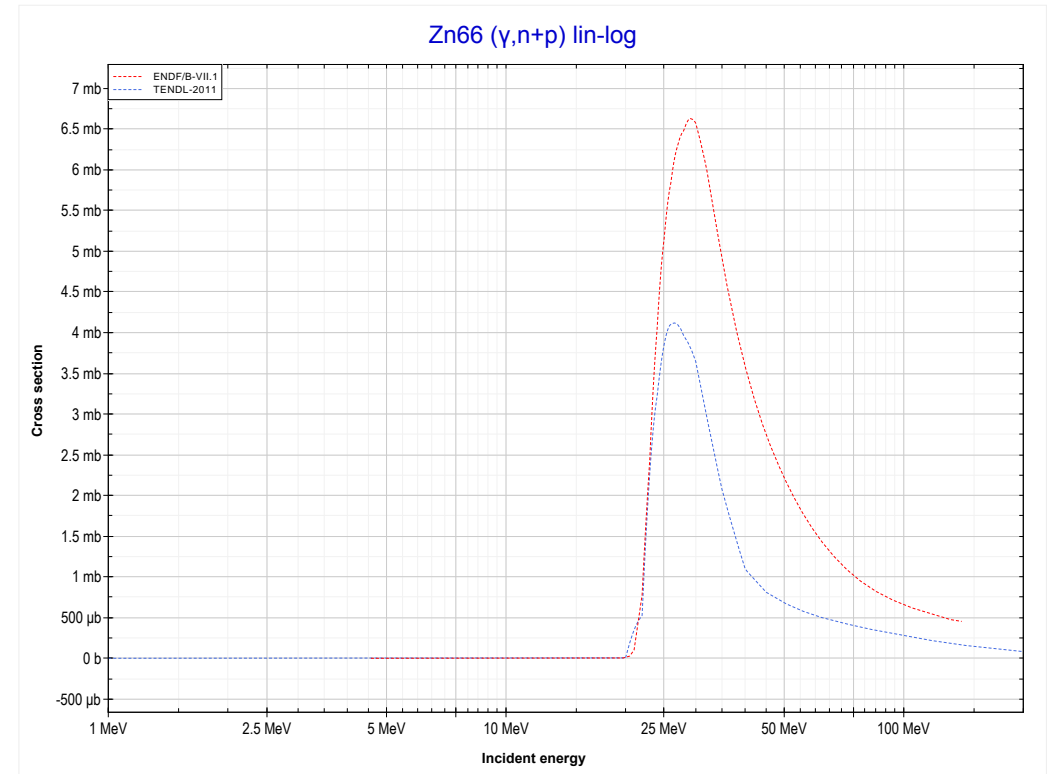
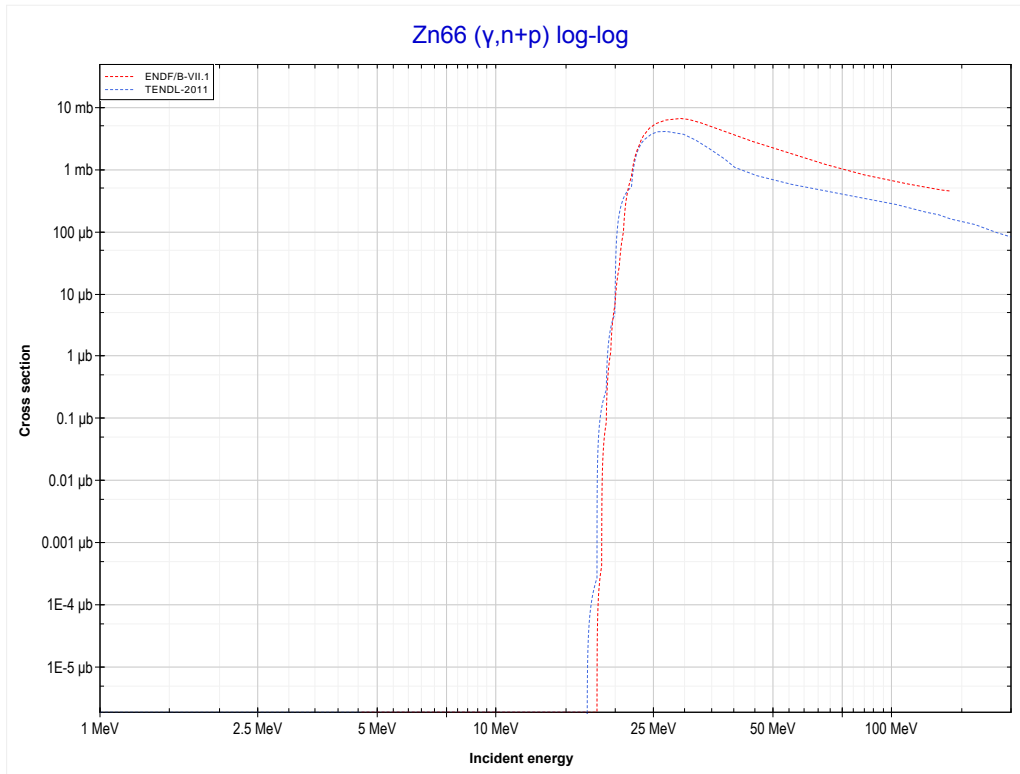
Reaction	Q-Value
$\text{Zn64}(\gamma,d)\text{Cu62}$	-16341.32 keV
$\text{Zn64}(\gamma,n+p)\text{Cu62}$	-18565.89 keV

<< 30-Zn-64	30-Zn-65	30-Zn-67 >>
<< MT104 (γ, d)	MT4 (γ, n) or MT5 (Zn64 production)	MT28 ($\gamma, n+p$) >>



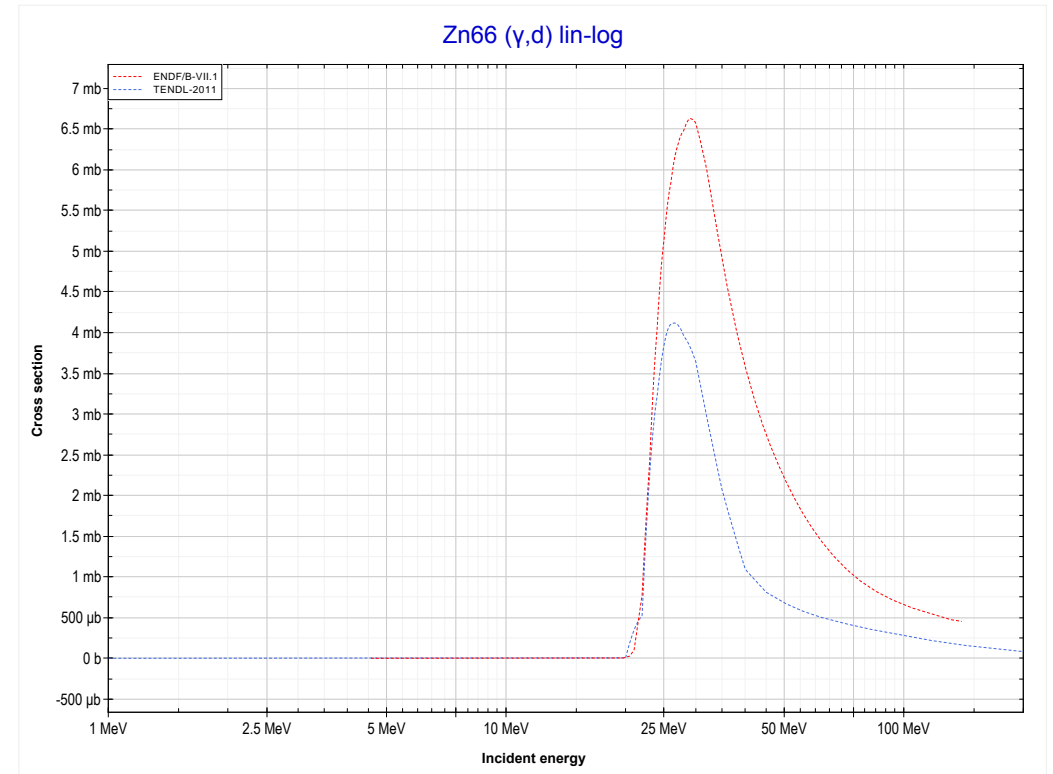
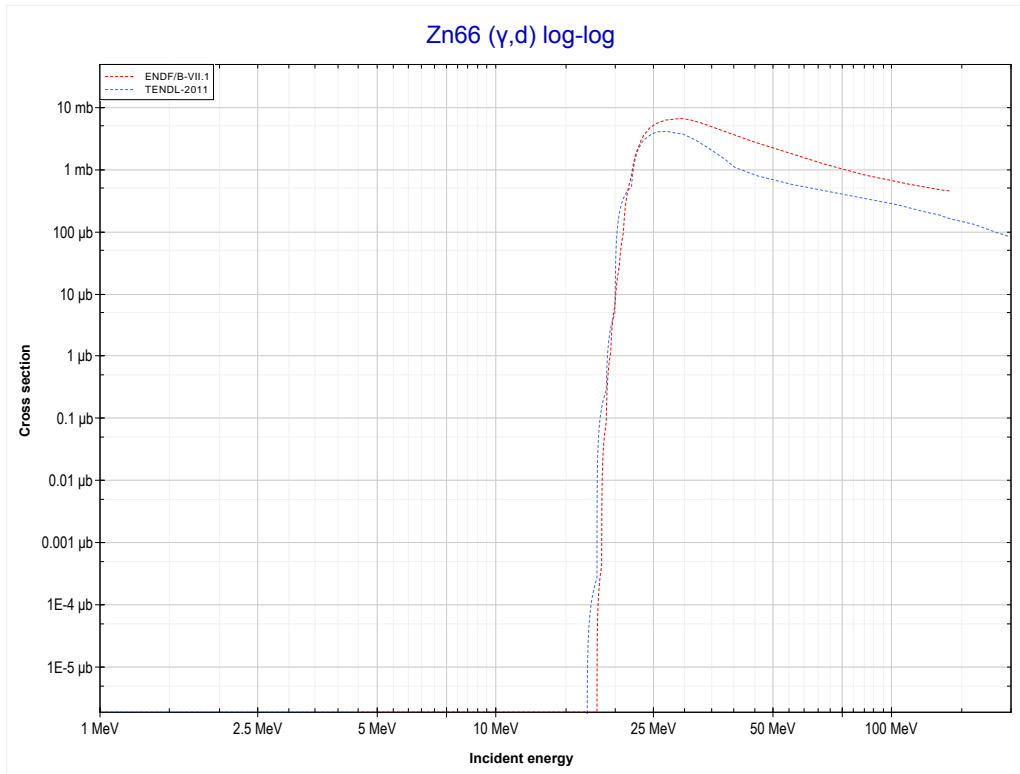
Reaction	Q-Value
Zn65(γ, n)Zn64	-7979.32 keV

<< 30-Zn-64	30-Zn-66	32-Ge-70 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (Cu64 production)	MT104 (γ,d) >>



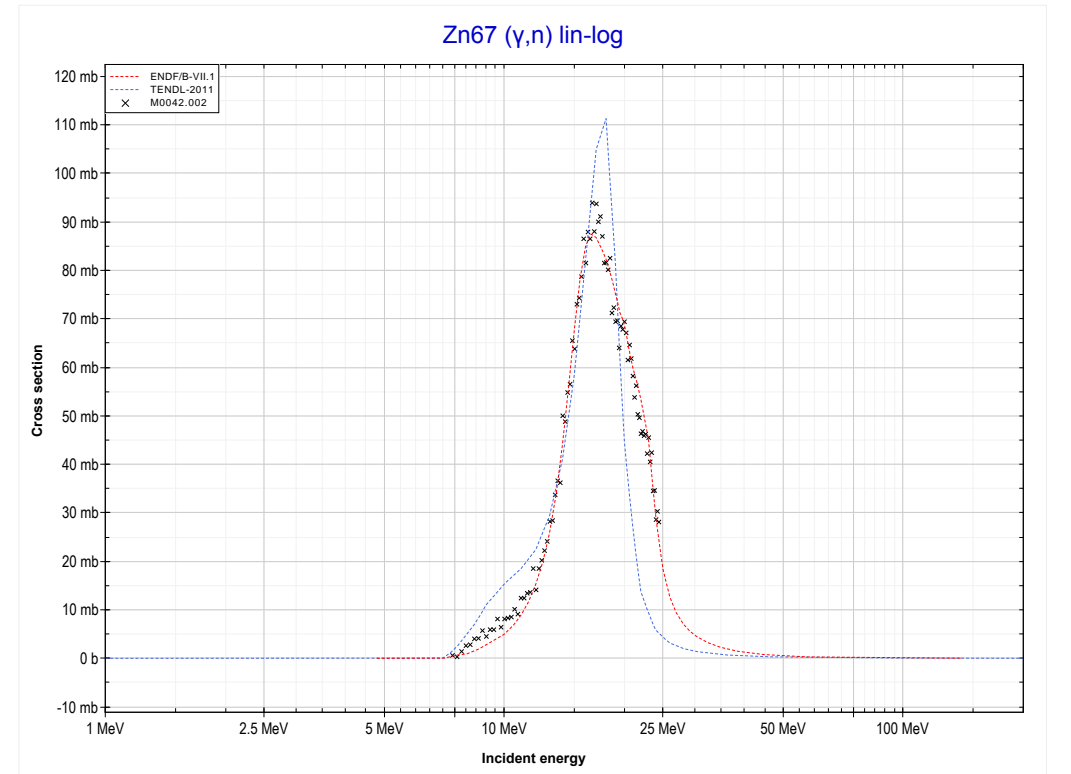
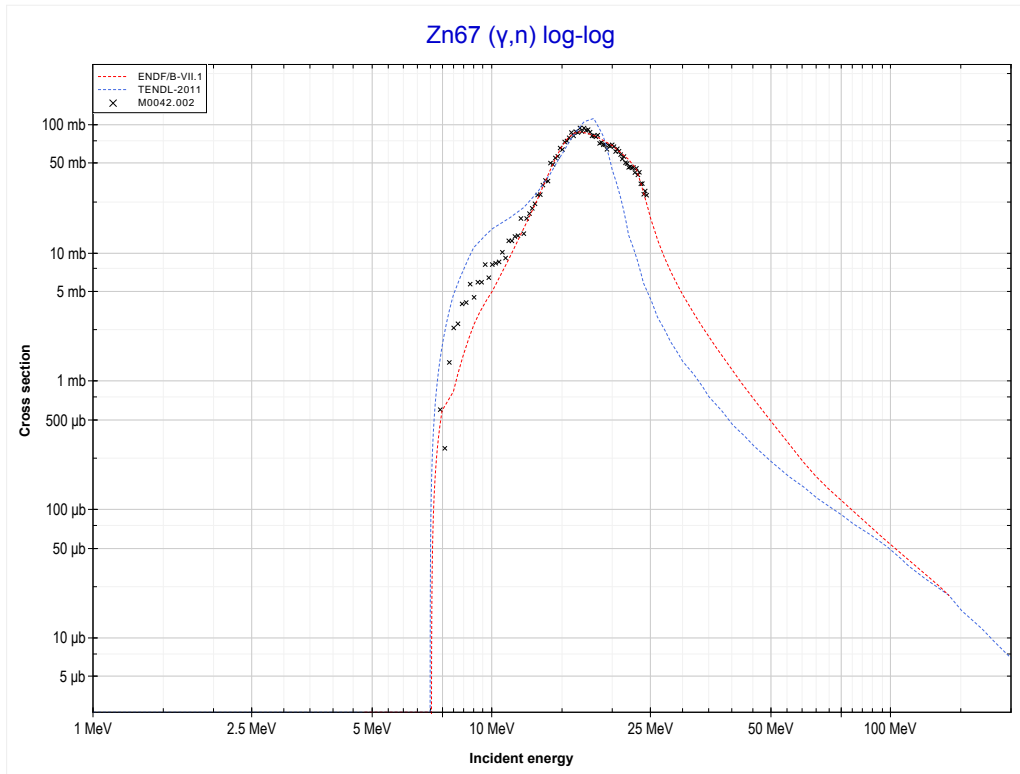
Reaction	Q-Value
Zn66(γ,d)Cu64	-16610.92 keV
Zn66($\gamma,n+p$)Cu64	-18835.49 keV

<< 30-Zn-64	30-Zn-66	
<< MT28 ($\gamma, n+p$)	MT104 (γ, d) or MT5 (Cu64 production)	MT4 (γ, n) >>



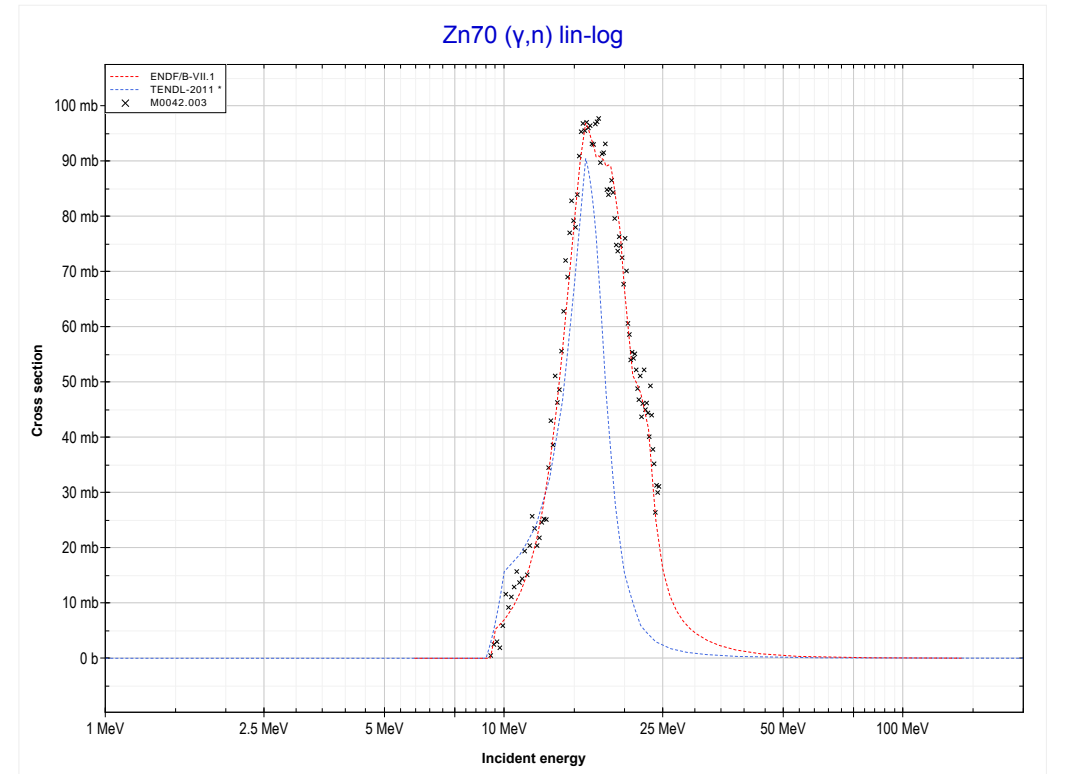
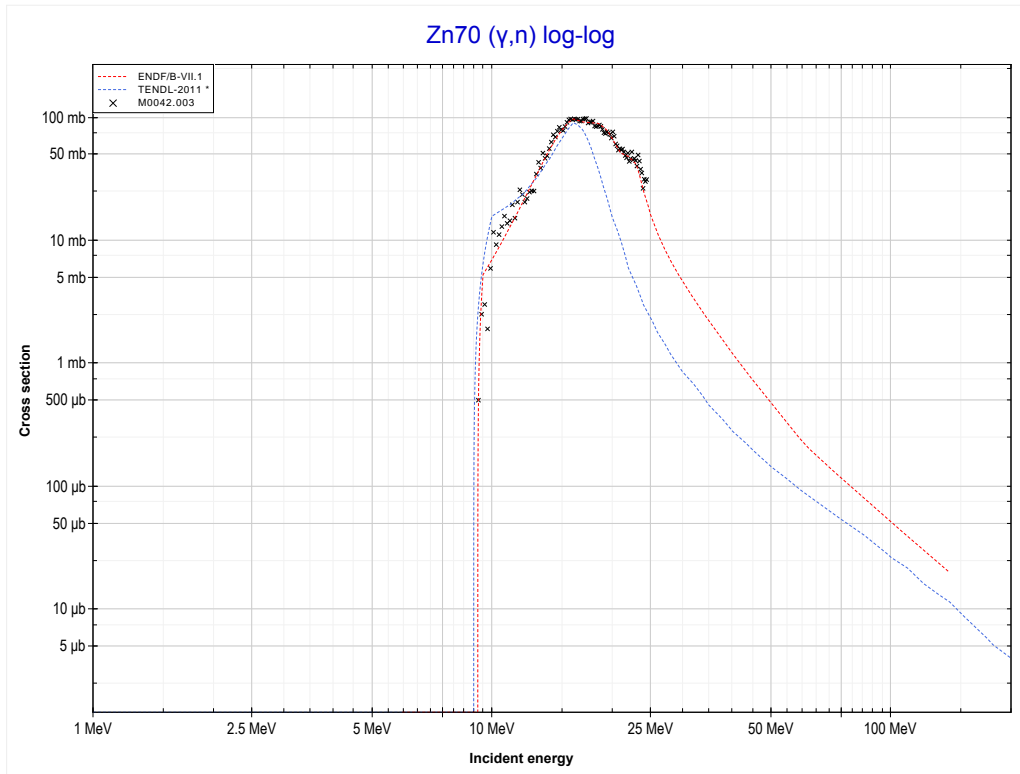
Reaction	Q-Value
Zn66(γ, d)Cu64	-16610.92 keV
Zn66($\gamma, n+p$)Cu64	-18835.49 keV

<< 30-Zn-65	30-Zn-67	30-Zn-70 >>
<< MT104 (γ,d)	MT4 (γ,n) or MT5 (Zn66 production)	MT4 (γ,n) >>



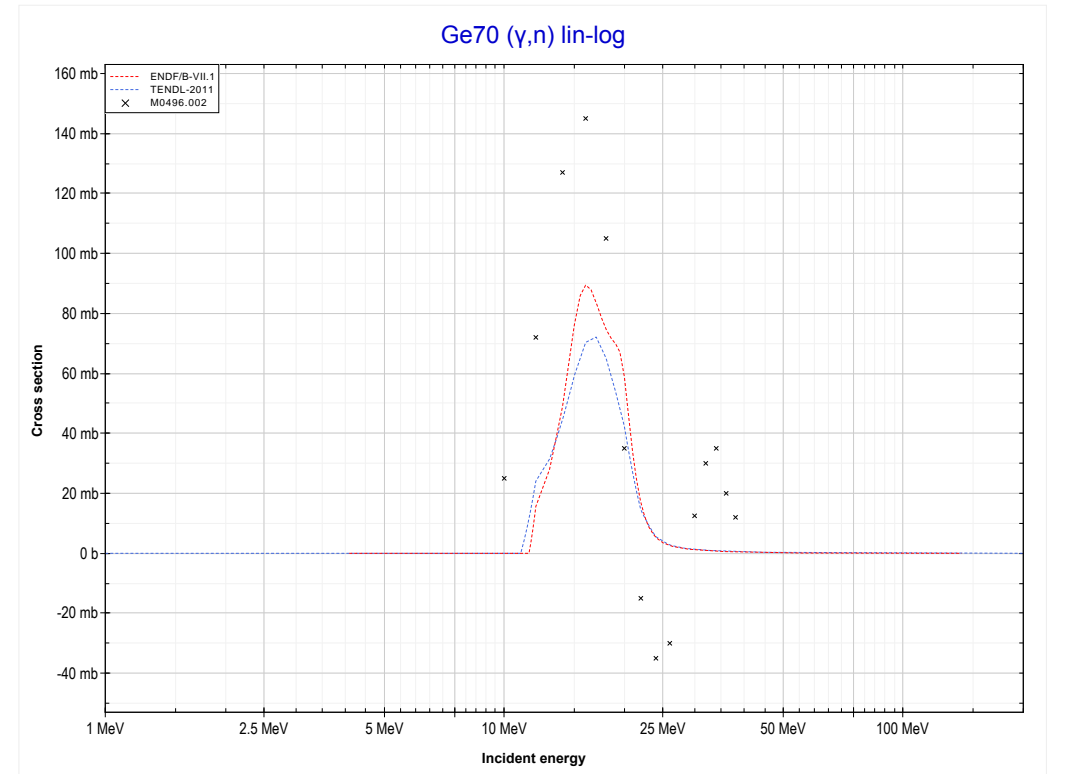
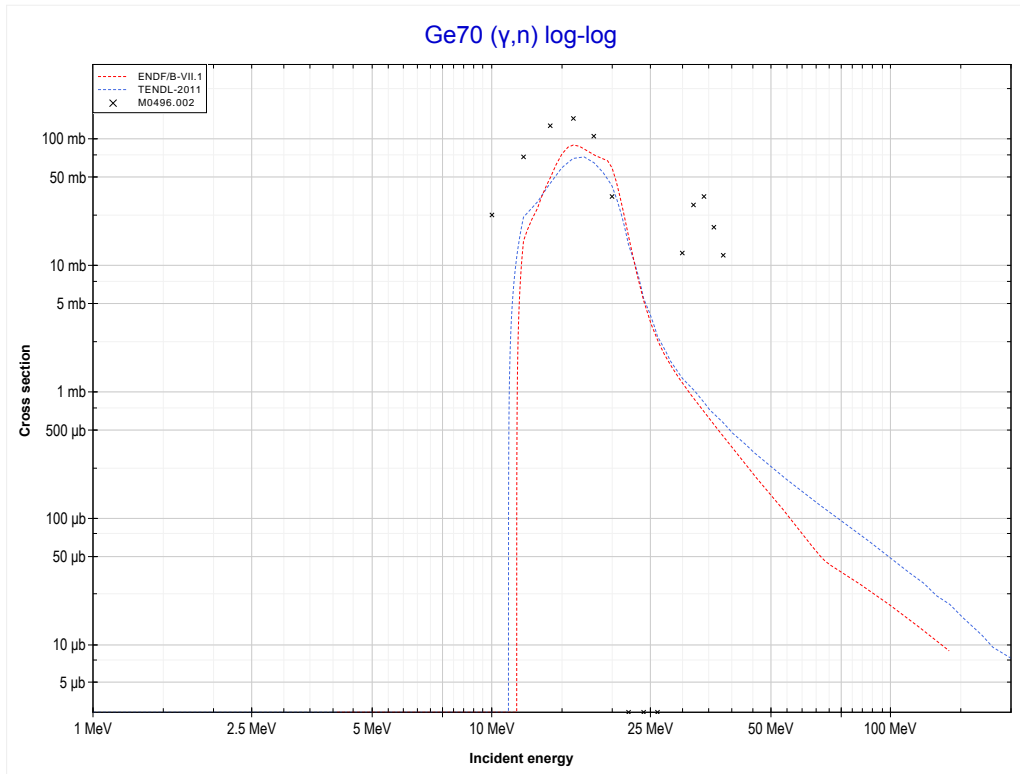
Reaction	Q-Value
Zn67(γ,n)Zn66	-7052.32 keV

<< 30-Zn-67	30-Zn-70	32-Ge-70 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Zn69 production)	MT4 (γ,n) >>



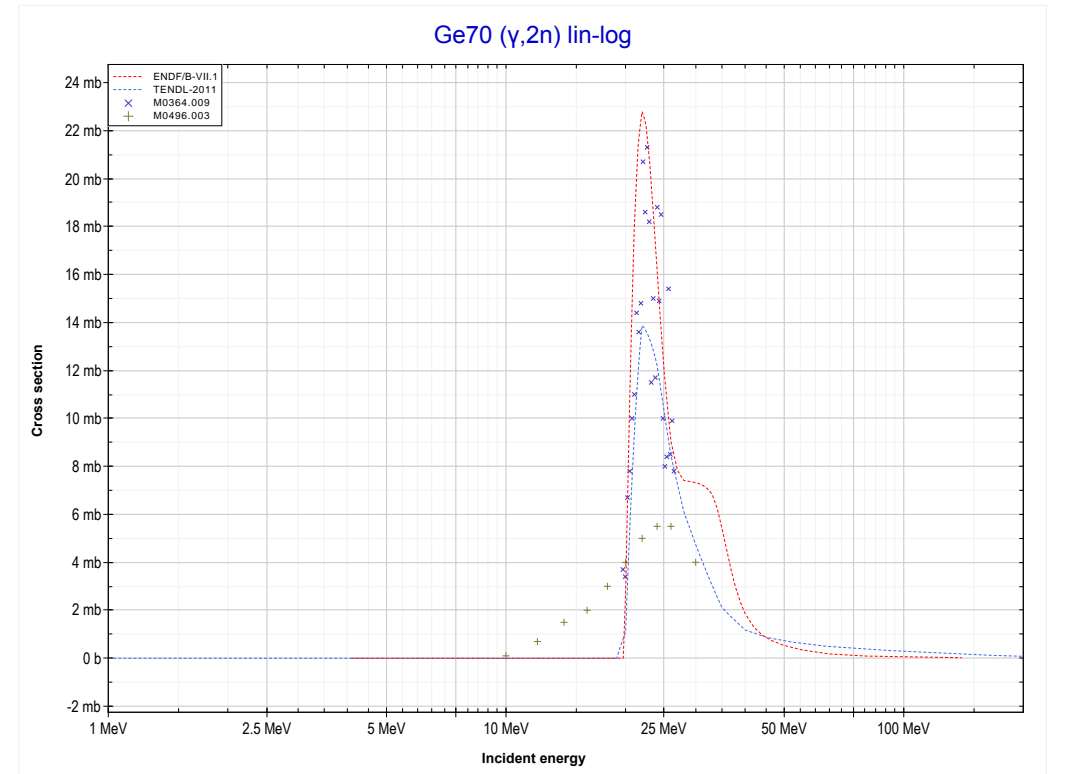
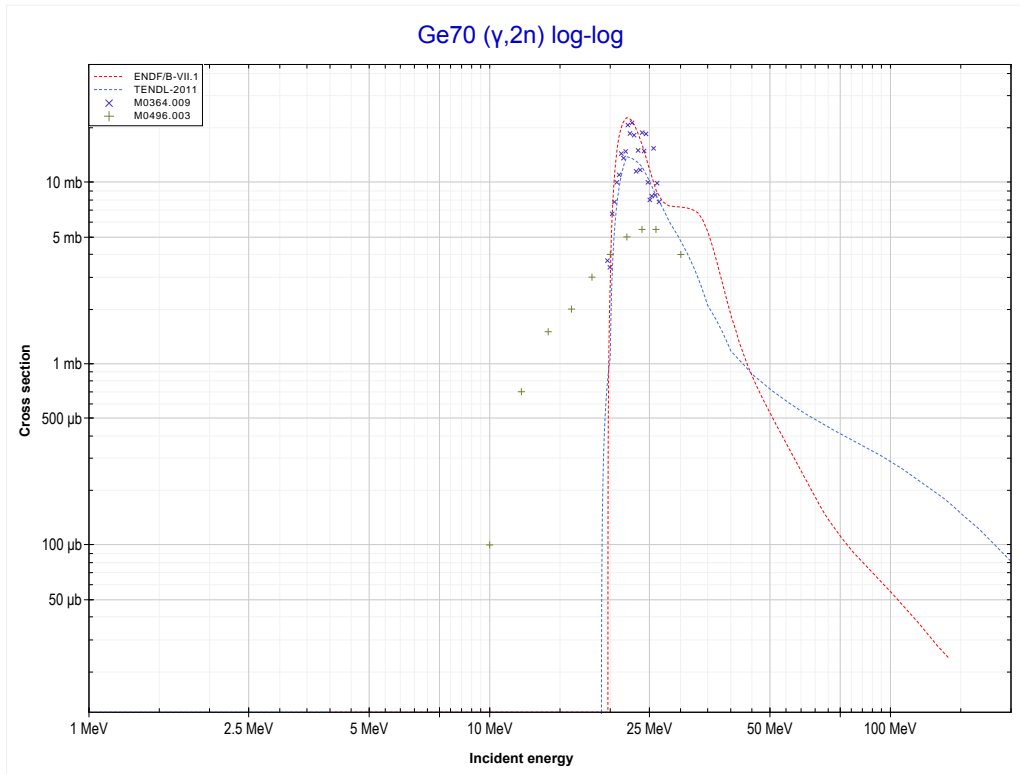
Reaction	Q-Value
Zn70(γ,n)Zn69	-9217.92 keV

<< 30-Zn-70	32-Ge-70	32-Ge-72 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ge69 production)	MT16 ($\gamma,2n$) >>



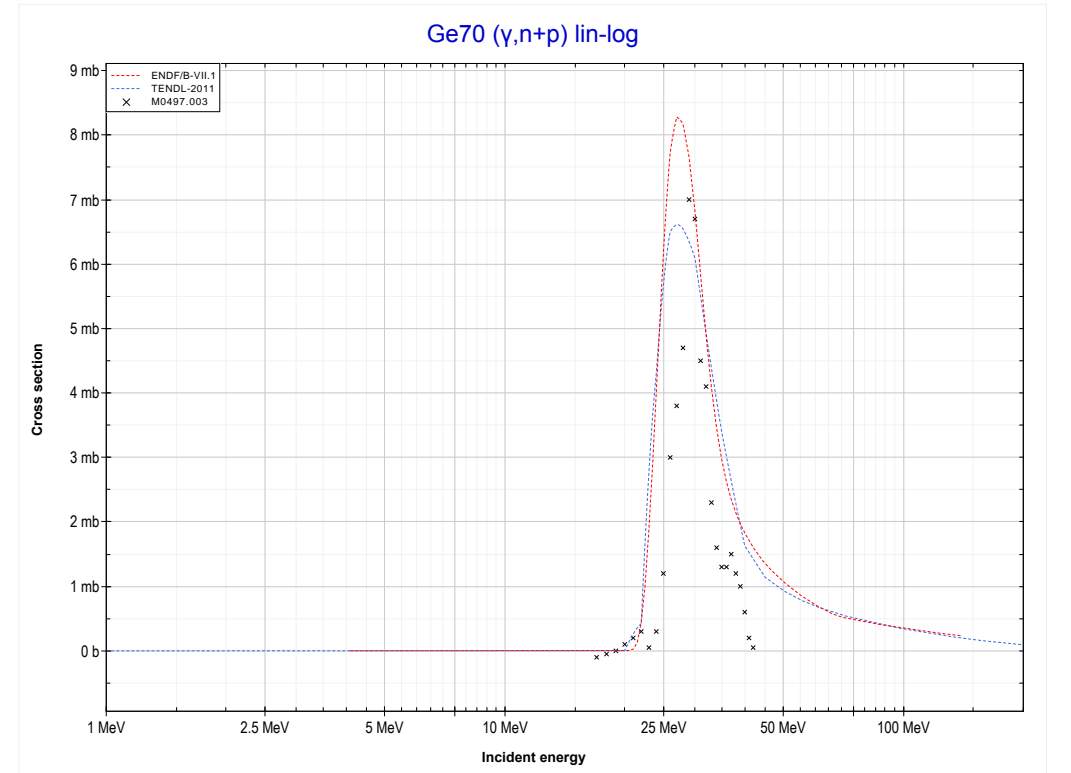
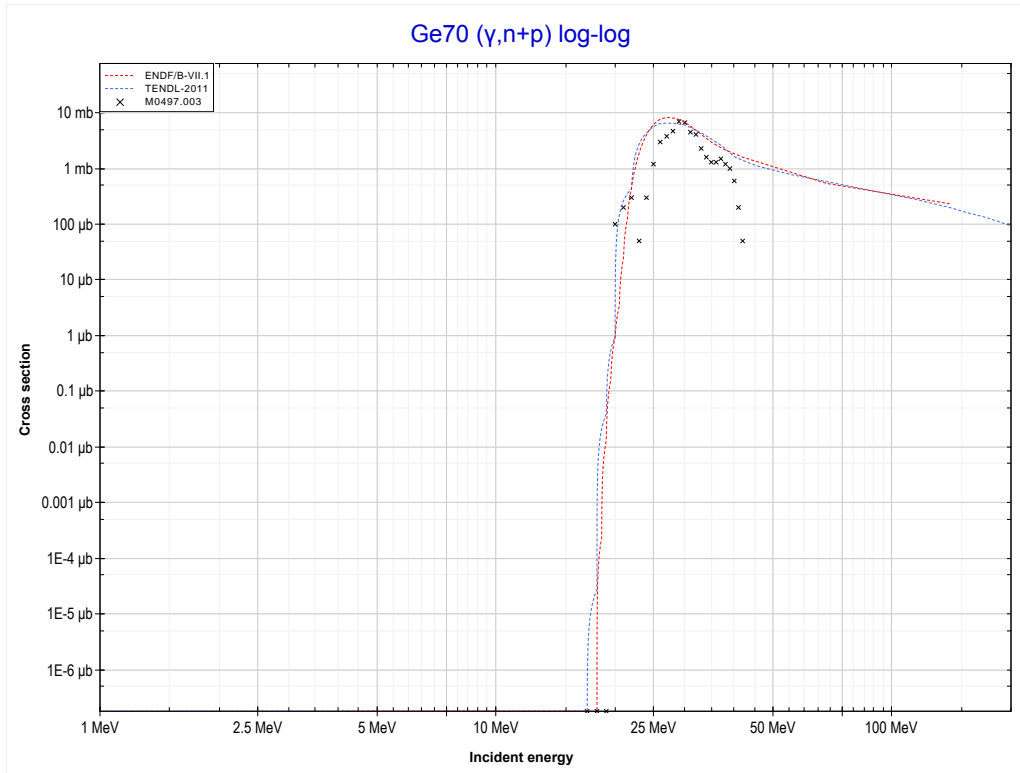
Reaction	Q-Value
Ge70(γ,n)Ge69	-11533.82 keV

<< 30-Zn-64	32-Ge-70	32-Ge-72 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ge68 production)	MT28 ($\gamma,n+p$) >>



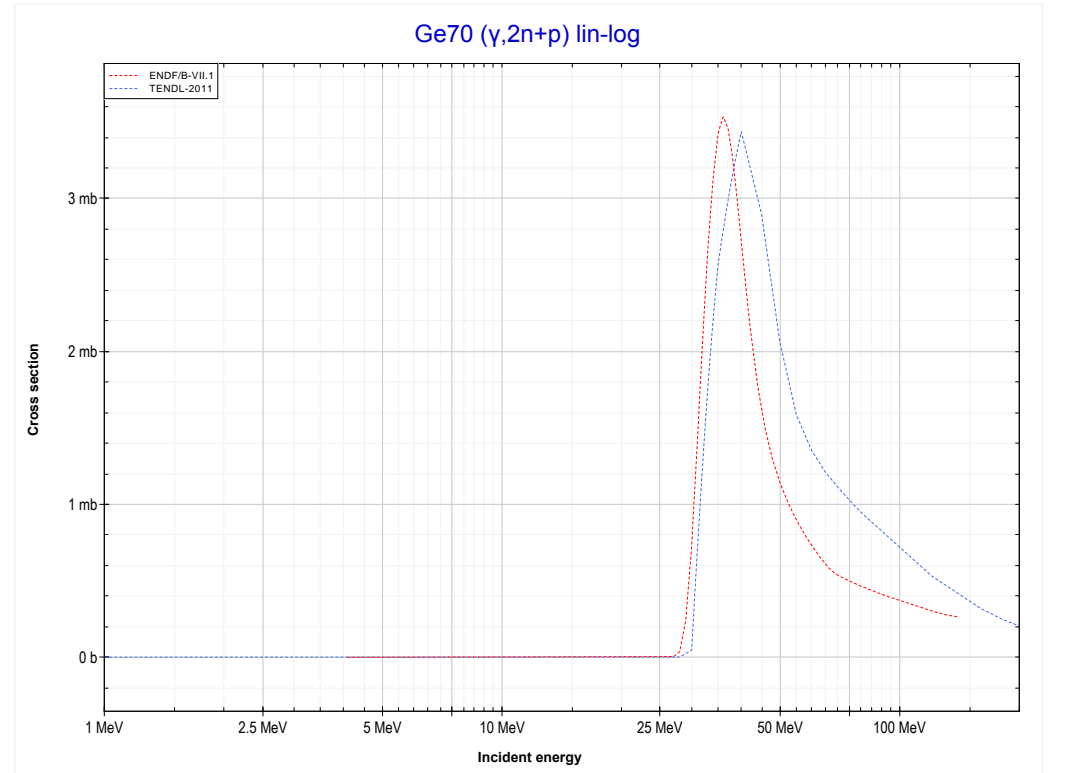
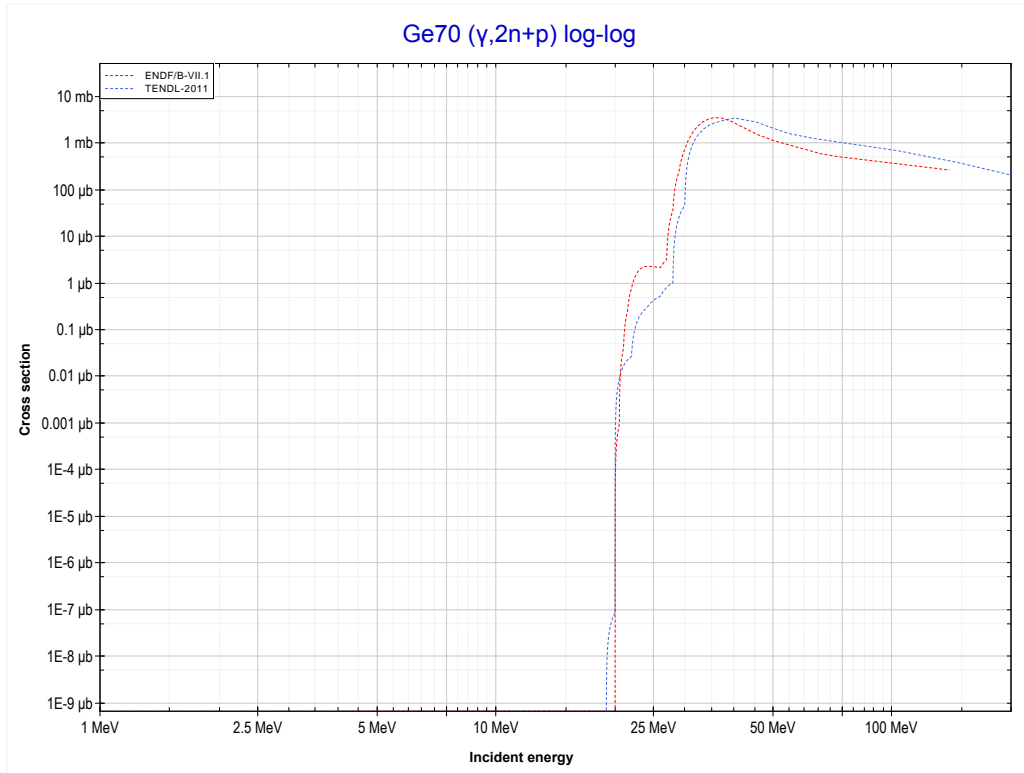
Reaction	Q-Value
Ge70($\gamma,2n$)Ge68	-19725.73 keV

<< 30-Zn-66	32-Ge-70	32-Ge-72 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ga68 production)	MT41 ($\gamma,2n+p$) >>



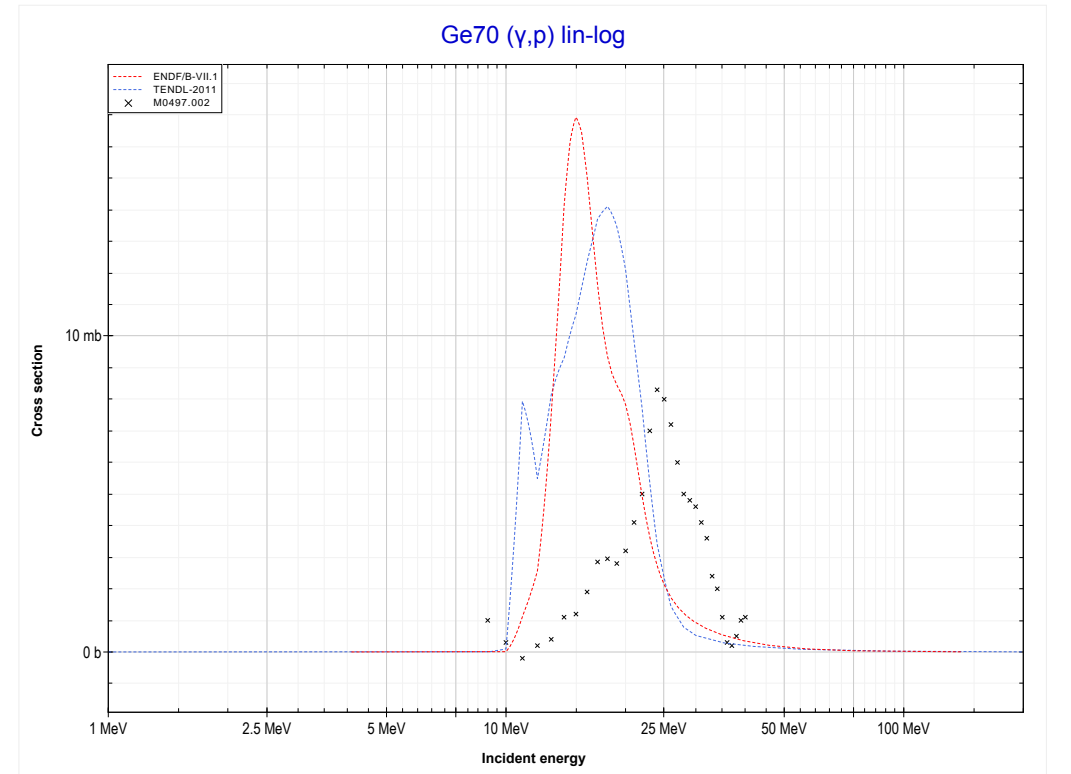
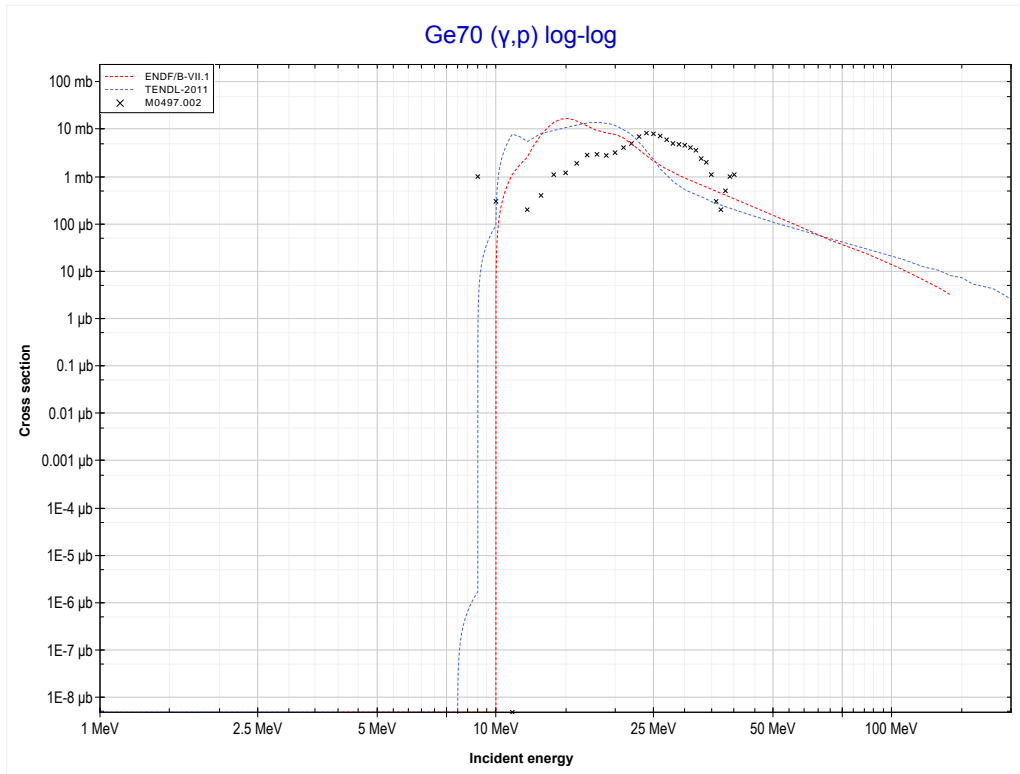
Reaction	Q-Value
Ge70(γ,d)Ga68	-16612.72 keV
Ge70($\gamma,n+p$)Ga68	-18837.29 keV

<< 30-Zn-64	32-Ge-70	33-As-75 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ga67 production)	MT103 (γ, p) >>



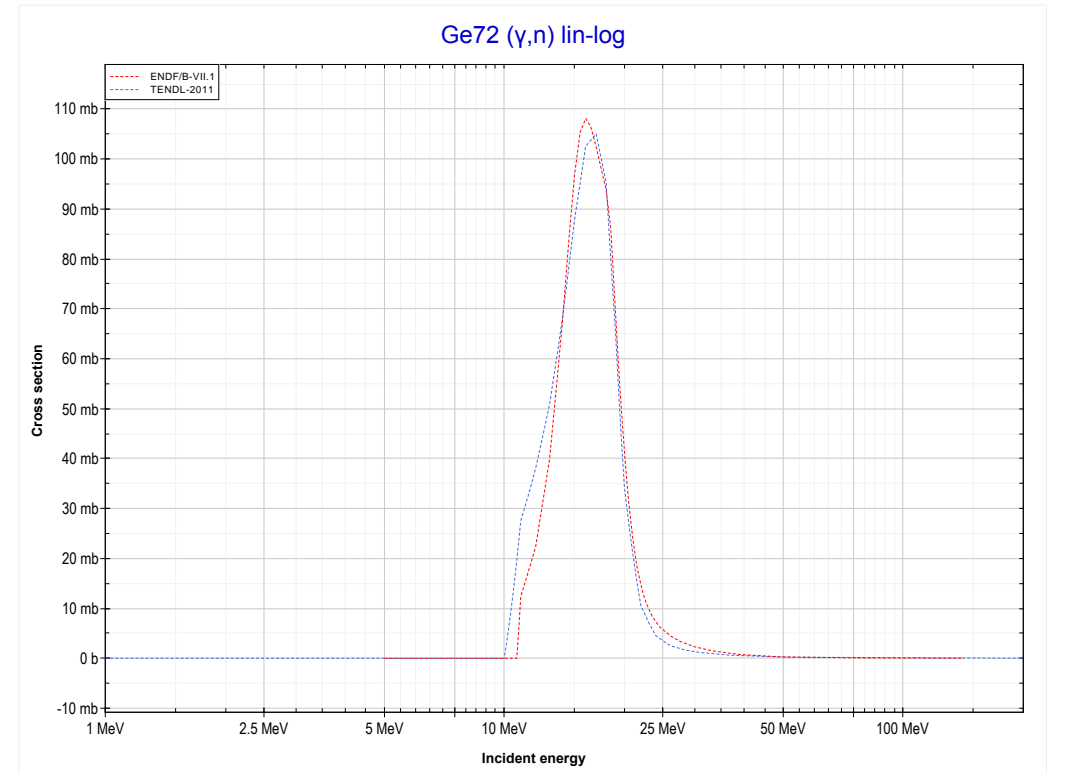
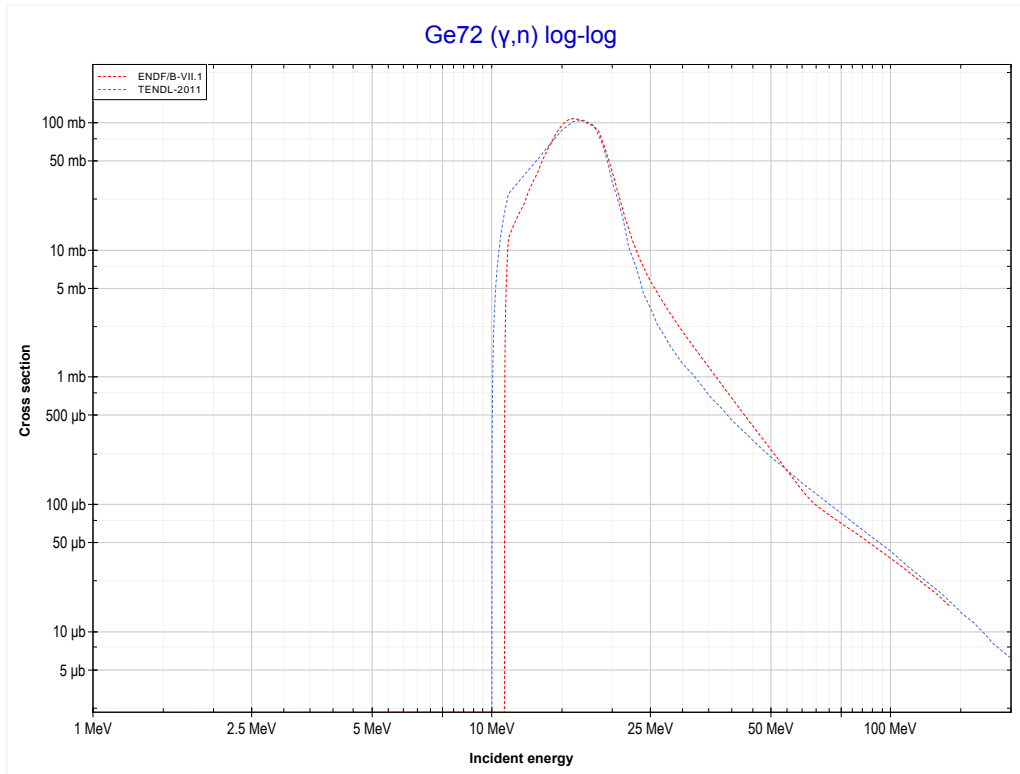
Reaction	Q-Value
Ge70(γ, t)Ga67	-18633.21 keV
Ge70($\gamma, n+d$)Ga67	-24890.44 keV
Ge70($\gamma, 2n+p$)Ga67	-27115.00 keV

<< 29-Cu-65	32-Ge-70	40-Zr-90 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Ga69 production)	MT4 (γ,n) >>



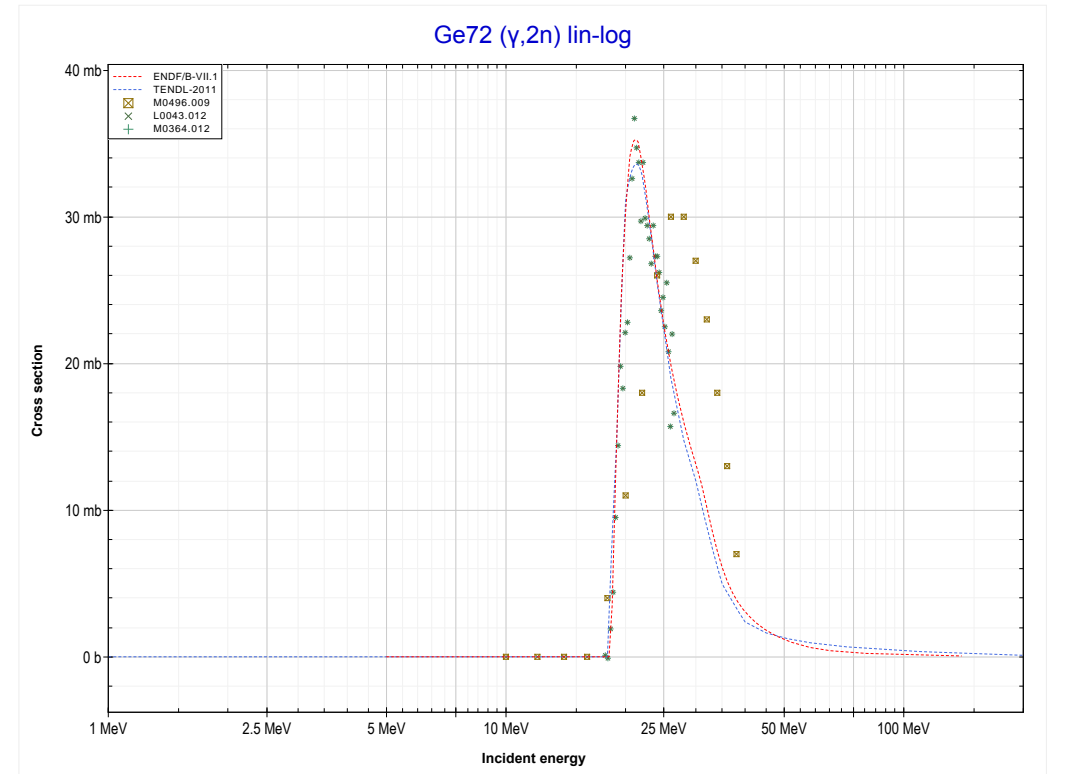
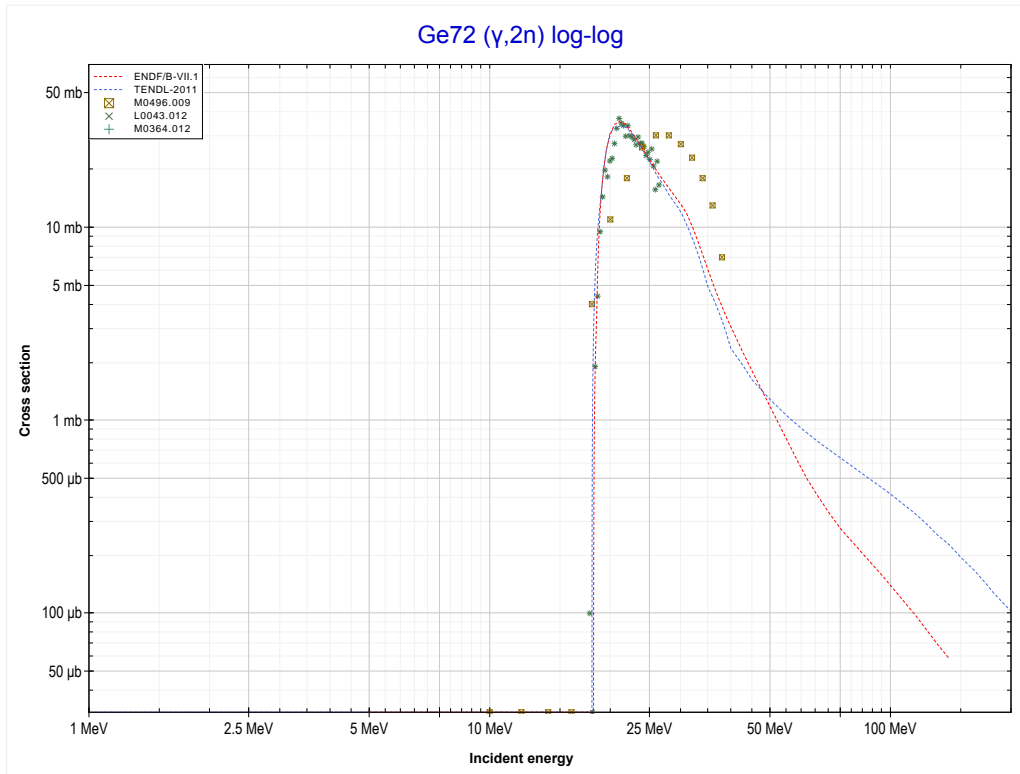
Reaction	Q-Value
Ge70(γ,p)Ga69	-8524.27 keV

<< 32-Ge-70	32-Ge-72	32-Ge-73 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Ge71 production)	MT16 ($\gamma,2n$) >>



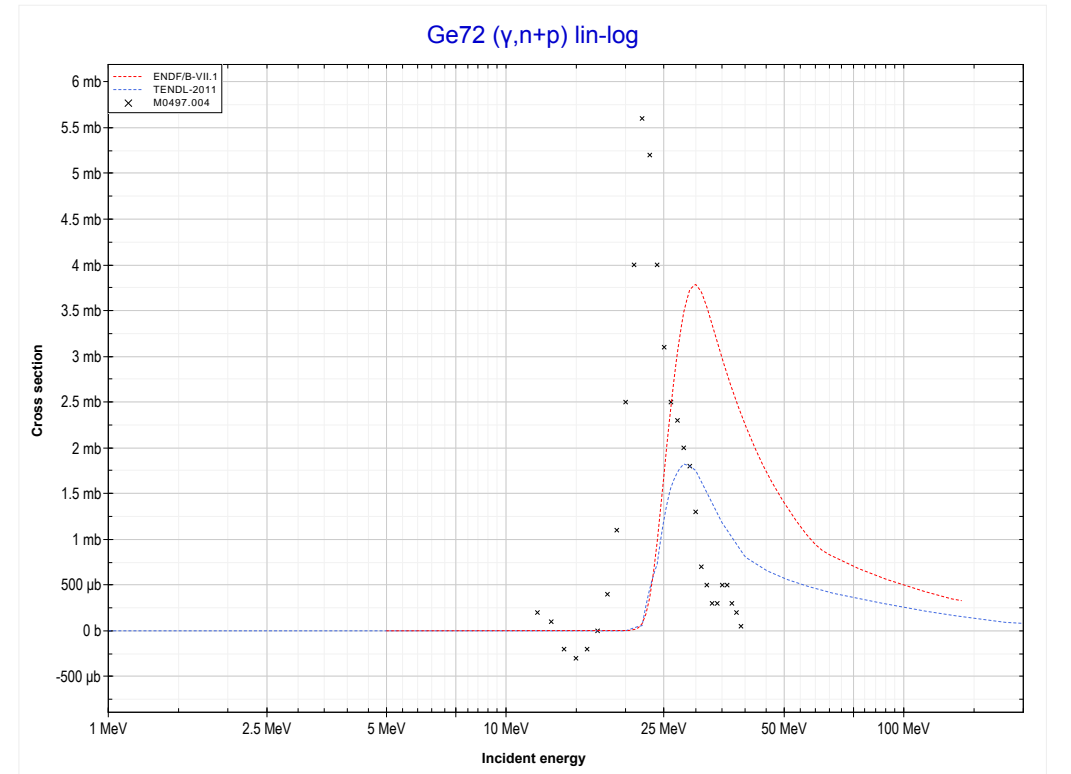
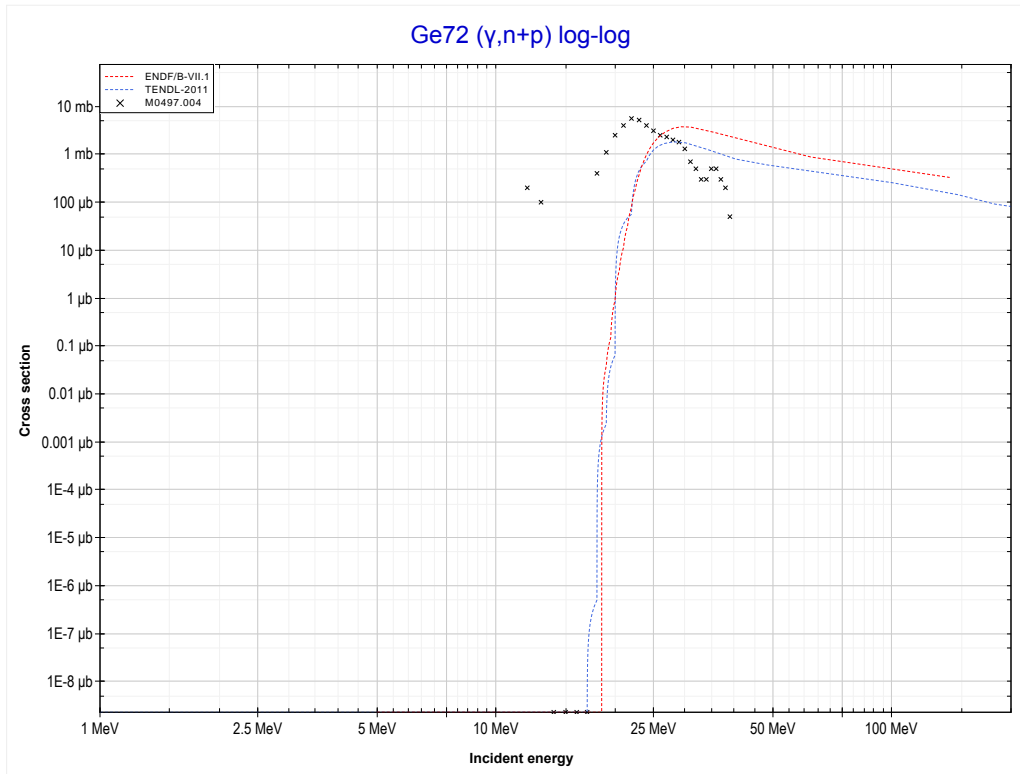
Reaction	Q-Value
Ge72(γ,n)Ge71	-10749.52 keV

<< 32-Ge-70	32-Ge-72	32-Ge-74 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ge70 production)	MT28 ($\gamma,n+p$) >>



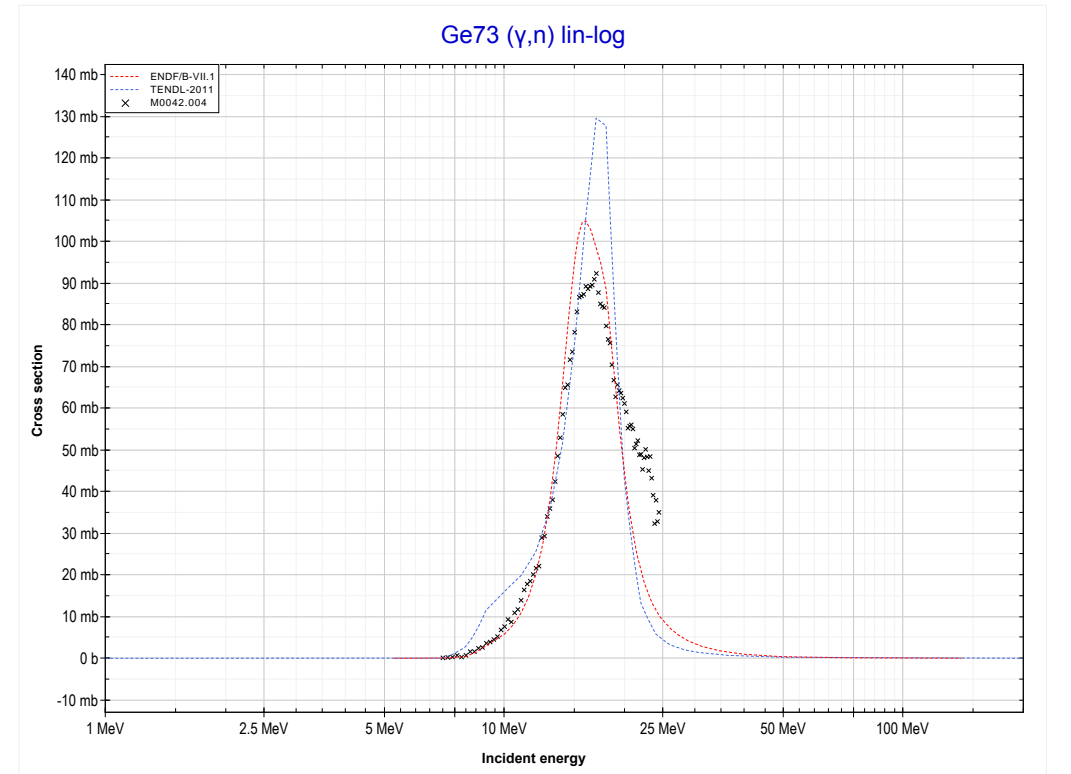
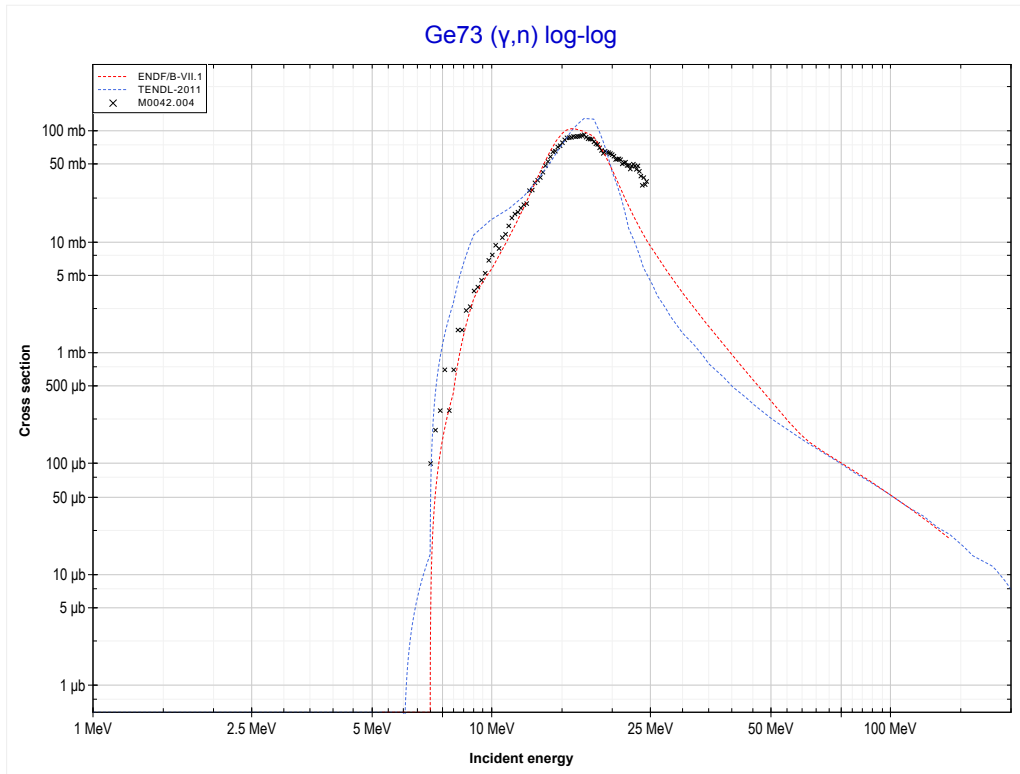
Reaction	Q-Value
Ge72($\gamma,2n$)Ge70	-18165.43 keV

<< 32-Ge-70	32-Ge-72	32-Ge-74 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ga70 production)	MT4 (γ,n) >>



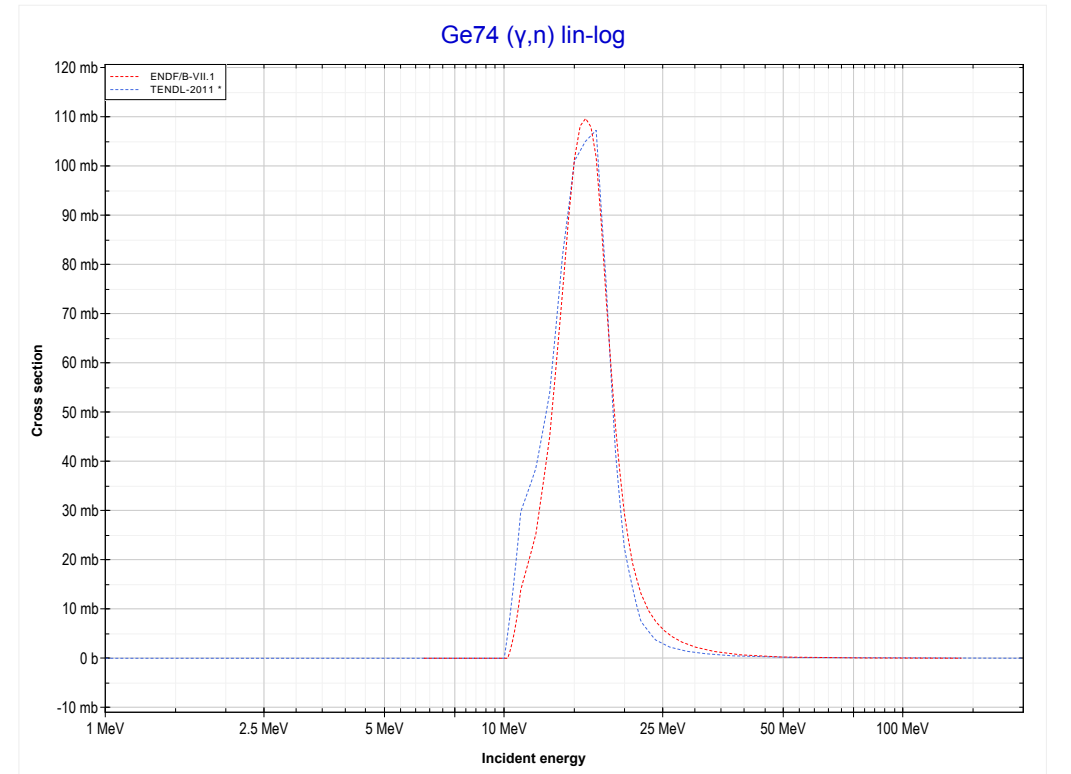
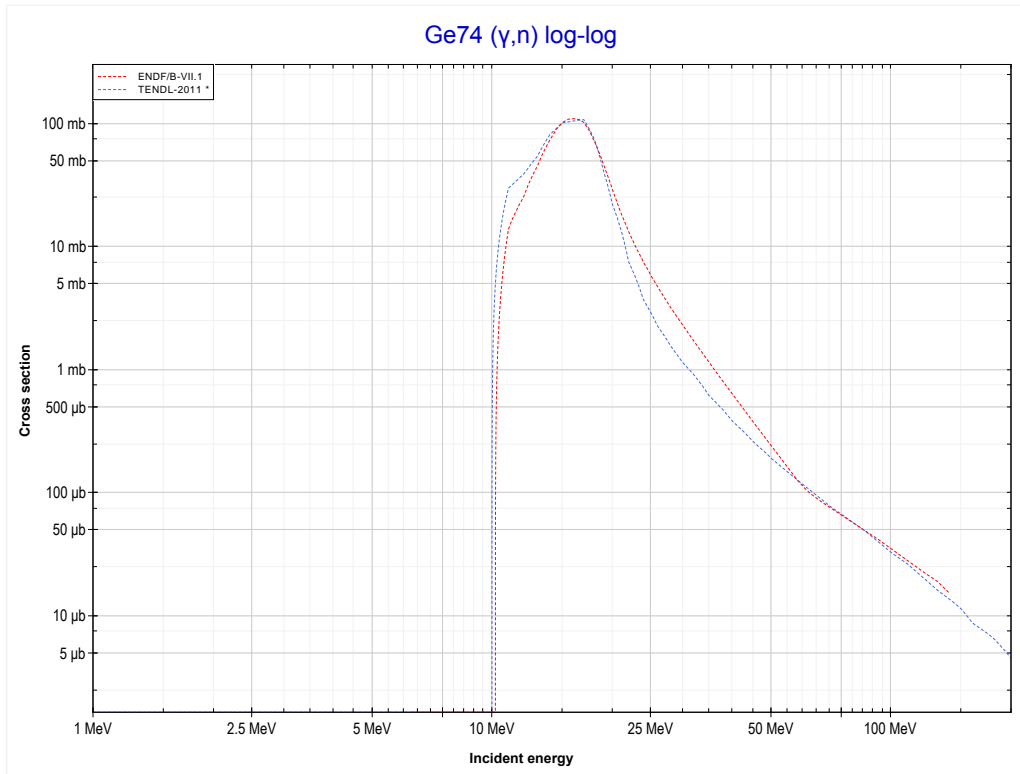
Reaction	Q-Value
Ge72(γ,d)Ga70	-16811.52 keV
Ge72($\gamma,n+p$)Ga70	-19036.09 keV

<< 32-Ge-72	32-Ge-73	32-Ge-74 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Ge72 production)	MT4 (γ, n) >>



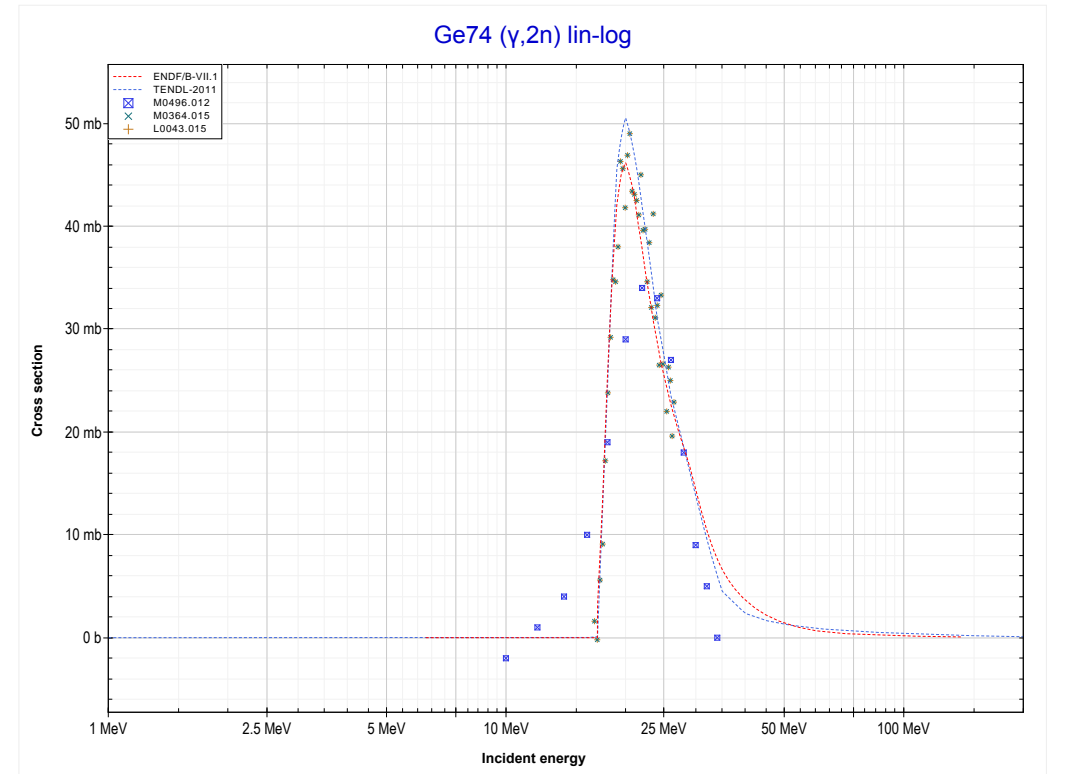
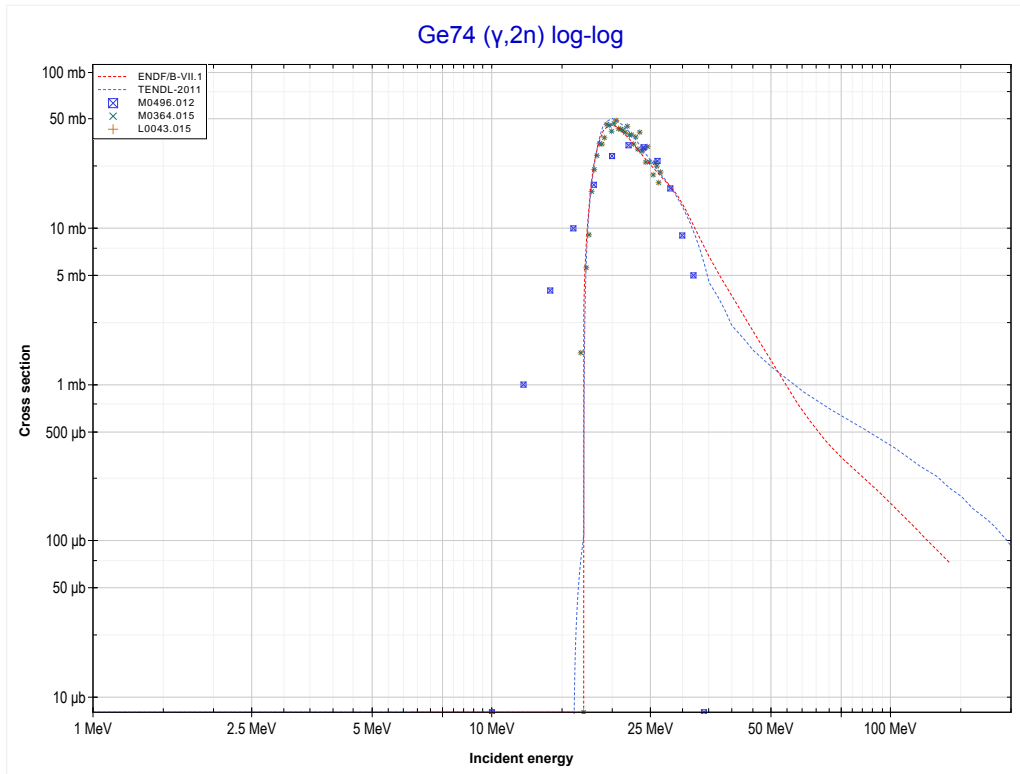
Reaction	Q-Value
Ge73(γ, n)Ge72	-6782.92 keV

<< 32-Ge-73	32-Ge-74	32-Ge-76 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ge73 production)	MT16 ($\gamma,2n$) >>



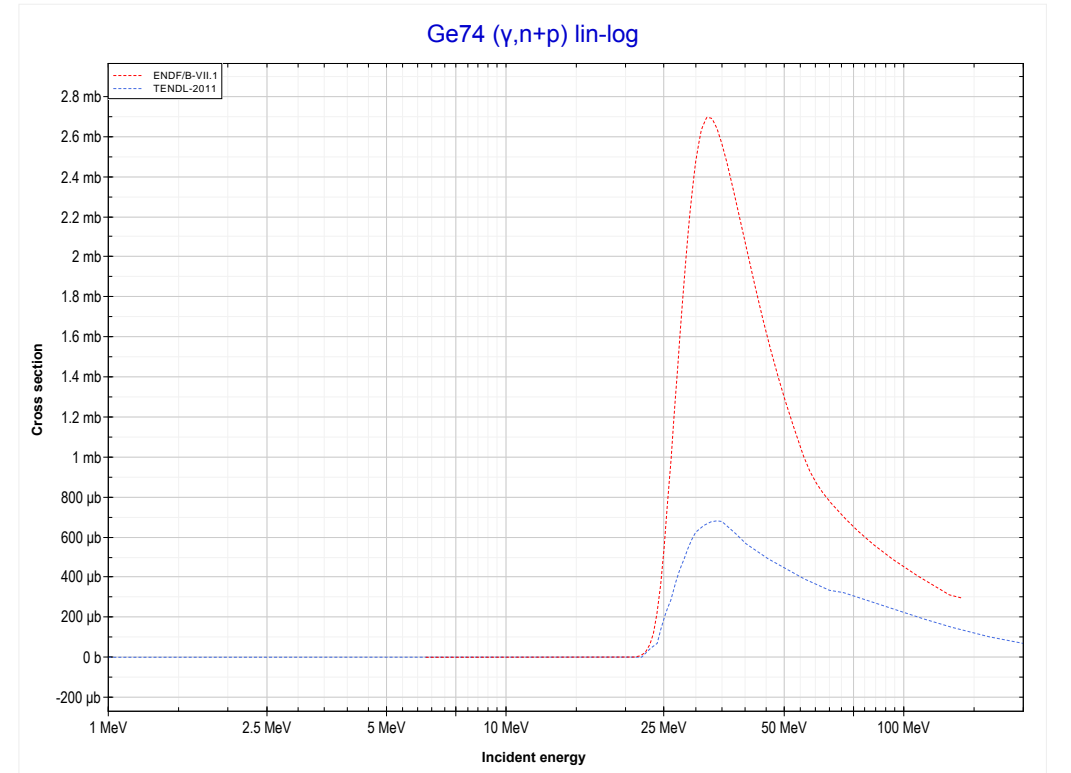
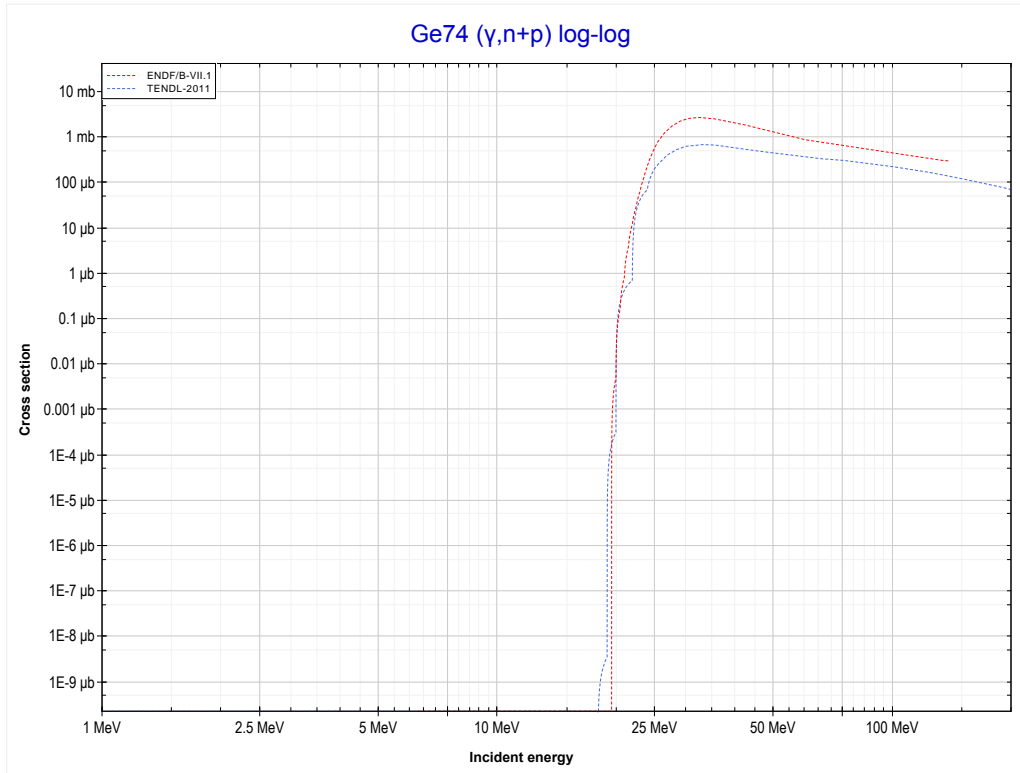
Reaction	Q-Value
Ge74(γ,n)Ge73	-10196.22 keV

<< 32-Ge-72	32-Ge-74	32-Ge-76 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Ge72 production)	MT28 ($\gamma, n+p$) >>



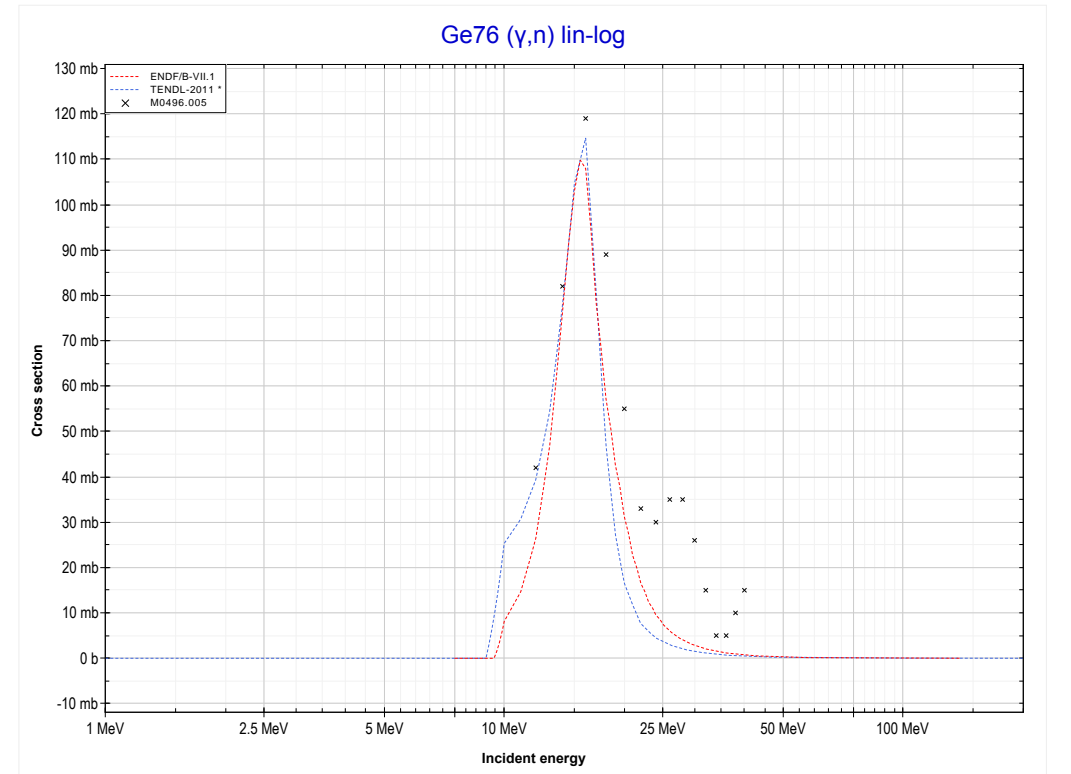
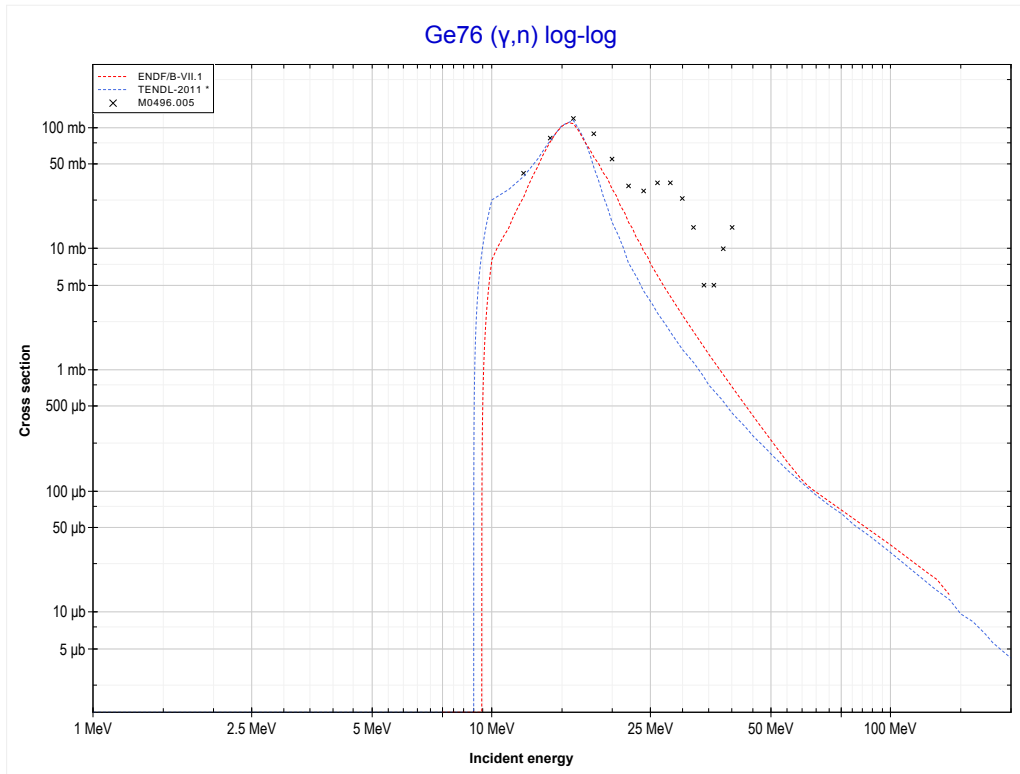
Reaction	Q-Value
Ge74($\gamma, 2n$)Ge72	-16979.13 keV

<< 32-Ge-72	32-Ge-74	32-Ge-76 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ga72 production)	MT4 (γ,n) >>



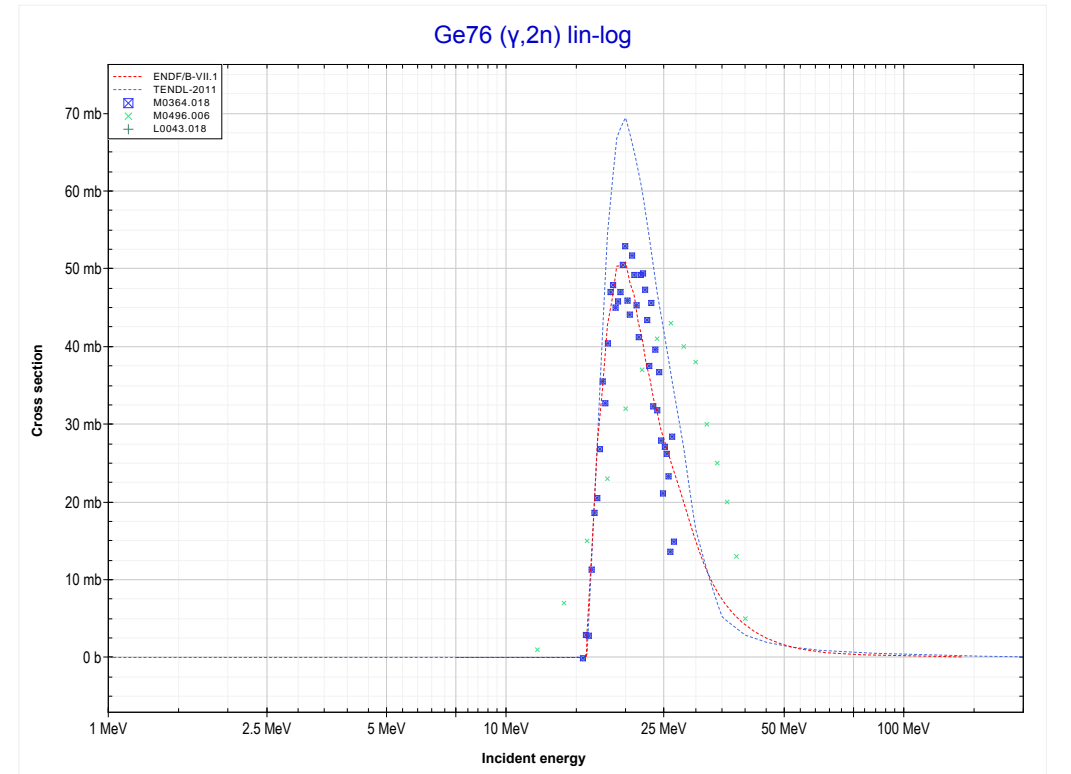
Reaction	Q-Value
Ge74(γ,d)Ga72	-17968.72 keV
Ge74($\gamma,n+p$)Ga72	-20193.29 keV

<< 32-Ge-74	32-Ge-76	33-As-75 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Ge75 production)	MT16 ($\gamma, 2n$) >>



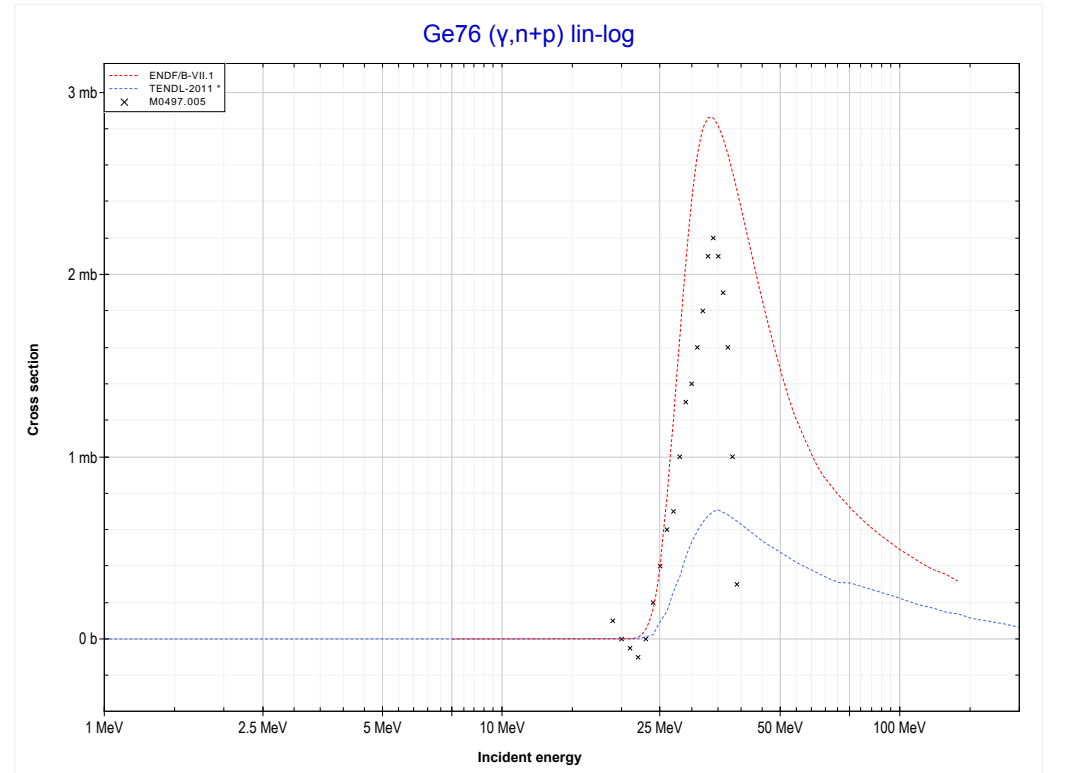
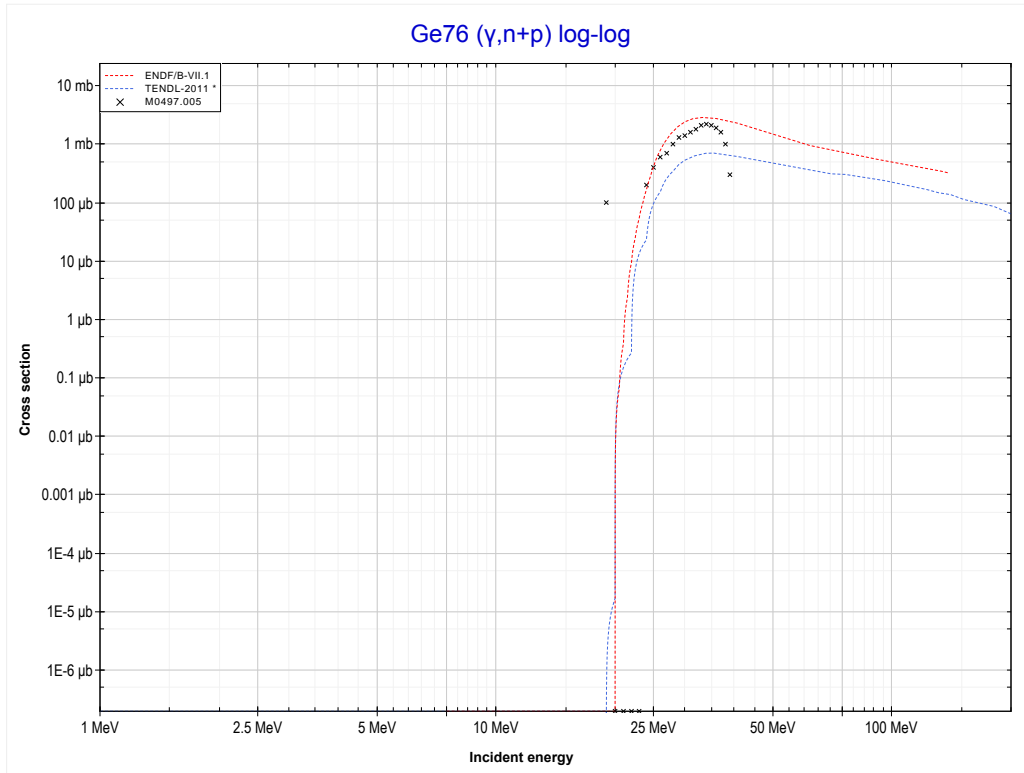
Reaction	Q-Value
Ge76(γ, n)Ge75	-9427.92 keV

<< 32-Ge-74	32-Ge-76	33-As-75 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ge74 production)	MT28 ($\gamma,n+p$) >>



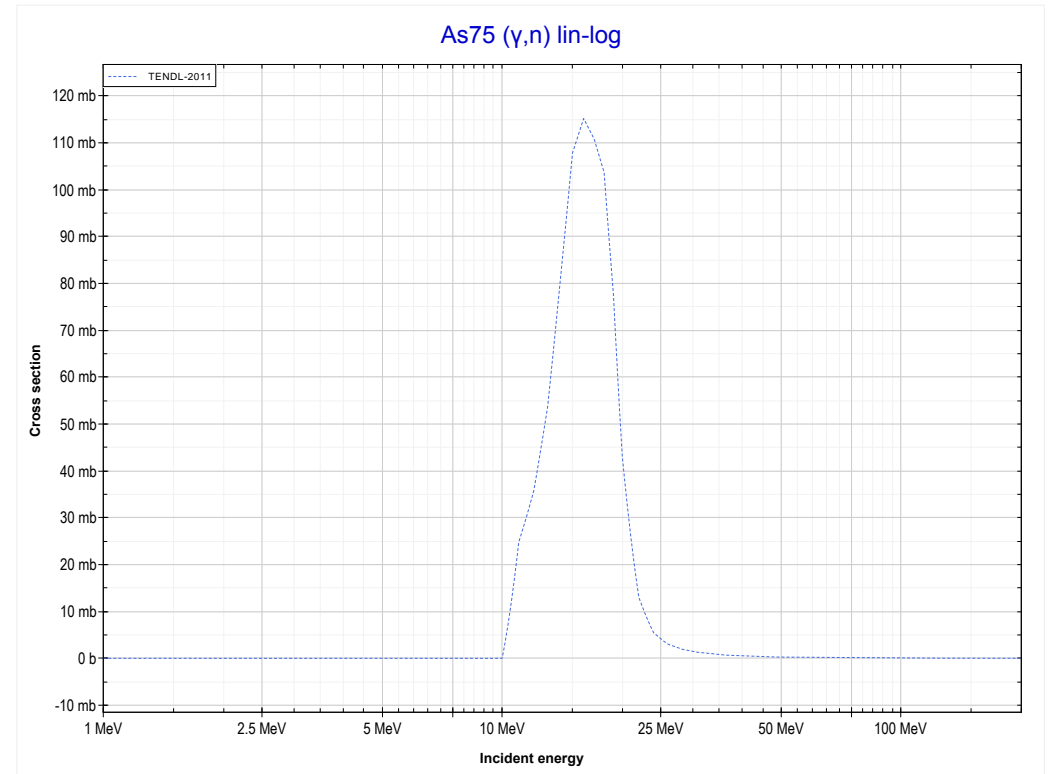
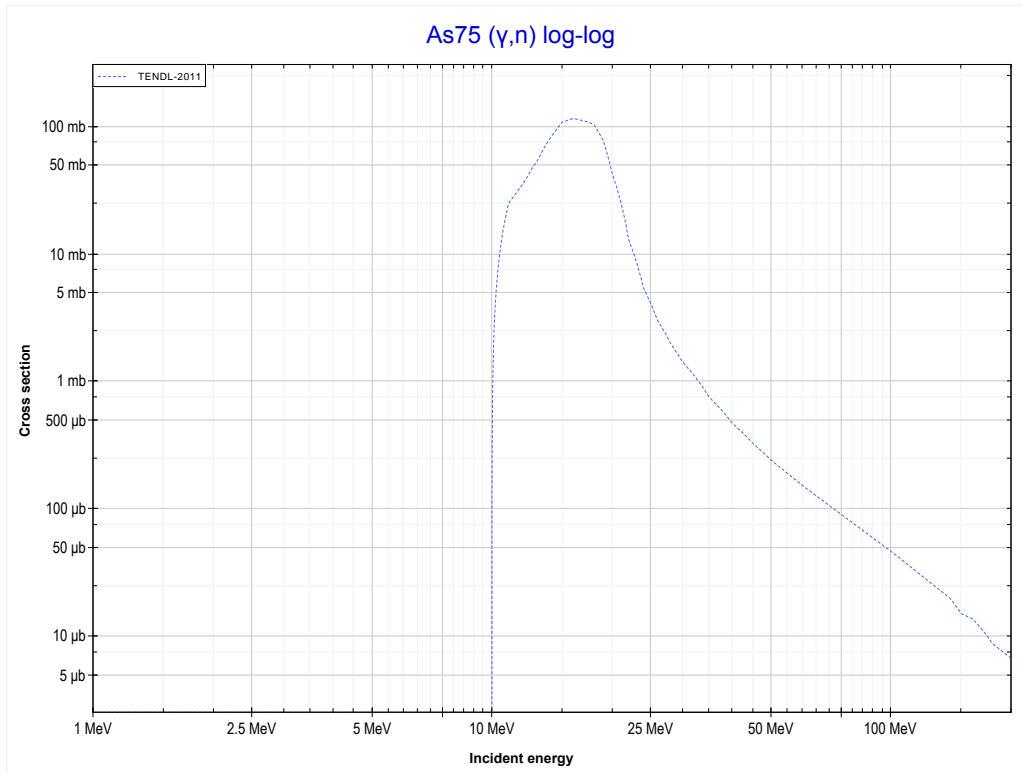
Reaction	Q-Value
Ge76($\gamma,2n$)Ge74	-15933.23 keV

<< 32-Ge-74	32-Ge-76	33-As-75 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ga74 production)	MT4 (γ,n) >>



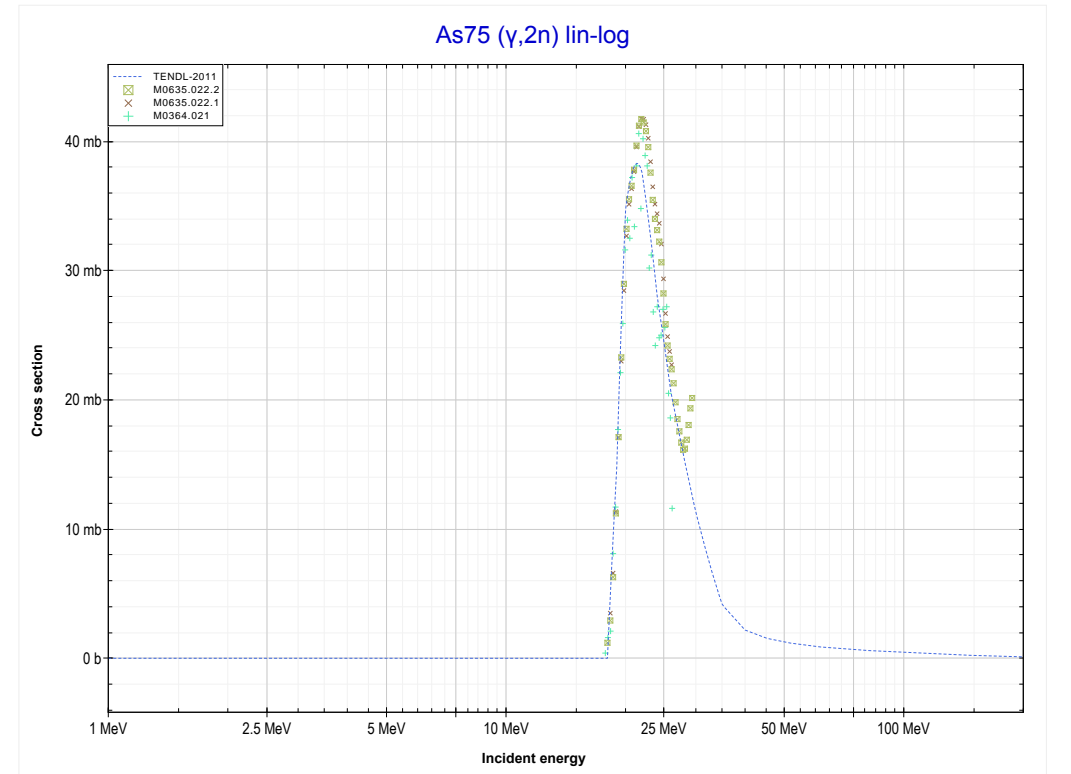
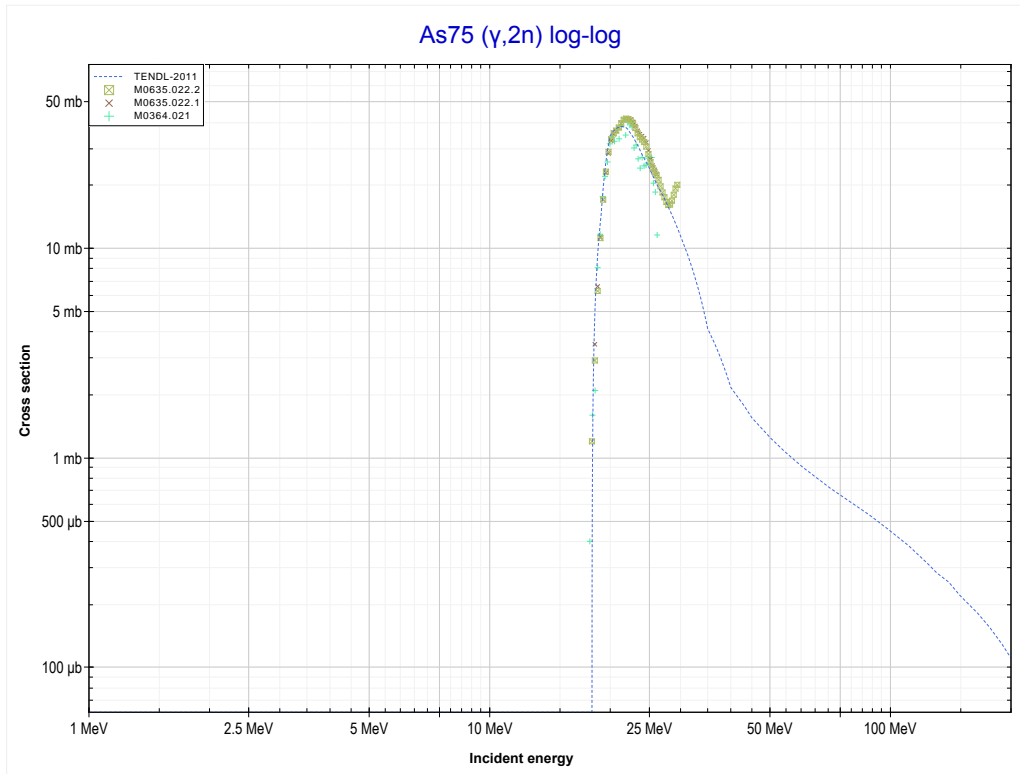
Reaction	Q-Value
Ge76(γ,d)Ga74	-18298.72 keV
Ge76($\gamma,n+p$)Ga74	-20523.29 keV

<< 32-Ge-76	33-As-75	34-Se-74 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (As74 production)	MT16 ($\gamma, 2n$) >>



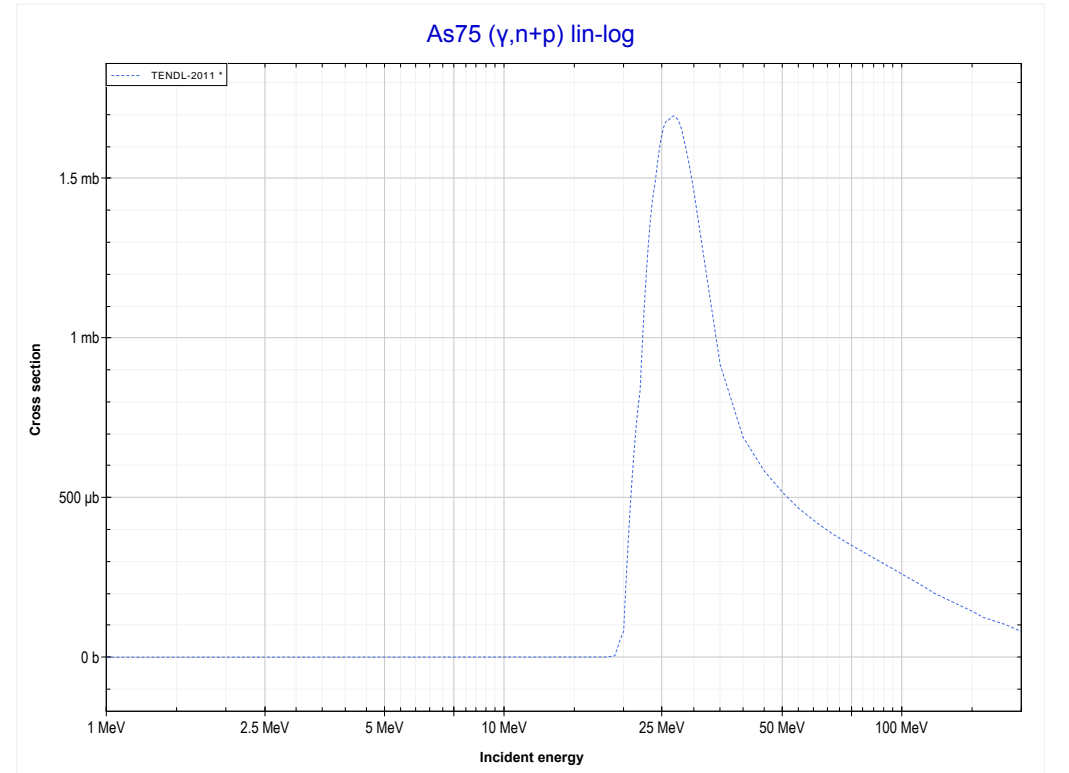
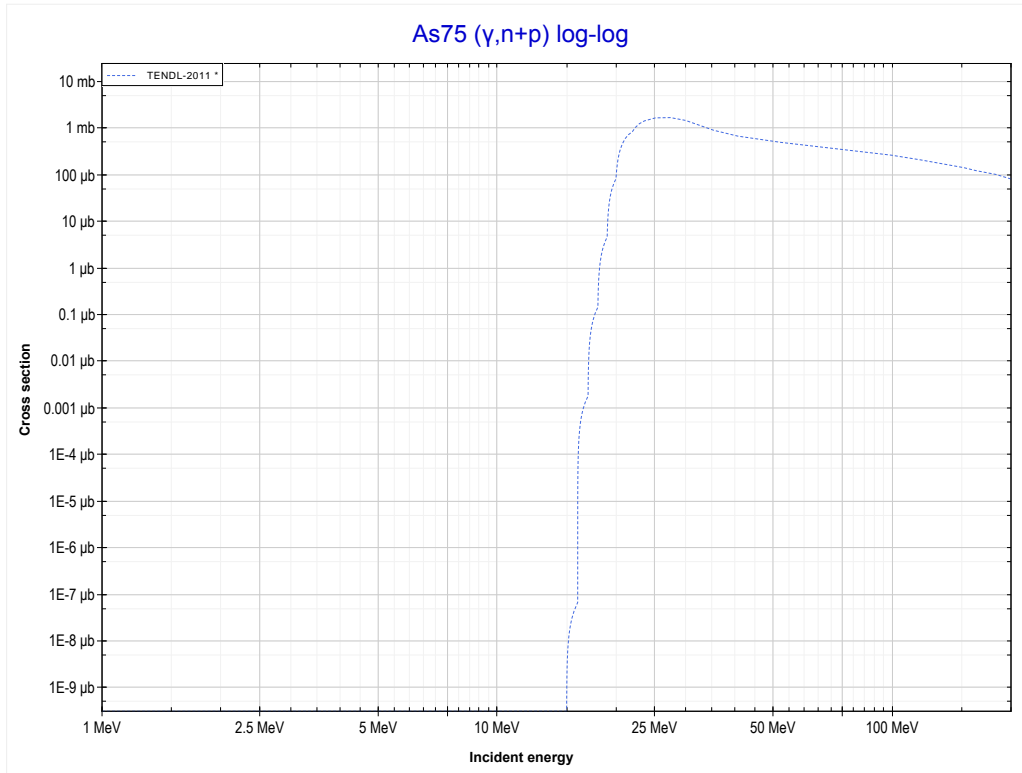
Reaction	Q-Value
As75(γ, n)As74	-10243.72 keV

<< 32-Ge-76	33-As-75	34-Se-76 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (As73 production)	MT28 ($\gamma,n+p$) >>



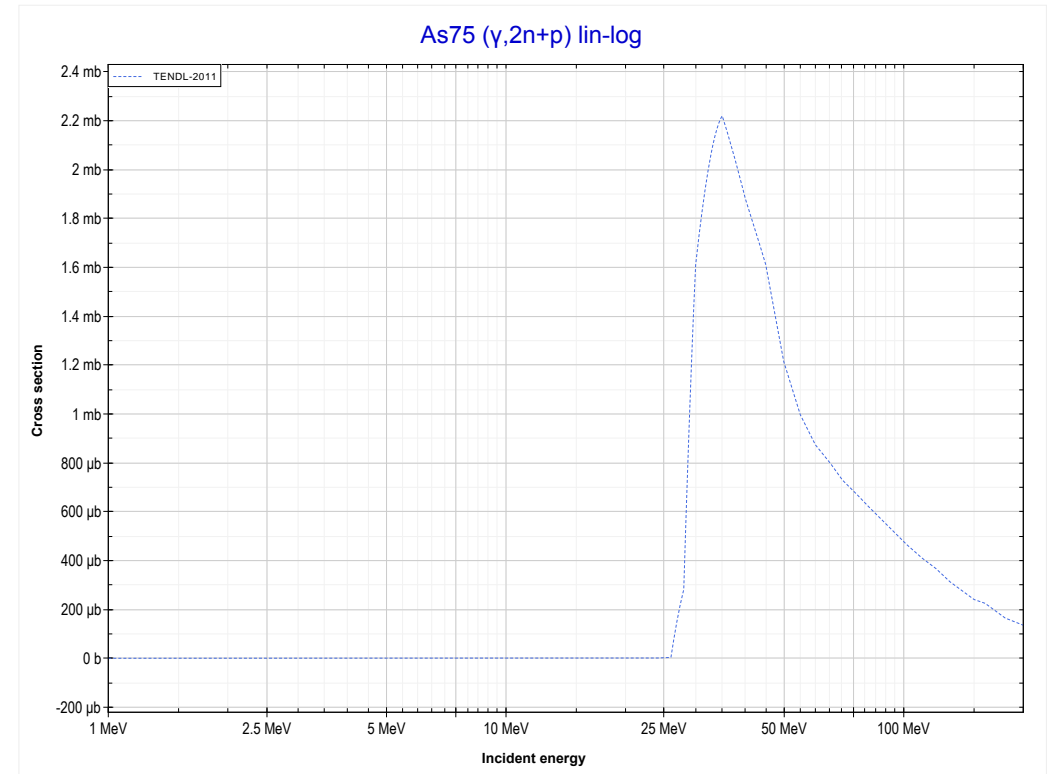
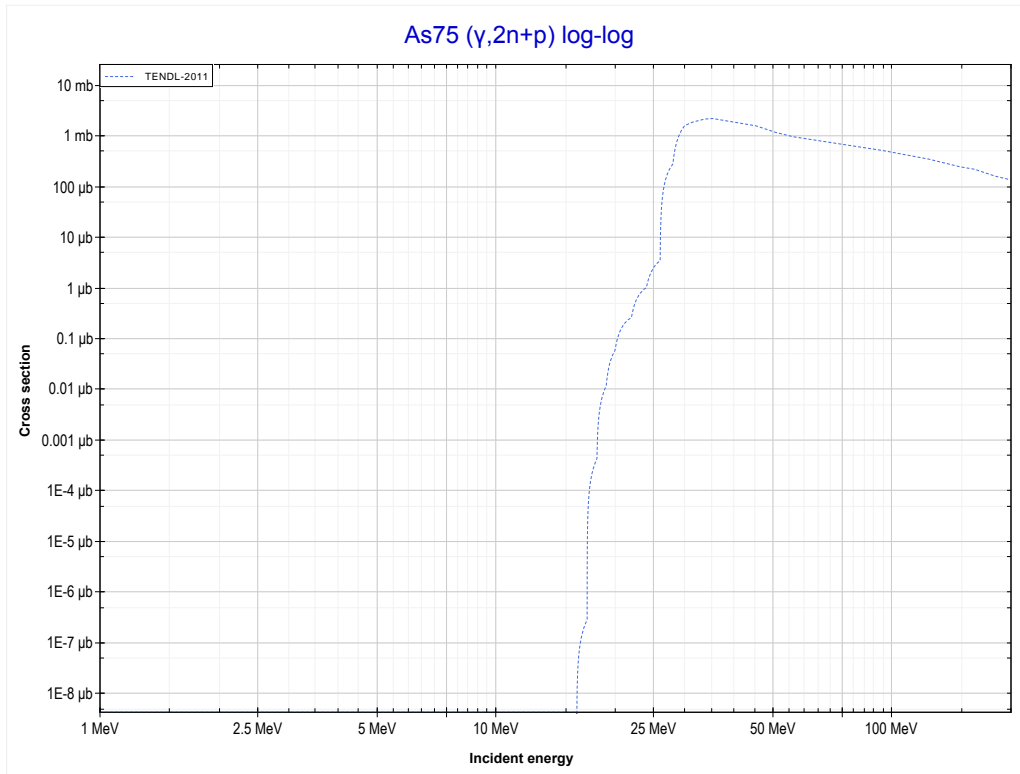
Reaction	Q-Value
As75($\gamma,2n$)As73	-18218.03 keV

<< 32-Ge-76	33-As-75	34-Se-76 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ge73 production)	MT41 ($\gamma,2n+p$) >>



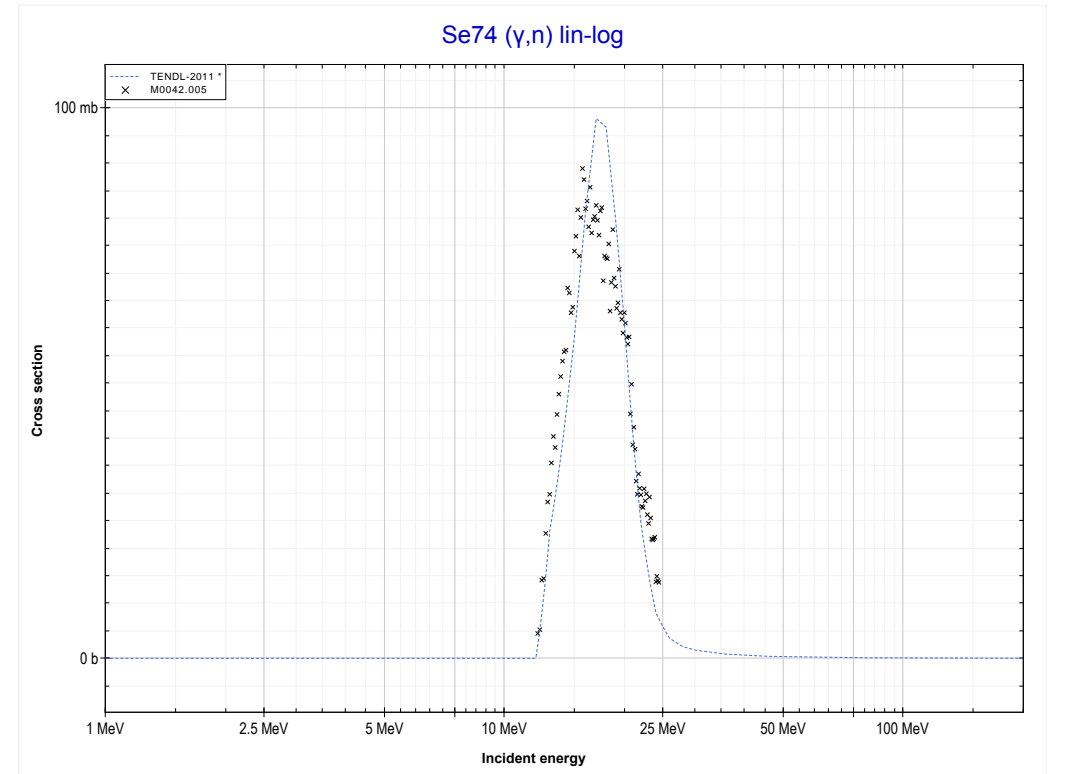
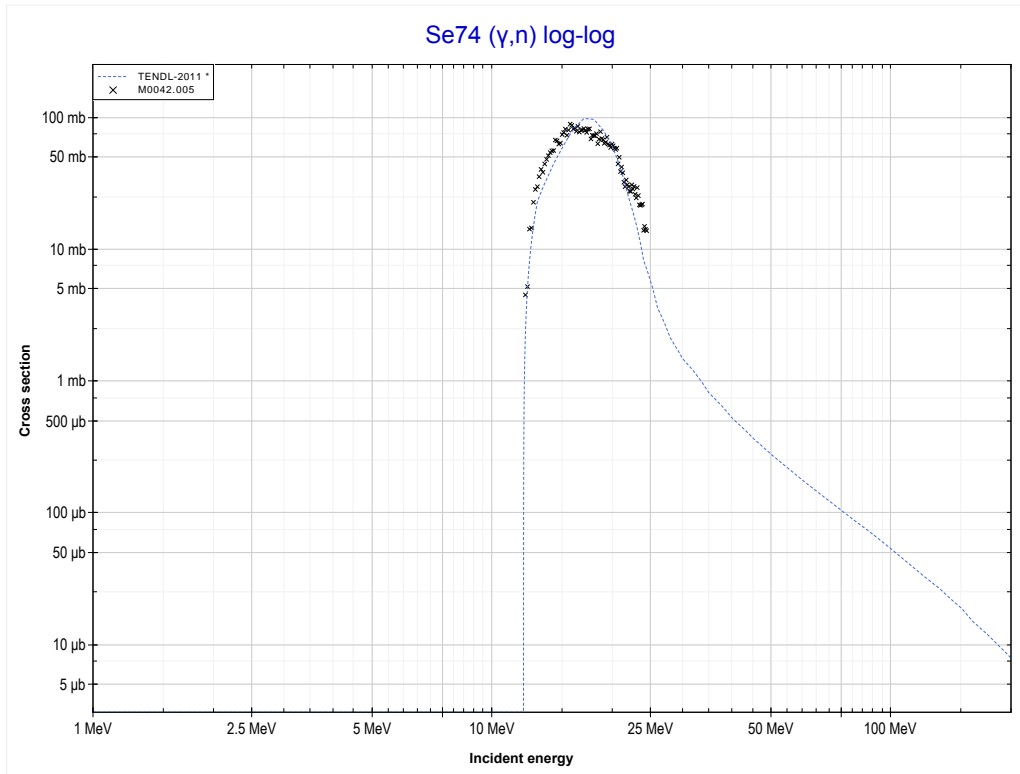
Reaction	Q-Value
As75(γ,d)Ge73	-14870.62 keV
As75($\gamma,n+p$)Ge73	-17095.19 keV

<< 32-Ge-70	33-As-75	39-Y-89 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ge72 production)	MT4 (γ, n) >>



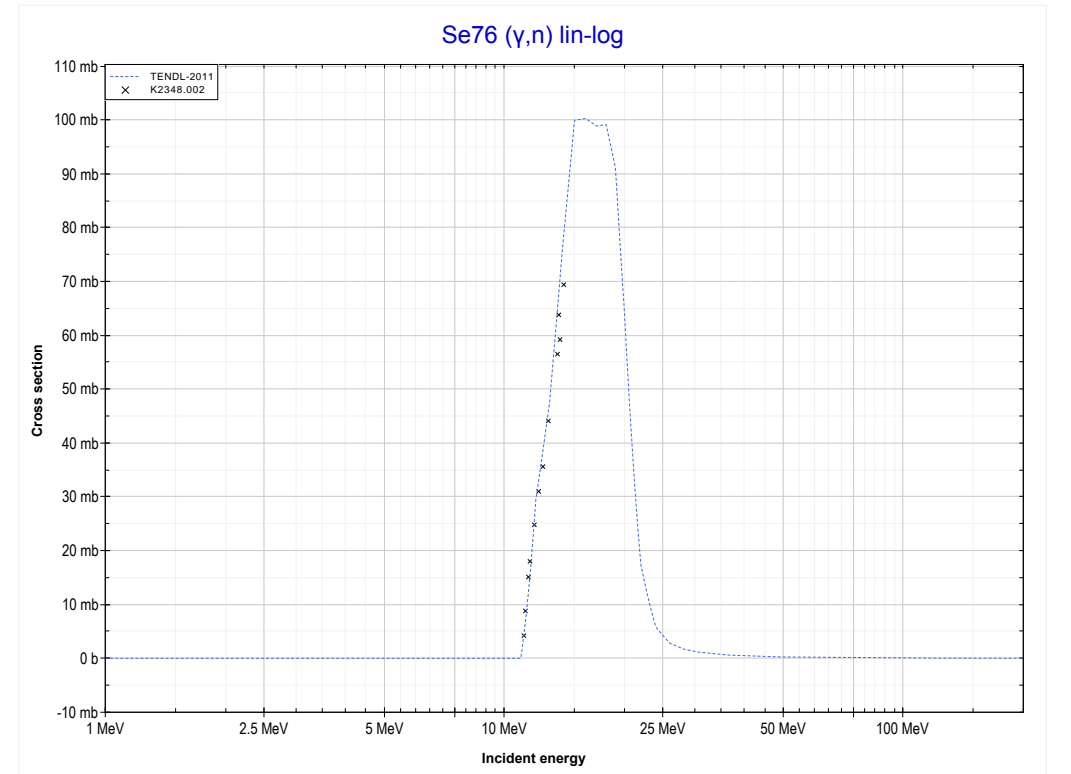
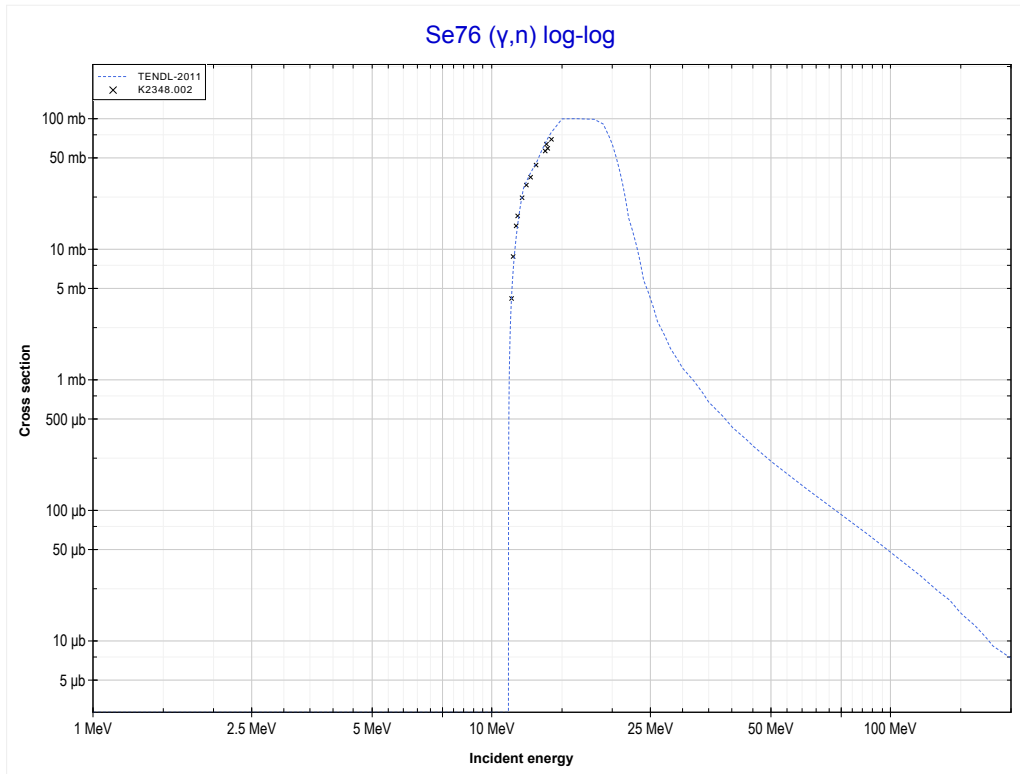
Reaction	Q-Value
As75(γ, t)Ge72	-15396.31 keV
As75($\gamma, n+d$)Ge72	-21653.54 keV
As75($\gamma, 2n+p$)Ge72	-23878.10 keV

<< 33-As-75	34-Se-74	34-Se-76 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Se73 production)	MT4 (γ, n) >>



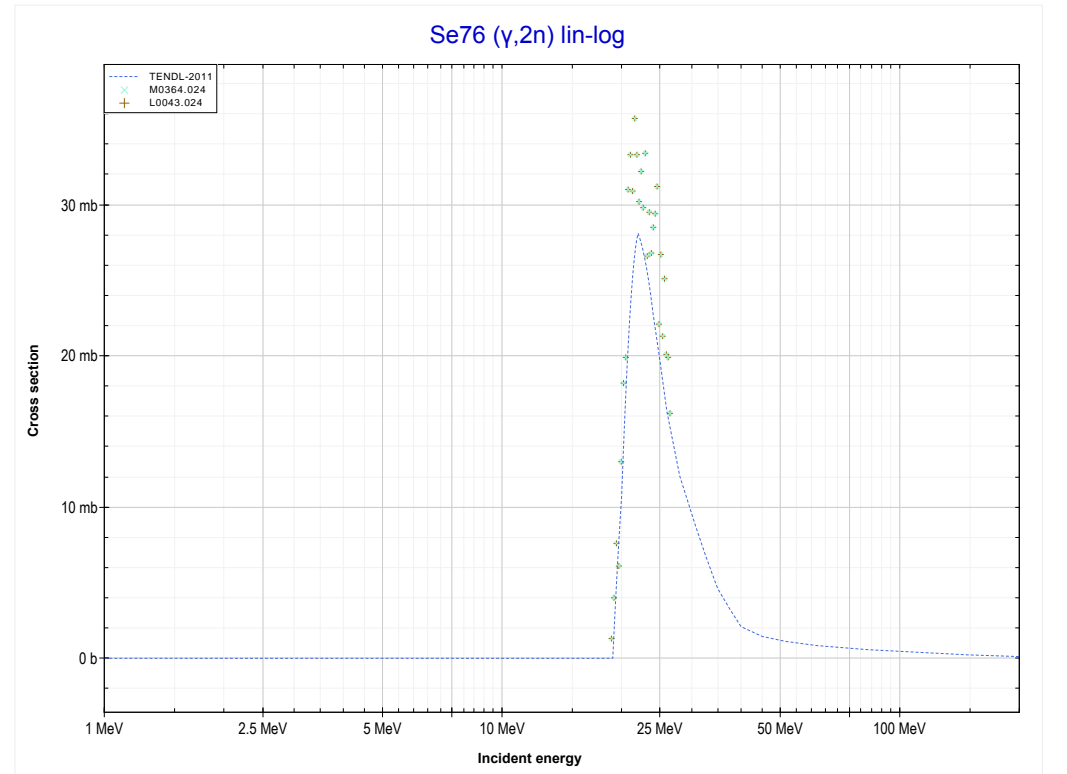
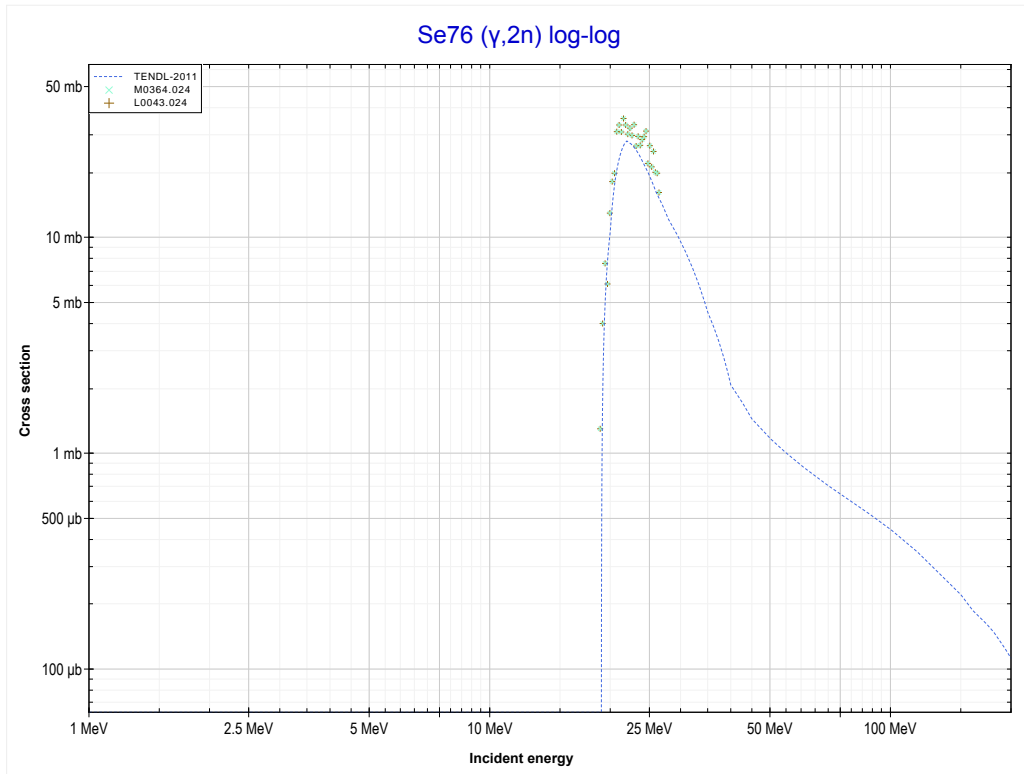
Reaction	Q-Value
Se74(γ, n)Se73	-12066.02 keV

<< 34-Se-74	34-Se-76	34-Se-77 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Se75 production)	MT16 ($\gamma,2n$) >>



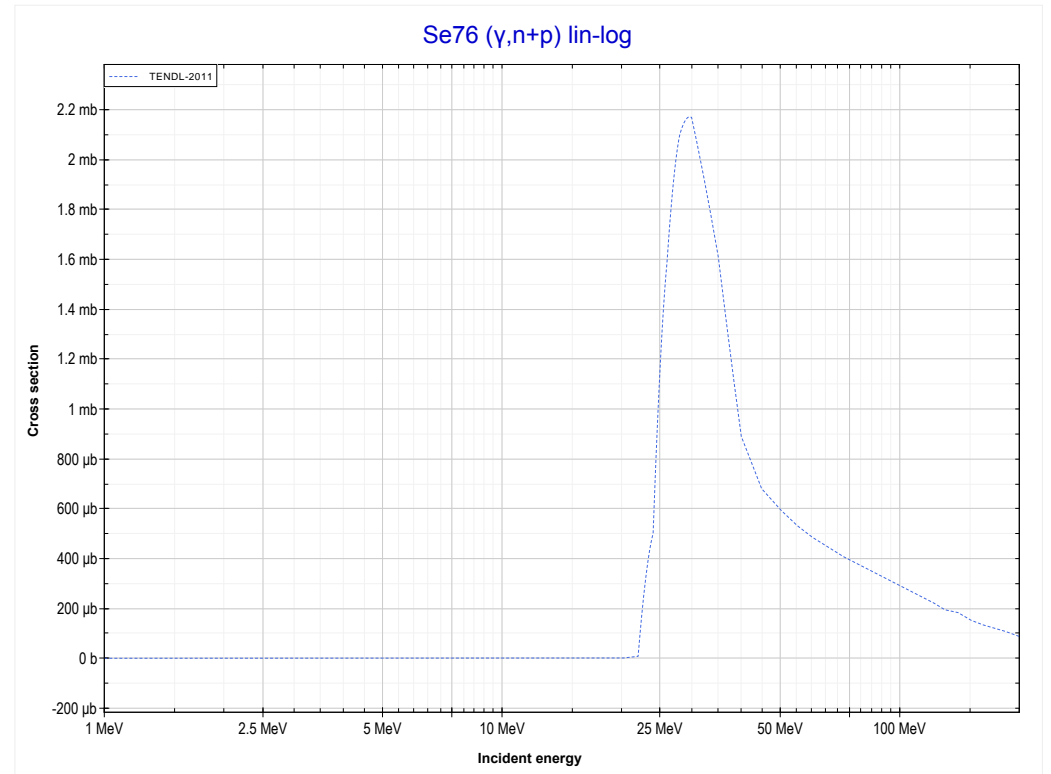
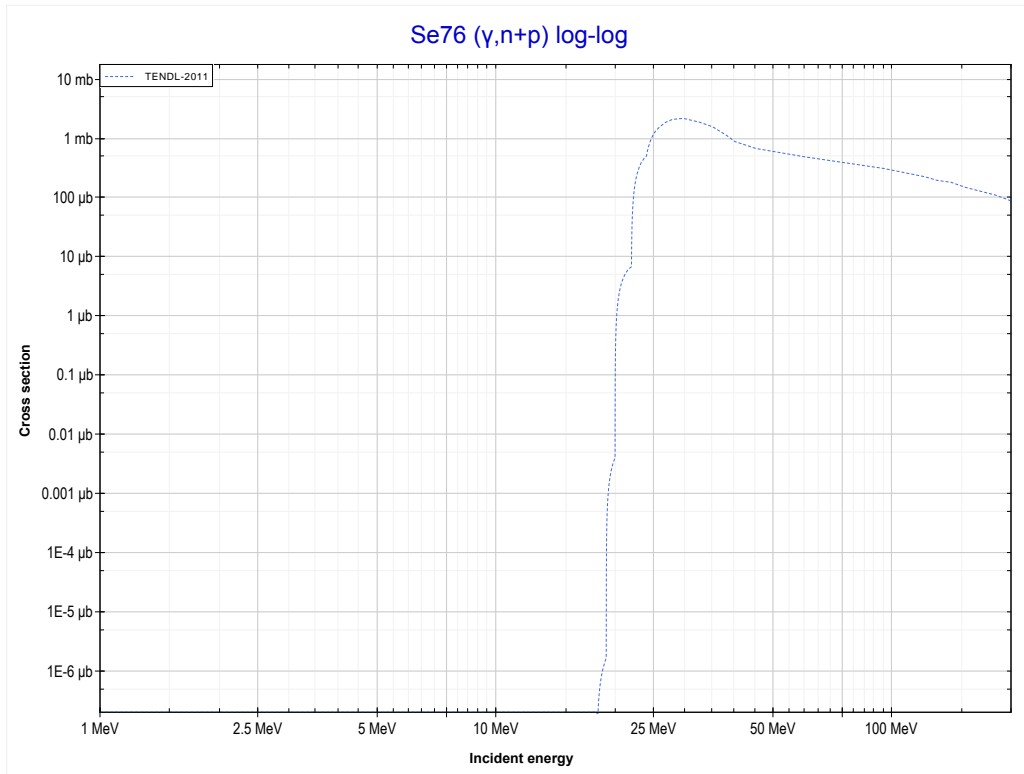
Reaction	Q-Value
Se76(γ,n)Se75	-11154.42 keV

<< 33-As-75	34-Se-76	34-Se-78 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Se74 production)	MT28 ($\gamma,n+p$) >>



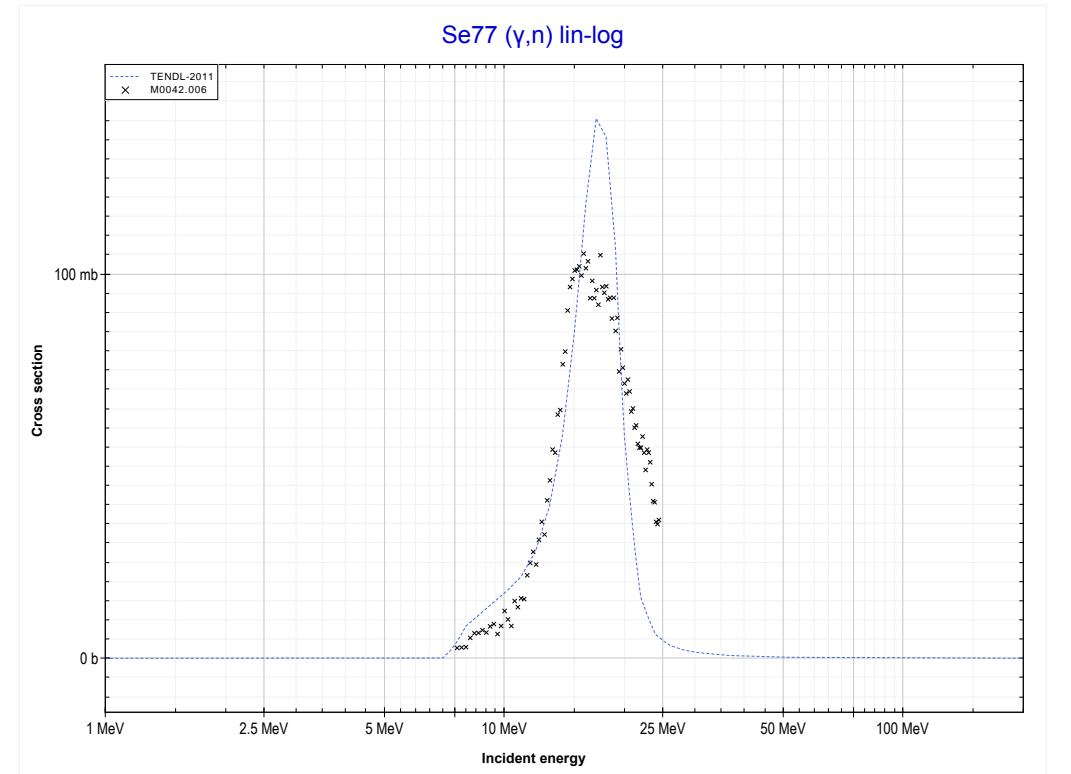
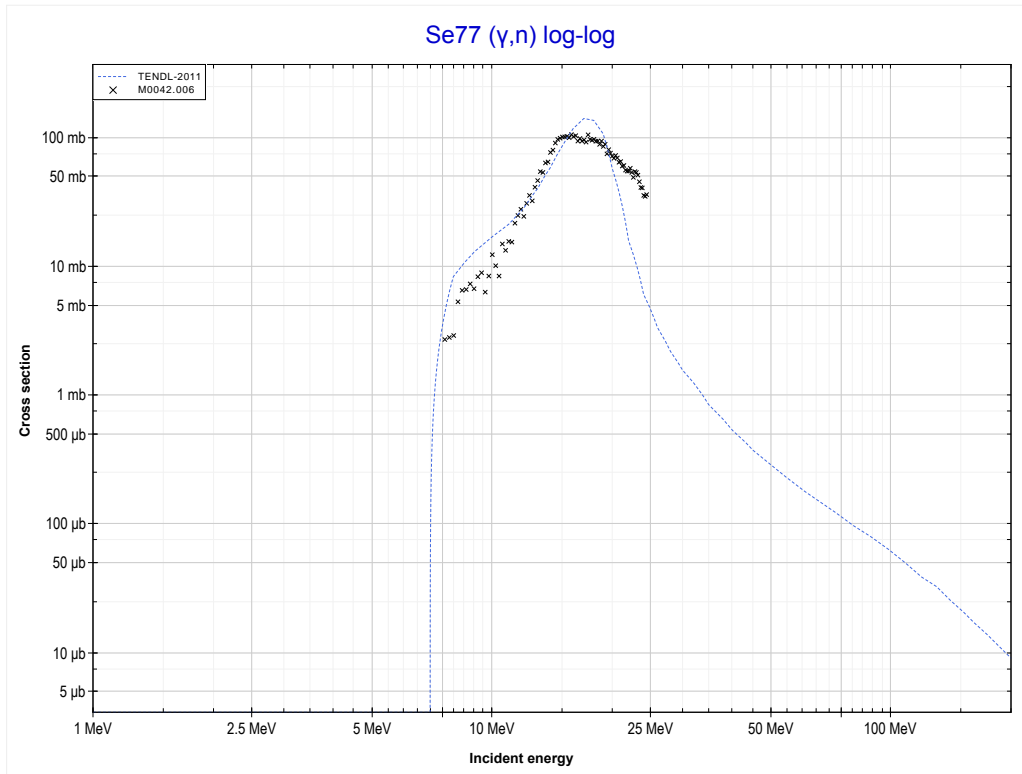
Reaction	Q-Value
Se76($\gamma,2n$)Se74	-19182.03 keV

<< 33-As-75	34-Se-76	34-Se-78 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (As74 production)	MT4 (γ,n) >>



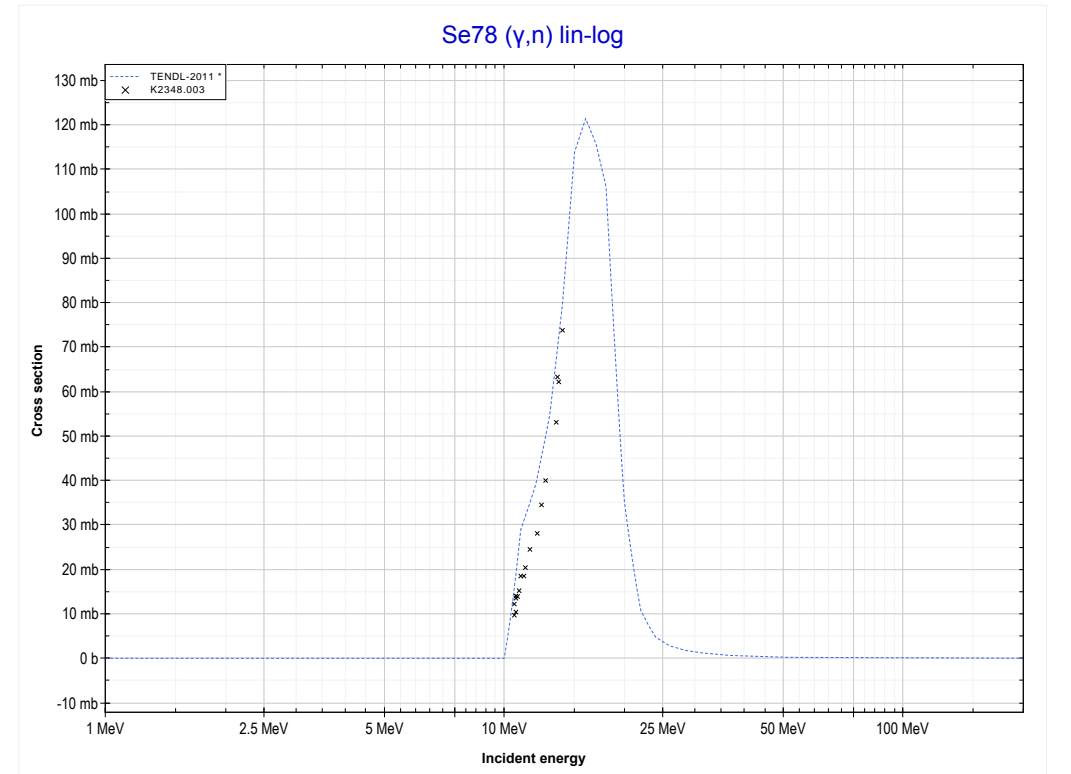
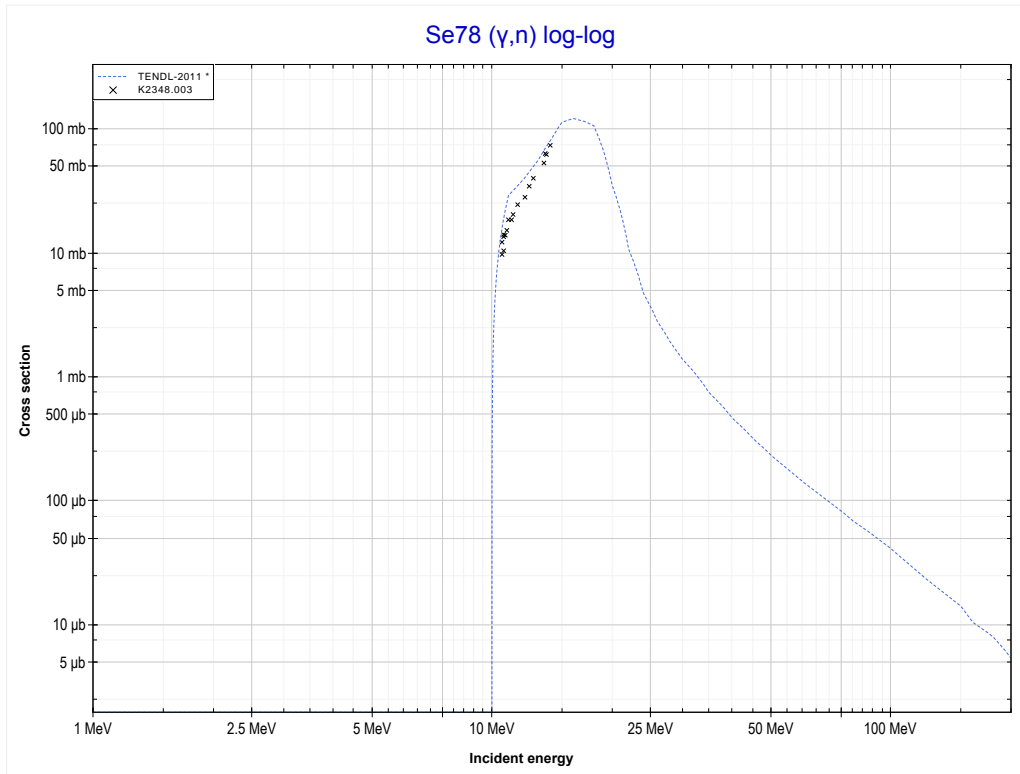
Reaction	Q-Value
Se76(γ,d)As74	-17527.82 keV
Se76($\gamma,n+p$)As74	-19752.39 keV

<< 34-Se-76	34-Se-77	34-Se-78 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Se76 production)	MT4 (γ, n) >>



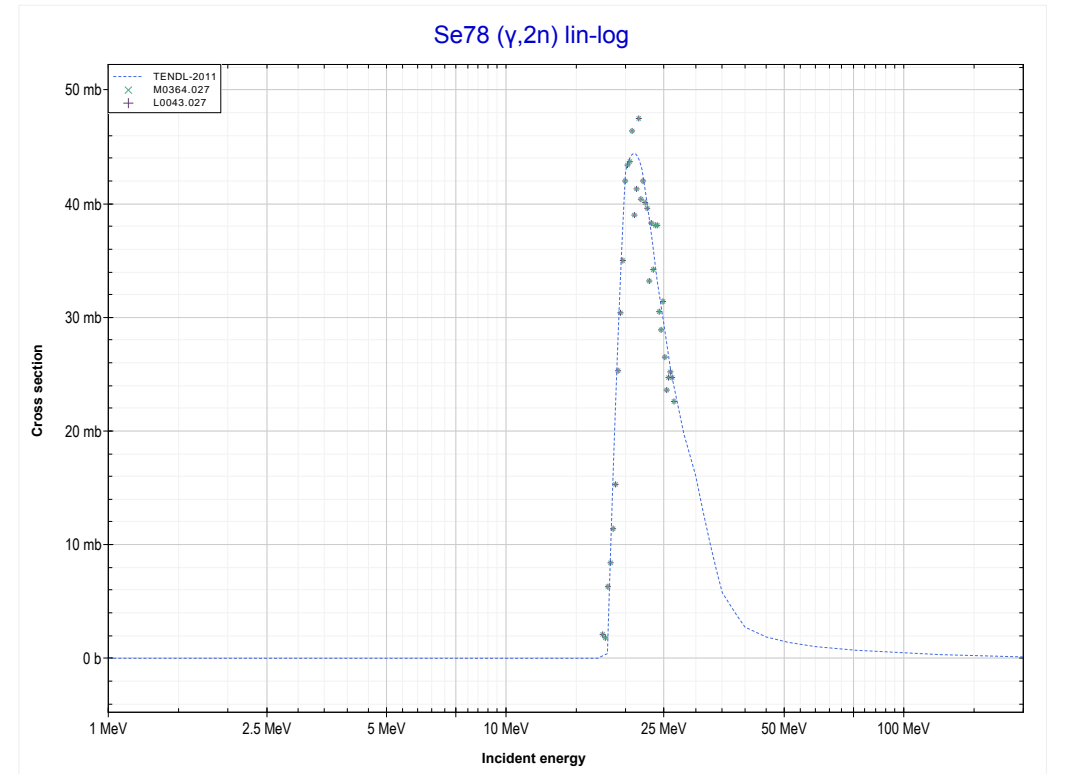
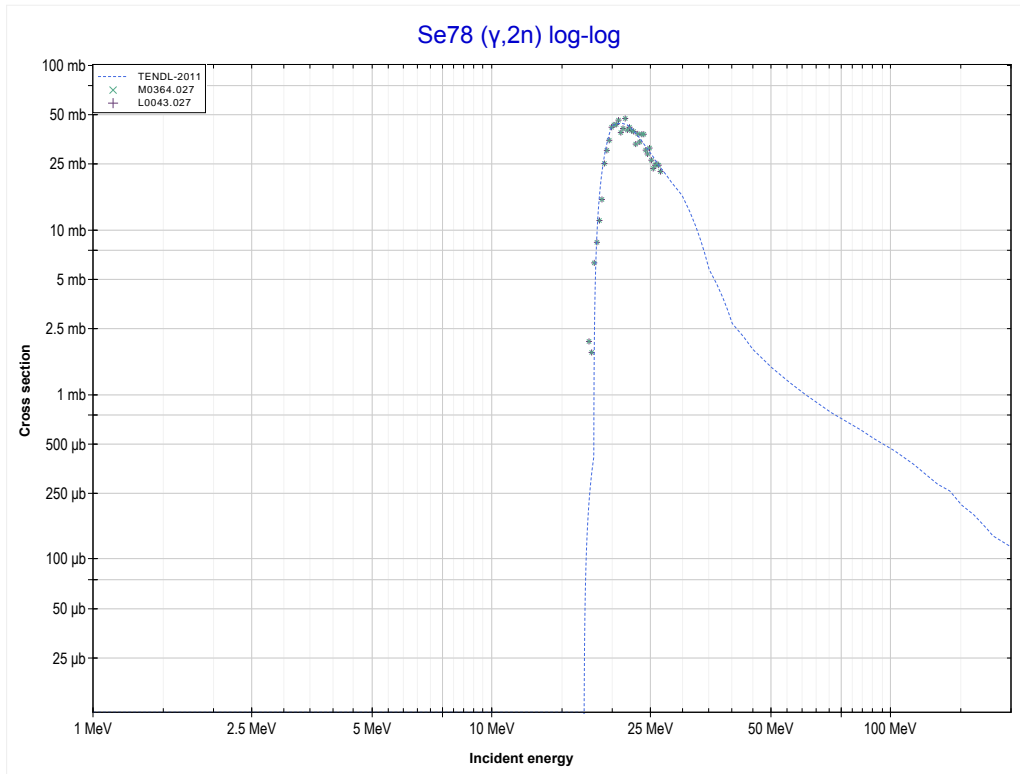
Reaction	Q-Value
Se77(γ, n)Se76	-7418.82 keV

<< 34-Se-77	34-Se-78	34-Se-80 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Se77 production)	MT16 ($\gamma,2n$) >>



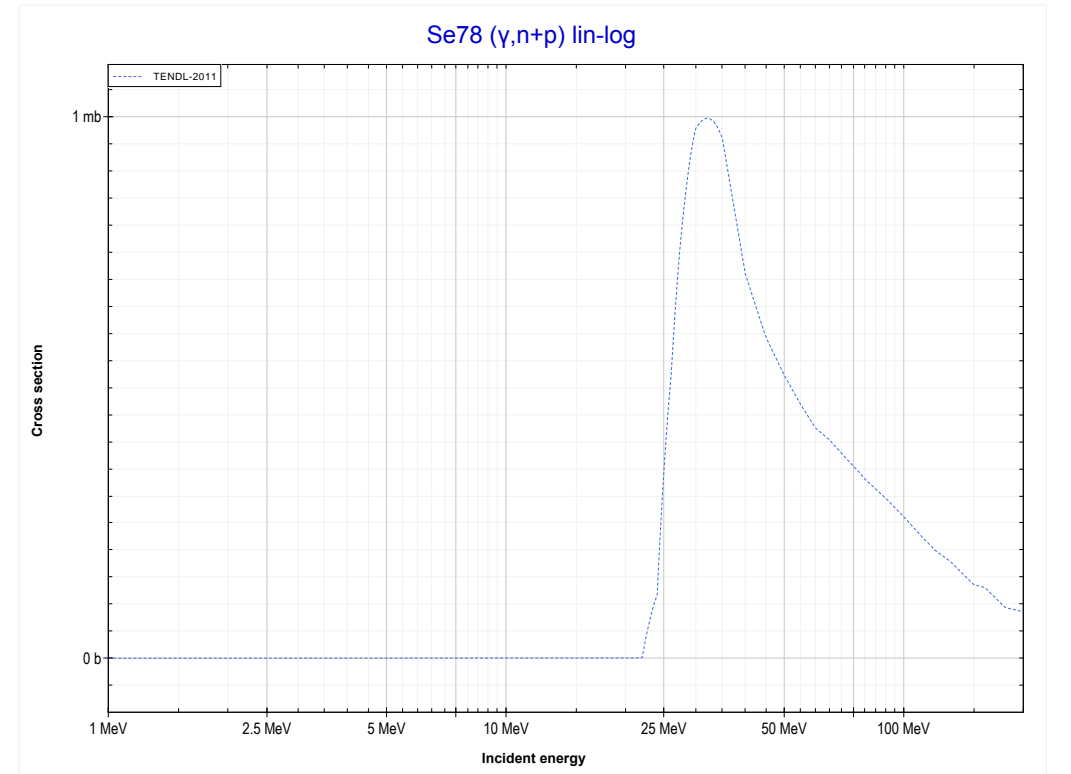
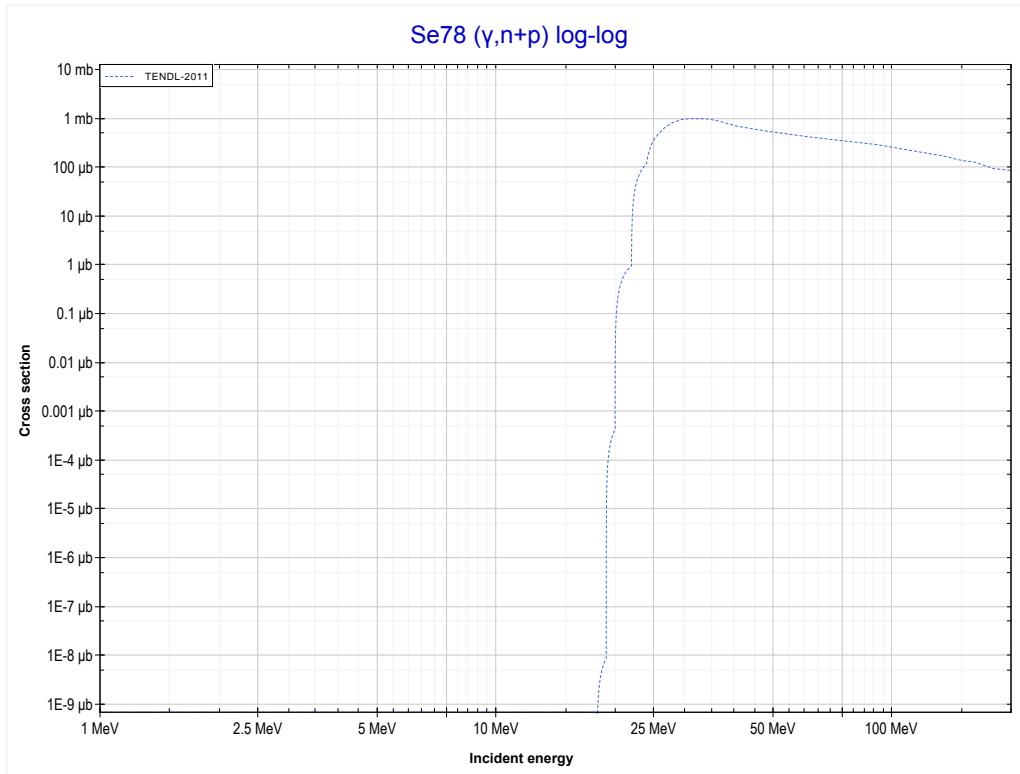
Reaction	Q-Value
Se78(γ,n)Se77	-10497.82 keV

<< 34-Se-76	34-Se-78	34-Se-80 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Se76 production)	MT28 ($\gamma,n+p$) >>



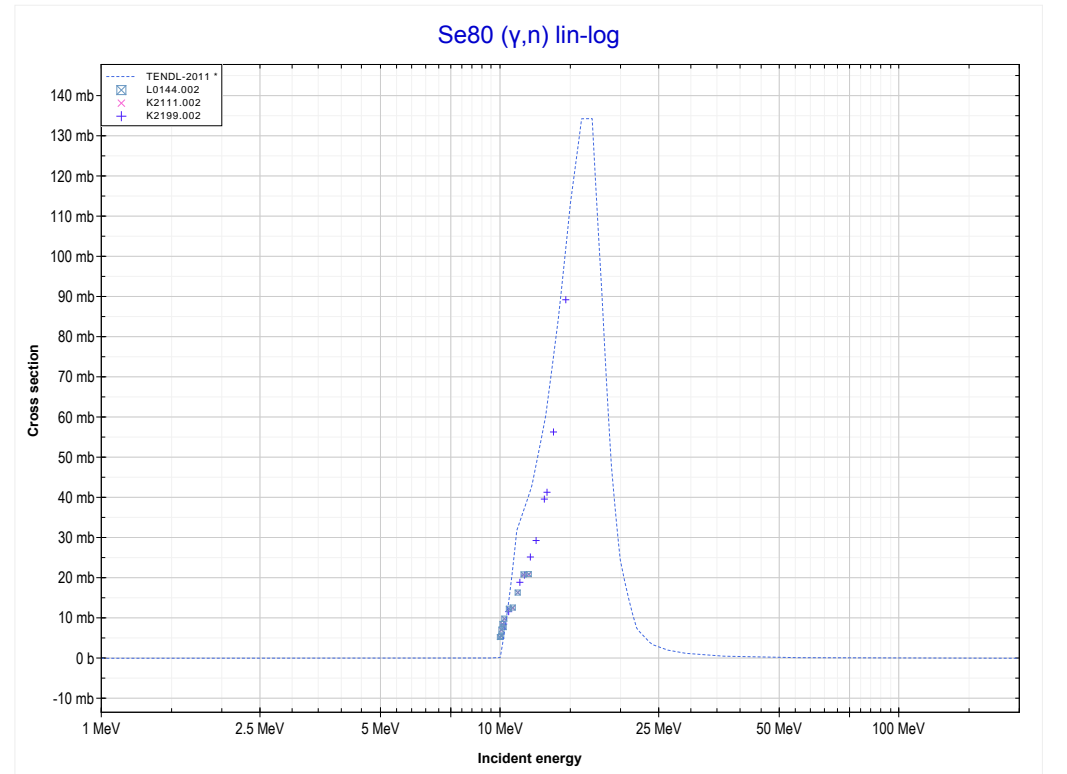
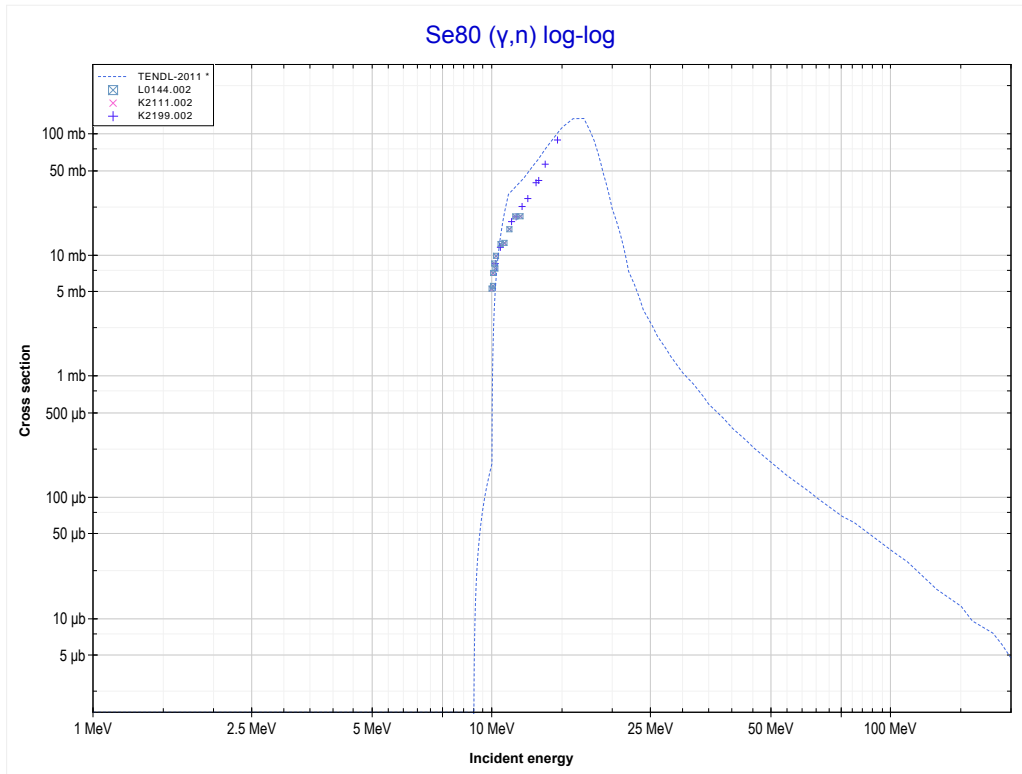
Reaction	Q-Value
Se78($\gamma,2n$)Se76	-17916.63 keV

<< 34-Se-76	34-Se-78	34-Se-80 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (As76 production)	MT4 (γ,n) >>



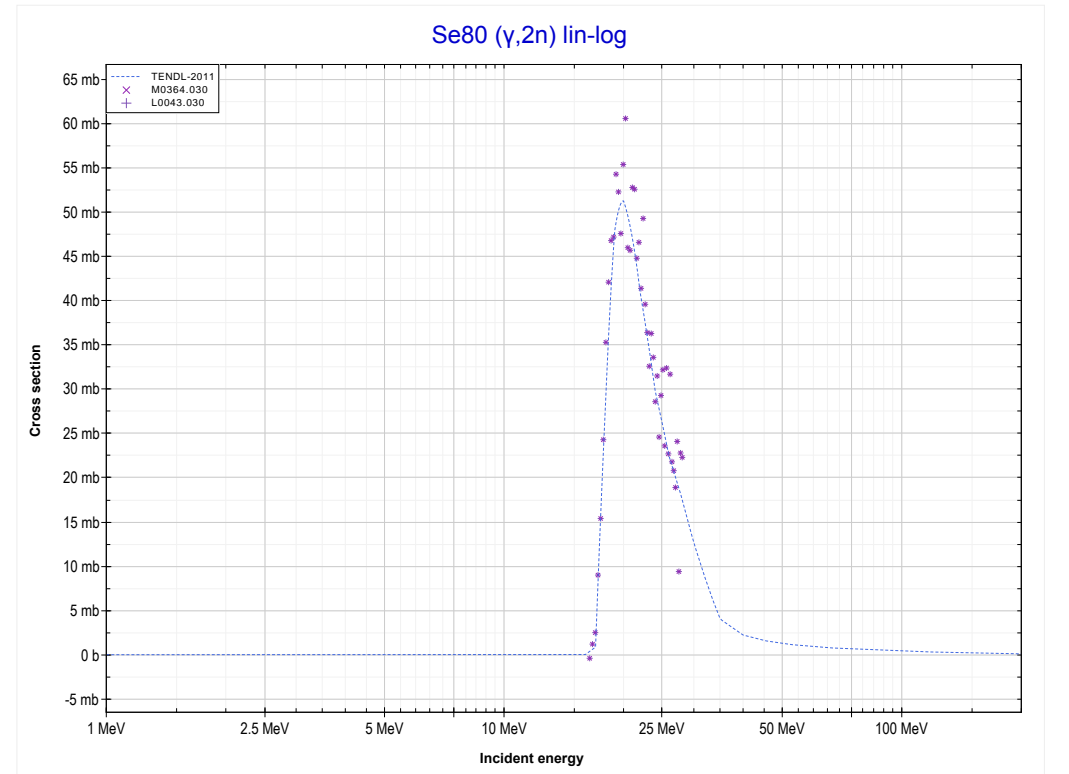
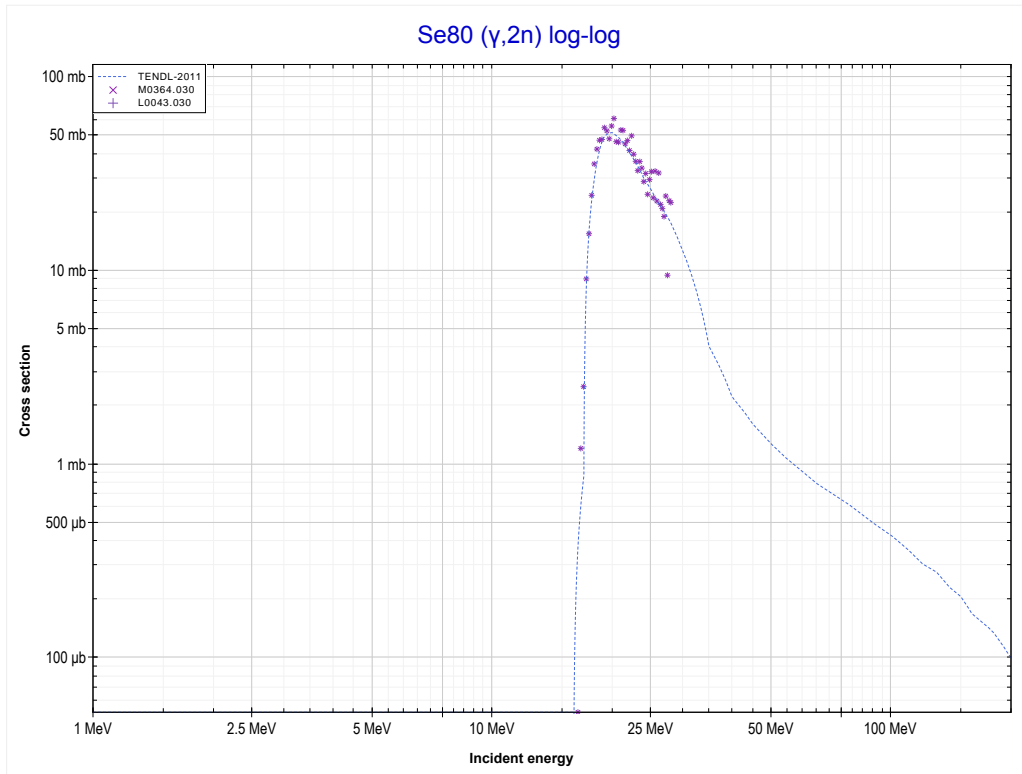
Reaction	Q-Value
Se78(γ,d)As76	-17872.32 keV
Se78($\gamma,n+p$)As76	-20096.89 keV

<< 34-Se-78	34-Se-80	34-Se-82 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Se79 production)	MT16 ($\gamma, 2n$) >>



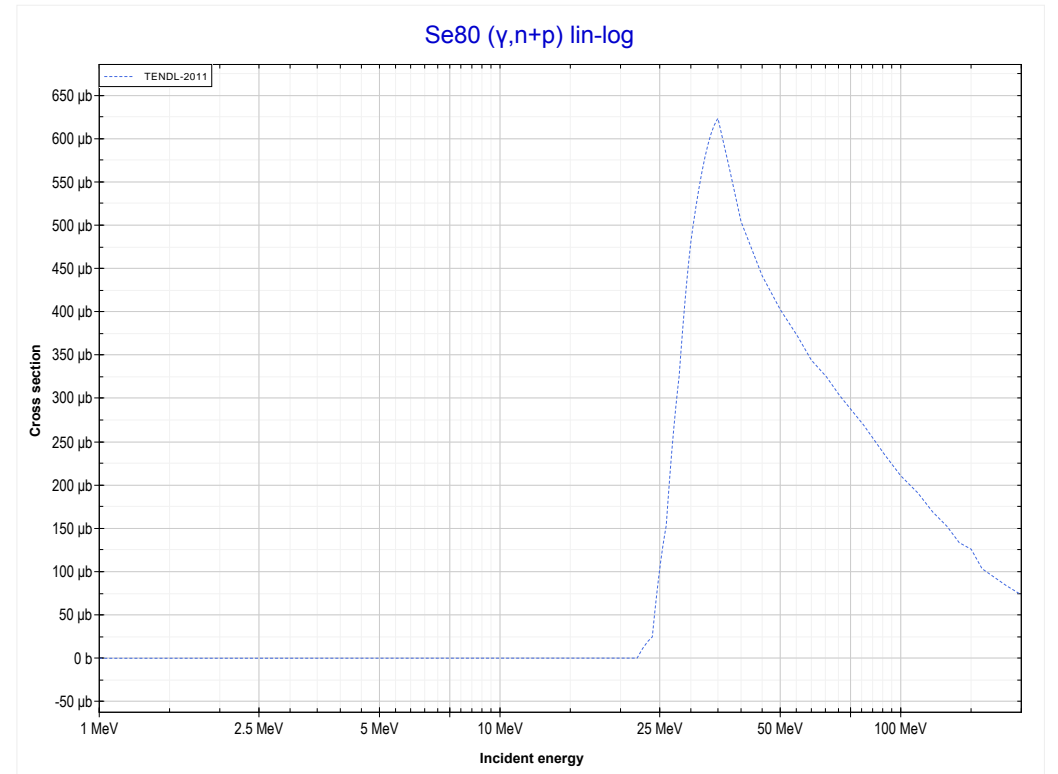
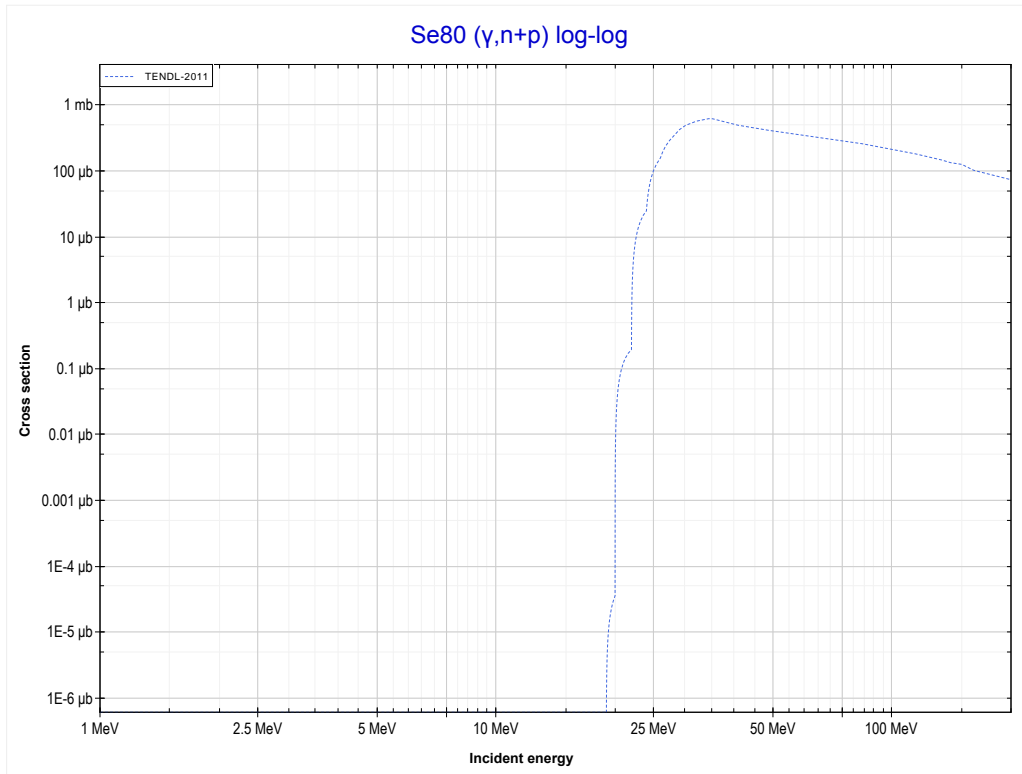
Reaction	Q-Value
Se80(γ, n)Se79	-9913.62 keV

<< 34-Se-78	34-Se-80	34-Se-82 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Se78 production)	MT28 ($\gamma,n+p$) >>



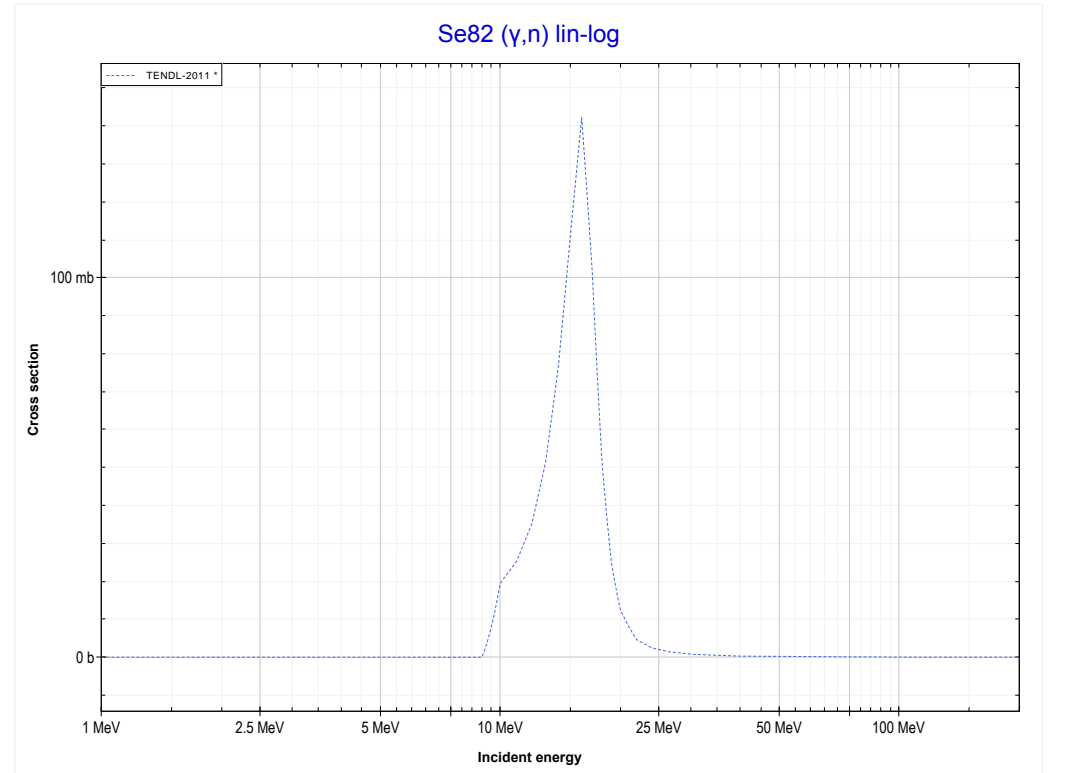
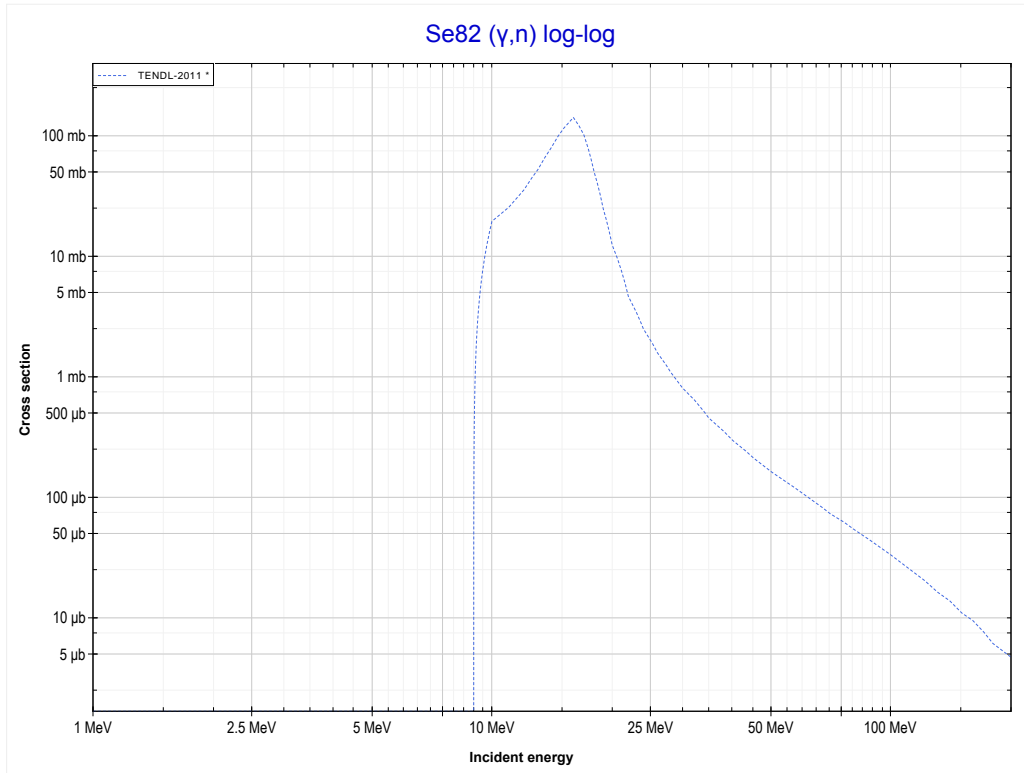
Reaction	Q-Value
Se80($\gamma,2n$)Se78	-16876.43 keV

<< 34-Se-78	34-Se-80	34-Se-82 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (As78 production)	MT4 (γ,n) >>



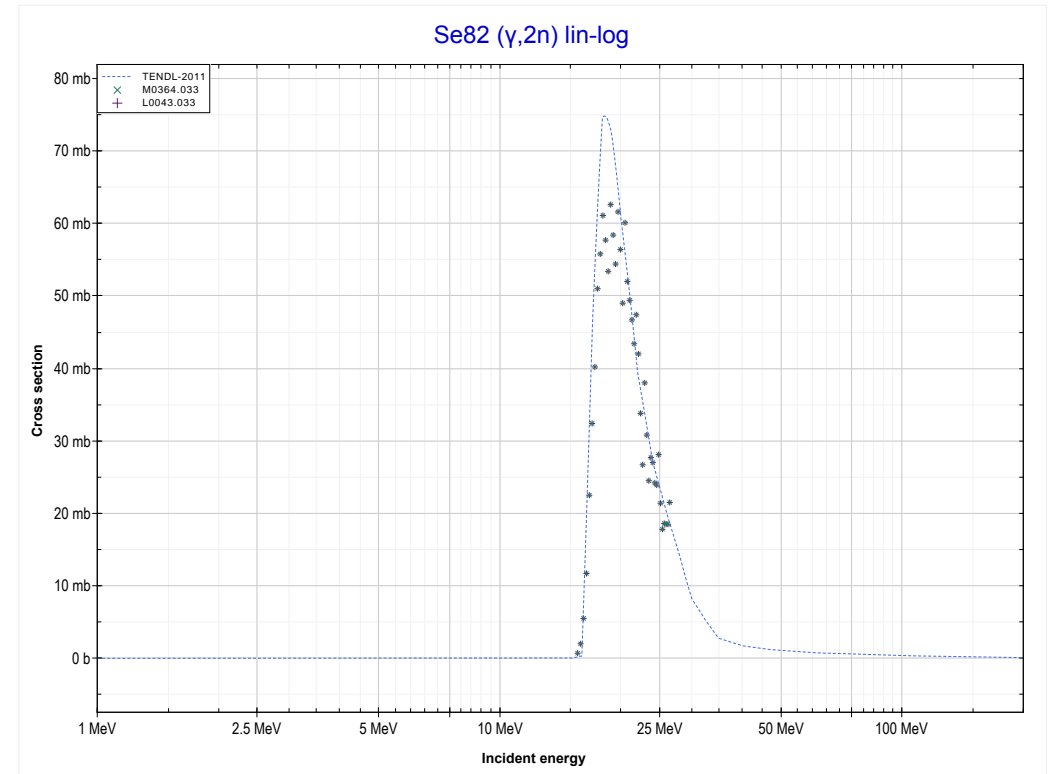
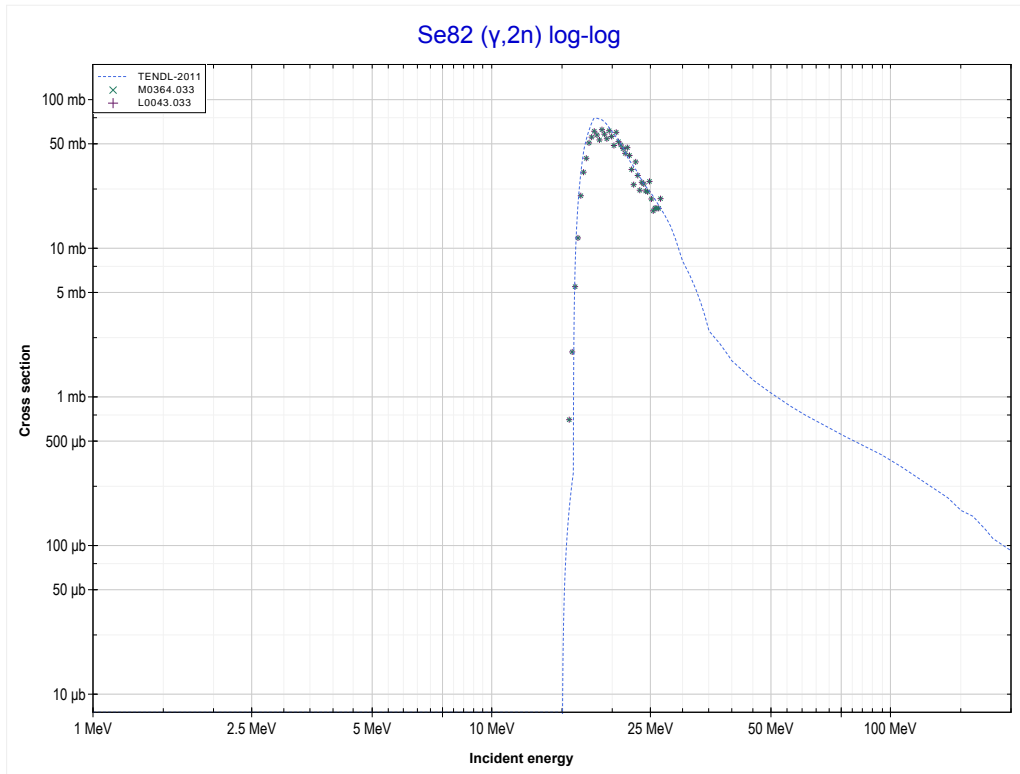
Reaction	Q-Value
Se80(γ,d)As78	-18078.62 keV
Se80($\gamma,n+p$)As78	-20303.19 keV

<< 34-Se-80	34-Se-82	37-Rb-85 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Se81 production)	MT16 ($\gamma, 2n$) >>



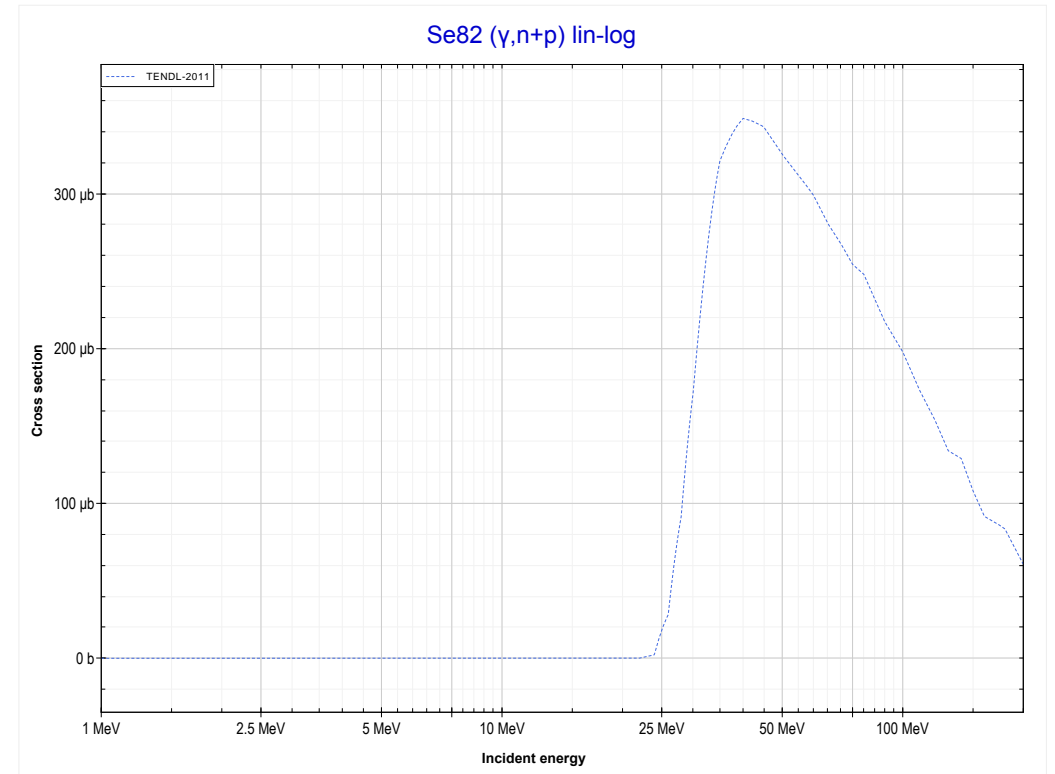
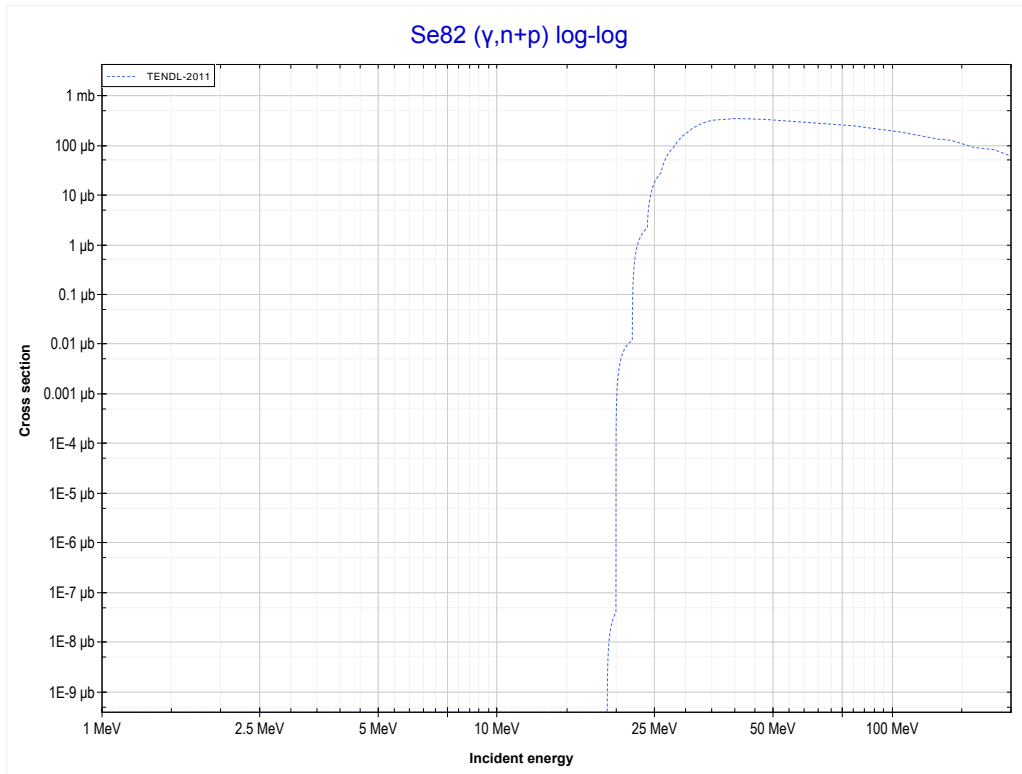
Reaction	Q-Value
Se82(γ, n)Se81	-9275.82 keV

<< 34-Se-80	34-Se-82	39-Y-89 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Se80 production)	MT28 ($\gamma,n+p$) >>



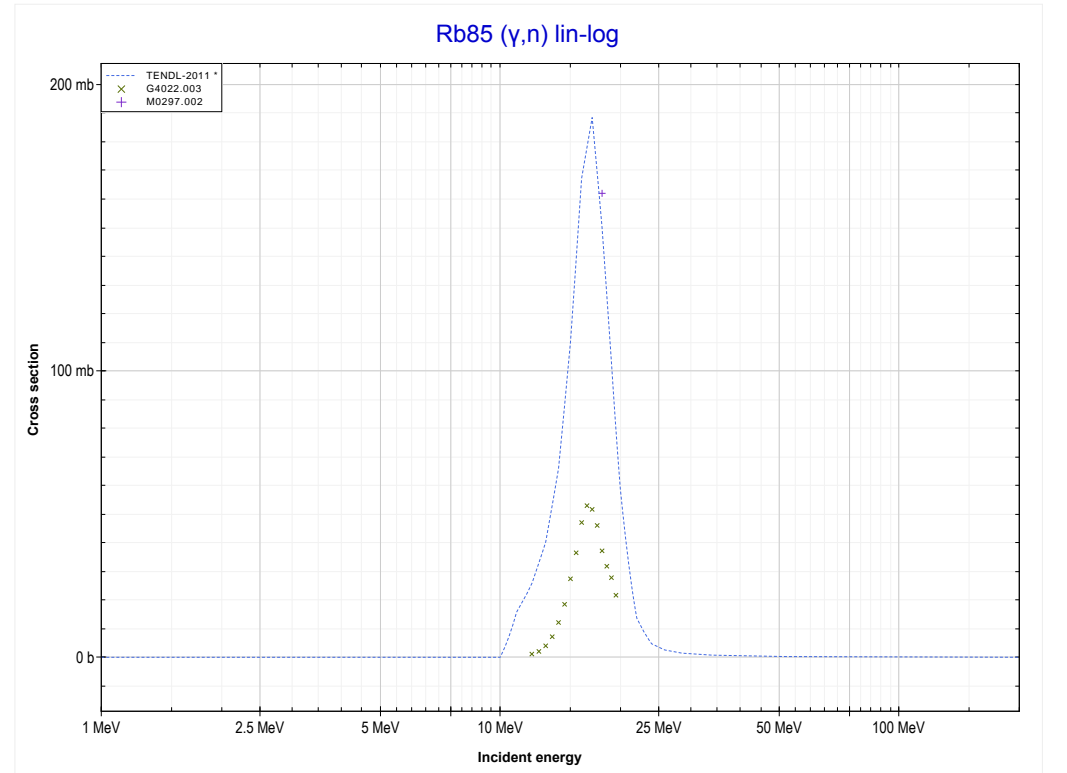
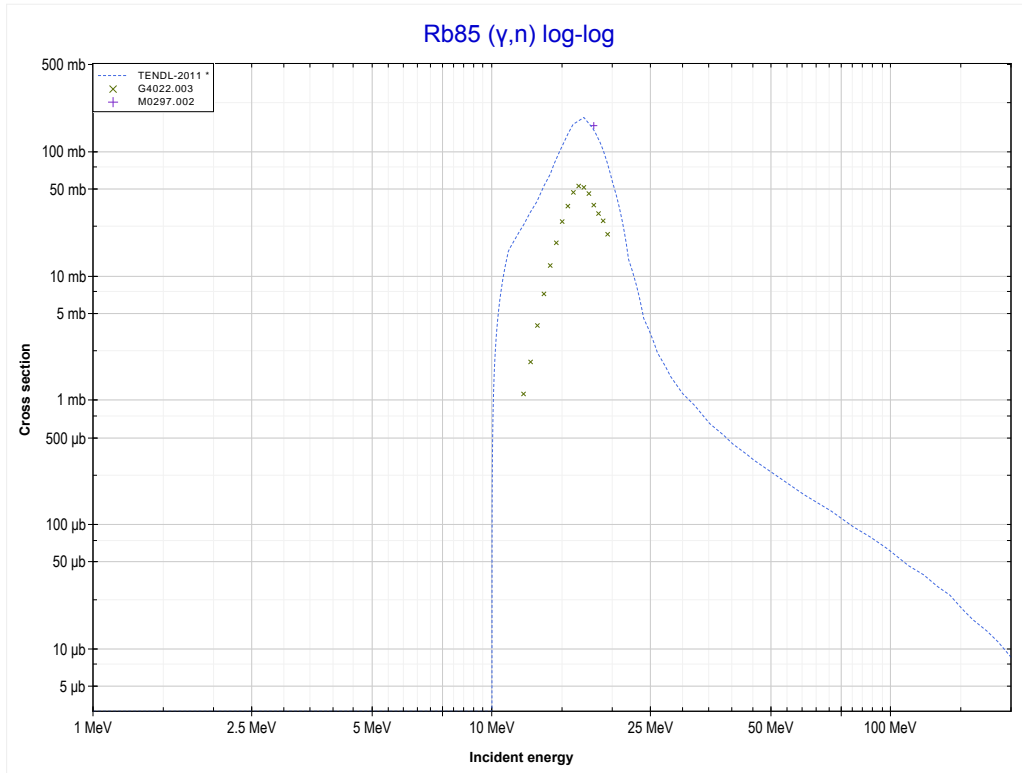
Reaction	Q-Value
Se82($\gamma,2n$)Se80	-15976.73 keV

<< 34-Se-80	34-Se-82	39-Y-89 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (As80 production)	MT4 (γ,n) >>



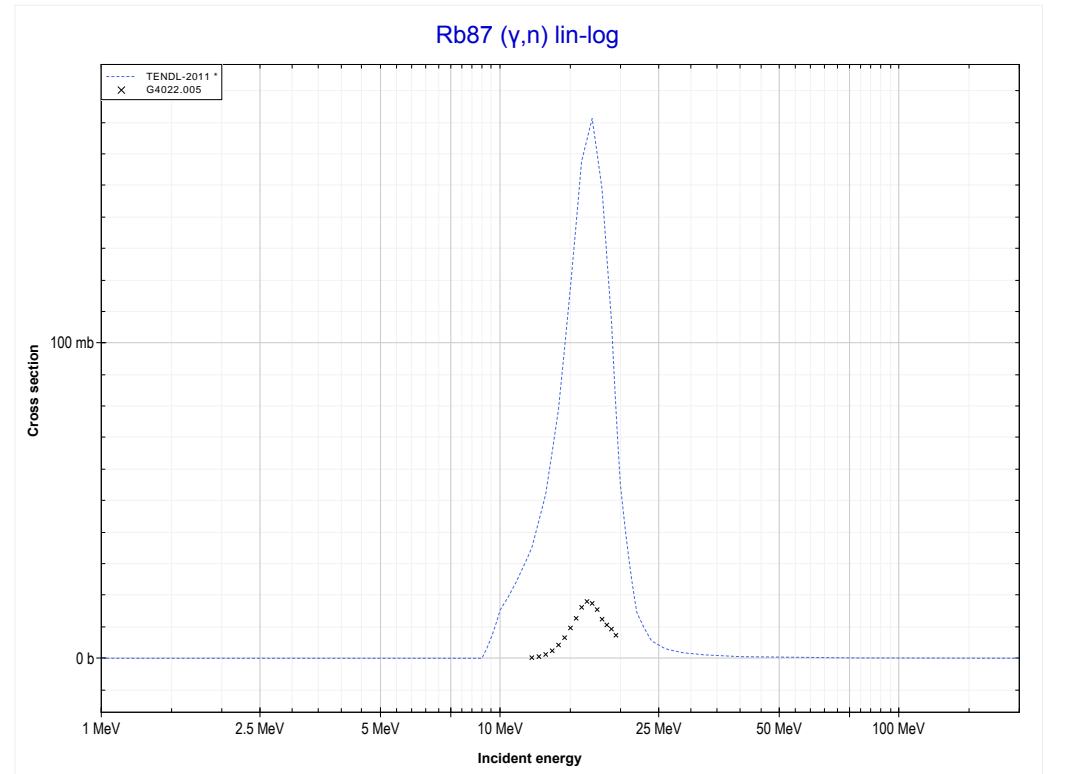
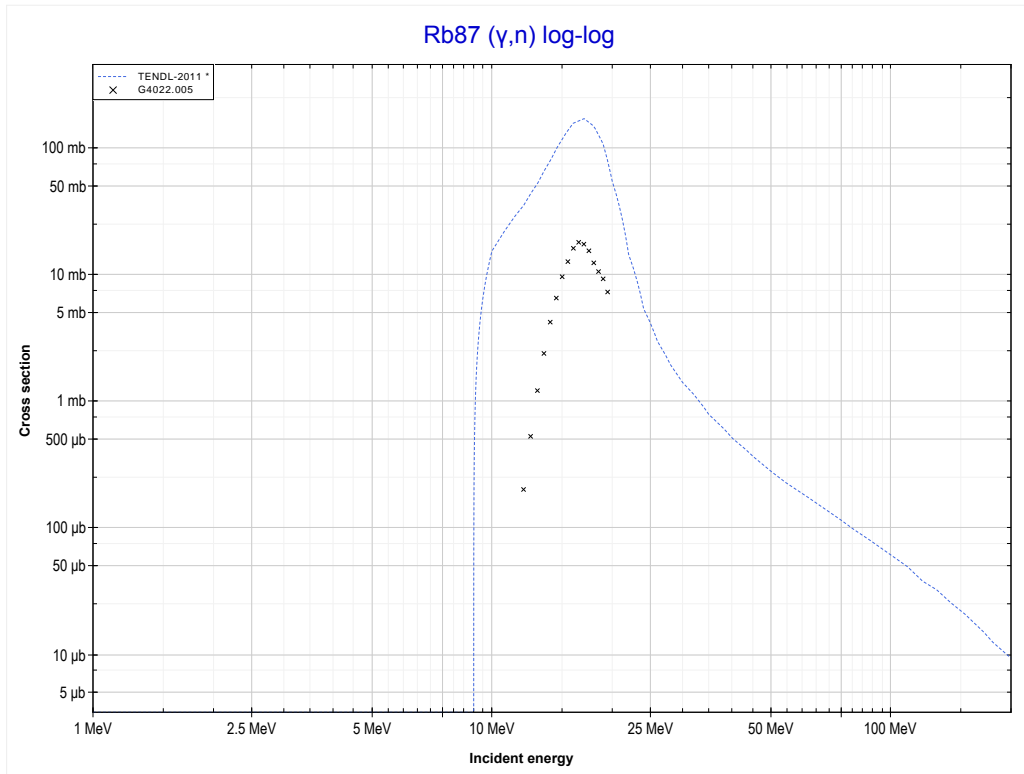
Reaction	Q-Value
Se82(γ,d)As80	-18570.72 keV
Se82($\gamma,n+p$)As80	-20795.29 keV

<< 34-Se-82	37-Rb-85	37-Rb-87 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Rb84 production)	MT4 (γ, n) >>



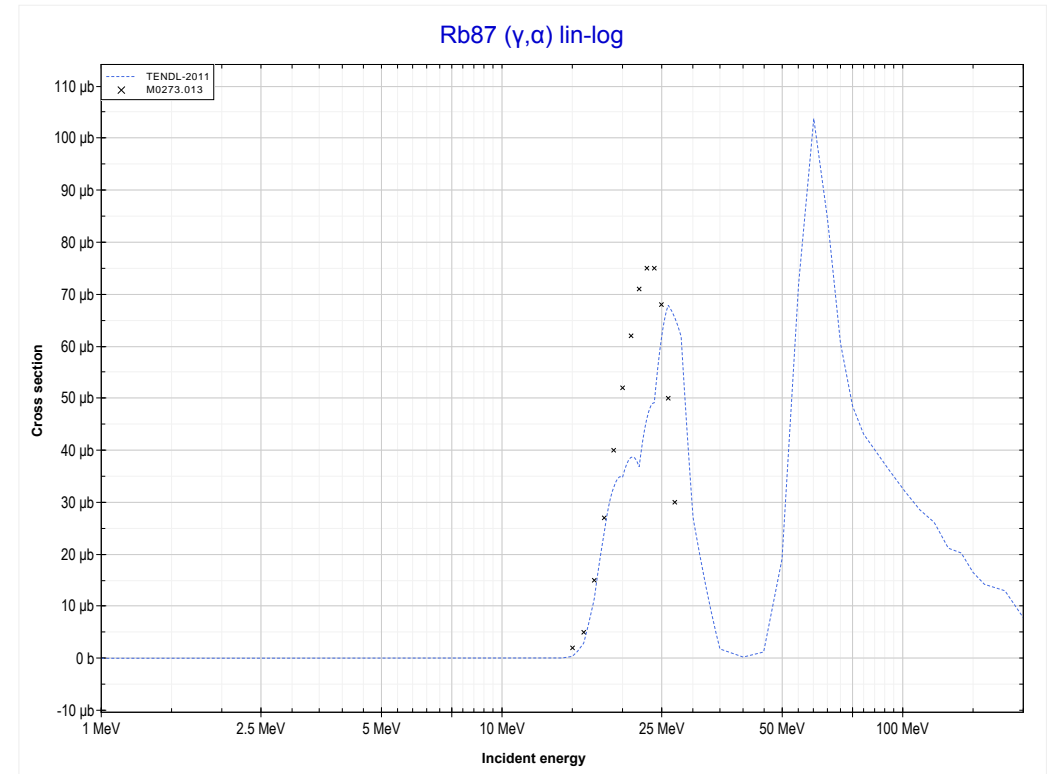
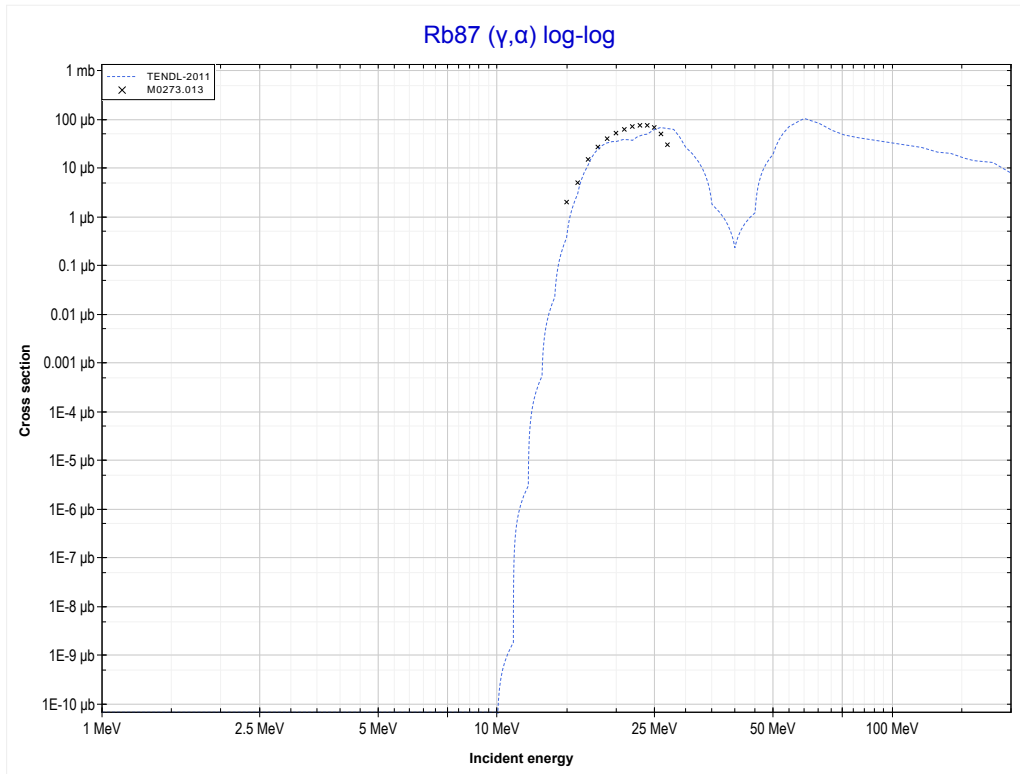
Reaction	Q-Value
Rb85(γ, n)Rb84	-10488.65 keV

<< 37-Rb-85	37-Rb-87	39-Y-89 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Rb86 production)	MT107 (γ,α) >>



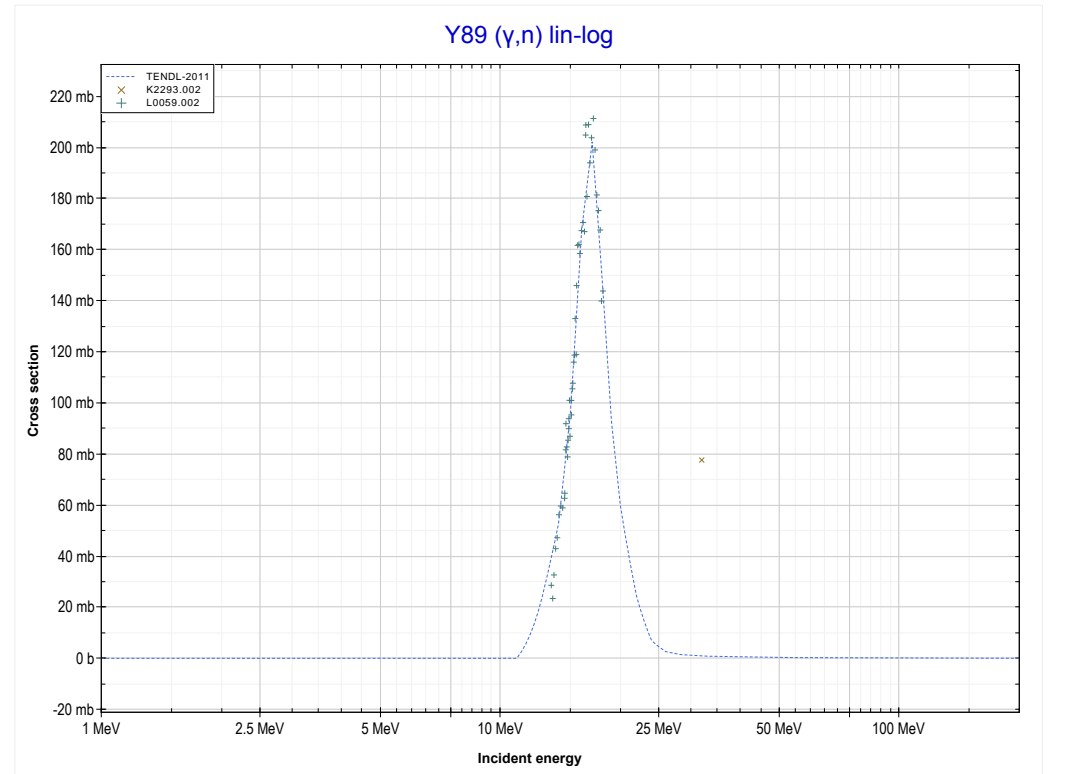
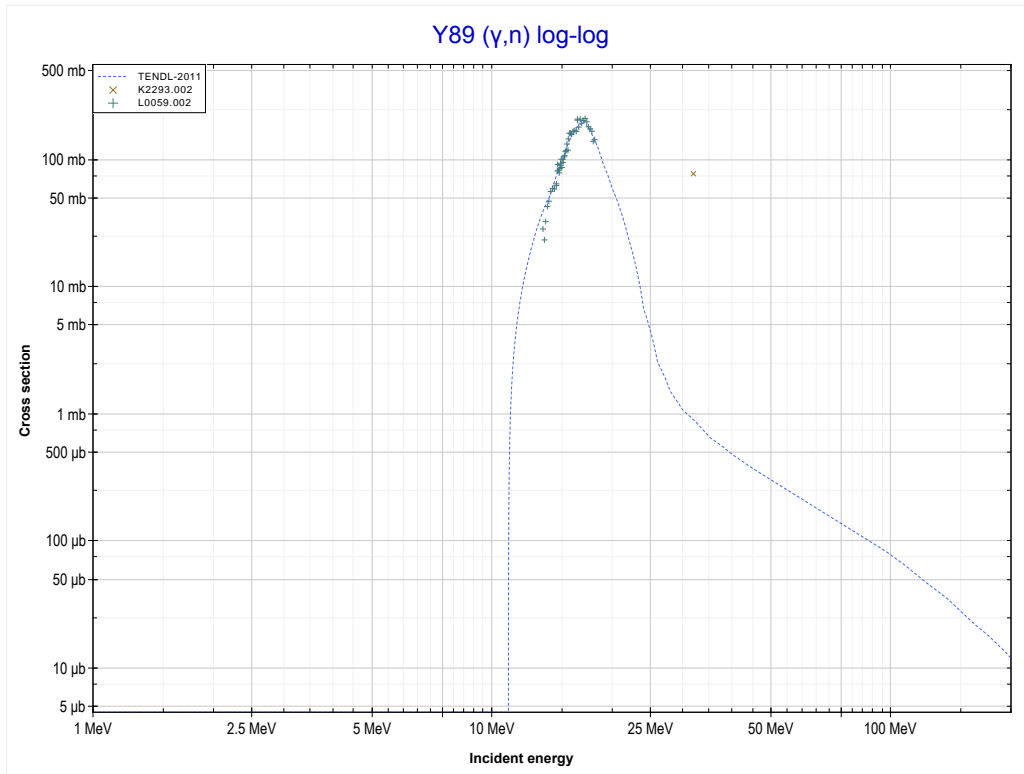
Reaction	Q-Value
Rb87(γ,n)Rb86	-9922.09 keV

	37-Rb-87	
<< MT4 (γ,n)	MT107 (γ,α) or MT5 (Br83 production)	MT4 (γ,n) >>



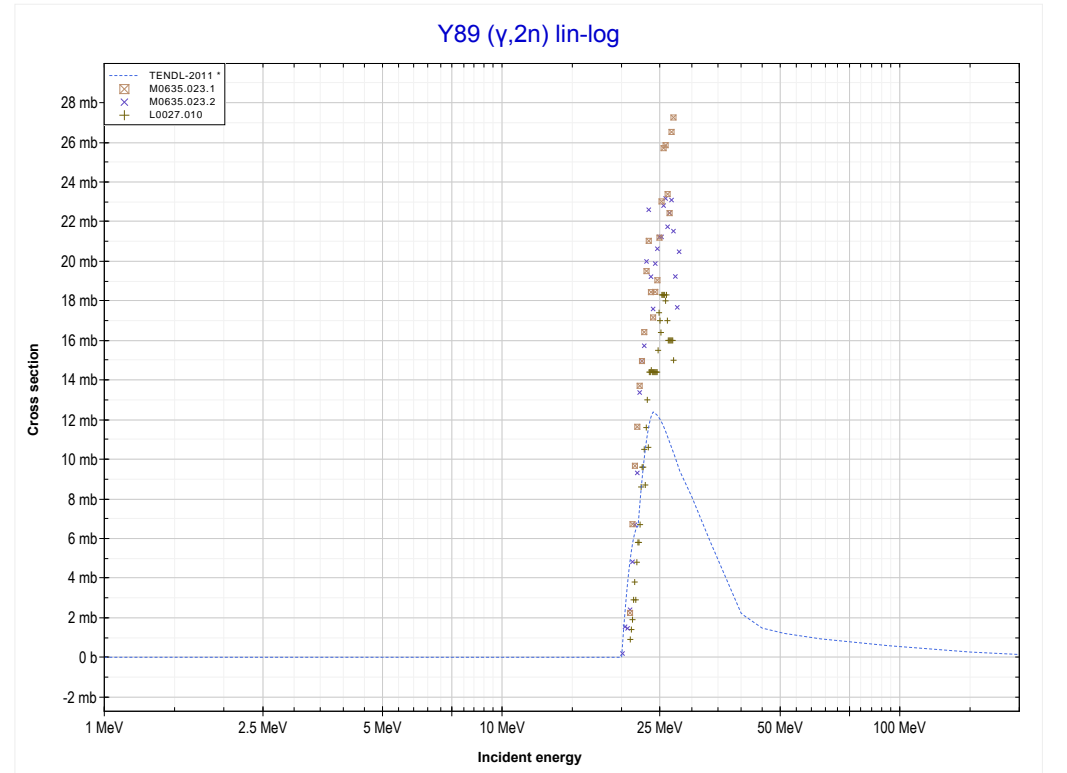
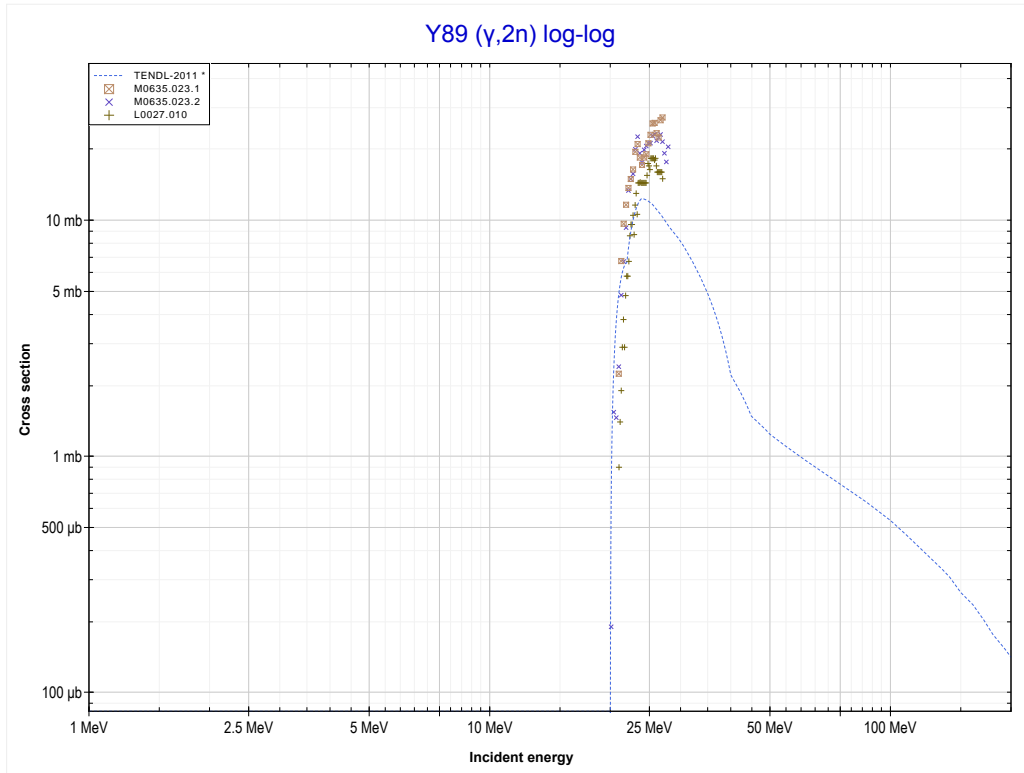
Reaction	Q-Value
Rb87(γ,α)Br83	-8013.71 keV
Rb87($\gamma,p+t$)Br83	-27827.57 keV
Rb87($\gamma,n+He3$)Br83	-28591.33 keV
Rb87($\gamma,2d$)Br83	-31860.24 keV
Rb87($\gamma,n+p+d$)Br83	-34084.80 keV
Rb87($\gamma,2n+2p$)Br83	-36309.37 keV

<< 37-Rb-87	39-Y-89	40-Zr-90 >>
<< MT107 (γ,α)	MT4 (γ,n) or MT5 (Y88 production)	MT16 ($\gamma,2n$) >>



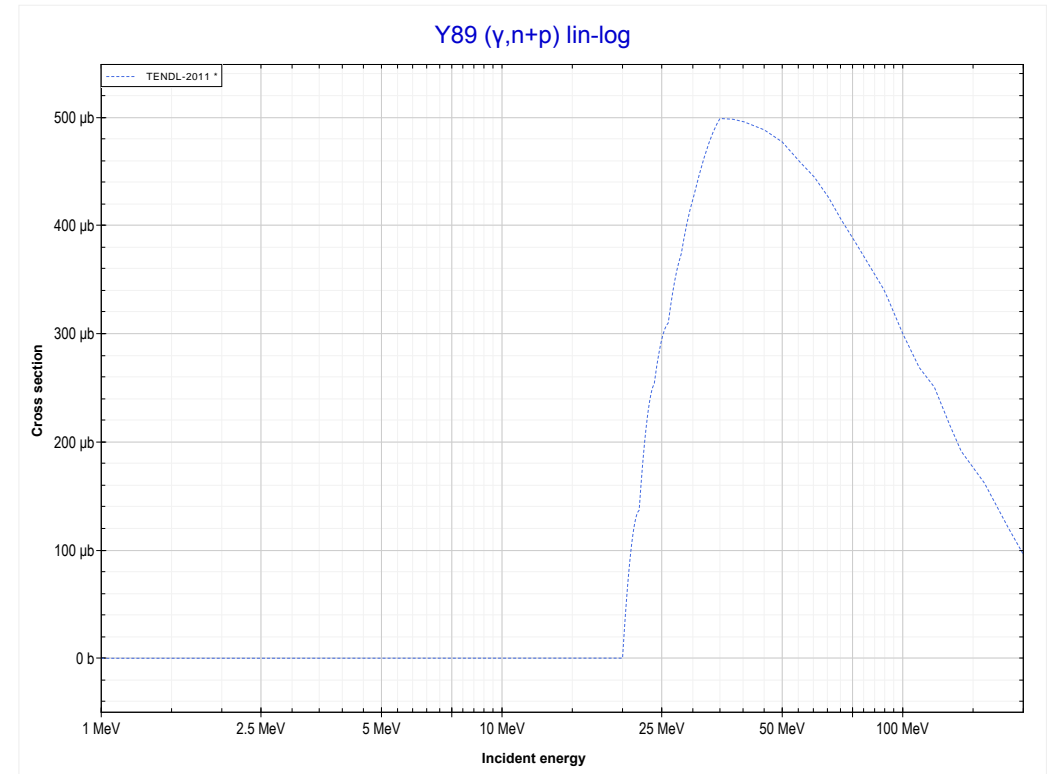
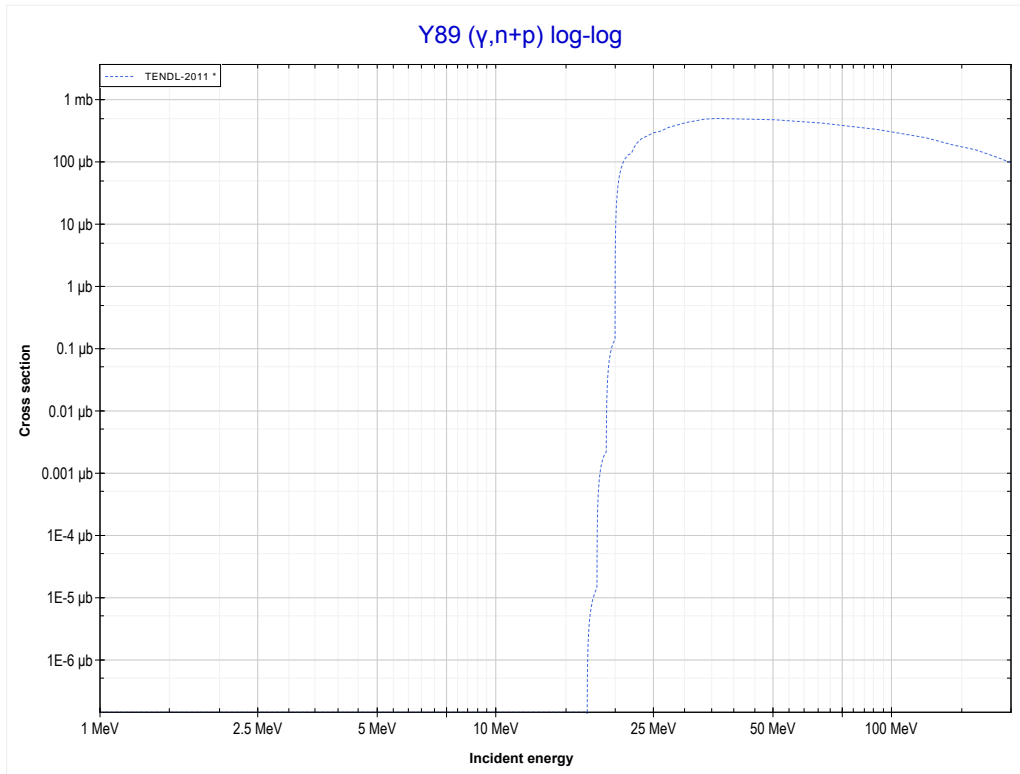
Reaction	Q-Value
Y89(γ,n)Y88	-11473.92 keV

<< 34-Se-82	39-Y-89	40-Zr-90 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Y87 production)	MT28 ($\gamma,n+p$) >>



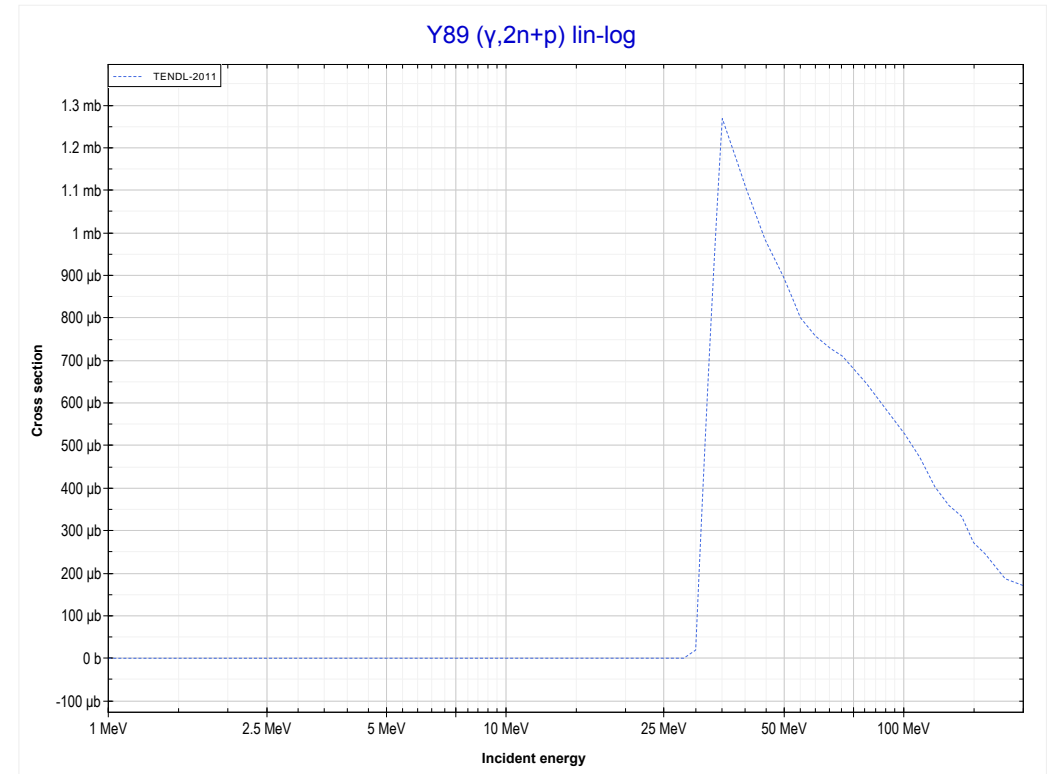
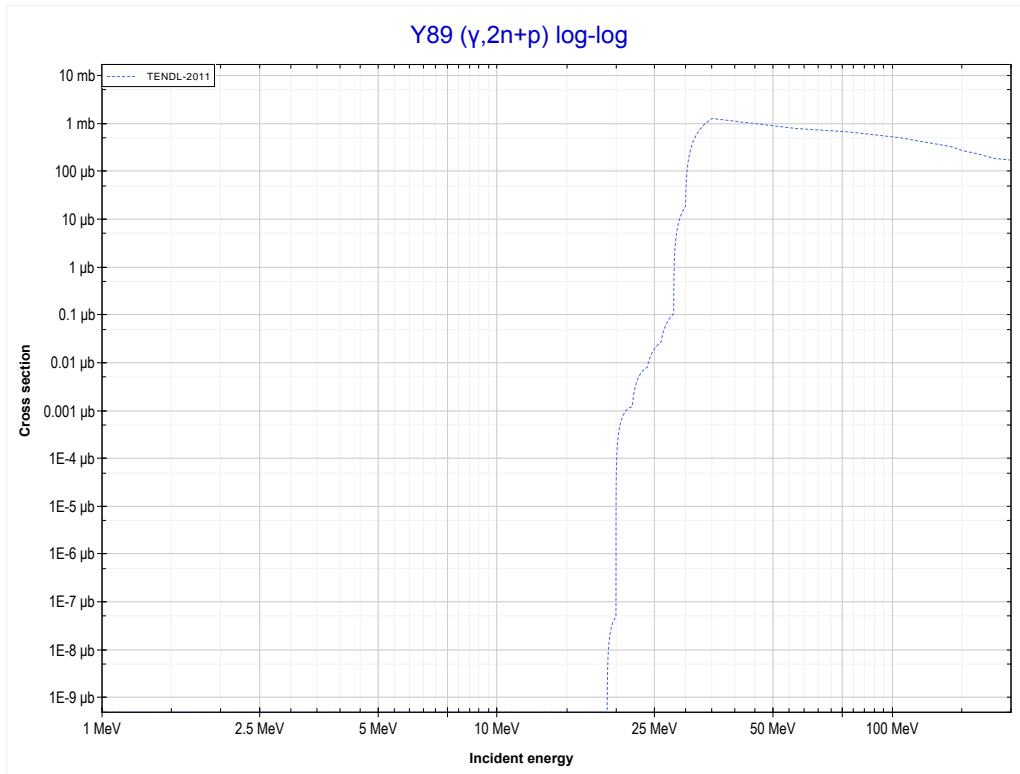
Reaction	Q-Value
Y89($\gamma,2n$)Y87	-20825.63 keV

<< 34-Se-82	39-Y-89	40-Zr-90 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Sr87 production)	MT41 ($\gamma,2n+p$) >>



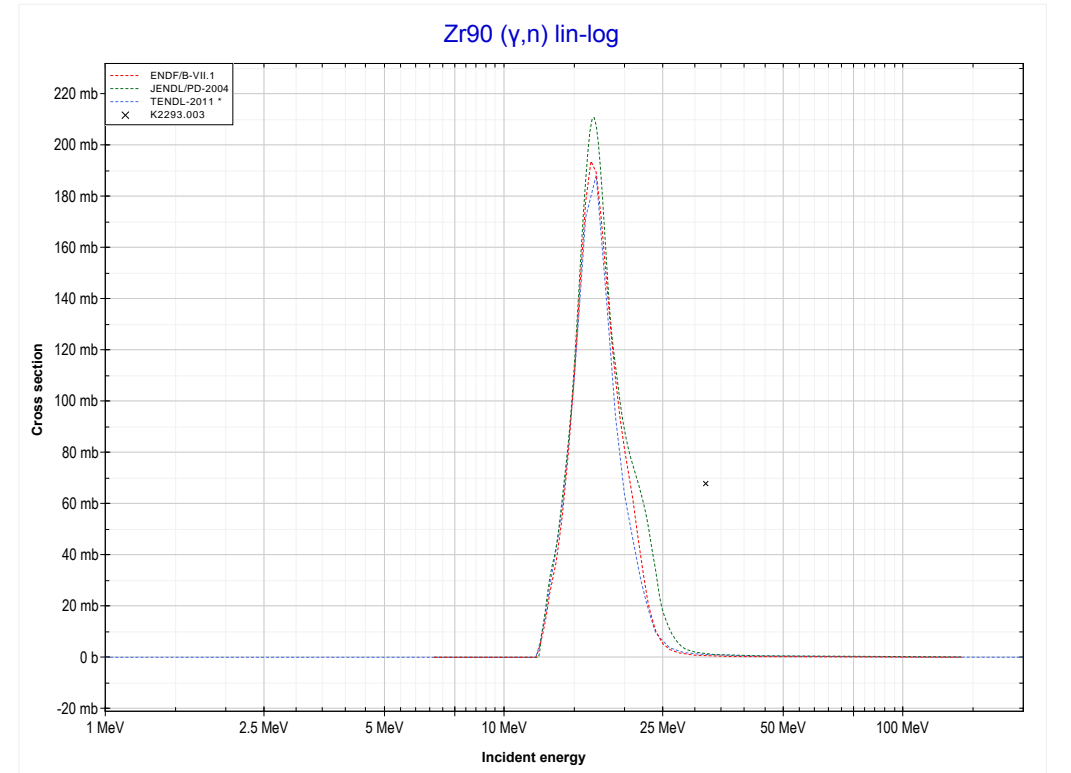
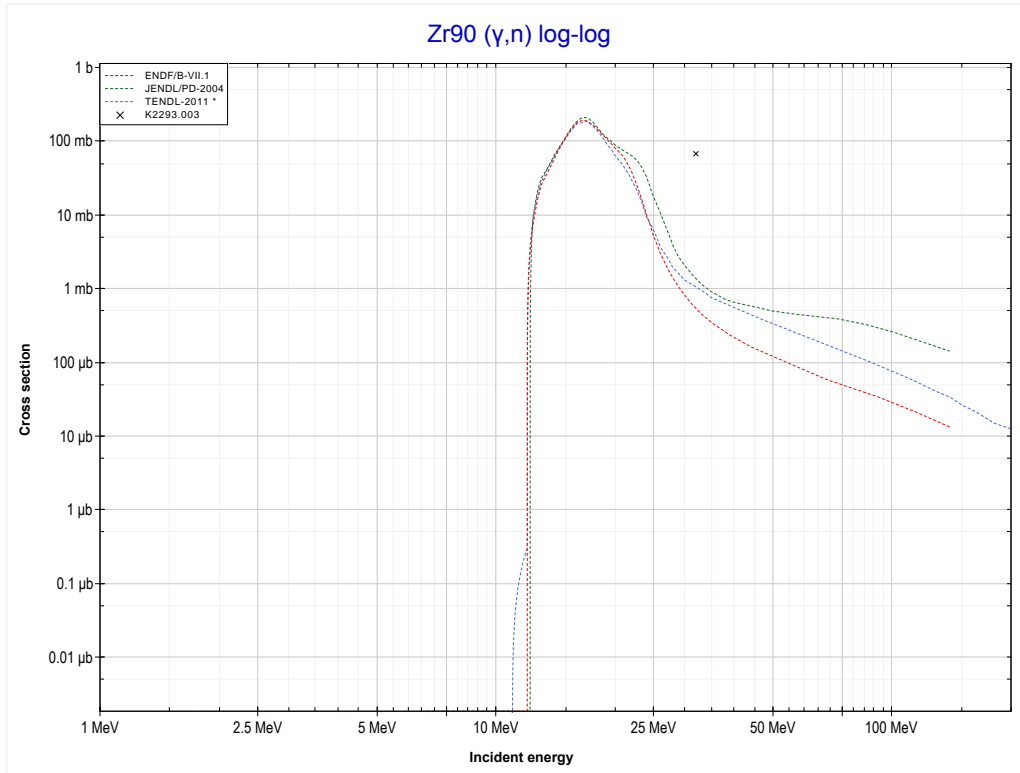
Reaction	Q-Value
Y89(γ,d)Sr87	-15957.02 keV
Y89($\gamma,n+p$)Sr87	-18181.59 keV

<< 33-As-75	39-Y-89	40-Zr-90 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Sr86 production)	MT4 (γ, n) >>



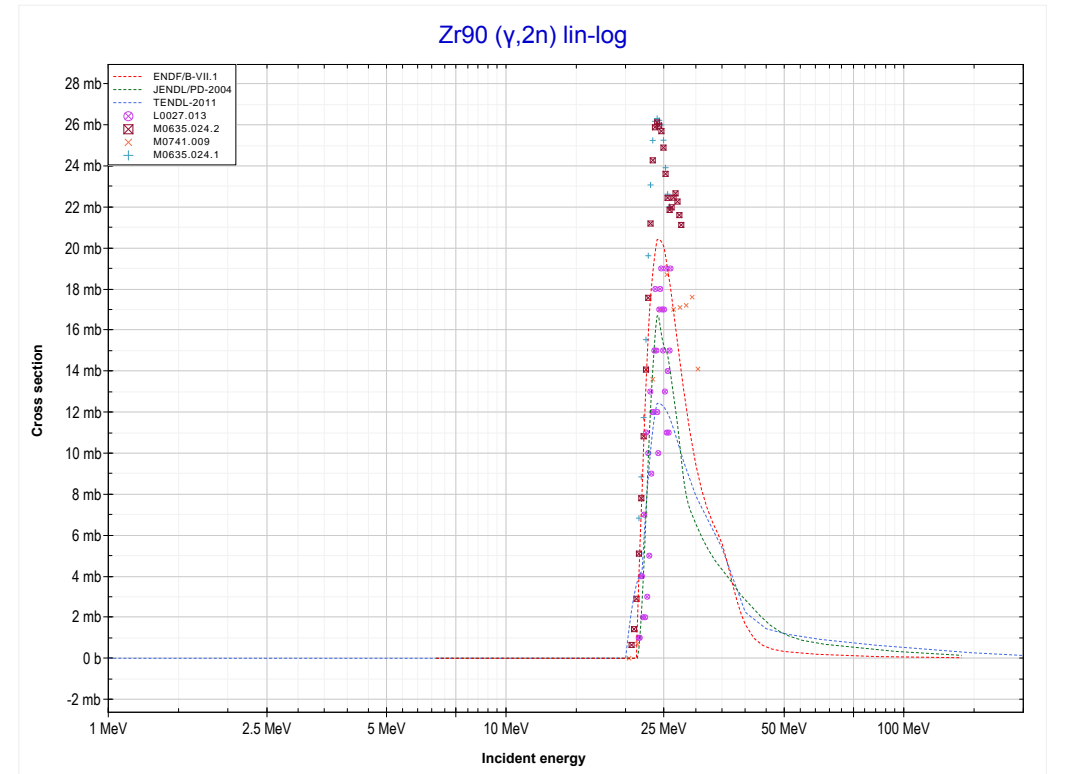
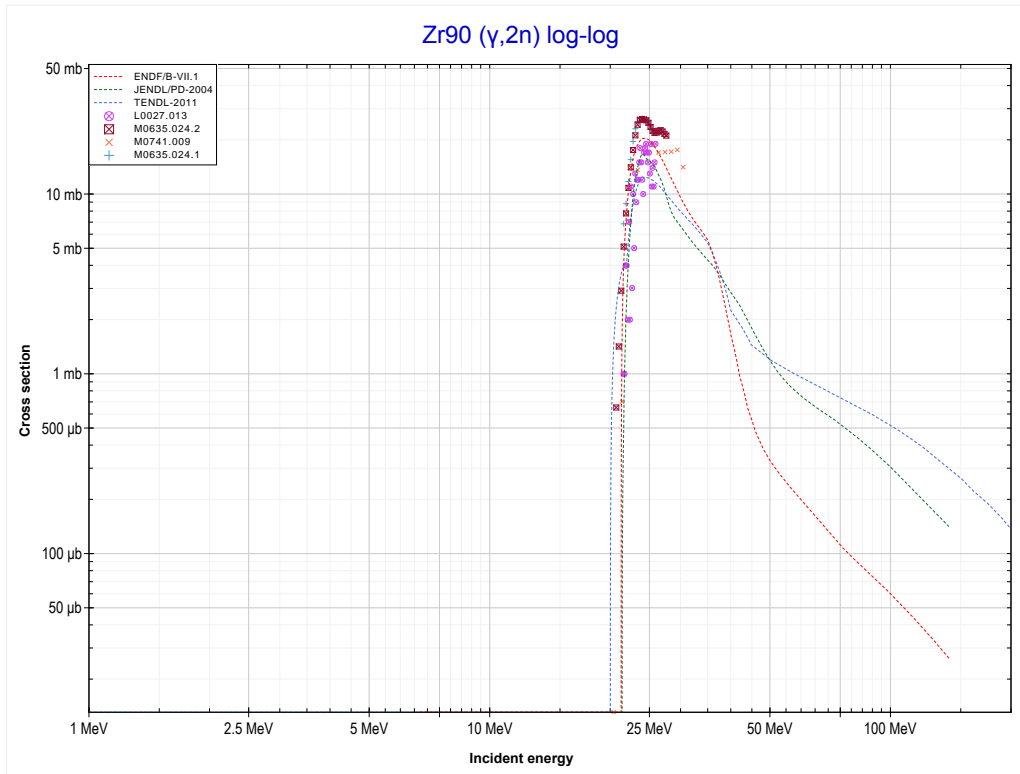
Reaction	Q-Value
Y89(γ, t)Sr86	-18127.91 keV
Y89($\gamma, n+d$)Sr86	-24385.14 keV
Y89($\gamma, 2n+p$)Sr86	-26609.70 keV

<< 39-Y-89	40-Zr-90	40-Zr-91 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Zr89 production)	MT16 ($\gamma, 2n$) >>



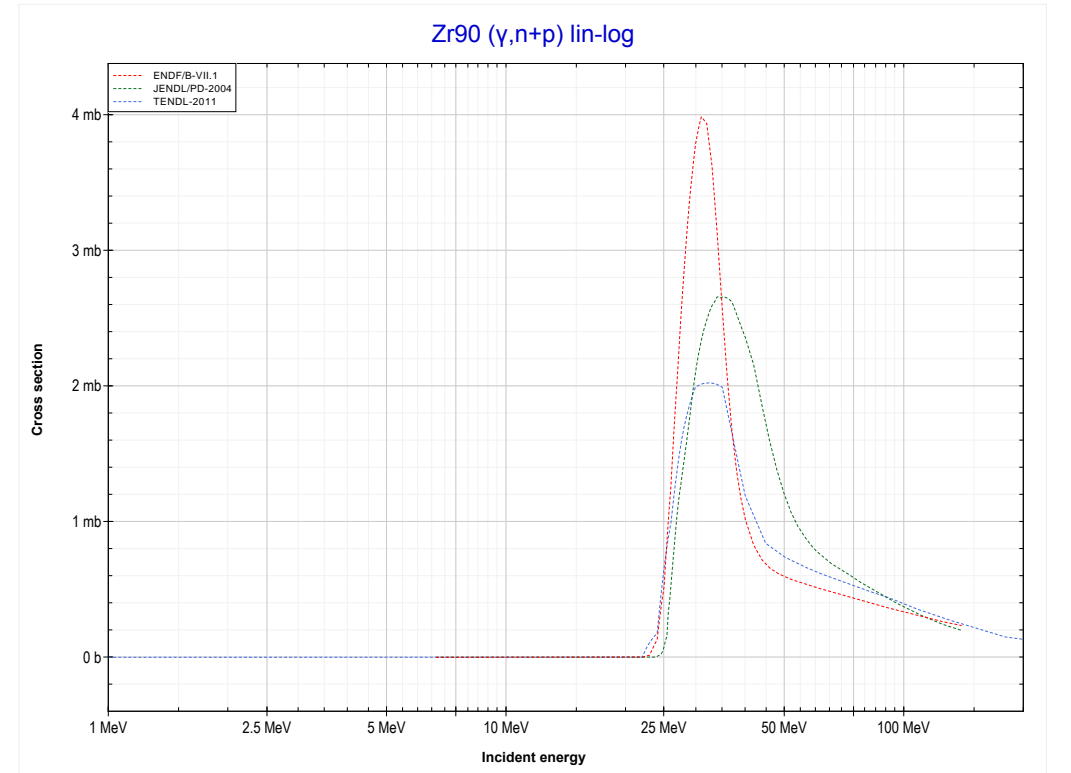
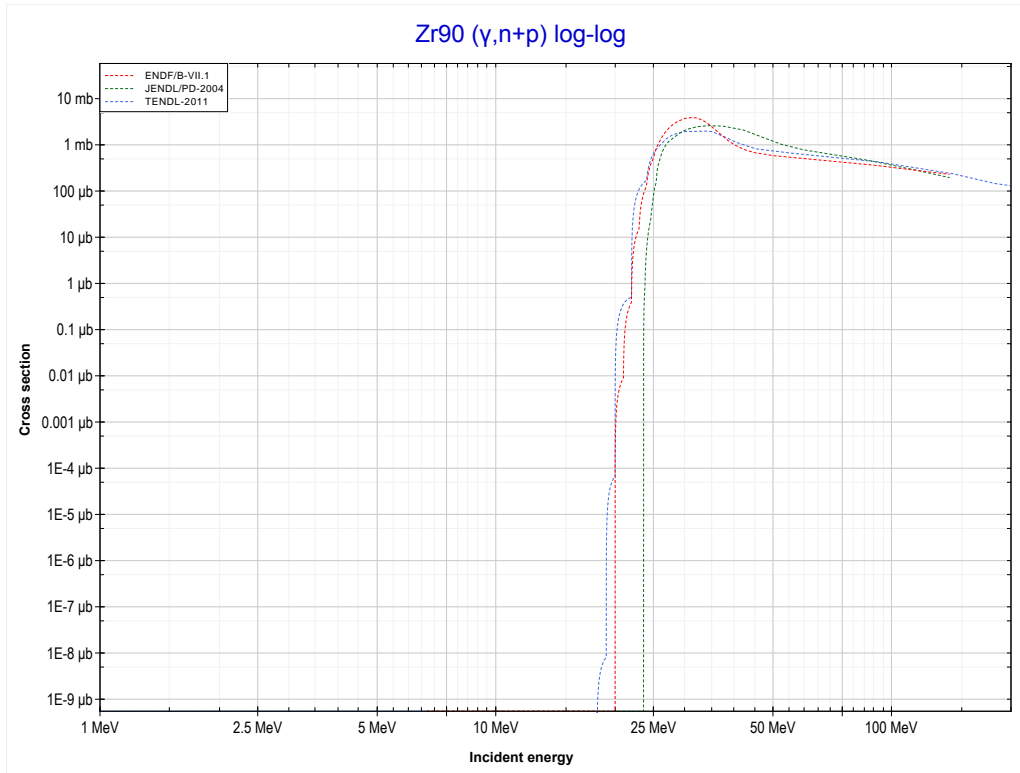
Reaction	Q-Value
Zr90(γ, n)Zr89	-11969.62 keV

<< 39-Y-89	40-Zr-90	40-Zr-91 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Zr88 production)	MT28 ($\gamma,n+p$) >>



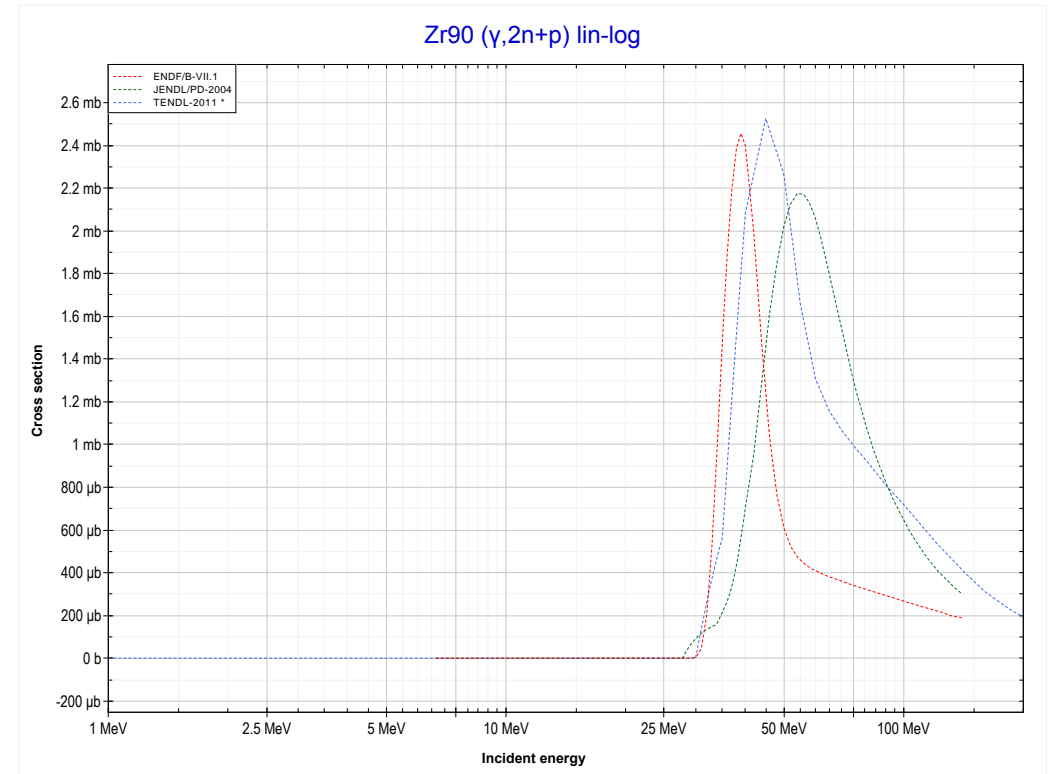
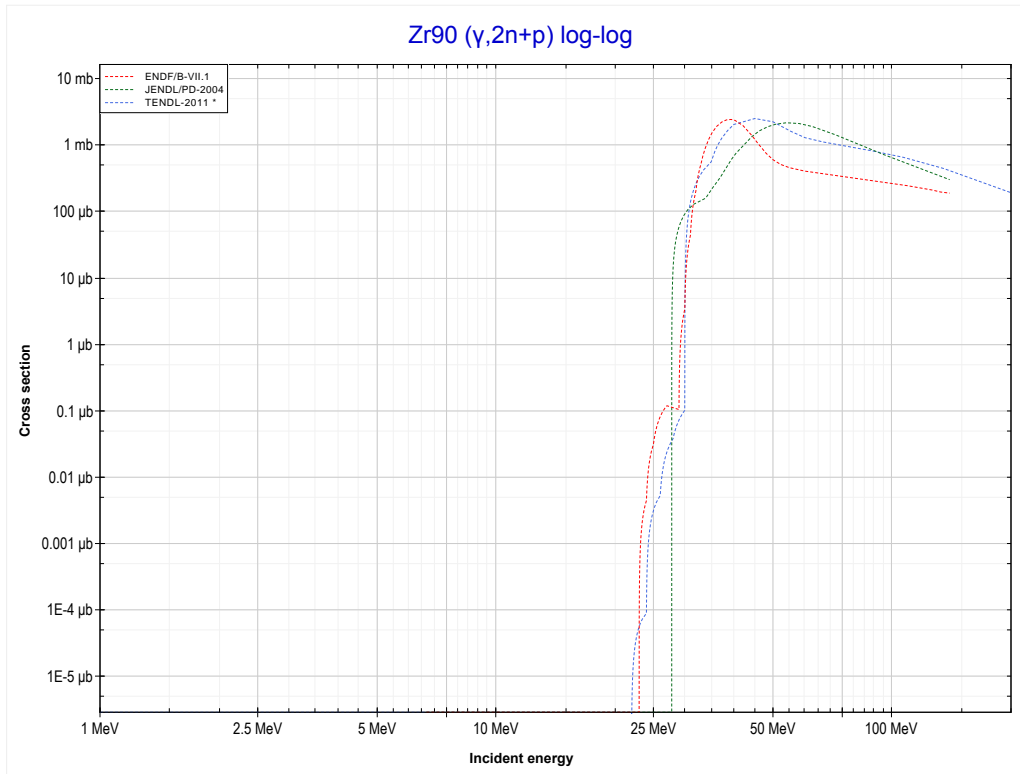
Reaction	Q-Value
Zr90($\gamma,2n$)Zr88	-21286.93 keV

<< 39-Y-89	40-Zr-90	40-Zr-91 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Y88 production)	MT41 ($\gamma,2n+p$) >>



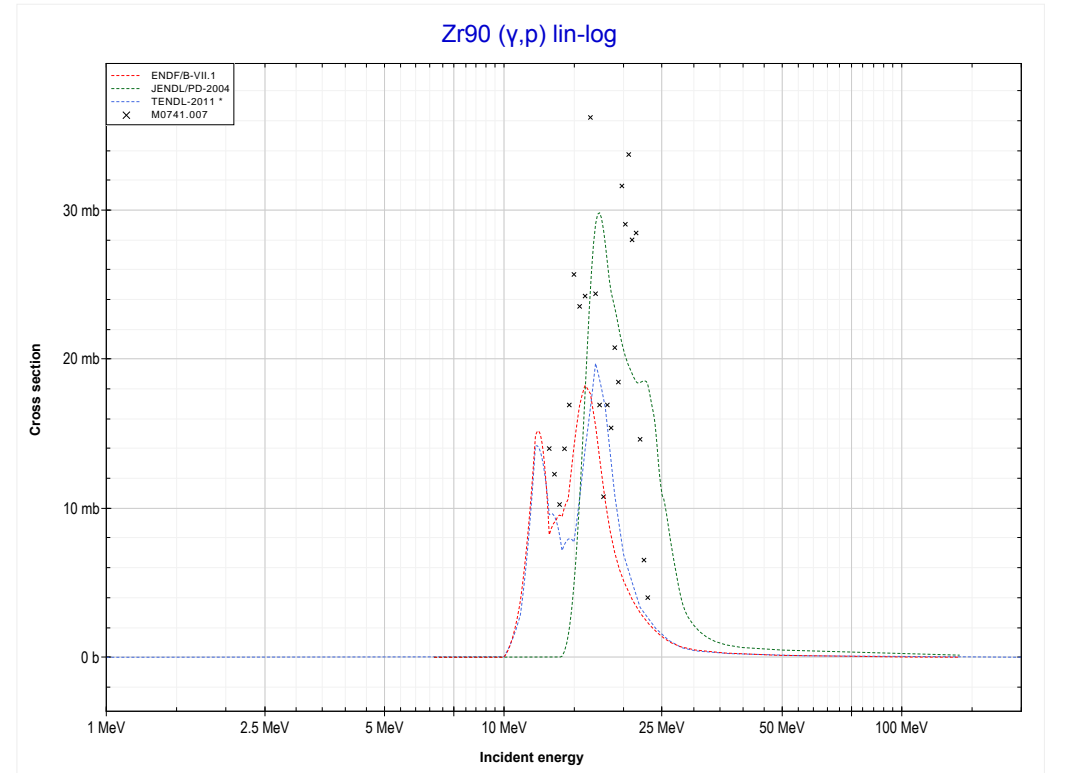
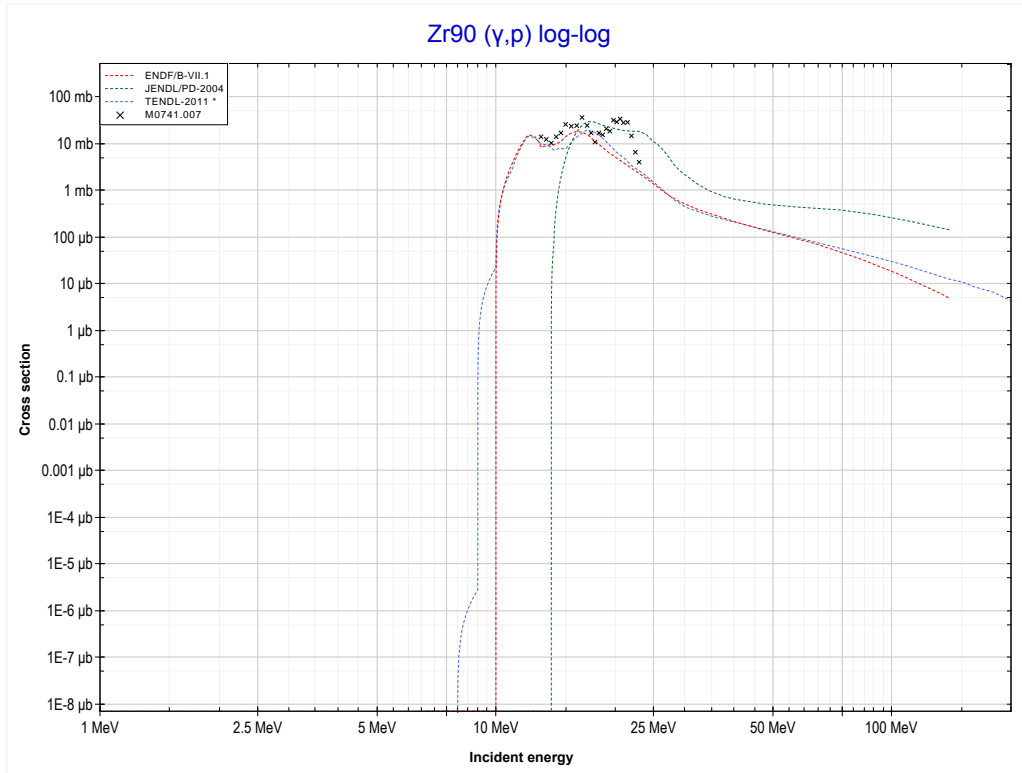
Reaction	Q-Value
Zr90(γ,d)Y88	-17603.92 keV
Zr90($\gamma,n+p$)Y88	-19828.49 keV

<< 39-Y-89	40-Zr-90	40-Zr-91 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Y87 production)	MT103 (γ, p) >>



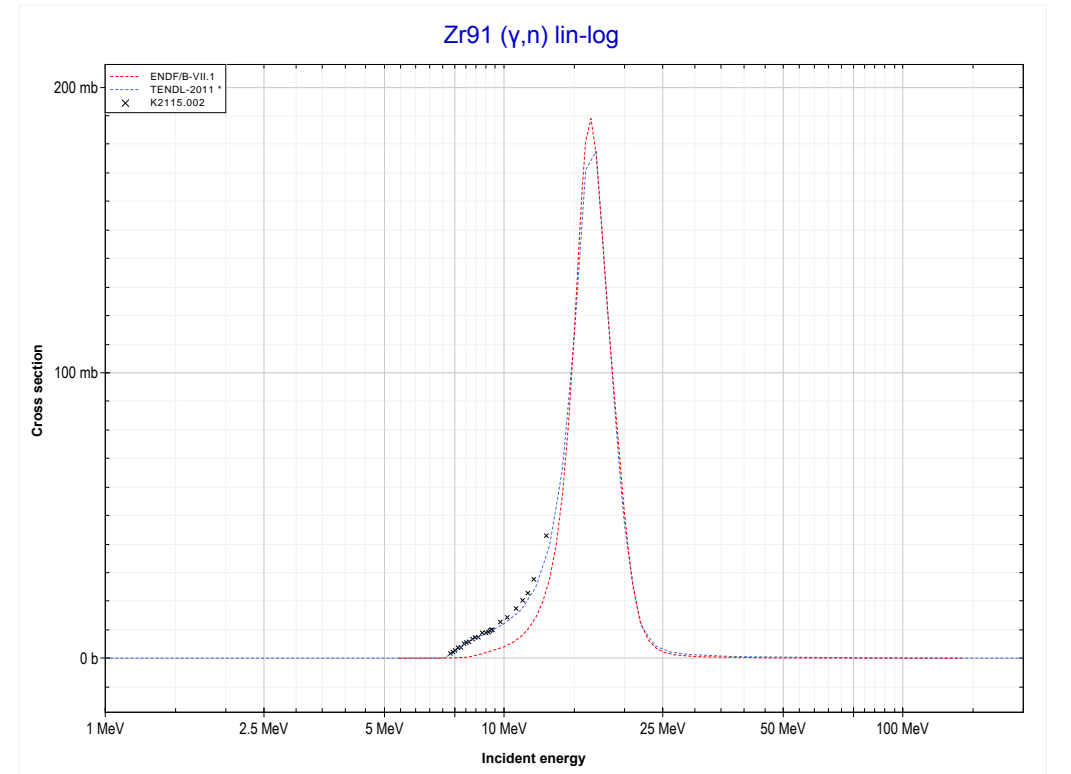
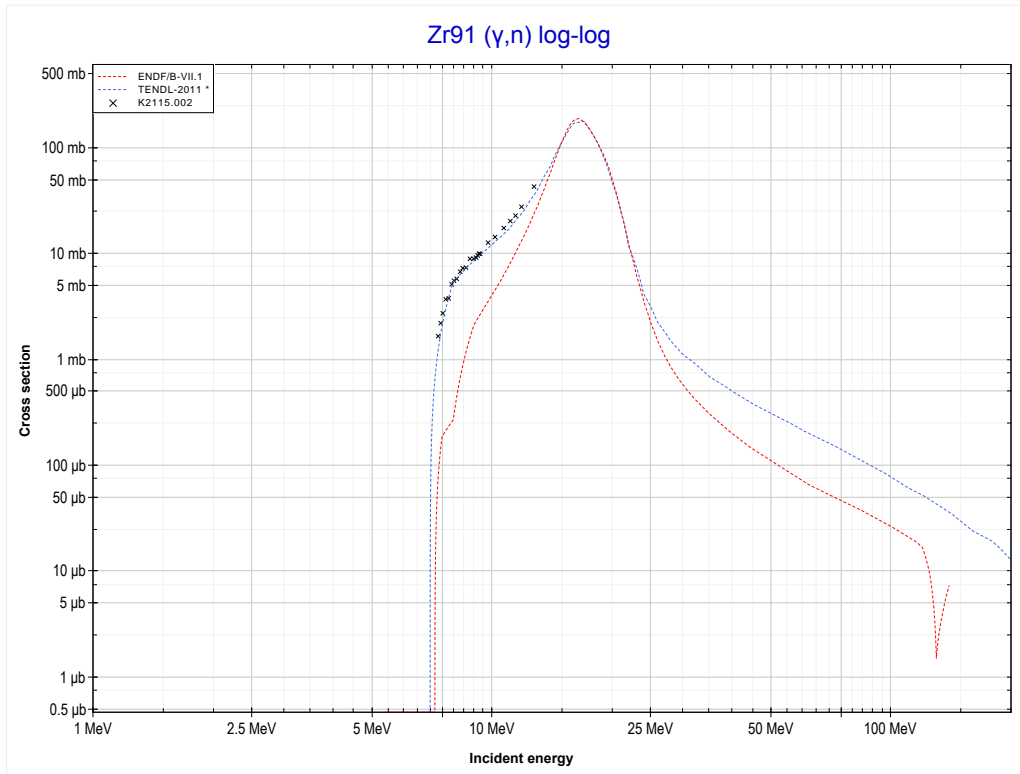
Reaction	Q-Value
Zr90(γ, t)Y87	-20698.41 keV
Zr90($\gamma, n+d$)Y87	-26955.64 keV
Zr90($\gamma, 2n+p$)Y87	-29180.20 keV

<< 32-Ge-70	40-Zr-90	45-Rh-103 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Y89 production)	MT4 (γ,n) >>



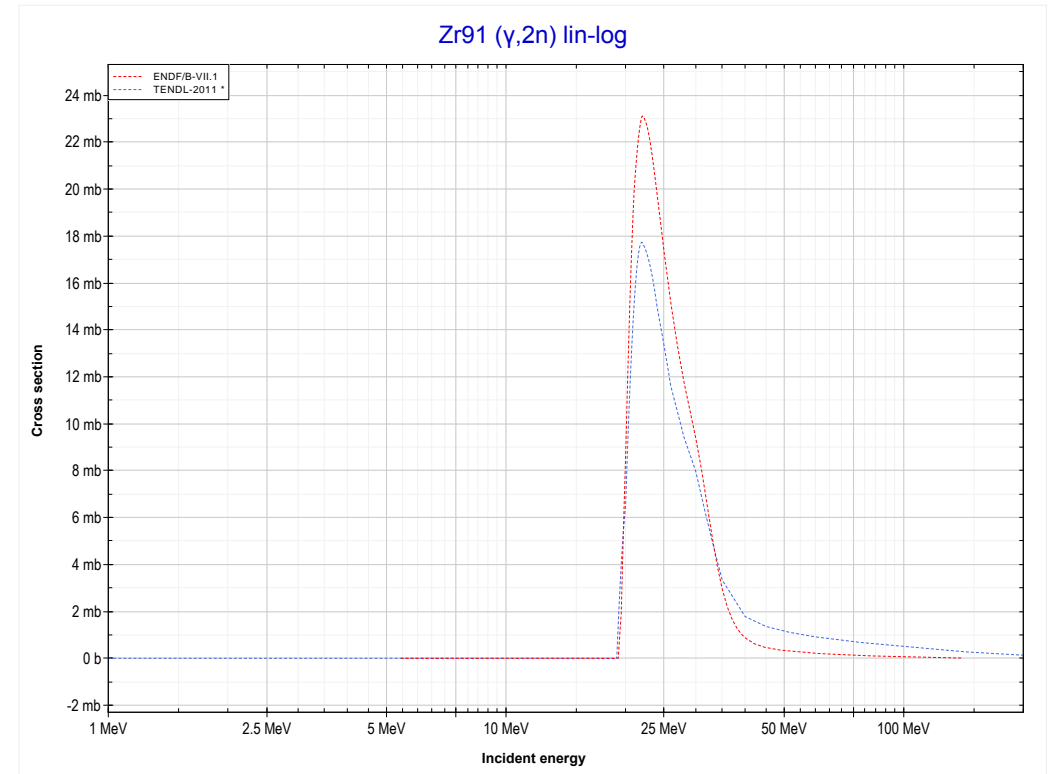
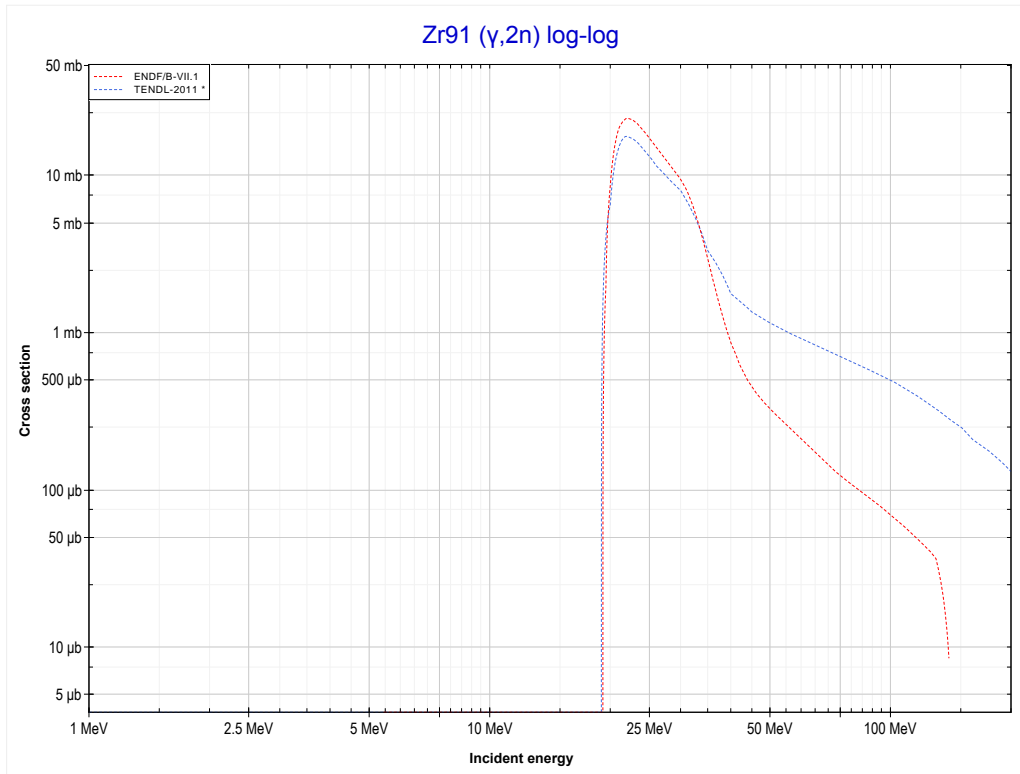
Reaction	Q-Value
Zr90(γ,p)Y89	-8354.57 keV

<< 40-Zr-90	40-Zr-91	40-Zr-92 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Zr90 production)	MT16 ($\gamma,2n$) >>



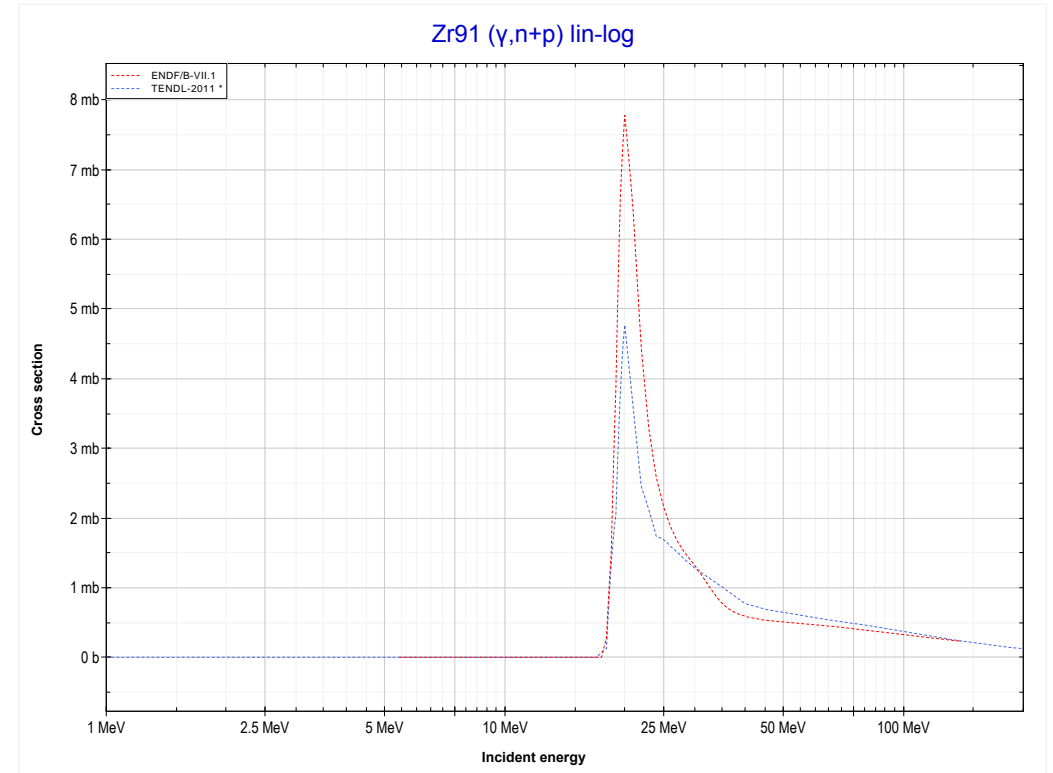
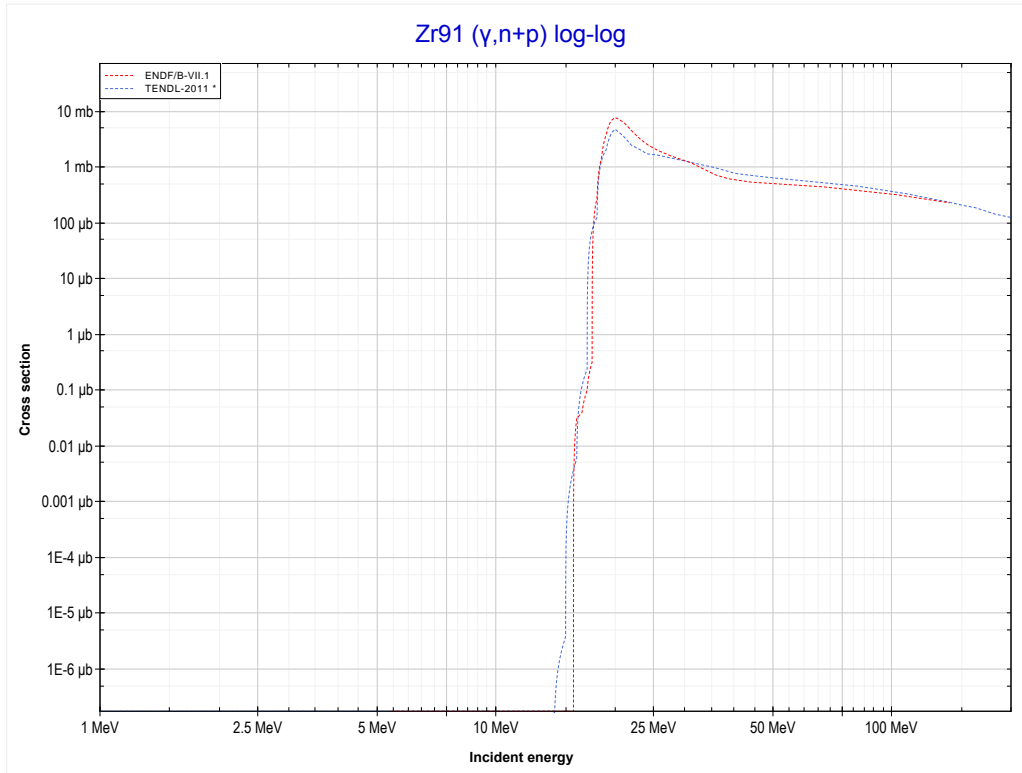
Reaction	Q-Value
Zr91(γ,n)Zr90	-7194.42 keV

<< 40-Zr-90	40-Zr-91	40-Zr-92 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Zr89 production)	MT28 ($\gamma,n+p$) >>



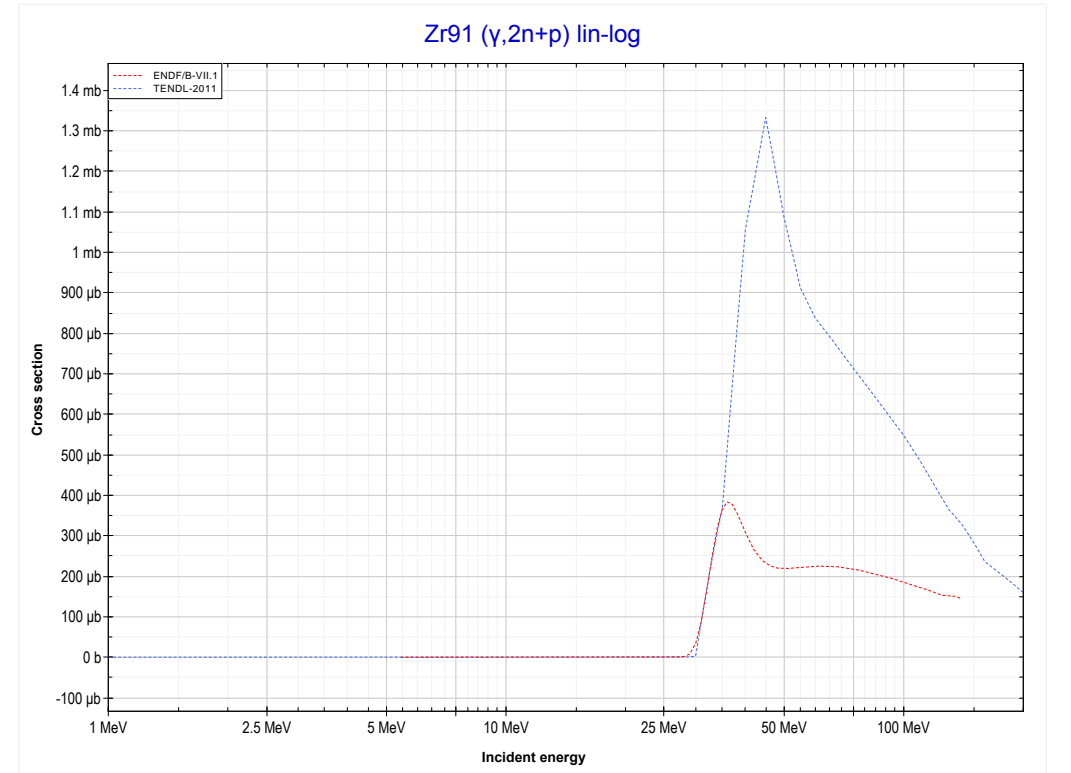
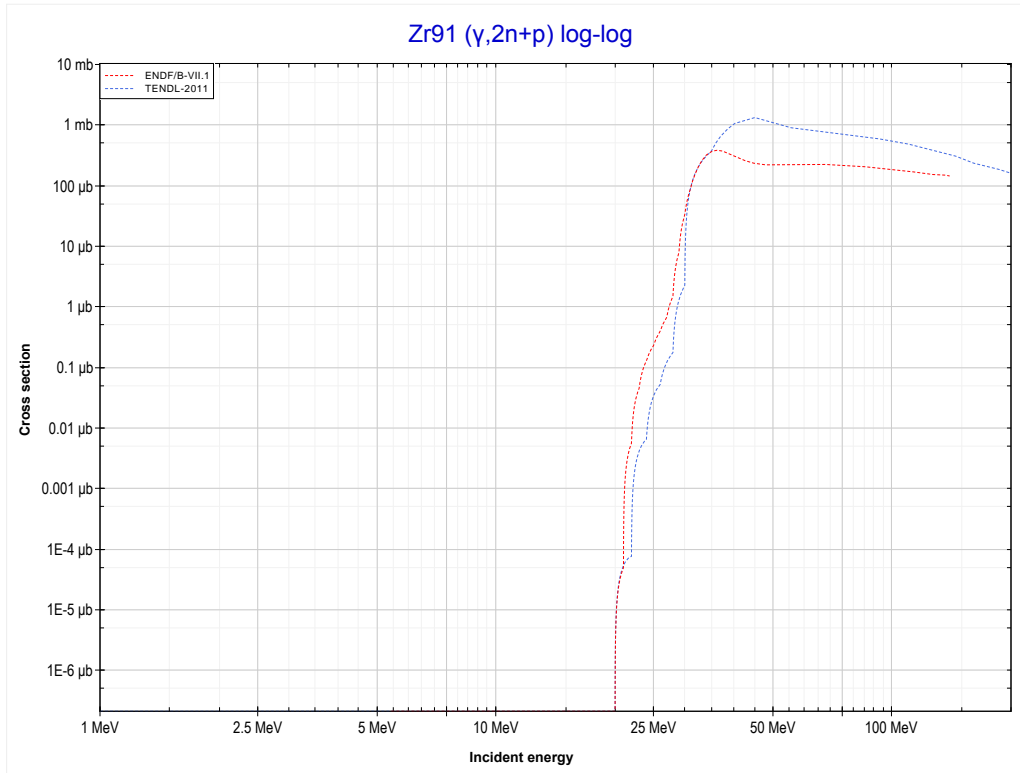
Reaction	Q-Value
Zr91($\gamma,2n$)Zr89	-19164.03 keV

<< 40-Zr-90	40-Zr-91	40-Zr-92 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Y89 production)	MT41 ($\gamma,2n+p$) >>



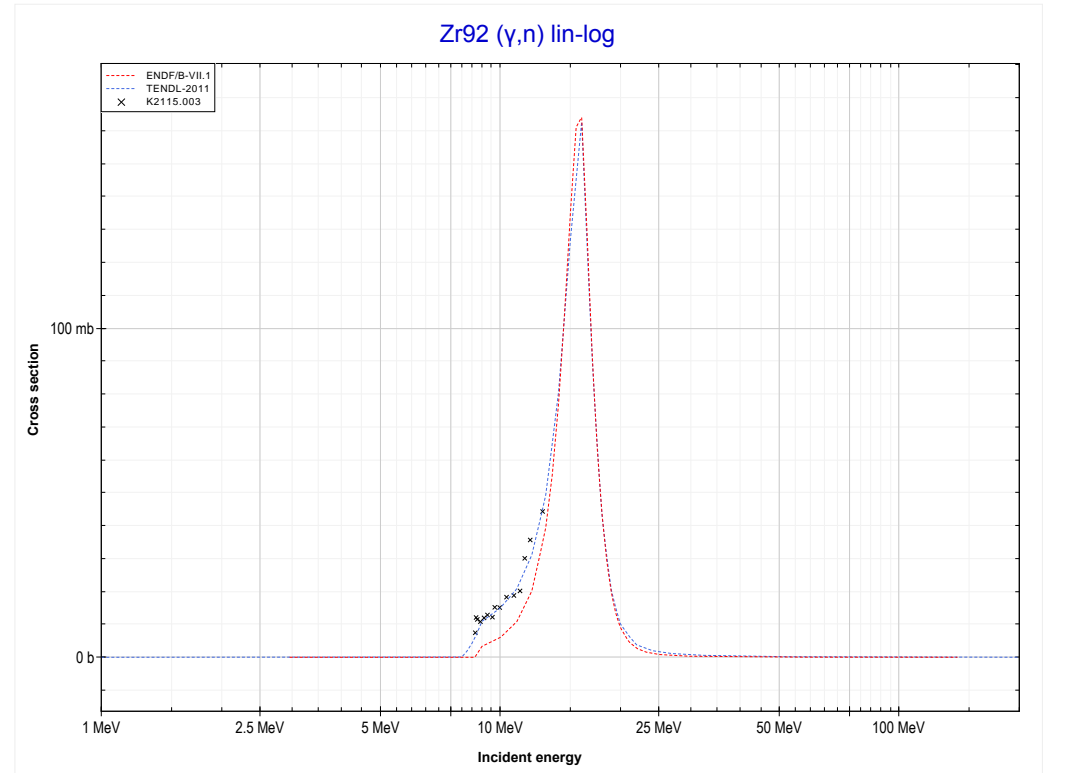
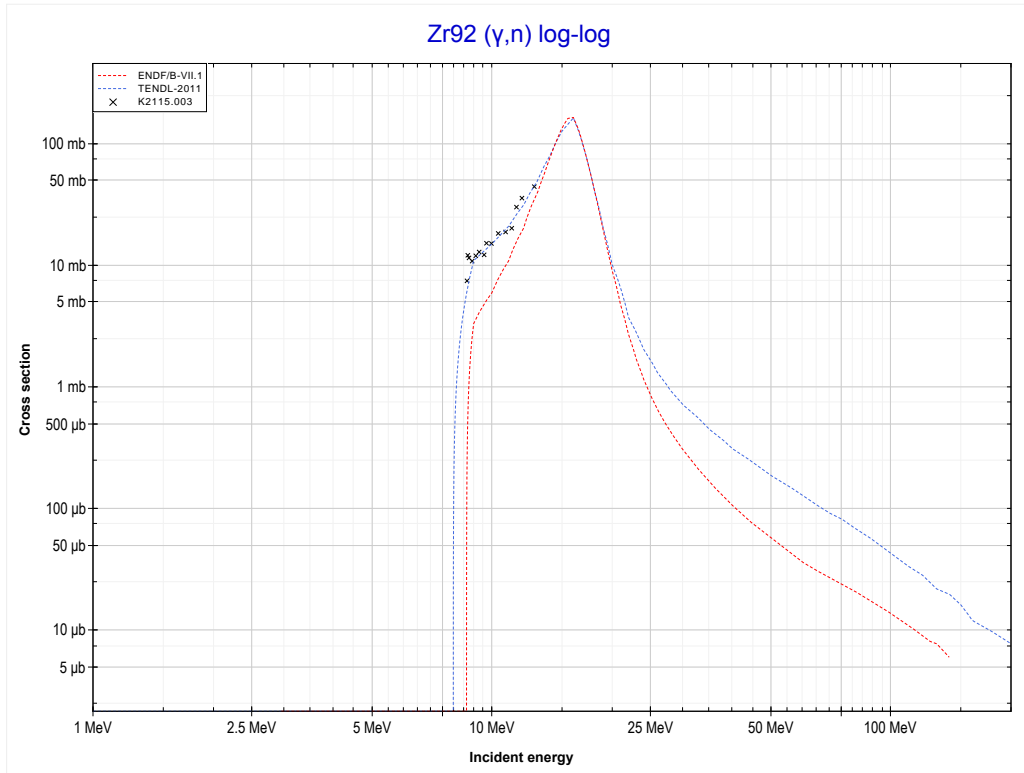
Reaction	Q-Value
Zr91(γ,d)Y89	-13324.42 keV
Zr91($\gamma,n+p$)Y89	-15548.99 keV

<< 40-Zr-90	40-Zr-91	40-Zr-92 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Y88 production)	MT4 (γ, n) >>



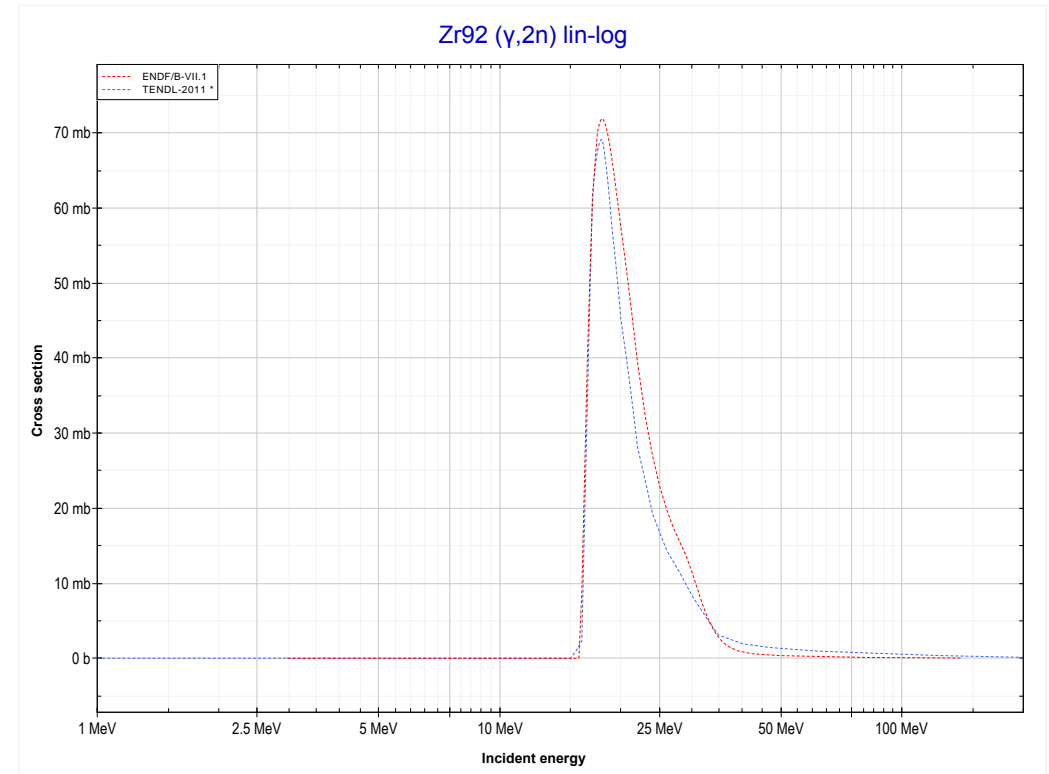
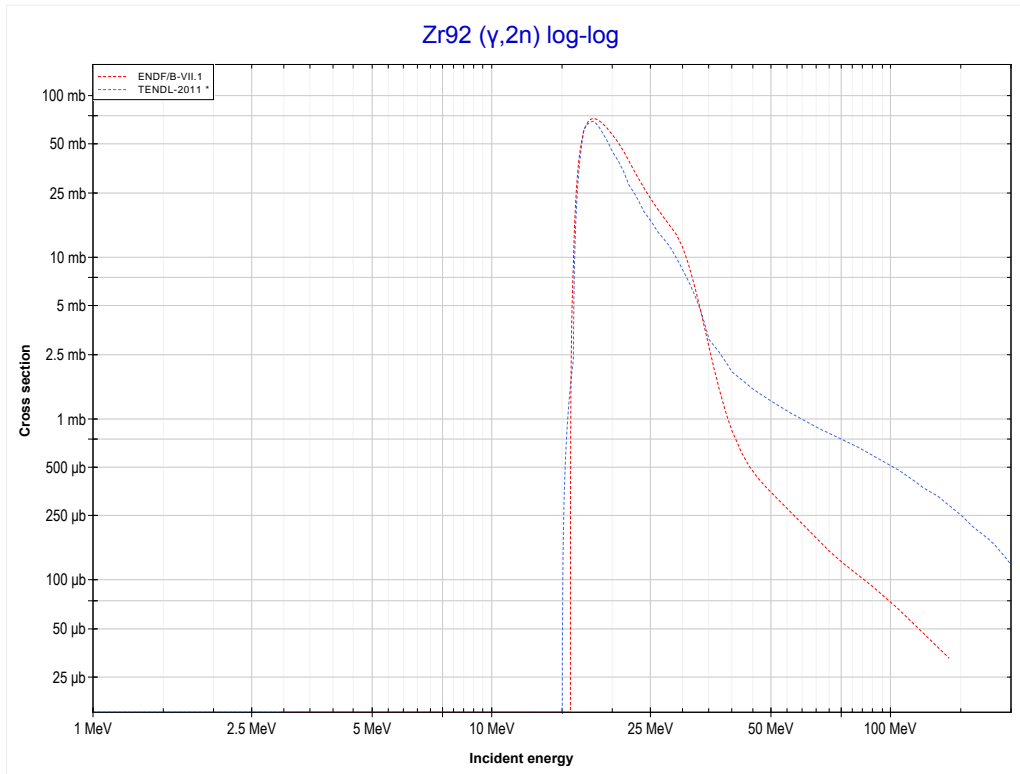
Reaction	Q-Value
Zr91(γ, t)Y88	-18541.11 keV
Zr91($\gamma, n+d$)Y88	-24798.34 keV
Zr91($\gamma, 2n+p$)Y88	-27022.90 keV

<< 40-Zr-91	40-Zr-92	40-Zr-94 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Zr91 production)	MT16 ($\gamma,2n$) >>



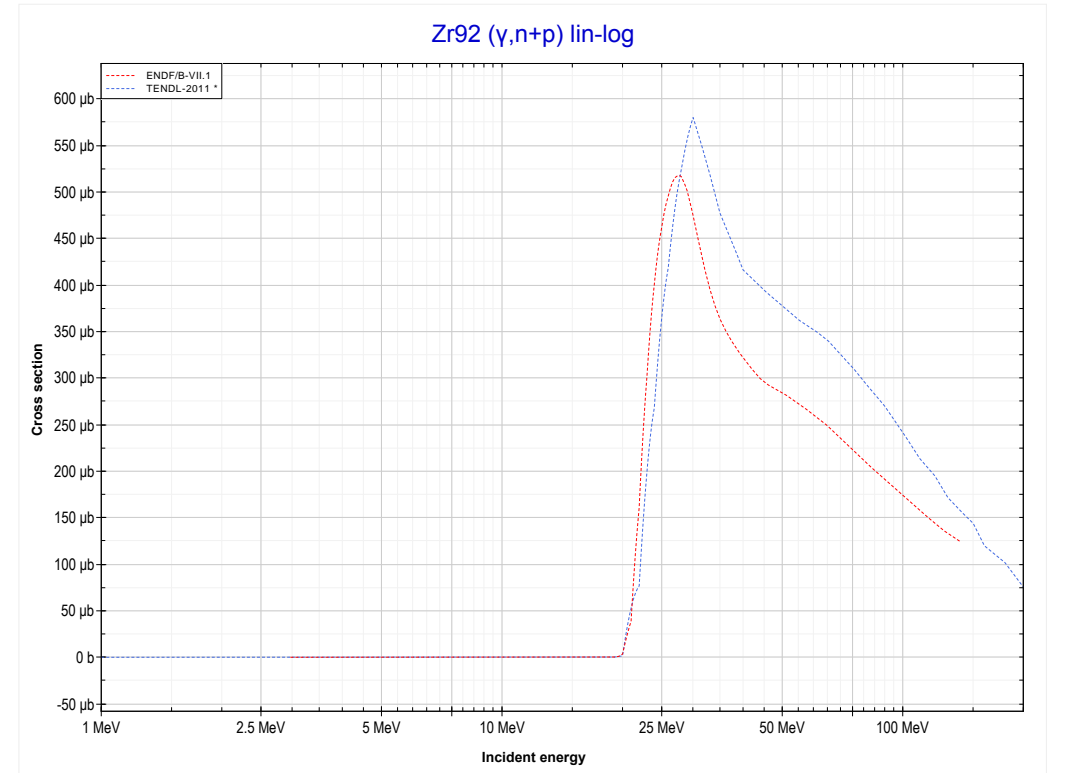
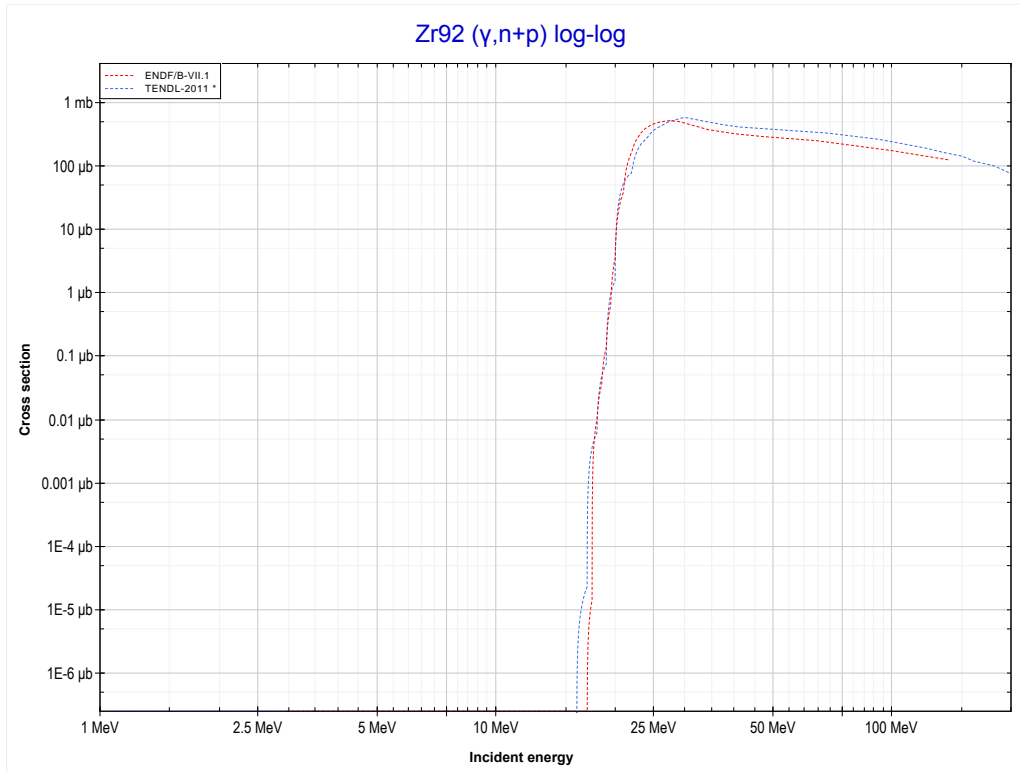
Reaction	Q-Value
Zr92(γ,n)Zr91	-8634.82 keV

<< 40-Zr-91	40-Zr-92	40-Zr-94 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Zr90 production)	MT28 ($\gamma,n+p$) >>



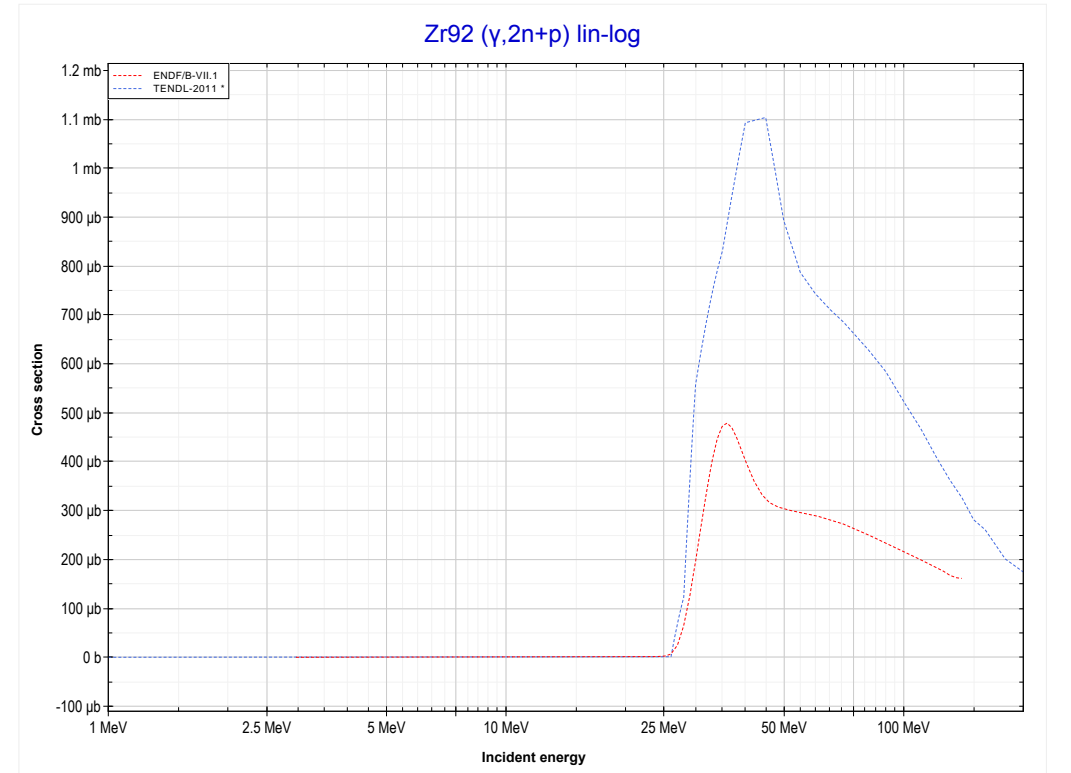
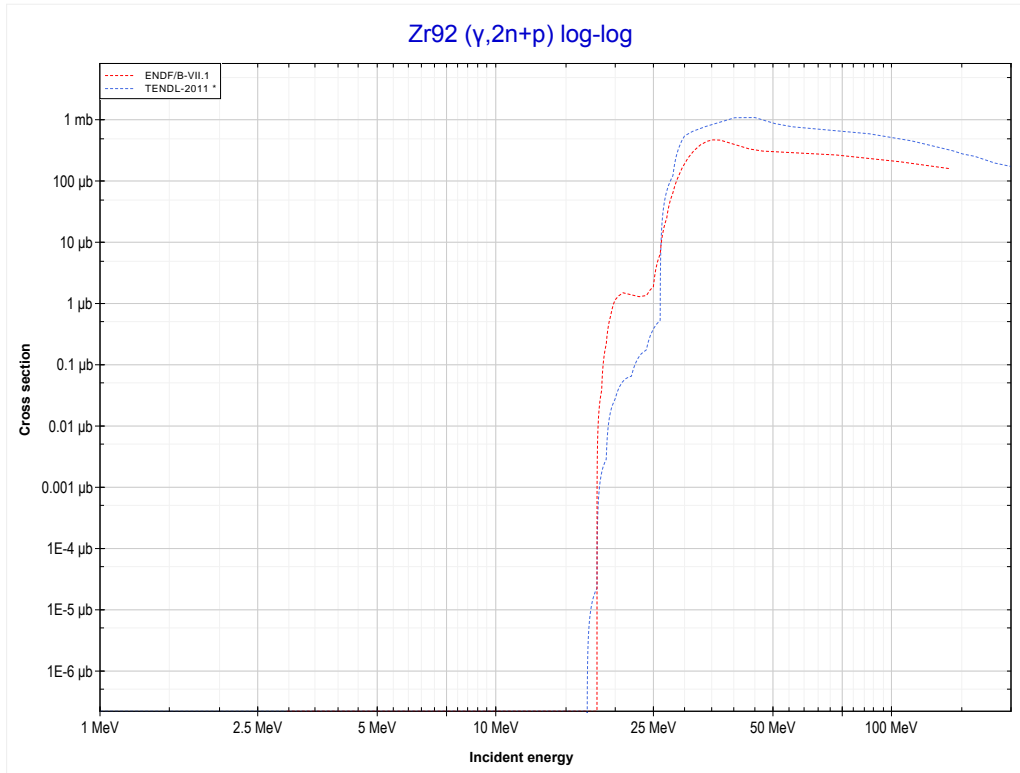
Reaction	Q-Value
Zr92($\gamma,2n$)Zr90	-15829.23 keV

<< 40-Zr-91	40-Zr-92	40-Zr-94 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Y90 production)	MT41 ($\gamma,2n+p$) >>



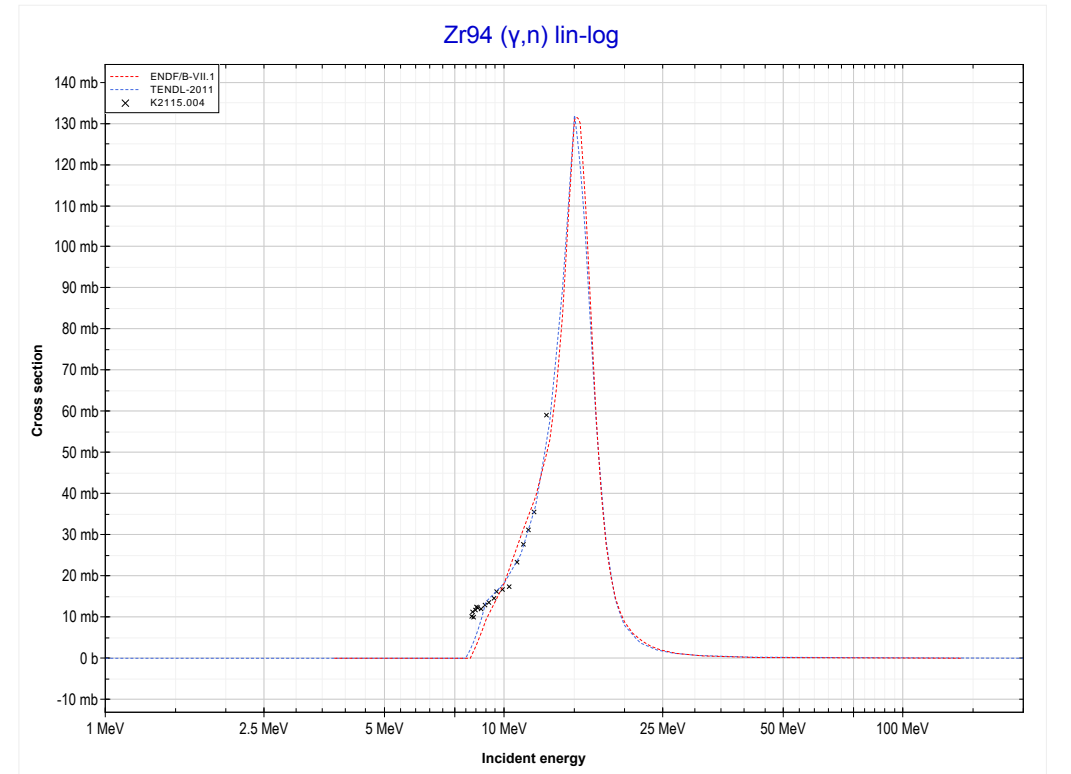
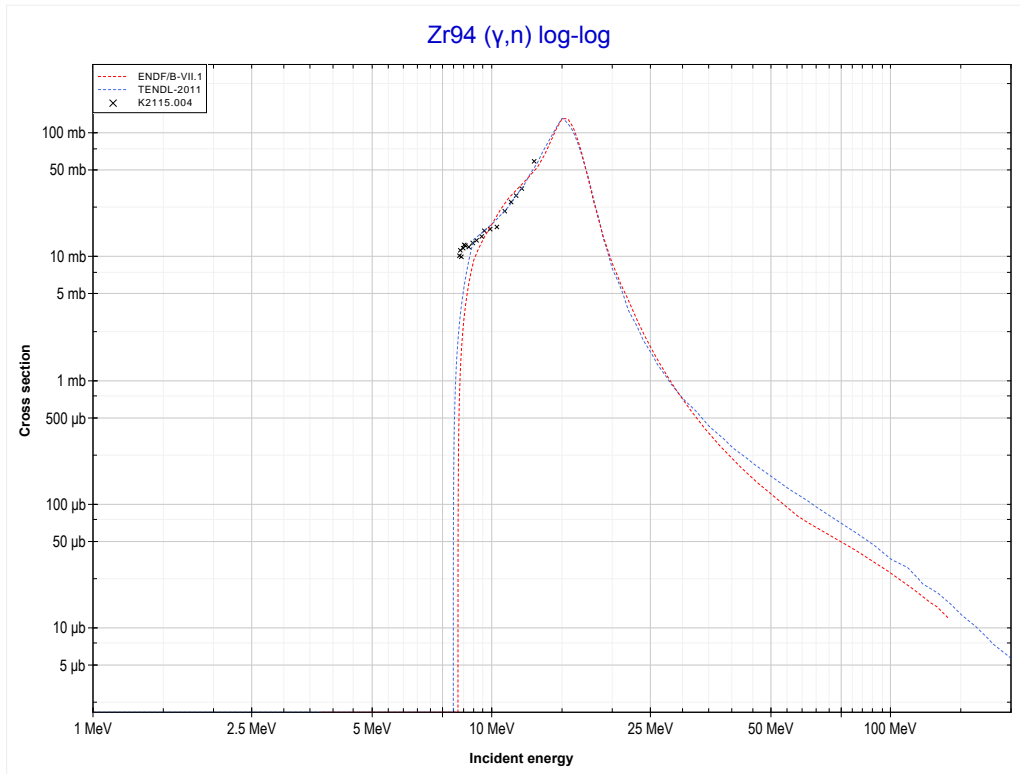
Reaction	Q-Value
Zr92(γ,d)Y90	-15102.12 keV
Zr92($\gamma,n+p$)Y90	-17326.69 keV

<< 40-Zr-91	40-Zr-92	40-Zr-94 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Y89 production)	MT4 (γ, n) >>



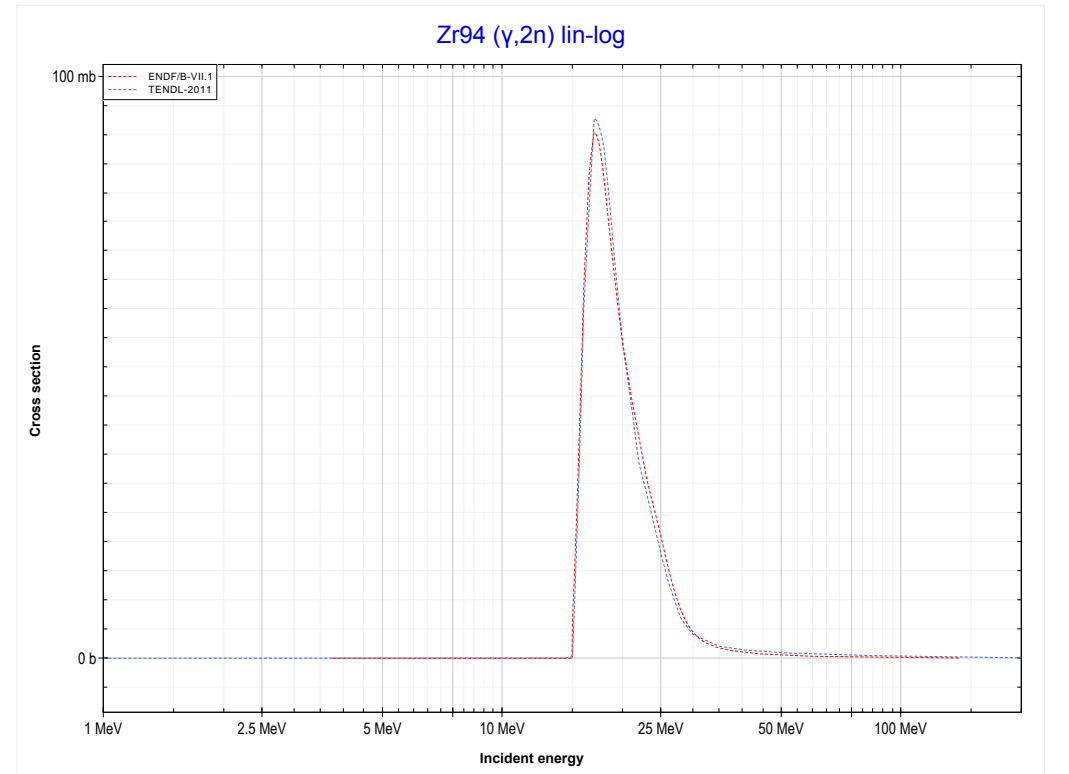
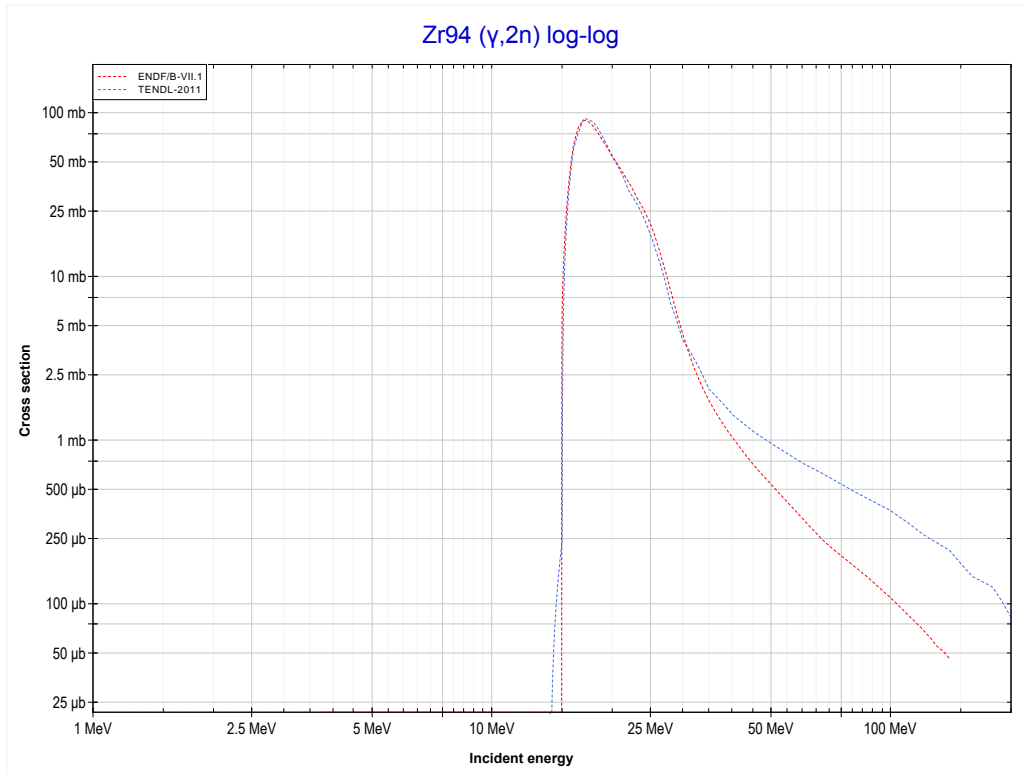
Reaction	Q-Value
Zr92(γ, t)Y89	-15702.01 keV
Zr92($\gamma, n+d$)Y89	-21959.24 keV
Zr92($\gamma, 2n+p$)Y89	-24183.80 keV

<< 40-Zr-92	40-Zr-94	40-Zr-96 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Zr93 production)	MT16 ($\gamma, 2n$) >>



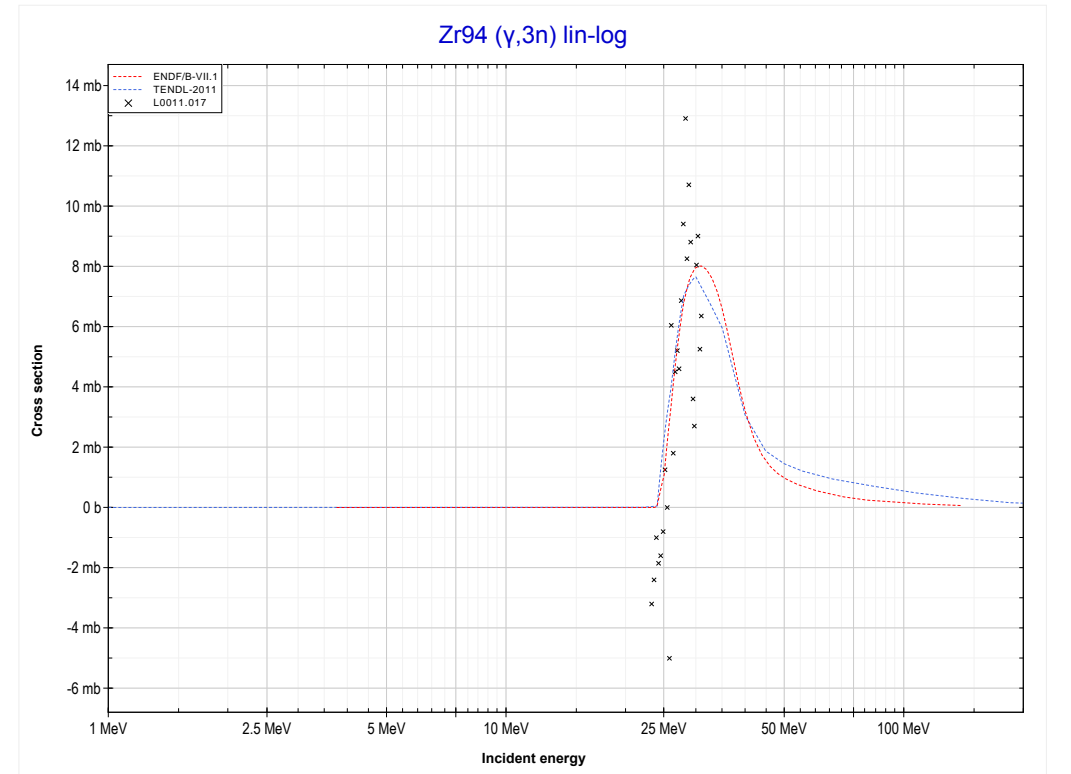
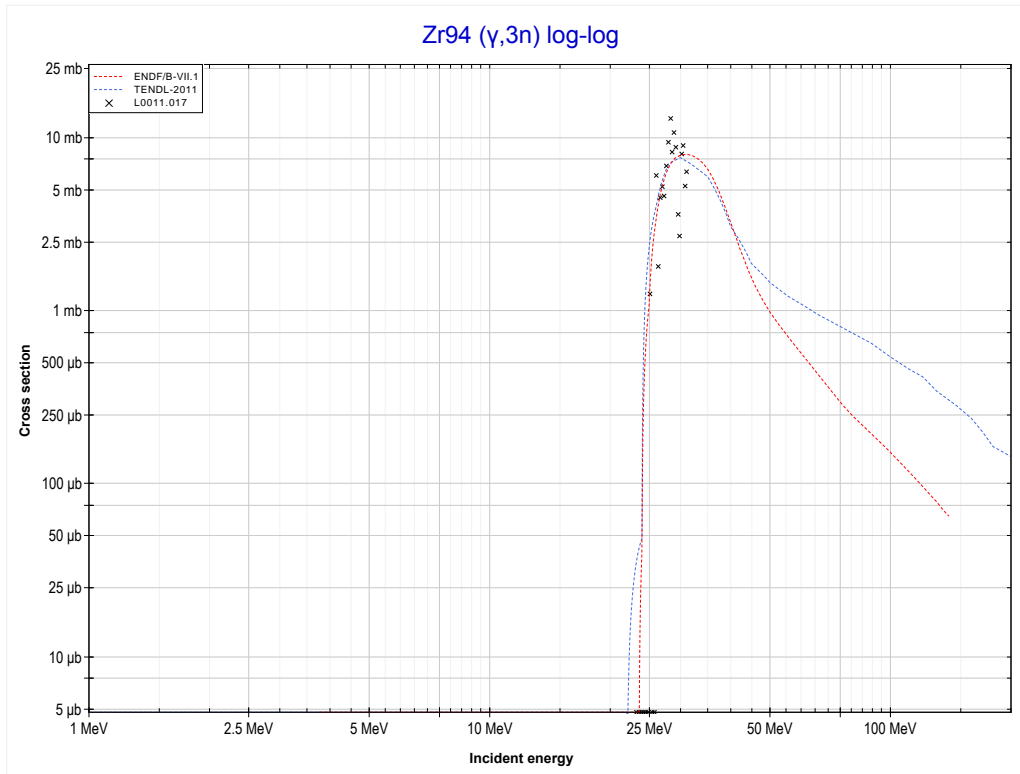
Reaction	Q-Value
Zr94(γ, n)Zr93	-8221.12 keV

<< 40-Zr-92	40-Zr-94	41-Nb-93 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Zr92 production)	MT17 ($\gamma,3n$) >>



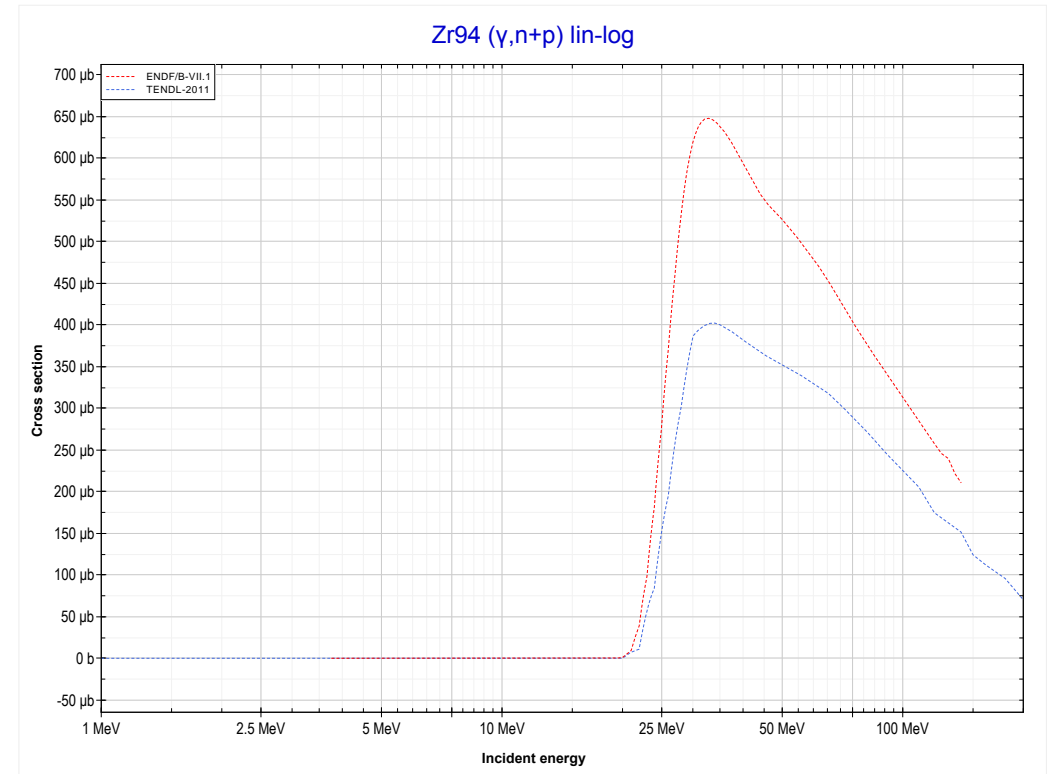
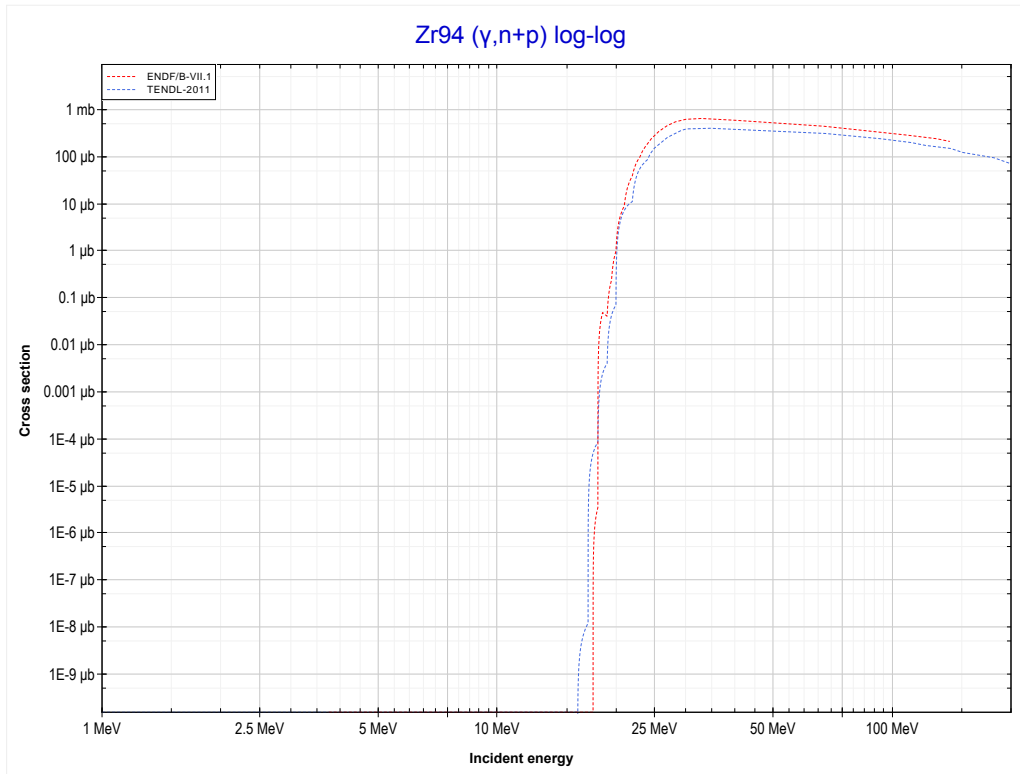
Reaction	Q-Value
Zr94($\gamma,2n$)Zr92	-14955.53 keV

<< 27-Co-59	40-Zr-94	41-Nb-93 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Zr91 production)	MT28 ($\gamma,n+p$) >>



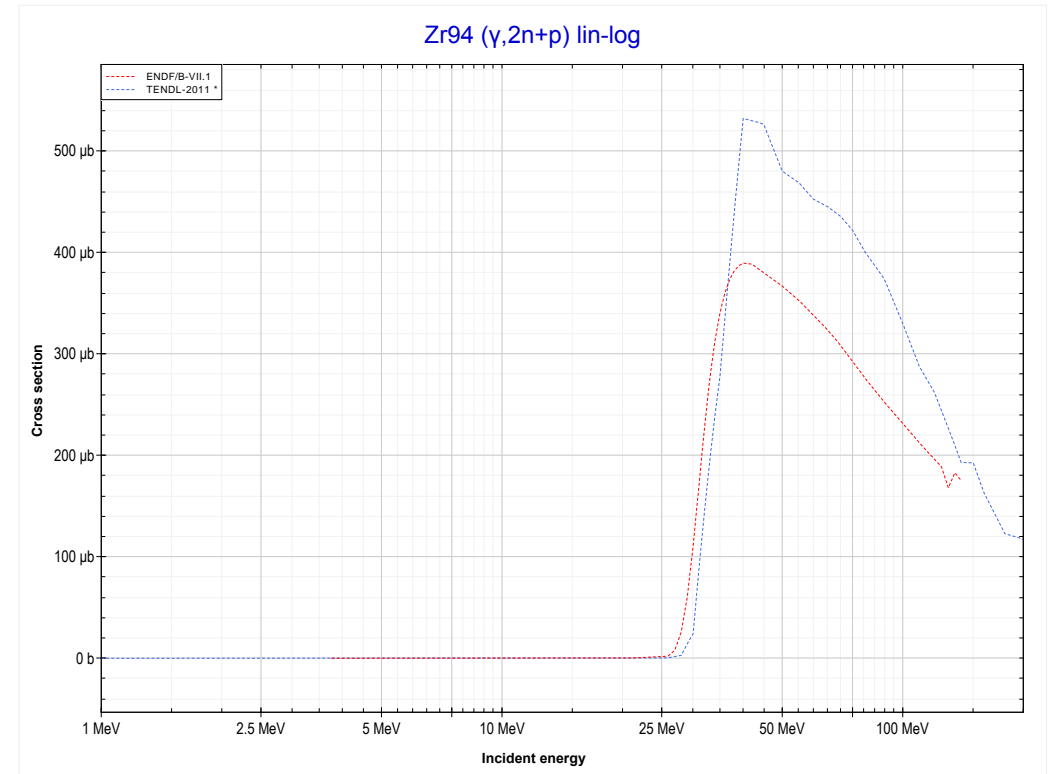
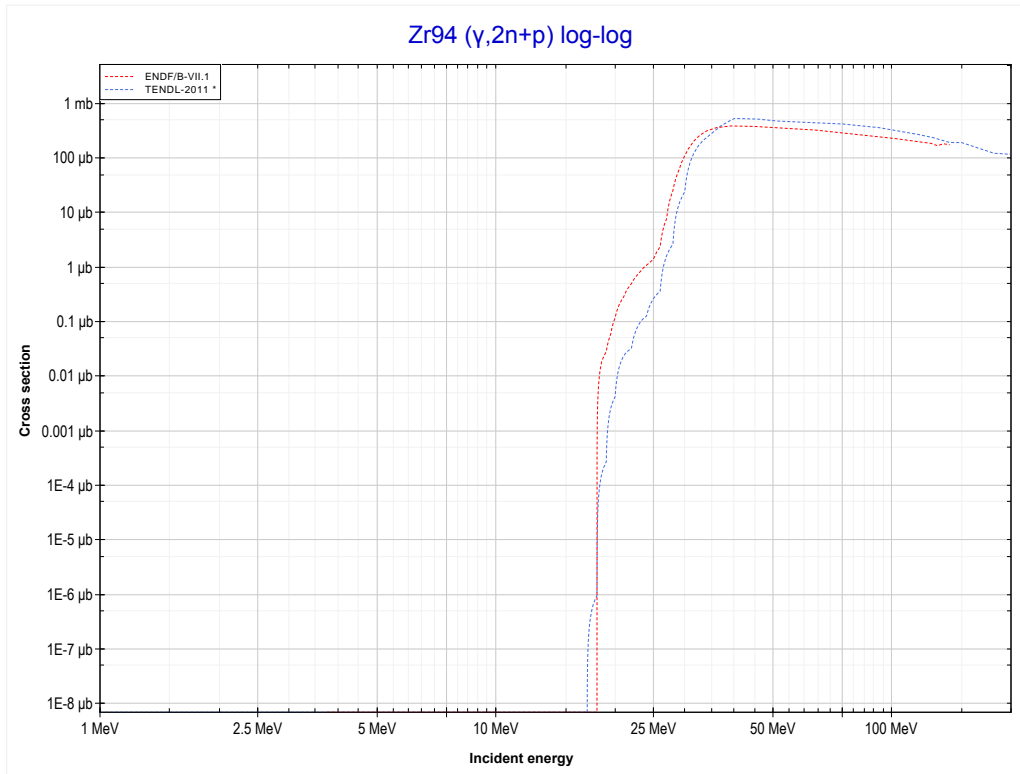
Reaction	Q-Value
Zr94($\gamma,3n$)Zr91	-23590.35 keV

<< 40-Zr-92	40-Zr-94	41-Nb-93 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Y92 production)	MT41 ($\gamma,2n+p$) >>



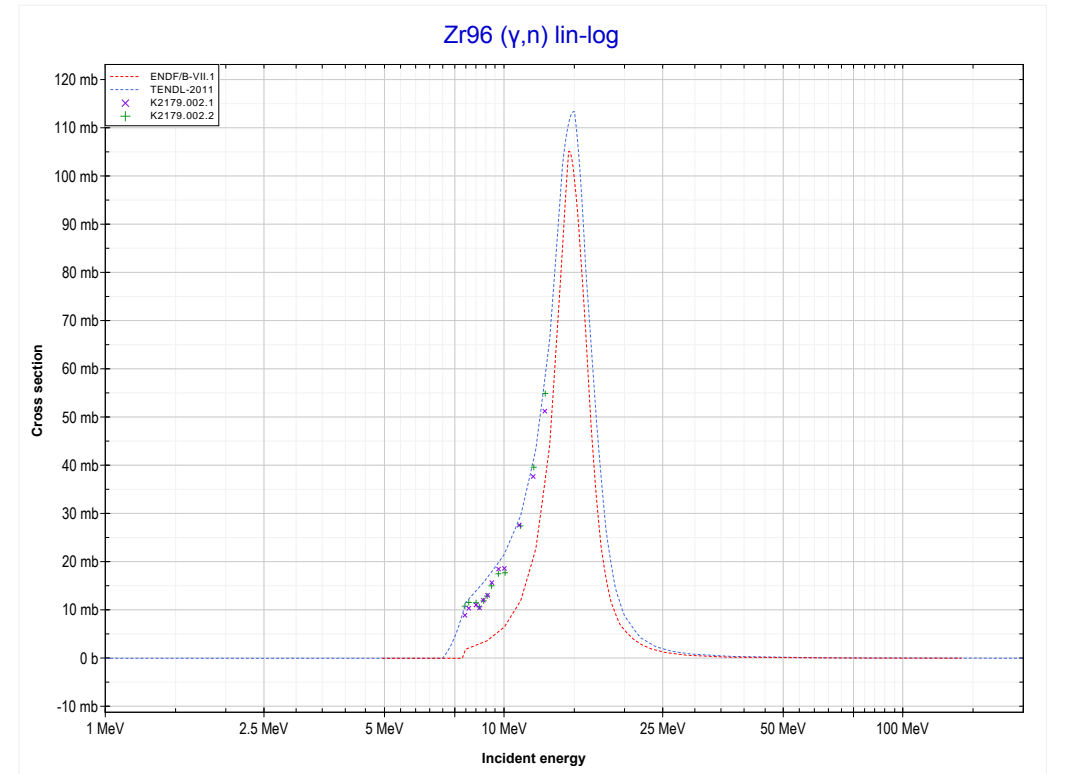
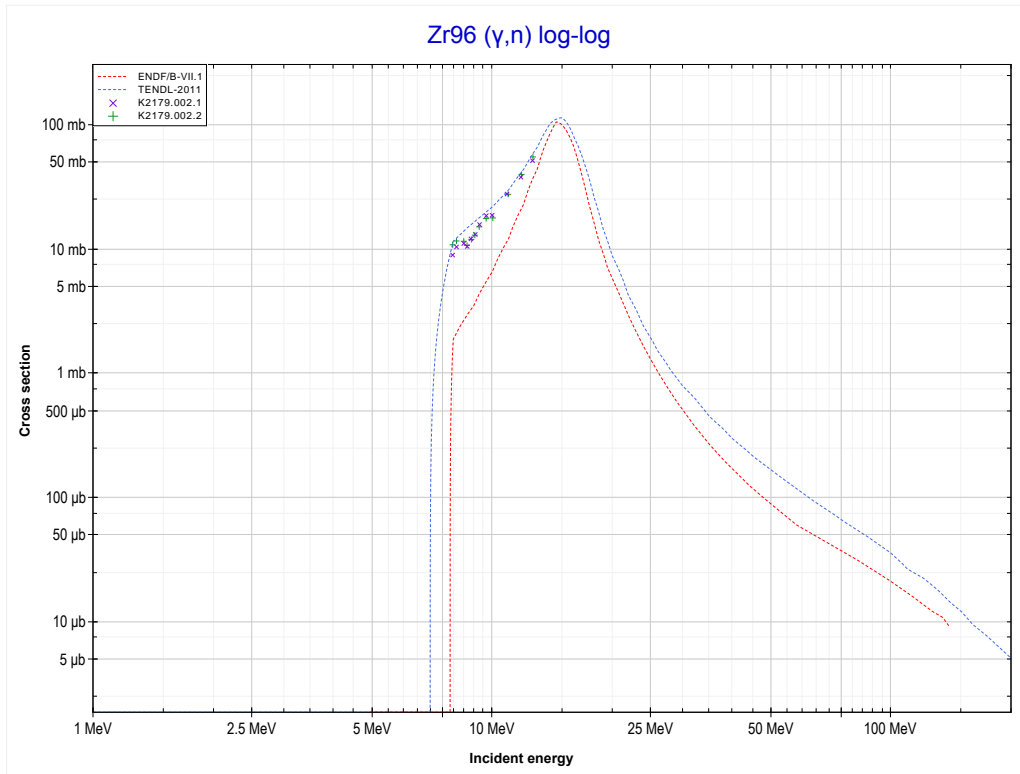
Reaction	Q-Value
Zr94(γ,d)Y92	-15589.52 keV
Zr94($\gamma,n+p$)Y92	-17814.09 keV

<< 40-Zr-92	40-Zr-94	41-Nb-93 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Y91 production)	MT4 (γ, n) >>



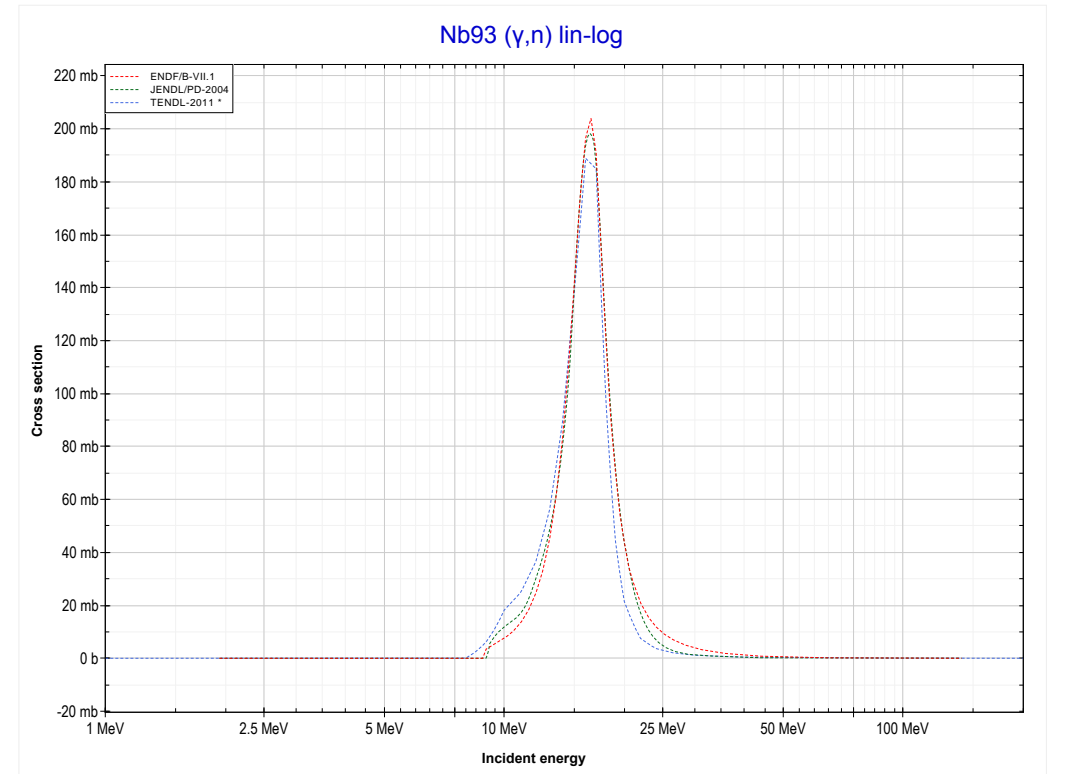
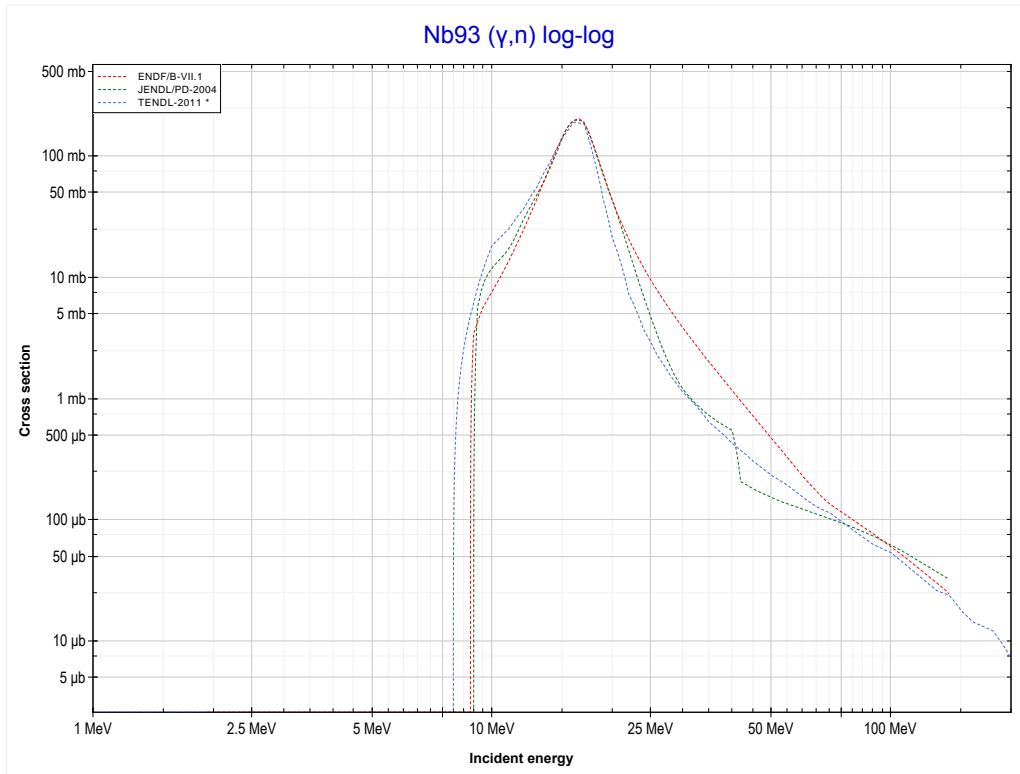
Reaction	Q-Value
Zr94(γ, t)Y91	-15871.61 keV
Zr94($\gamma, n+d$)Y91	-22128.84 keV
Zr94($\gamma, 2n+p$)Y91	-24353.40 keV

<< 40-Zr-94	40-Zr-96	41-Nb-93 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Zr95 production)	MT4 (γ, n) >>



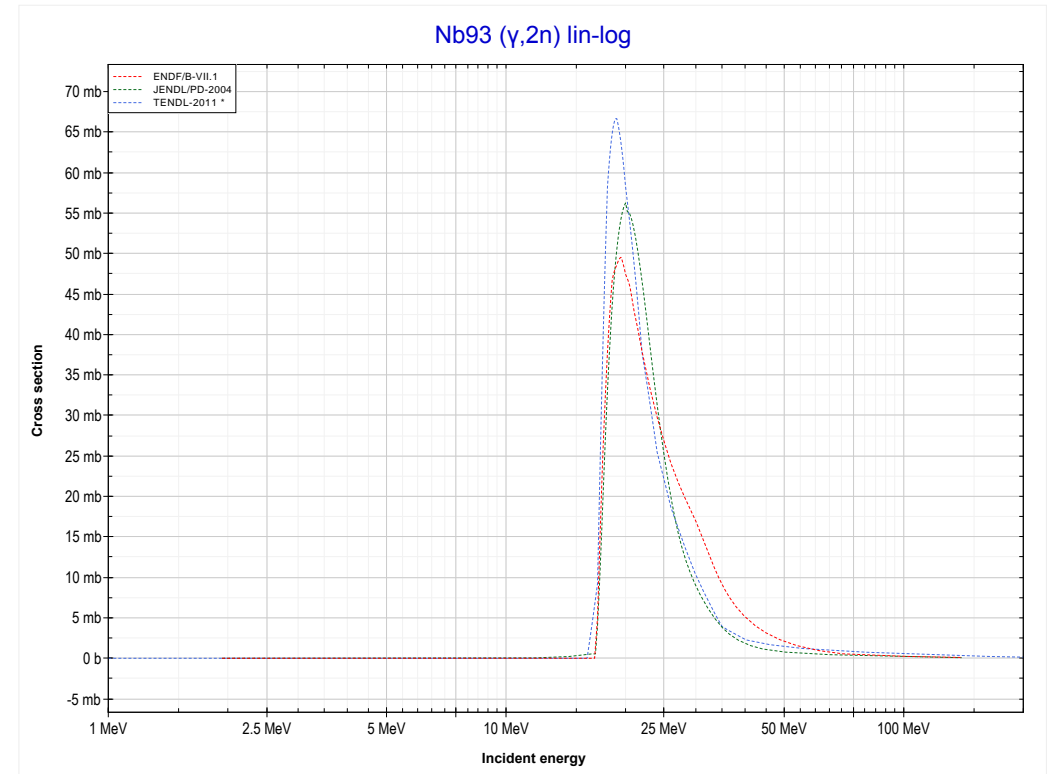
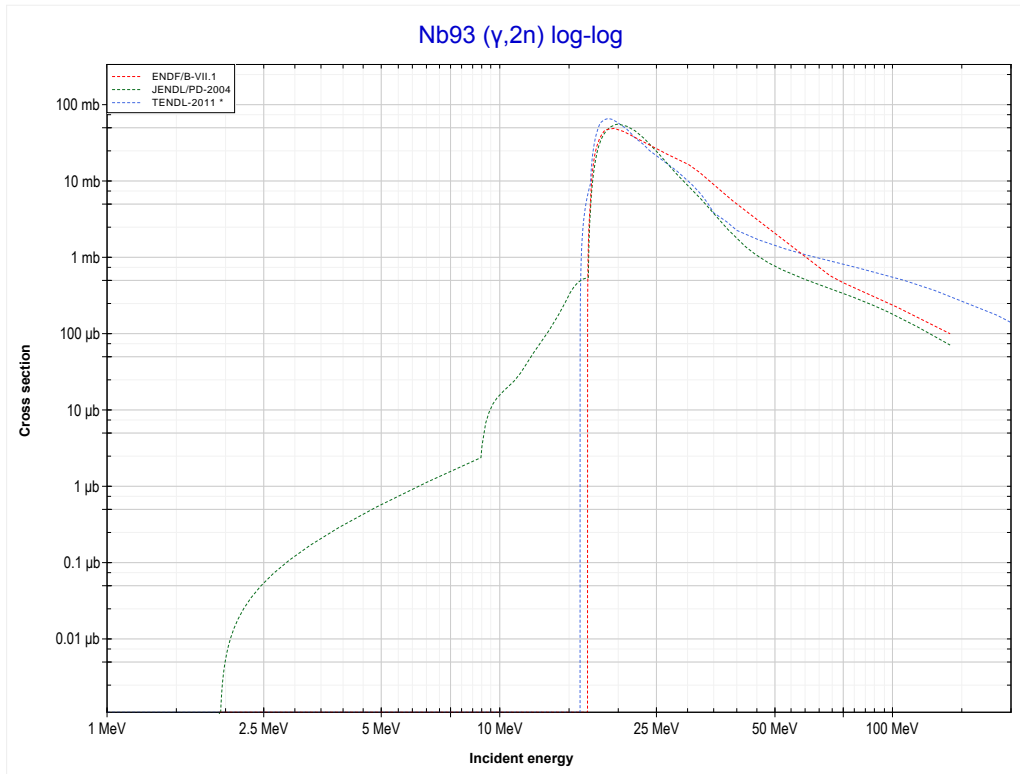
Reaction	Q-Value
Zr96(γ, n)Zr95	-7856.32 keV

<< 40-Zr-96	41-Nb-93	42-Mo-92 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Nb92 production)	MT16 ($\gamma,2n$) >>



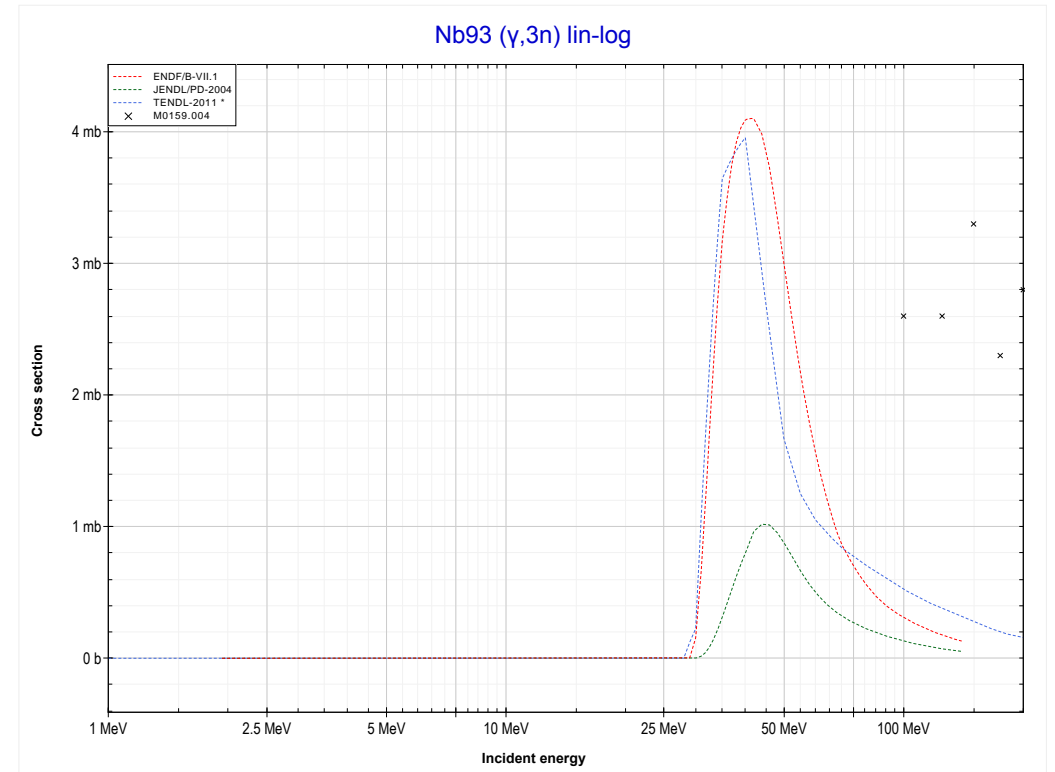
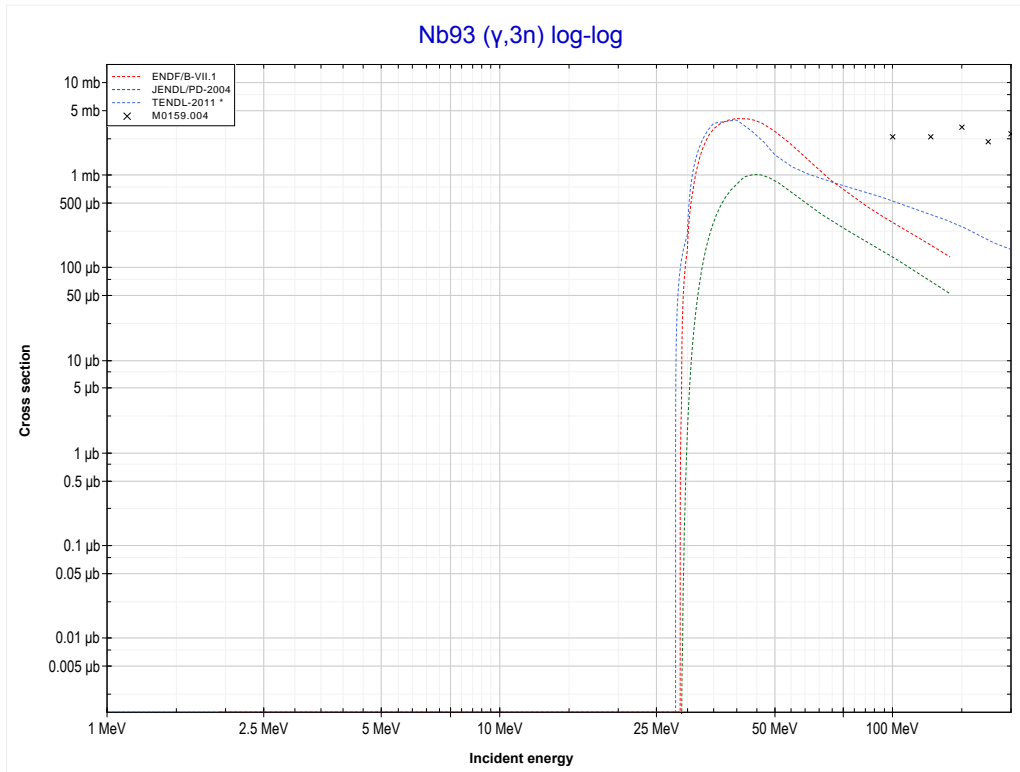
Reaction	Q-Value
Nb93(γ,n)Nb92	-8831.32 keV

<< 40-Zr-94	41-Nb-93	42-Mo-92 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Nb91 production)	MT17 ($\gamma, 3n$) >>



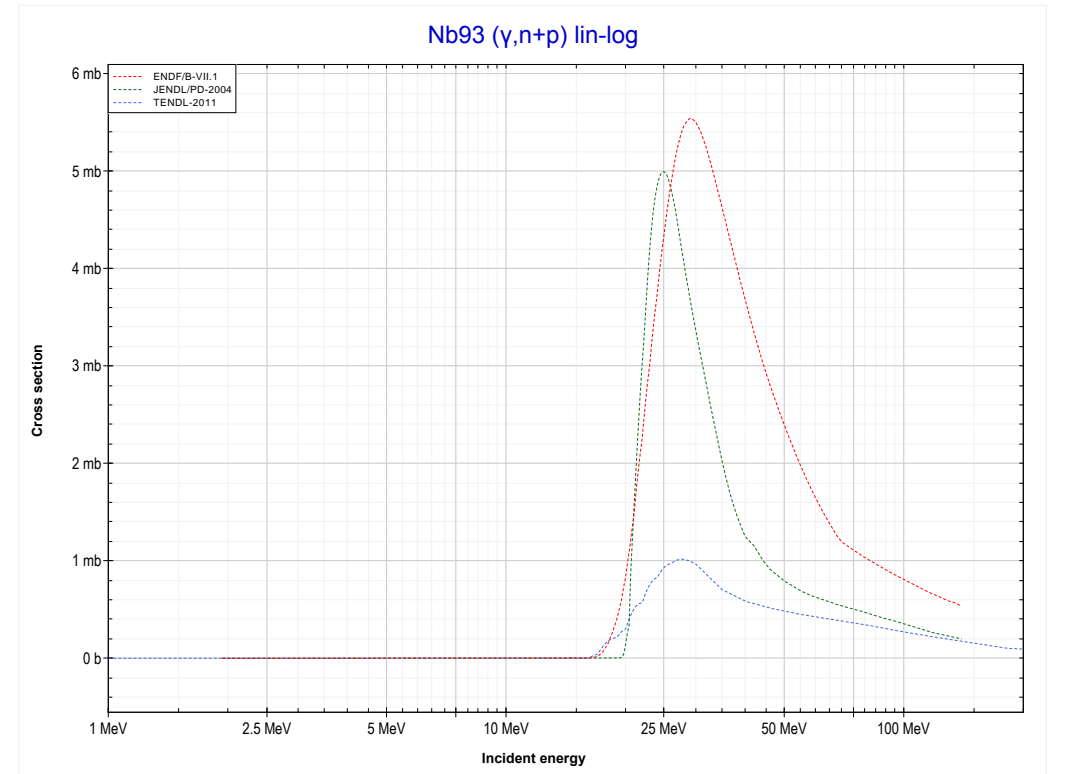
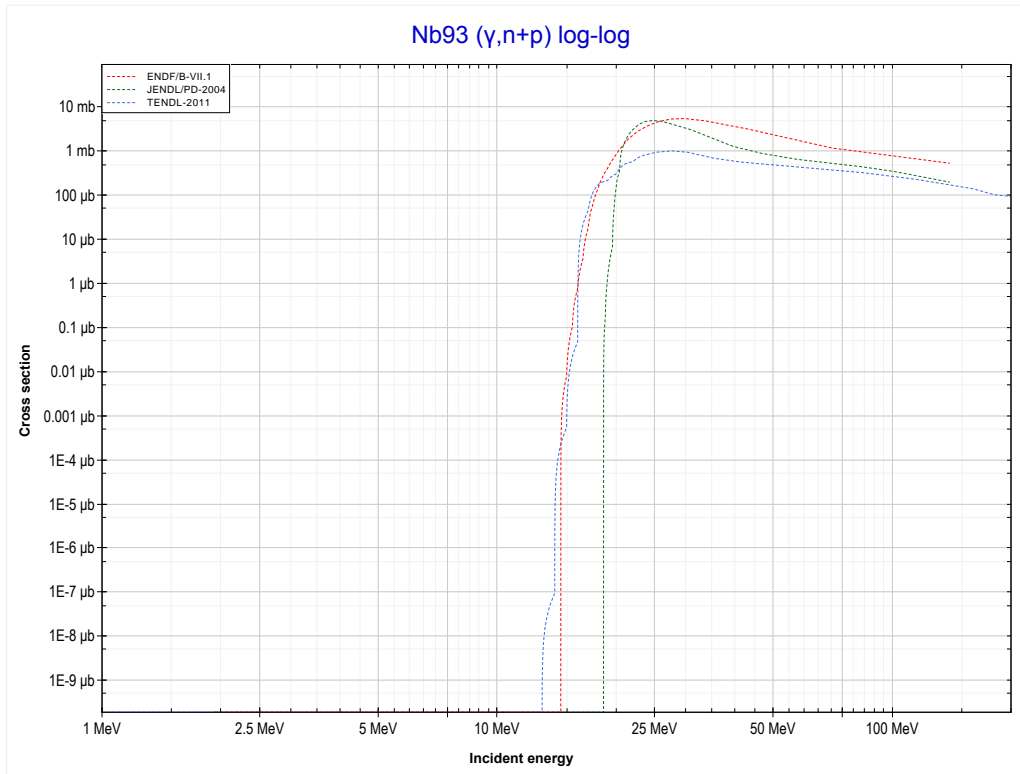
Reaction	Q-Value
Nb93($\gamma, 2n$)Nb91	-16718.93 keV

<< 40-Zr-94	41-Nb-93	42-Mo-96 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Nb90 production)	MT28 ($\gamma,n+p$) >>



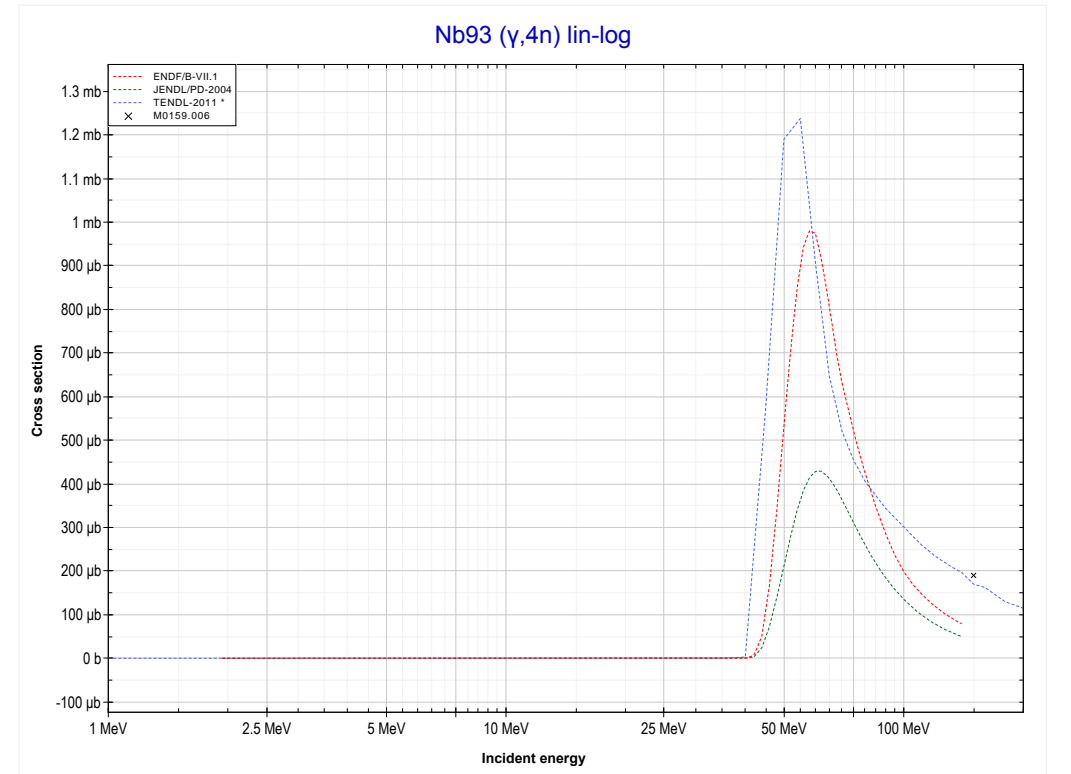
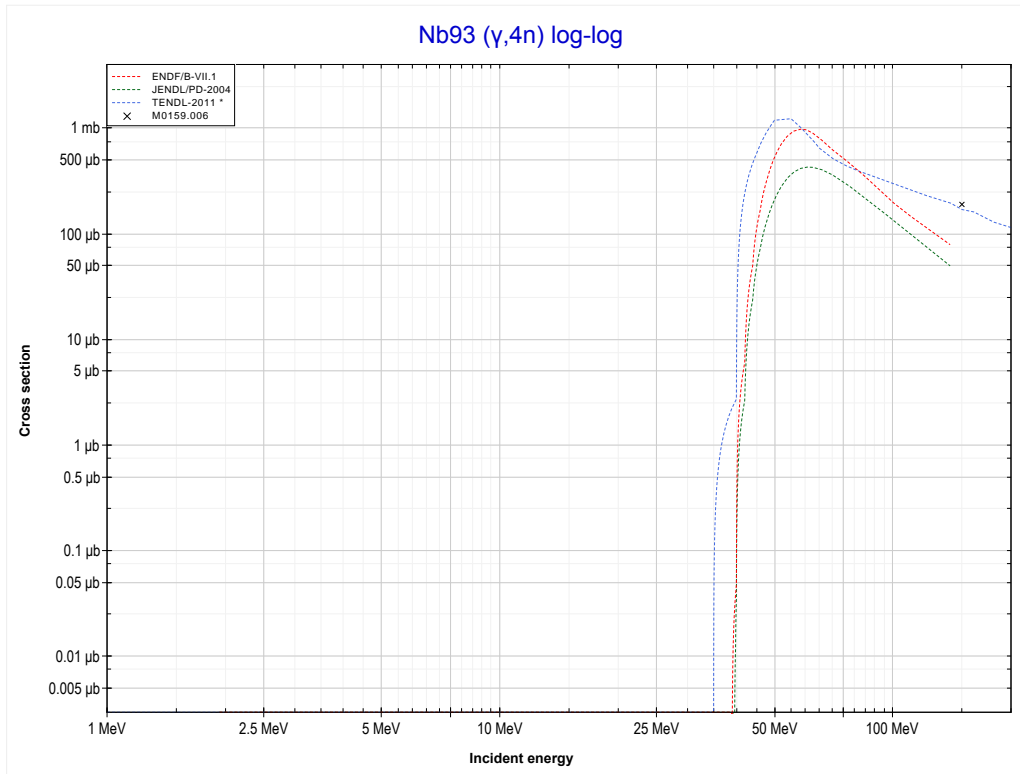
Reaction	Q-Value
Nb93($\gamma,3n$)Nb90	-28766.25 keV

<< 40-Zr-94	41-Nb-93	42-Mo-92 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Zr91 production)	MT37 ($\gamma,4n$) >>



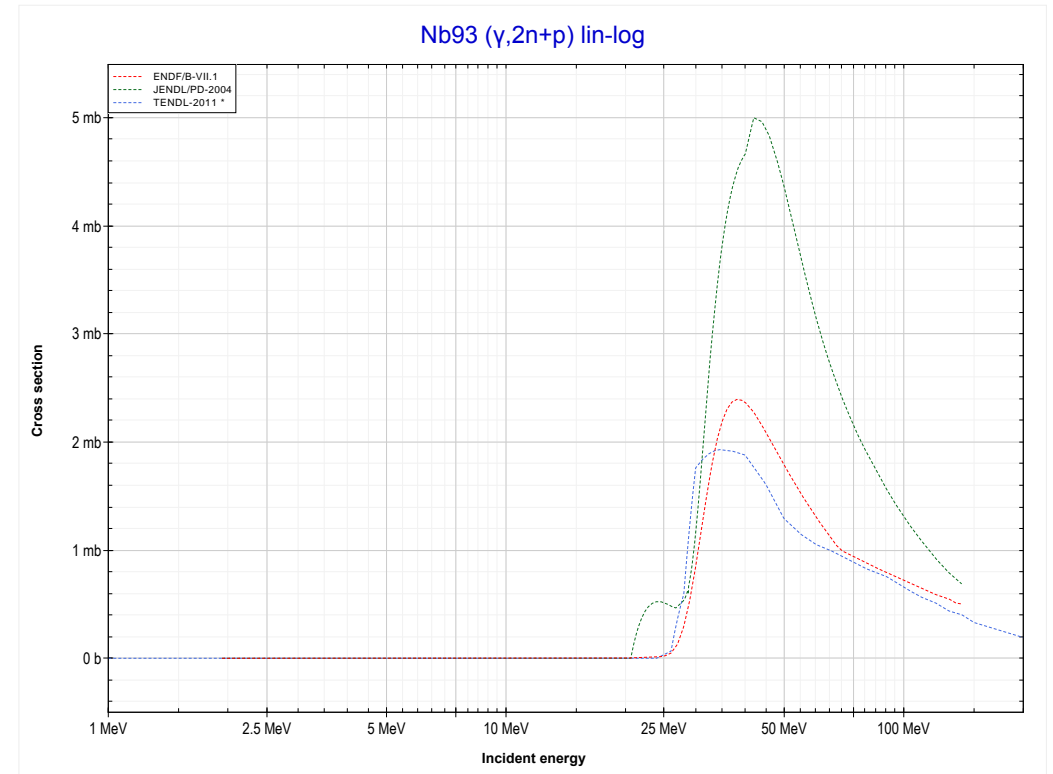
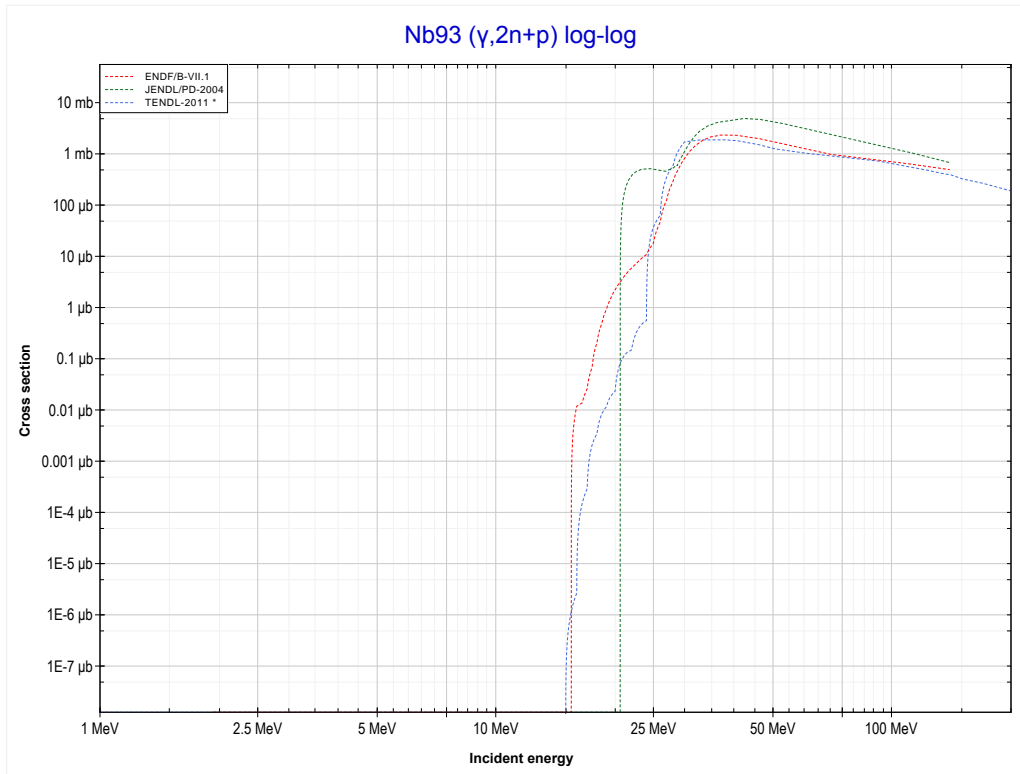
Reaction	Q-Value
Nb93(γ,d)Zr91	-12453.62 keV
Nb93($\gamma,n+p$)Zr91	-14678.19 keV

	41-Nb-93	82-Pb-208 >>
<< MT28 ($\gamma, n+p$)	MT37 ($\gamma, 4n$) or MT5 (Nb89 production)	MT41 ($\gamma, 2n+p$) >>



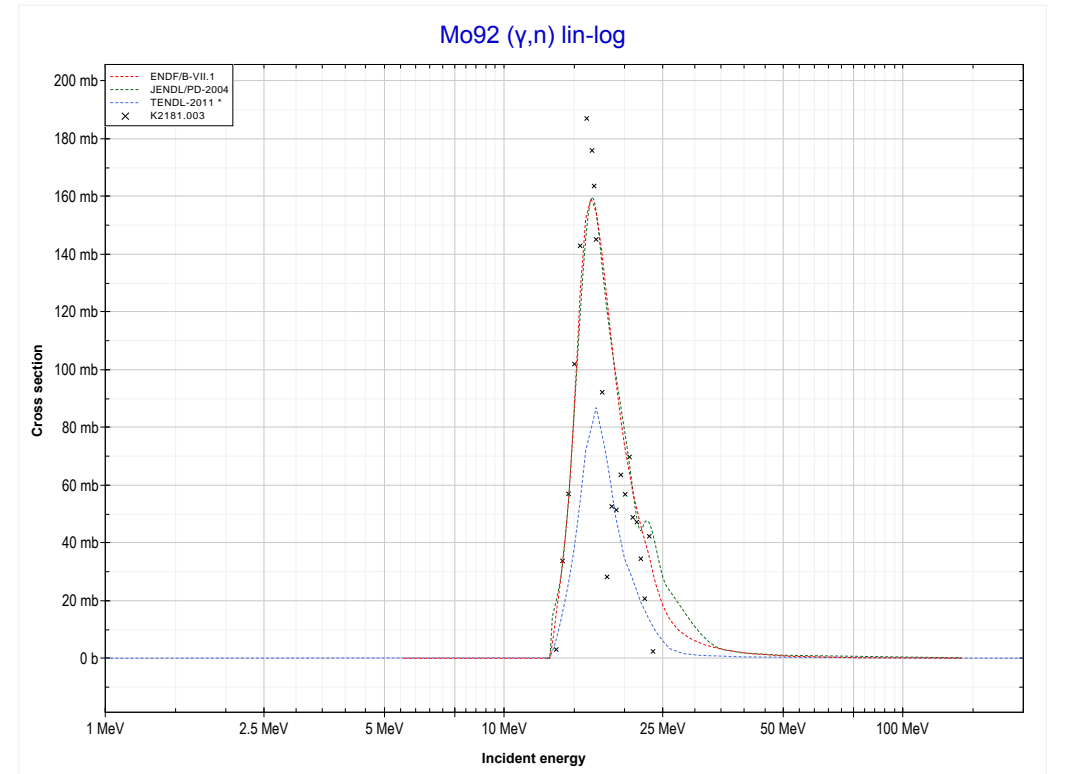
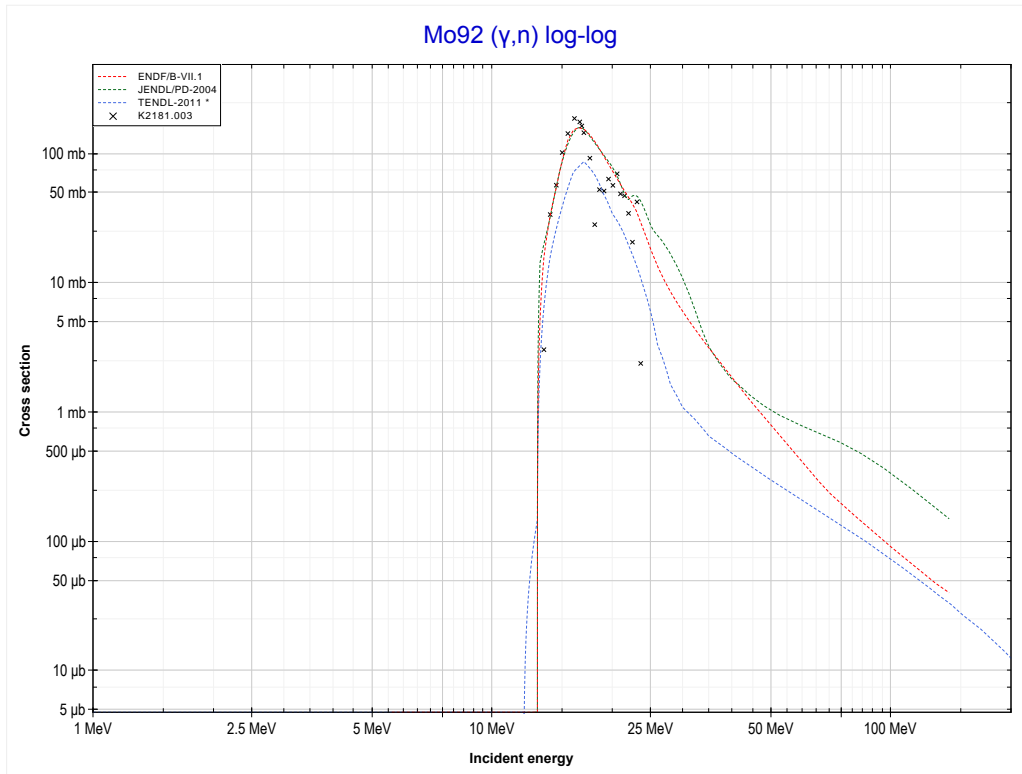
Reaction	Q-Value
Nb93($\gamma, 4n$)Nb89	-38843.57 keV

<< 40-Zr-94	41-Nb-93	42-Mo-92 >>
<< MT37 ($\gamma,4n$)	MT41 ($\gamma,2n+p$) or MT5 (Zr90 production)	MT4 (γ,n) >>



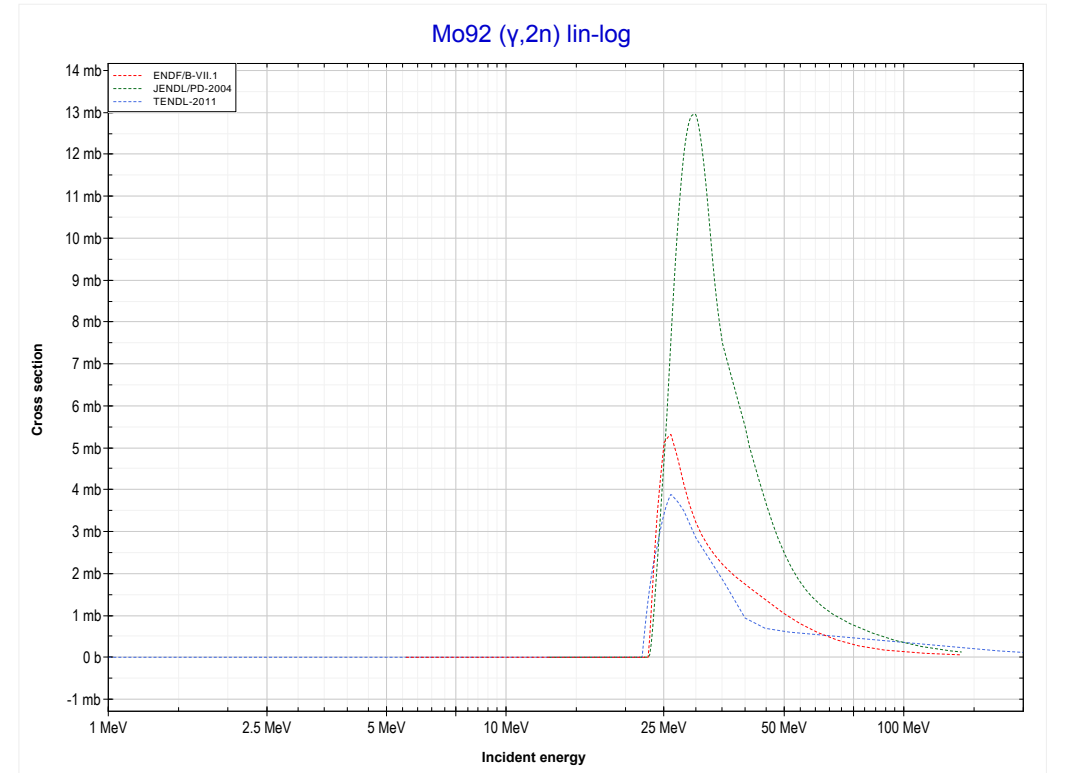
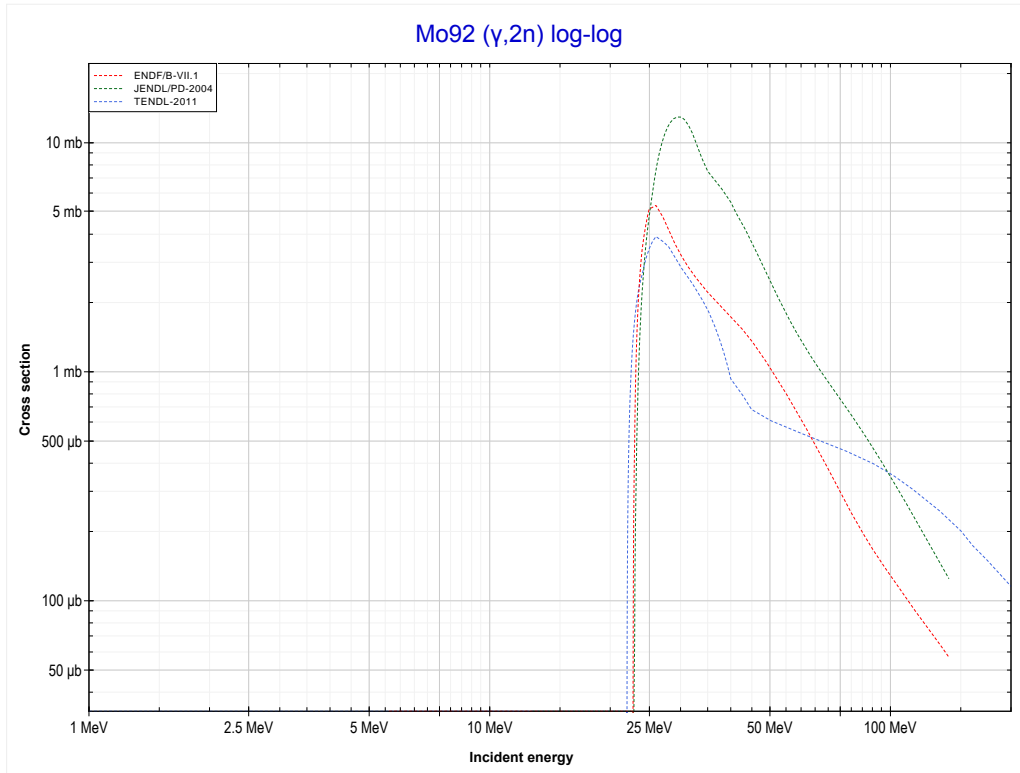
Reaction	Q-Value
Nb93(γ,t)Zr90	-13390.81 keV
Nb93($\gamma,n+d$)Zr90	-19648.04 keV
Nb93($\gamma,2n+p$)Zr90	-21872.60 keV

<< 41-Nb-93	42-Mo-92	42-Mo-94 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Mo91 production)	MT16 ($\gamma,2n$) >>



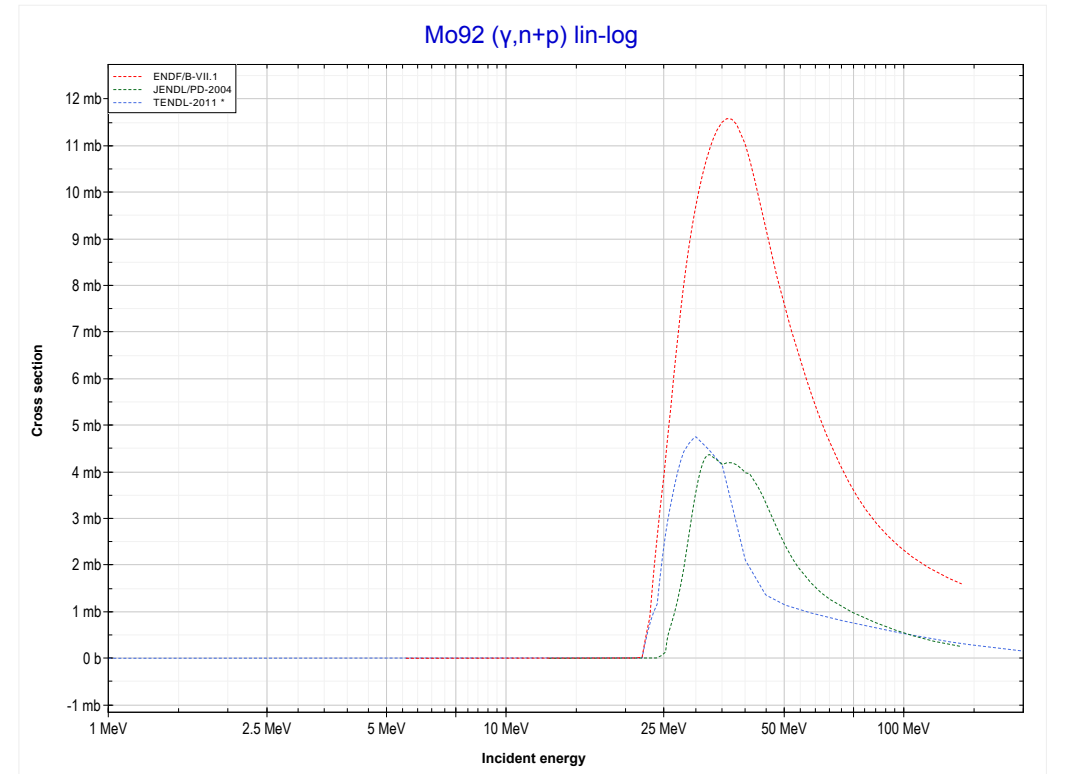
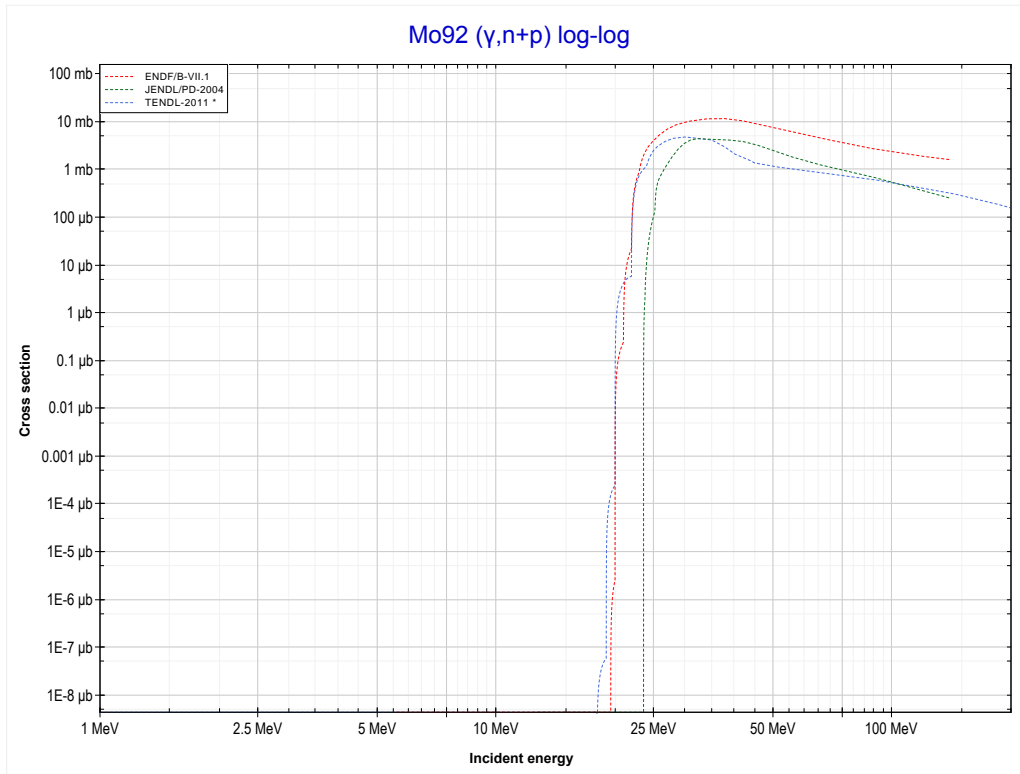
Reaction	Q-Value
Mo92(γ,n)Mo91	-12672.32 keV

<< 41-Nb-93	42-Mo-92	42-Mo-94 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Mo90 production)	MT28 ($\gamma,n+p$) >>



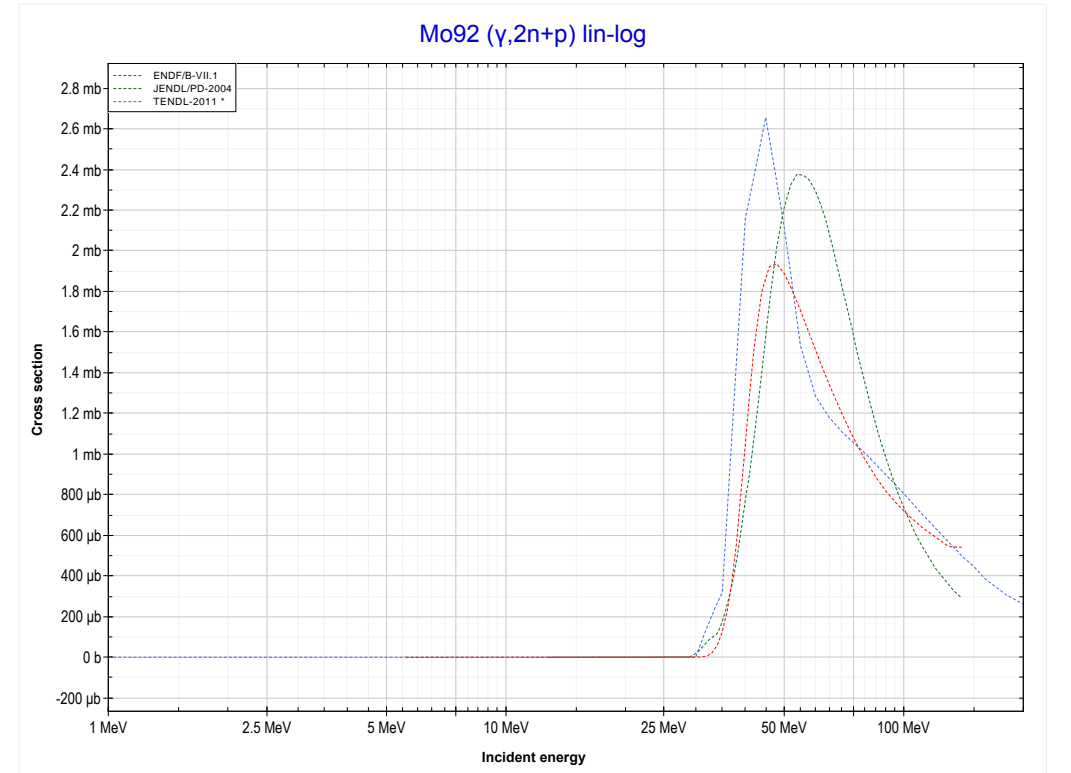
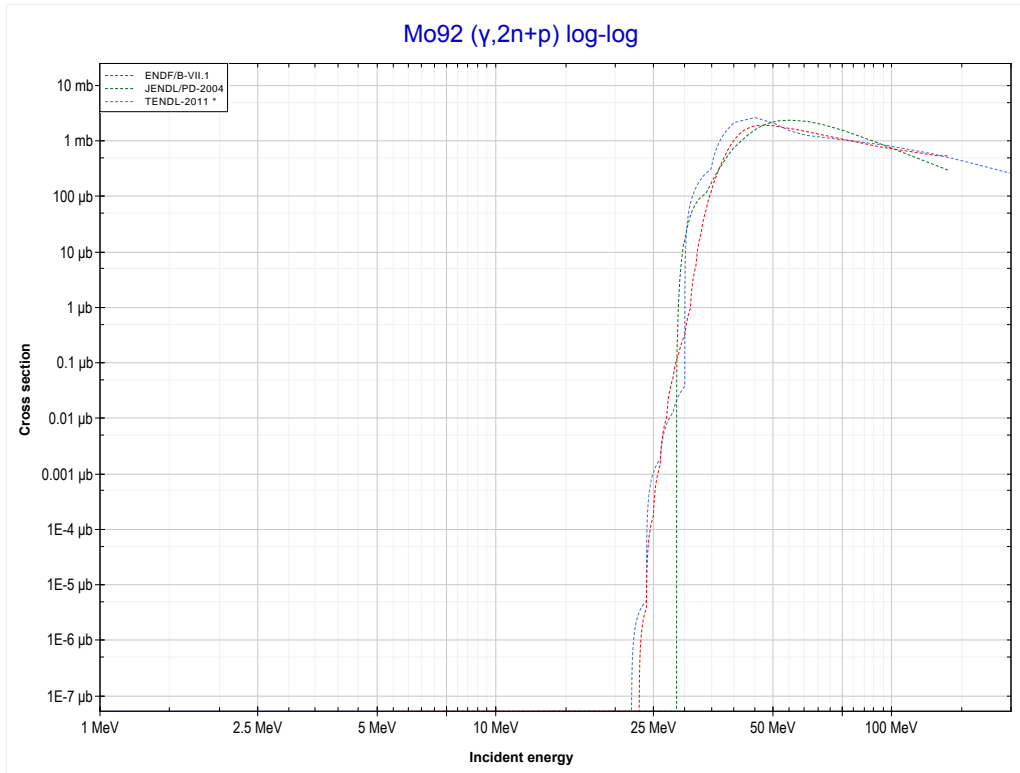
Reaction	Q-Value
Mo92($\gamma,2n$)Mo90	-22780.63 keV

<< 41-Nb-93	42-Mo-92	42-Mo-94 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Nb90 production)	MT41 ($\gamma,2n+p$) >>



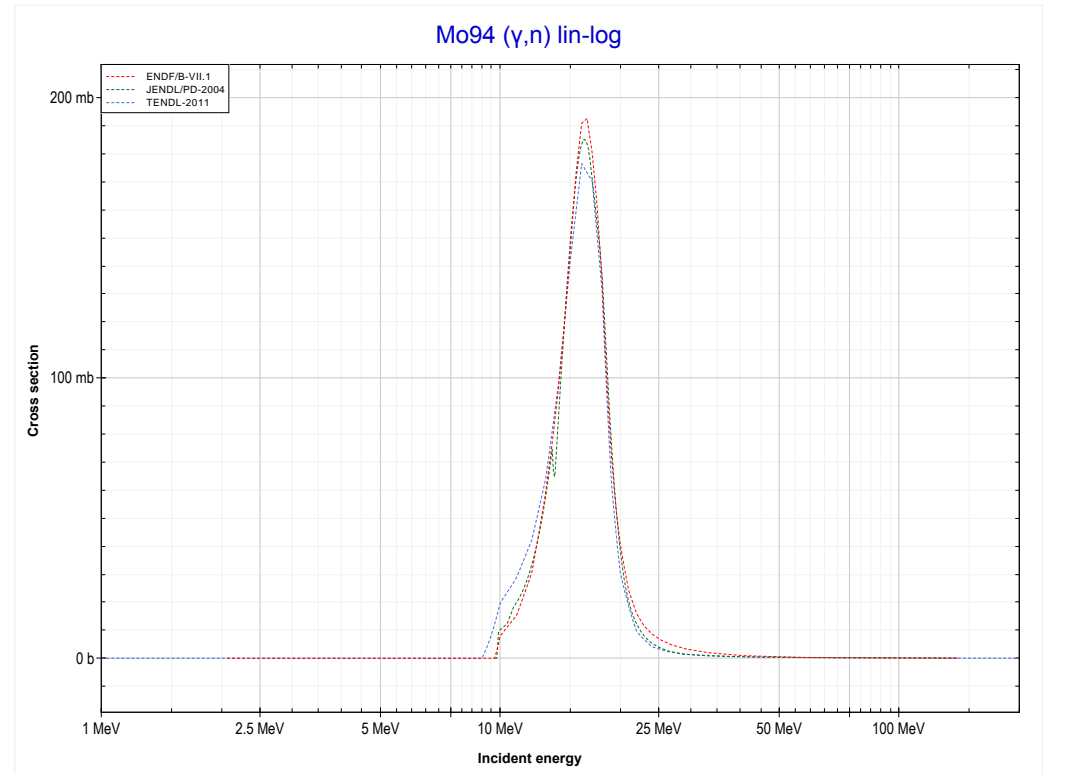
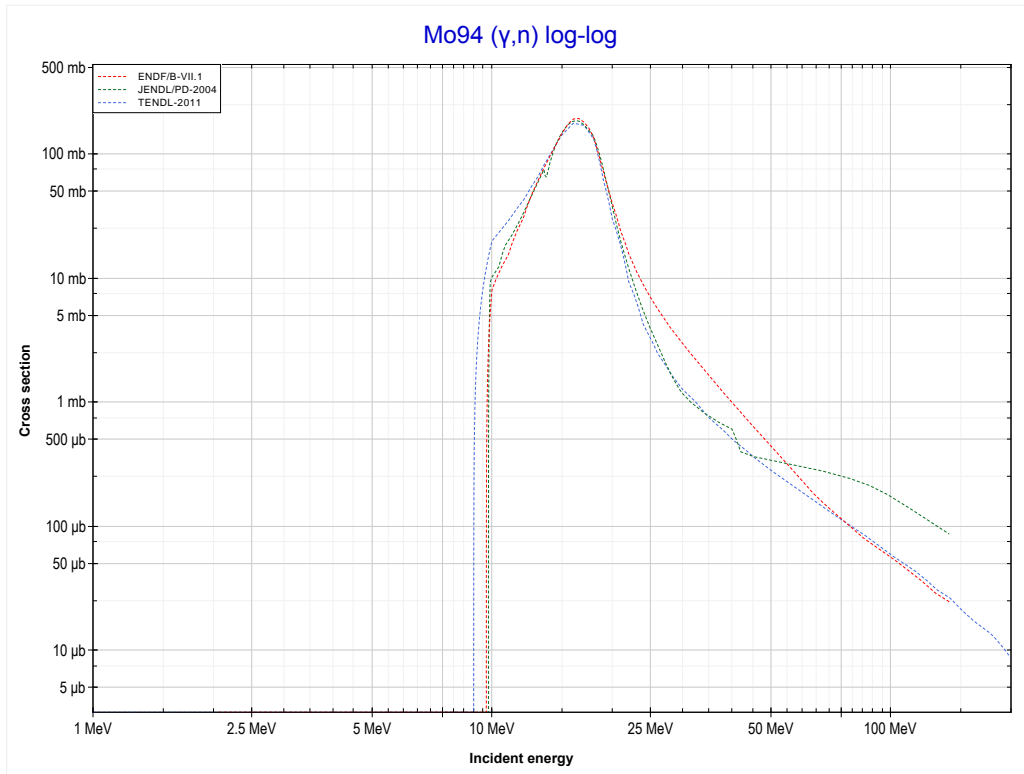
Reaction	Q-Value
Mo92(γ,d)Nb90	-17284.72 keV
Mo92($\gamma,n+p$)Nb90	-19509.29 keV

<< 41-Nb-93	42-Mo-92	42-Mo-94 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Nb89 production)	MT4 (γ, n) >>



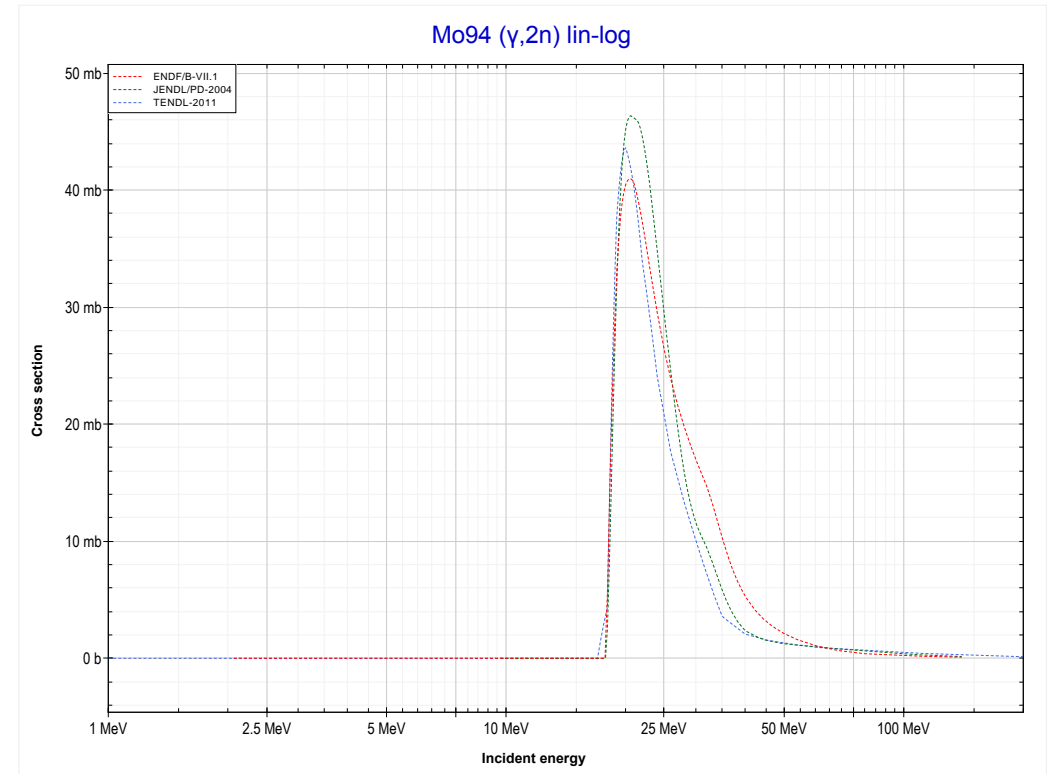
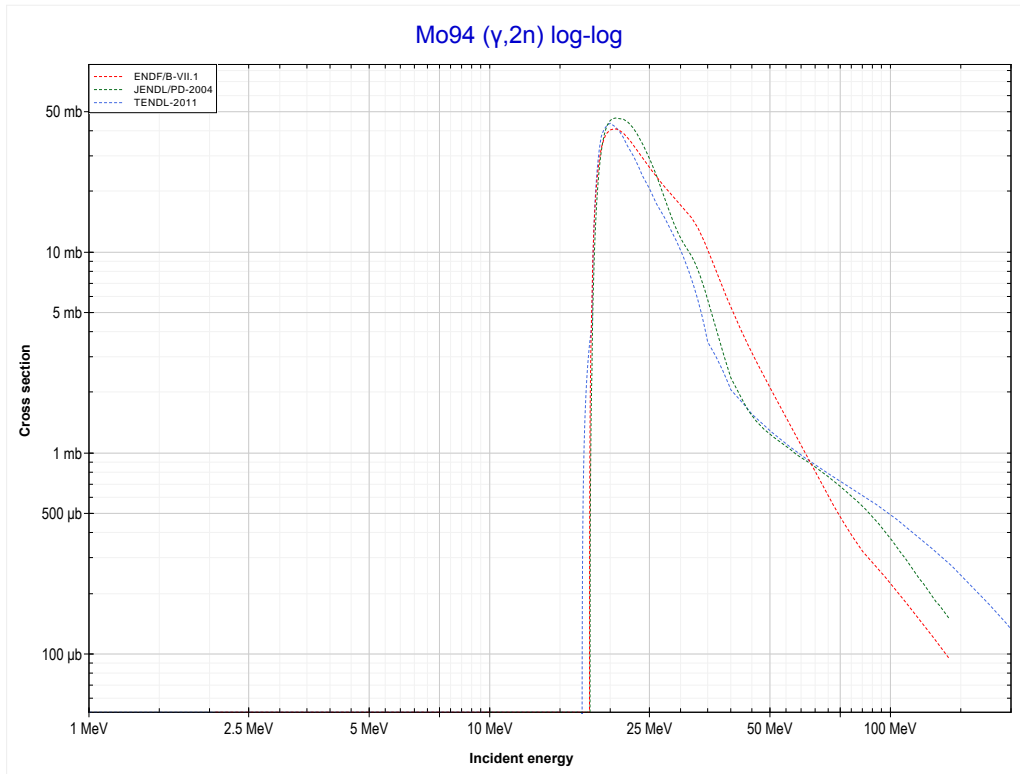
Reaction	Q-Value
Mo92(γ, t)Nb89	-21104.81 keV
Mo92($\gamma, n+d$)Nb89	-27362.04 keV
Mo92($\gamma, 2n+p$)Nb89	-29586.60 keV

<< 42-Mo-92	42-Mo-94	42-Mo-96 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Mo93 production)	MT16 ($\gamma, 2n$) >>



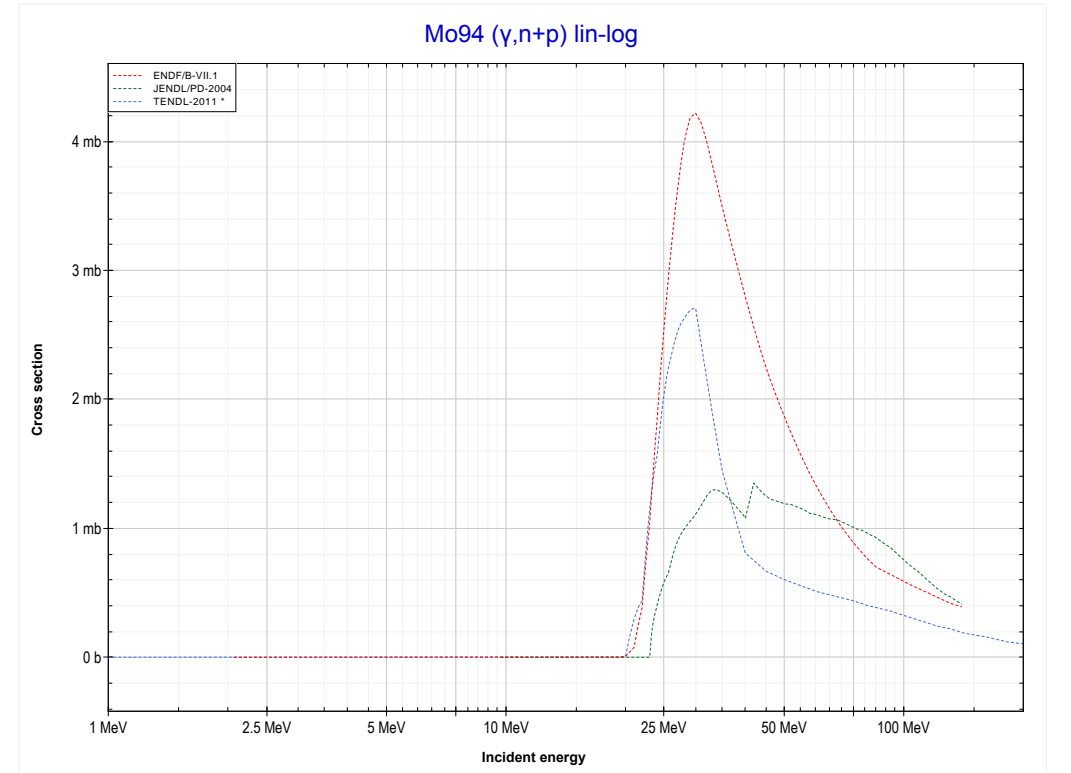
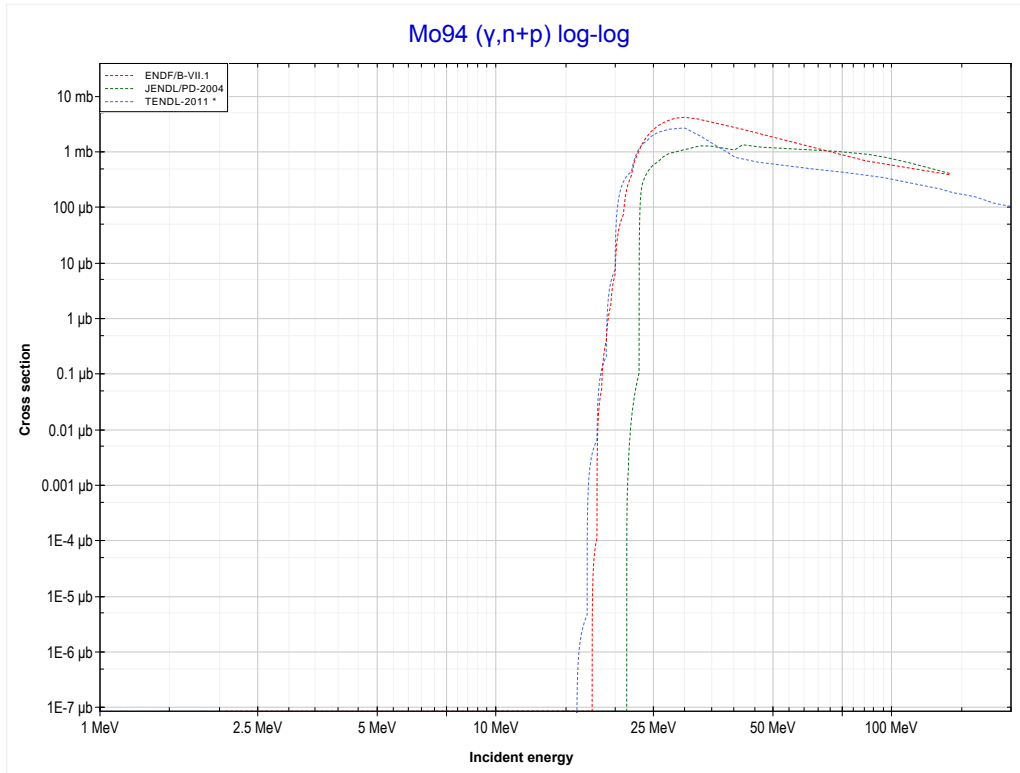
Reaction	Q-Value
Mo94(γ, n)Mo93	-9678.02 keV

<< 42-Mo-92	42-Mo-94	42-Mo-96 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Mo92 production)	MT28 ($\gamma, n+p$) >>



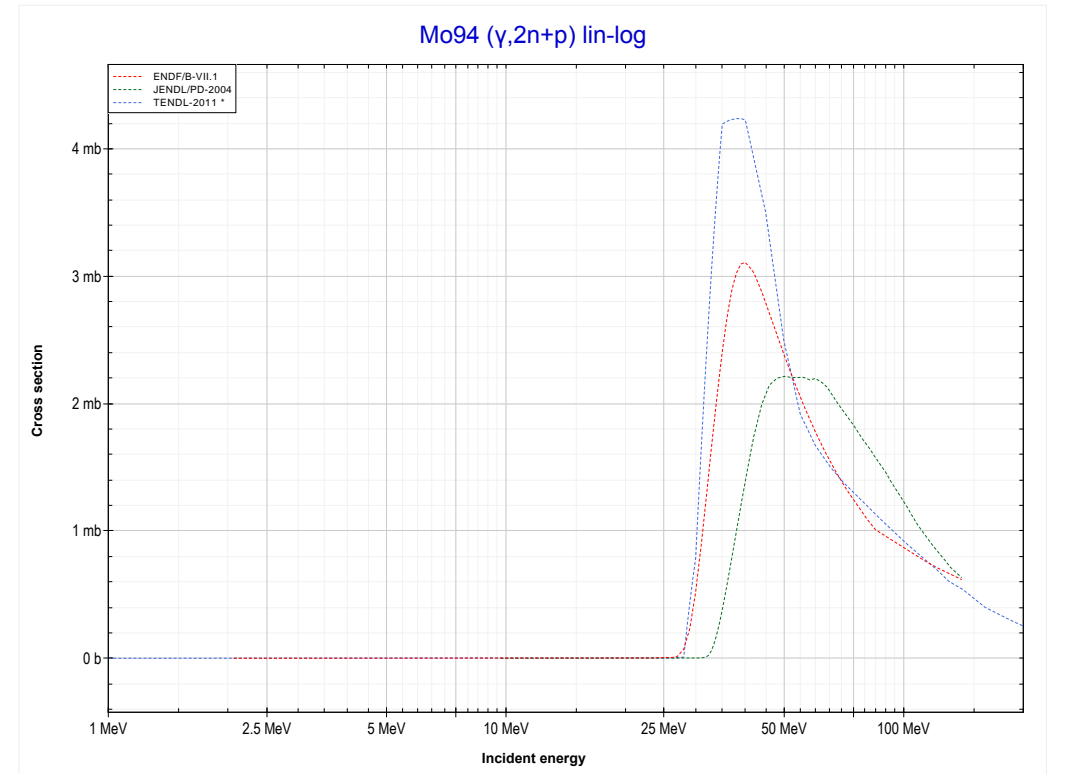
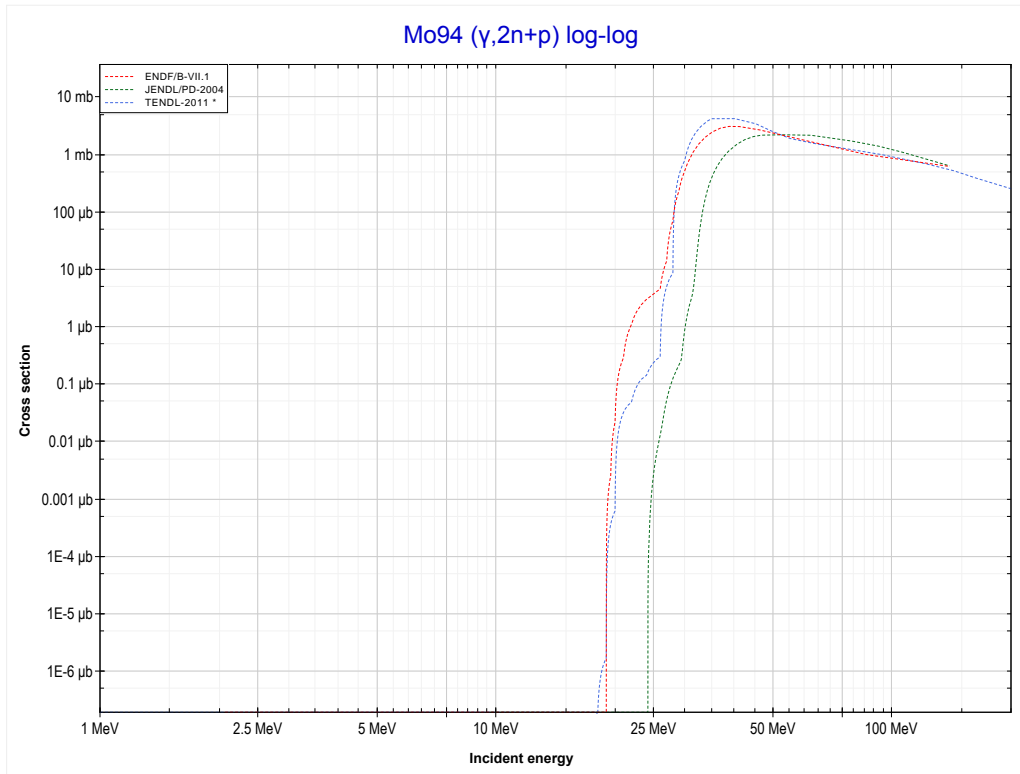
Reaction	Q-Value
Mo94($\gamma, 2n$)Mo92	-17747.33 keV

<< 42-Mo-92	42-Mo-94	42-Mo-96 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Nb92 production)	MT41 ($\gamma,2n+p$) >>



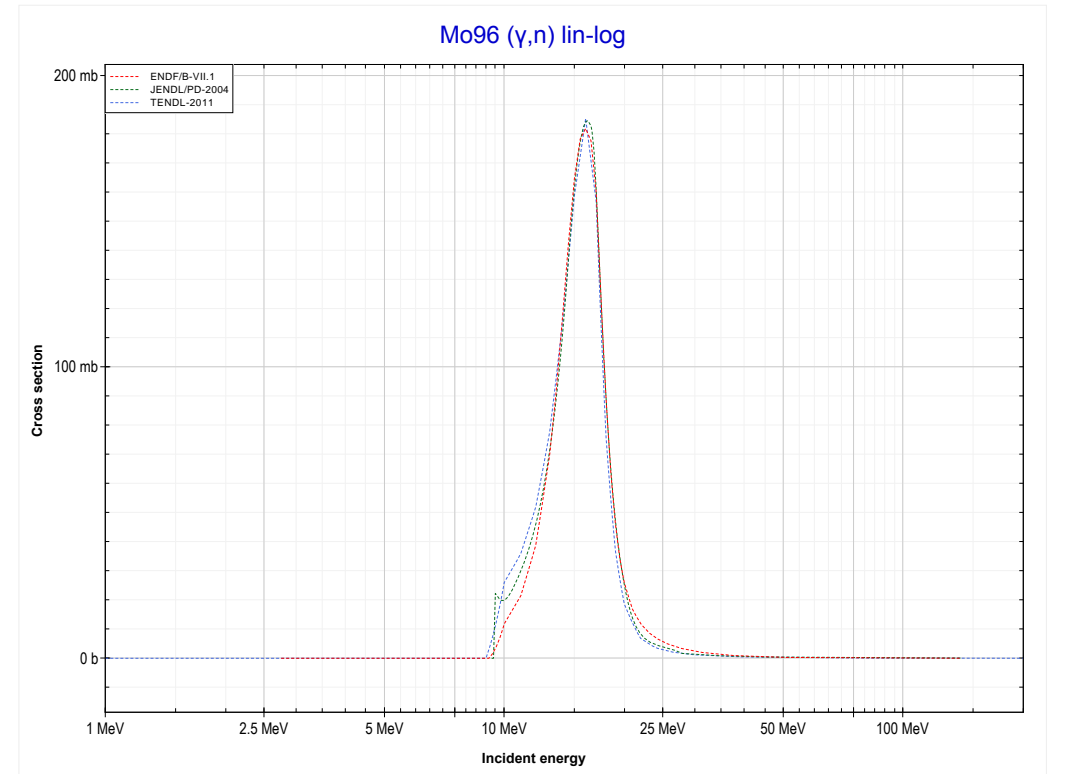
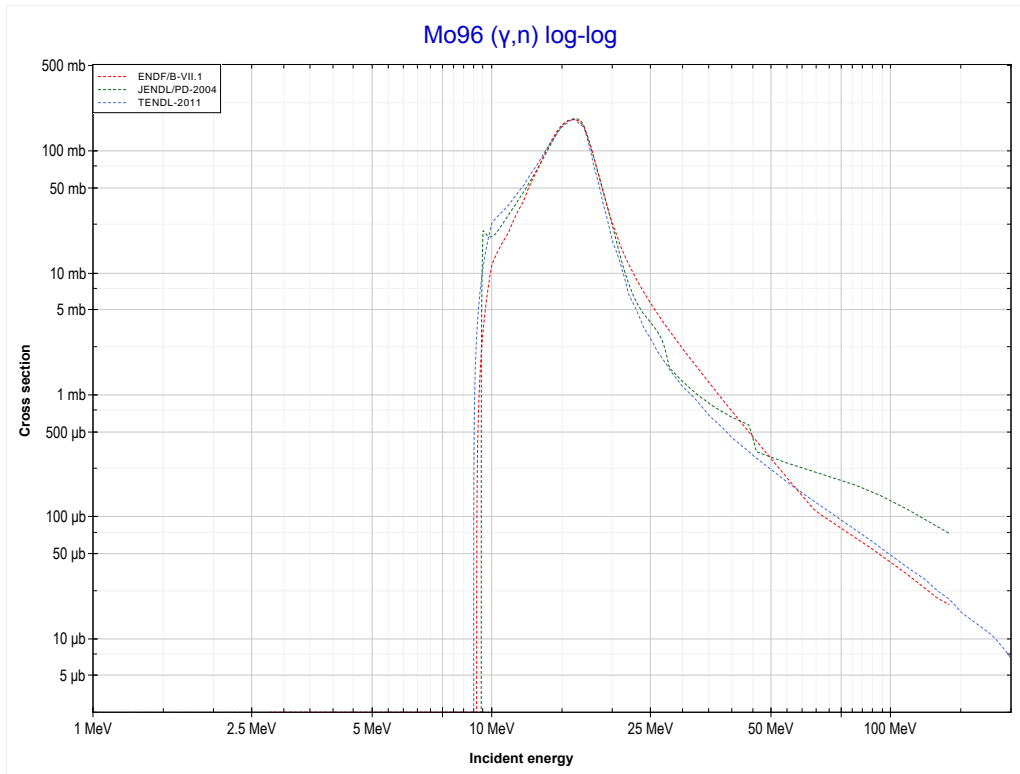
Reaction	Q-Value
Mo94(γ,d)Nb92	-15097.12 keV
Mo94($\gamma,n+p$)Nb92	-17321.69 keV

<< 42-Mo-92	42-Mo-94	42-Mo-96 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Nb91 production)	MT4 (γ, n) >>



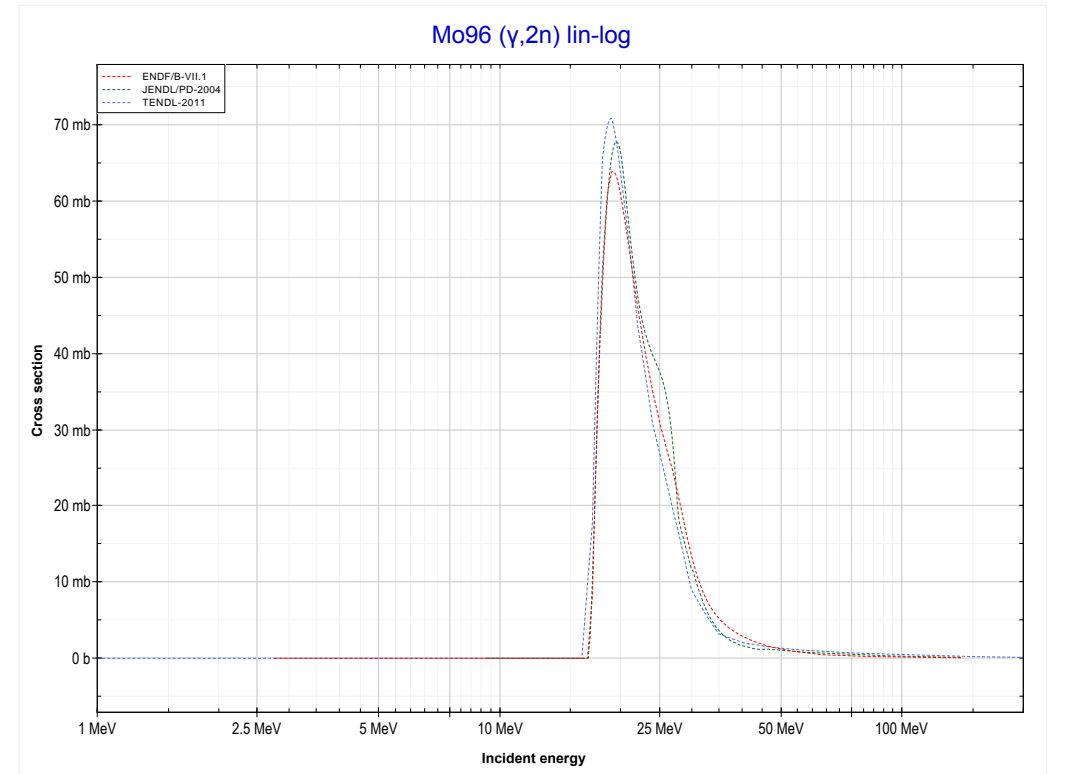
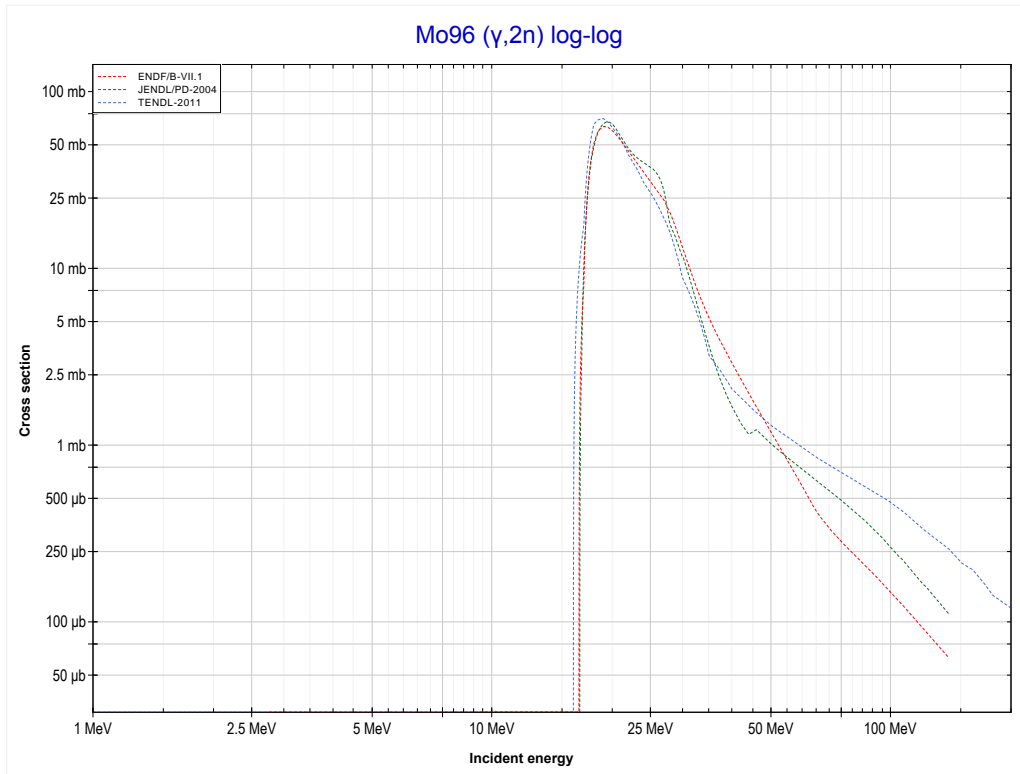
Reaction	Q-Value
Mo94(γ, t)Nb91	-16727.51 keV
Mo94($\gamma, n+d$)Nb91	-22984.74 keV
Mo94($\gamma, 2n+p$)Nb91	-25209.30 keV

<< 42-Mo-94	42-Mo-96	42-Mo-98 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Mo95 production)	MT16 ($\gamma, 2n$) >>



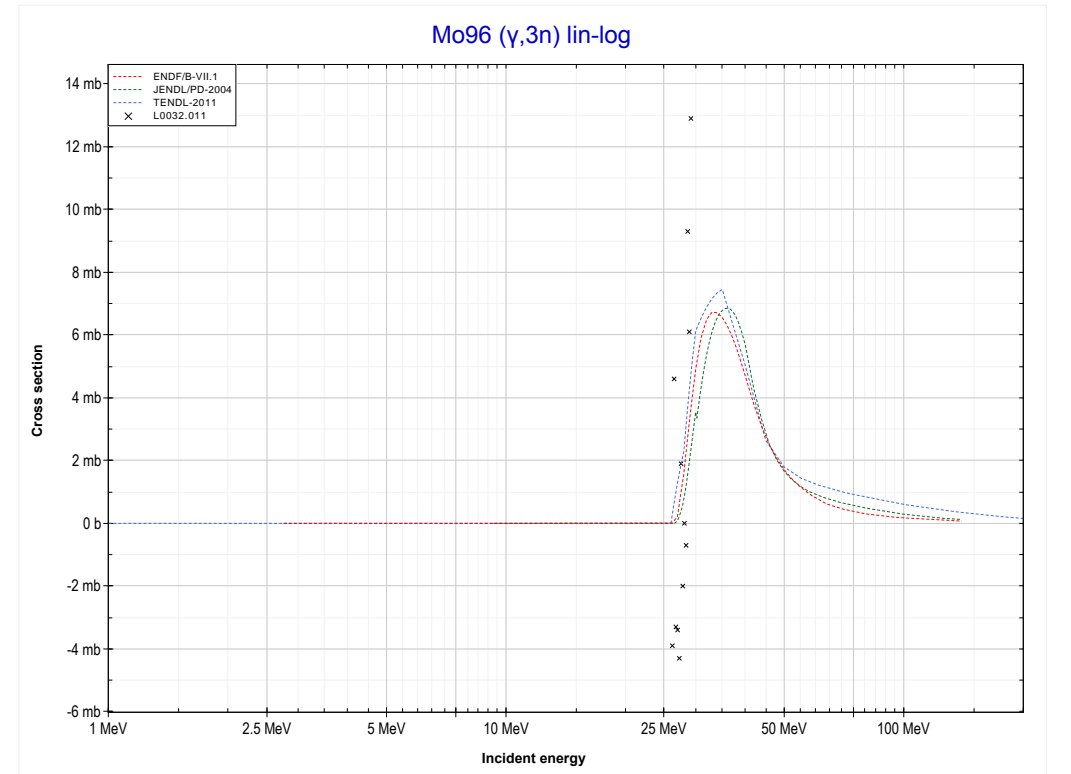
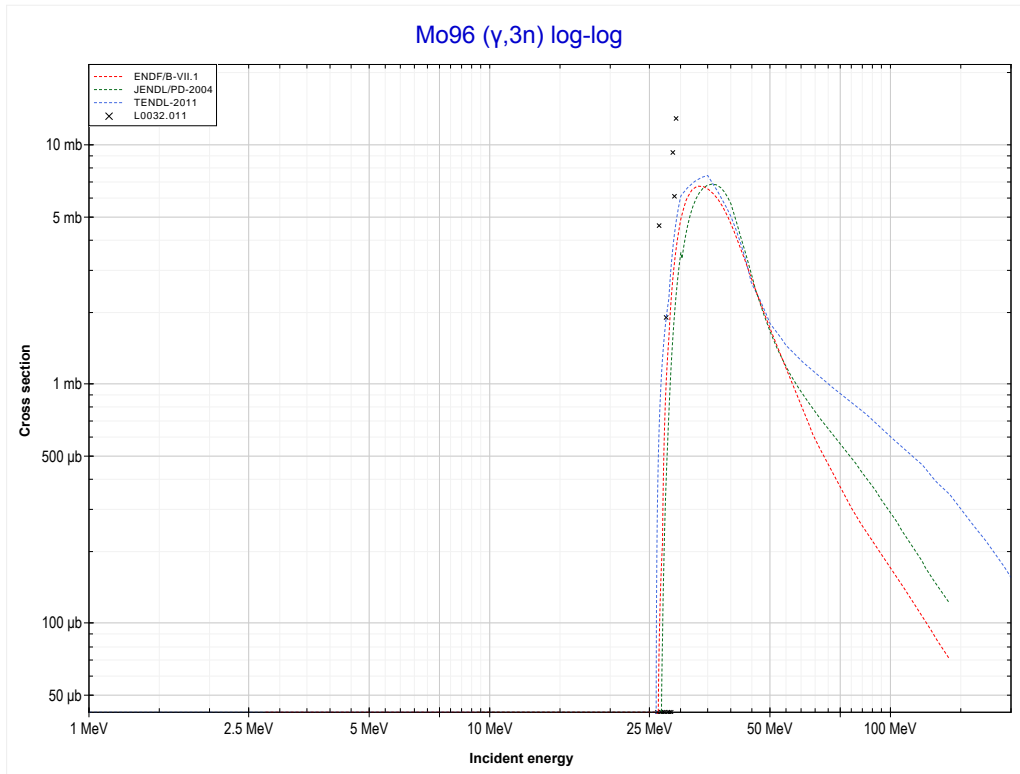
Reaction	Q-Value
Mo96(γ, n)Mo95	-9154.32 keV

<< 42-Mo-94	42-Mo-96	42-Mo-98 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Mo94 production)	MT17 ($\gamma, 3n$) >>



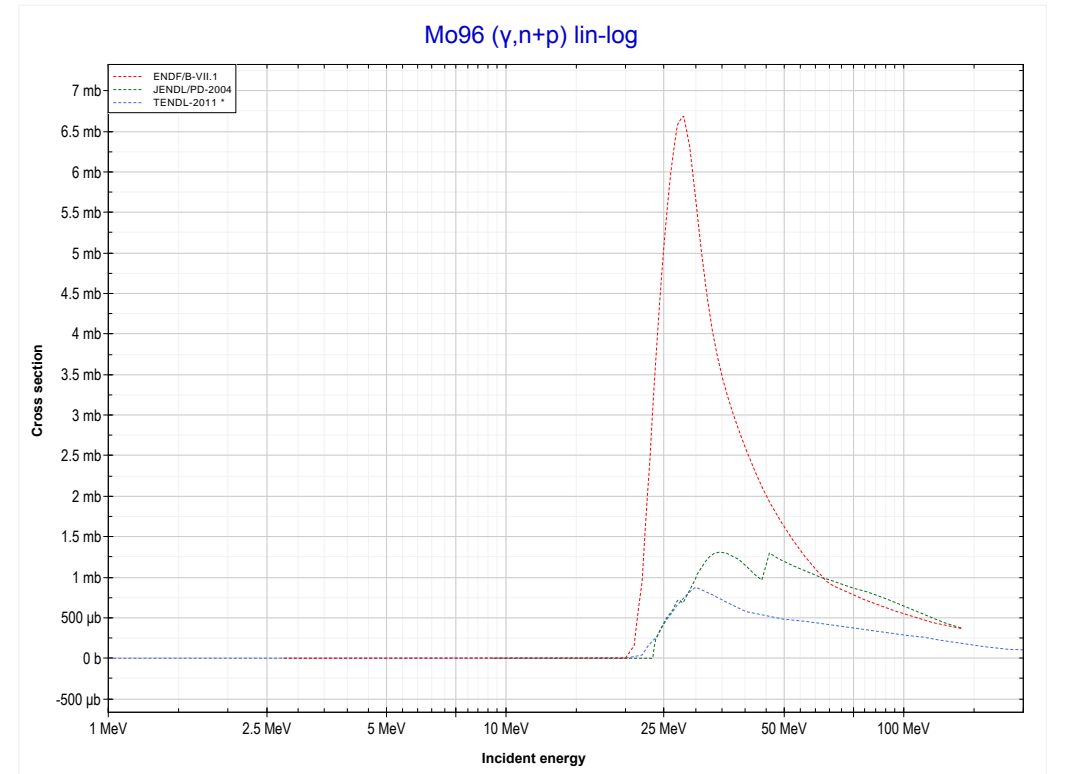
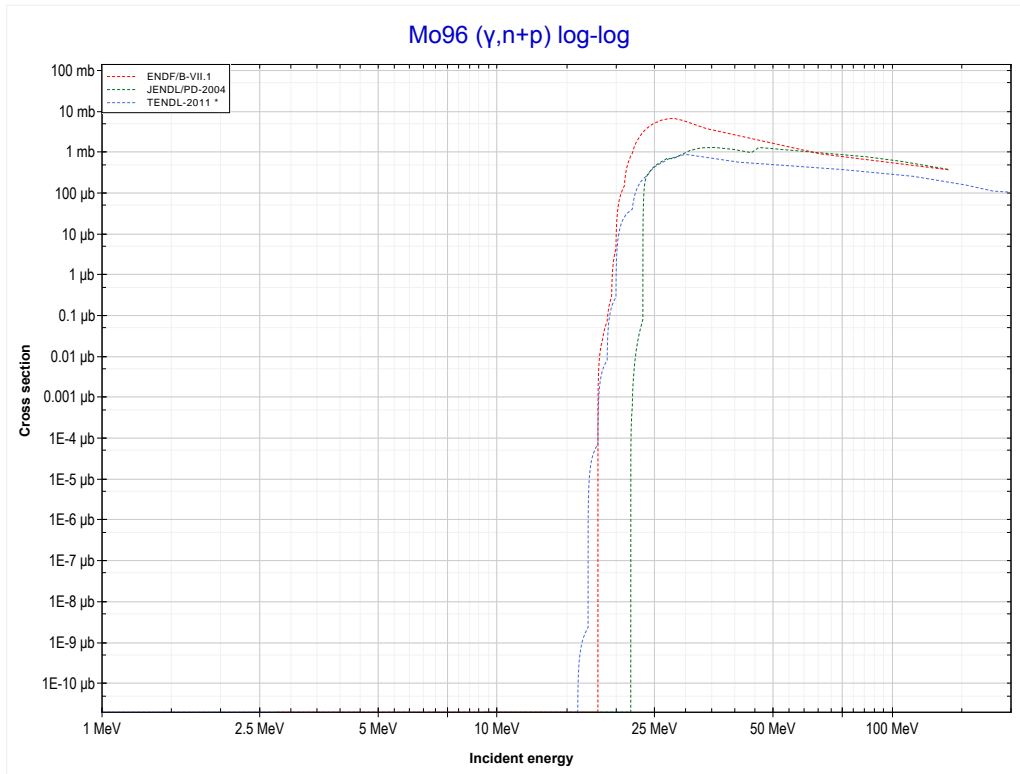
Reaction	Q-Value
Mo96($\gamma, 2n$)Mo94	-16523.43 keV

<< 41-Nb-93	42-Mo-96	42-Mo-98 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Mo93 production)	MT28 ($\gamma,n+p$) >>



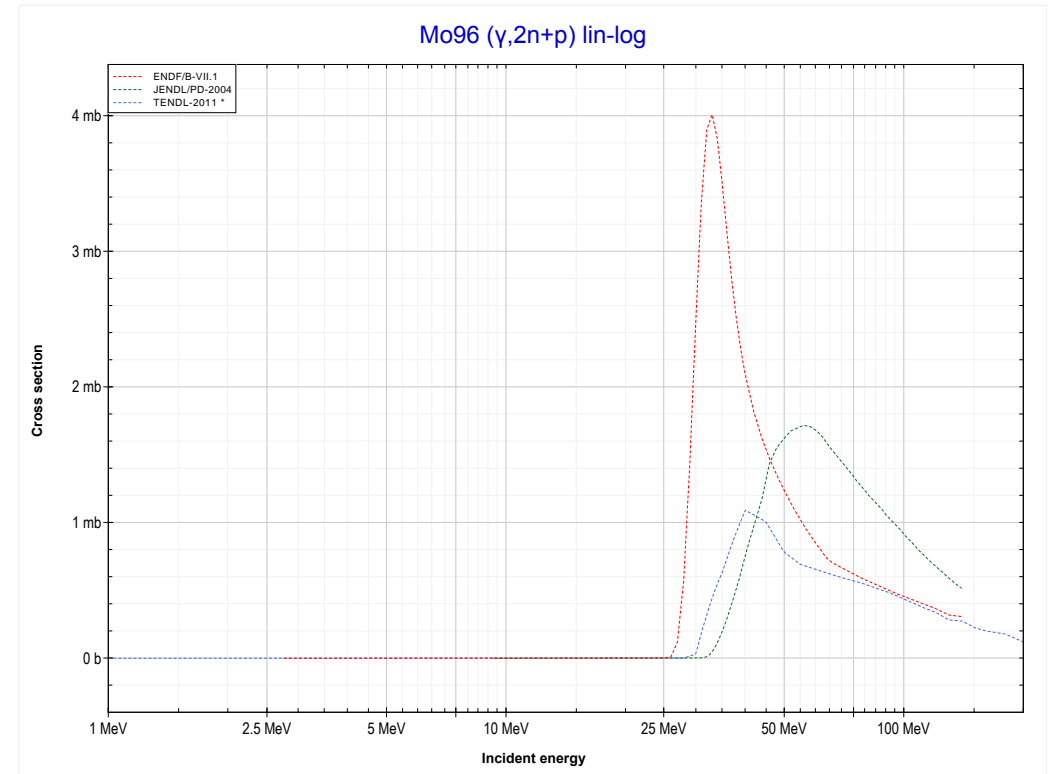
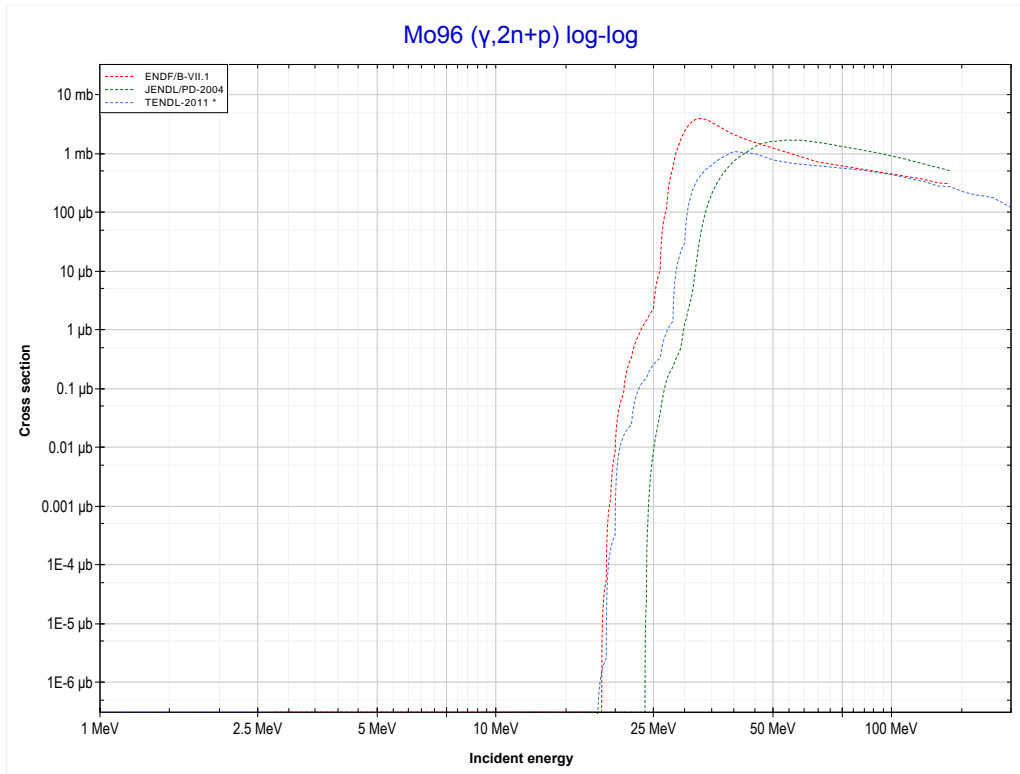
Reaction	Q-Value
Mo96($\gamma,3n$)Mo93	-26201.45 keV

<< 42-Mo-94	42-Mo-96	42-Mo-98 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Nb94 production)	MT41 ($\gamma,2n+p$) >>



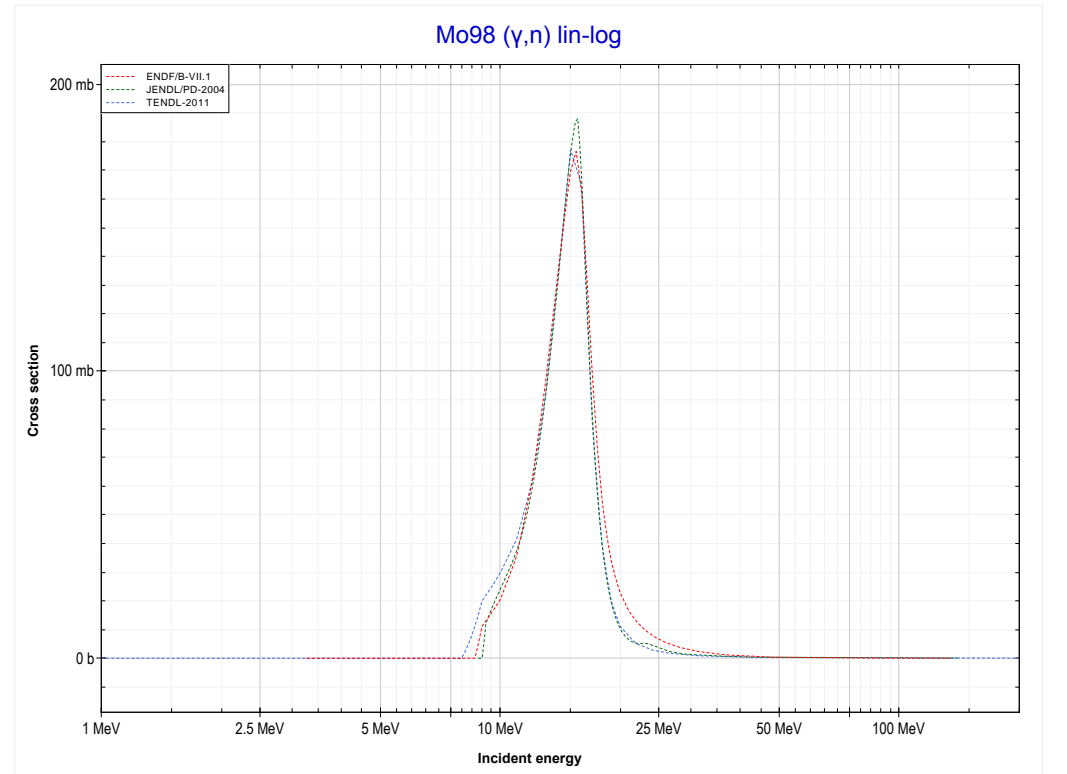
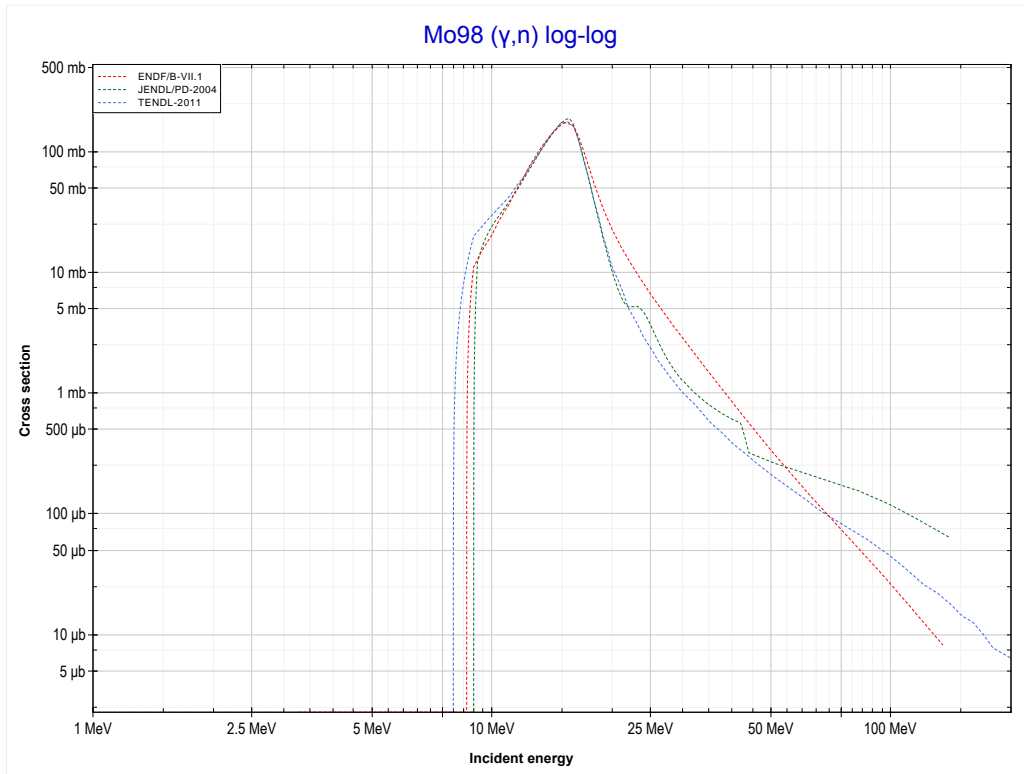
Reaction	Q-Value
Mo96(γ,d)Nb94	-15561.72 keV
Mo96($\gamma,n+p$)Nb94	-17786.29 keV

<< 42-Mo-94	42-Mo-96	42-Mo-98 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Nb93 production)	MT4 (γ, n) >>



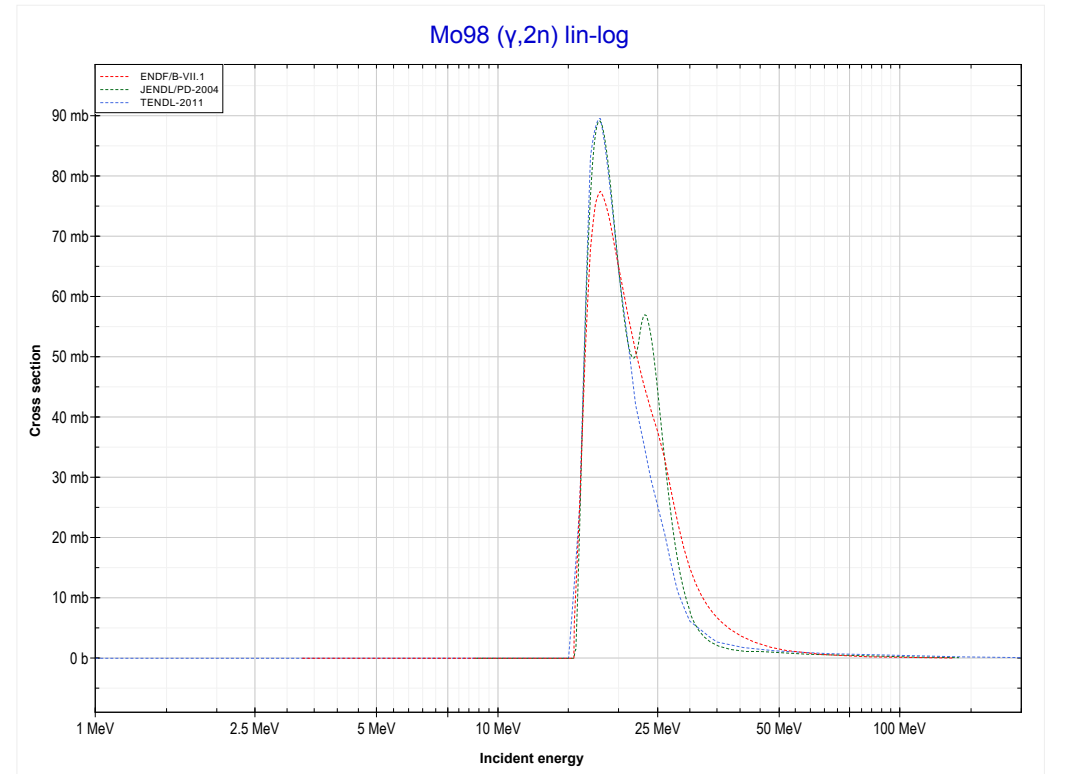
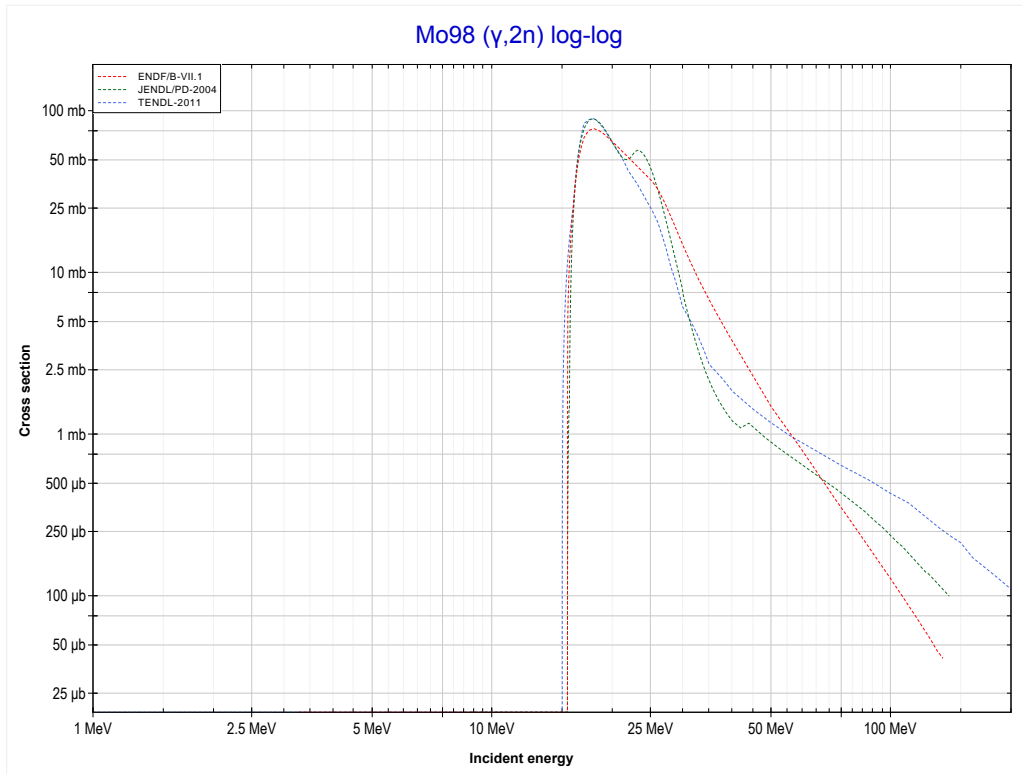
Reaction	Q-Value
Mo96(γ, t)Nb93	-16532.01 keV
Mo96($\gamma, n+d$)Nb93	-22789.24 keV
Mo96($\gamma, 2n+p$)Nb93	-25013.80 keV

<< 42-Mo-96	42-Mo-98	42-Mo-100 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Mo97 production)	MT16 ($\gamma, 2n$) >>



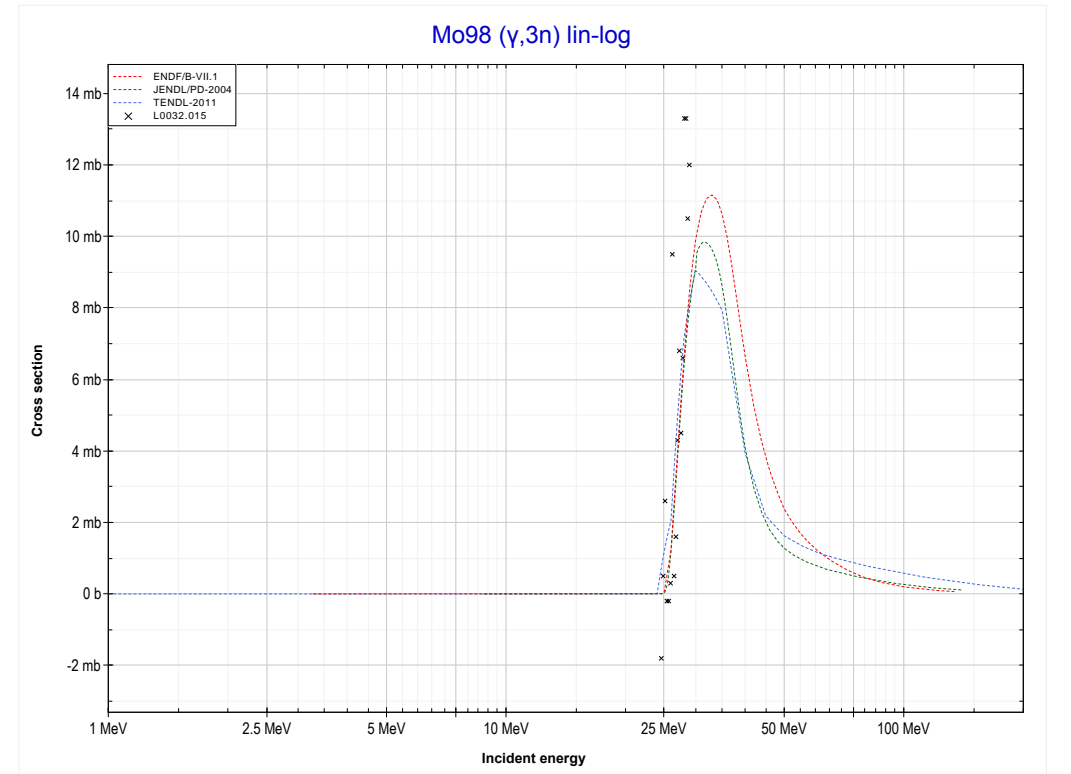
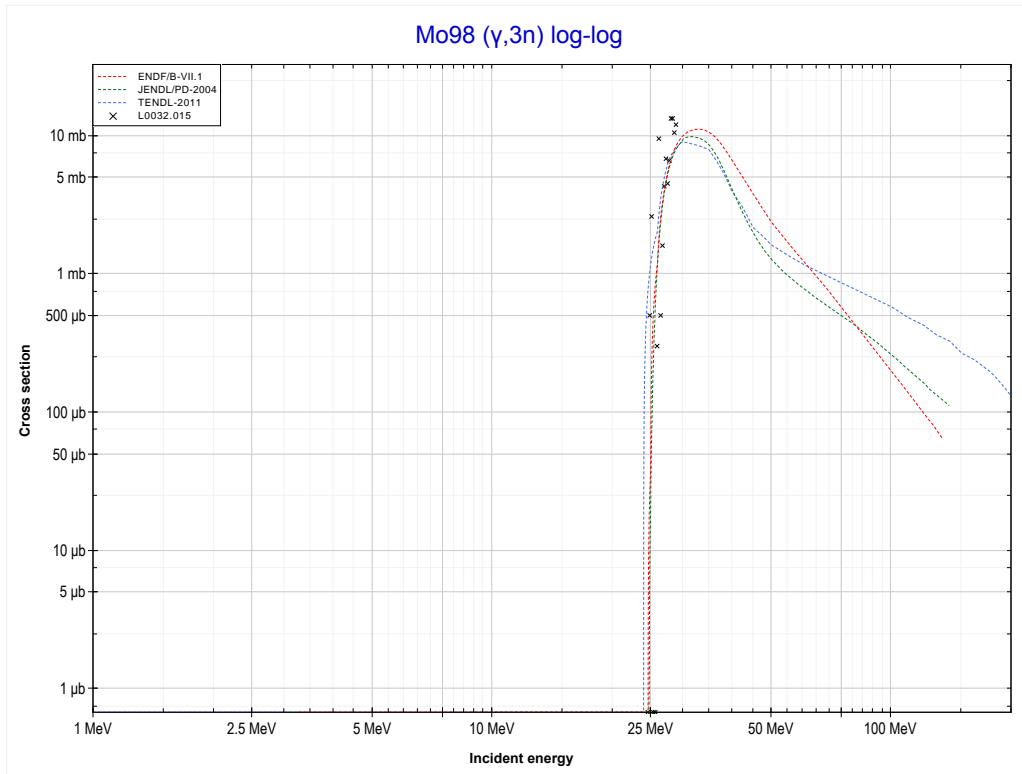
Reaction	Q-Value
Mo98(γ, n)Mo97	-8642.62 keV

<< 42-Mo-96	42-Mo-98	42-Mo-100 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Mo96 production)	MT17 ($\gamma,3n$) >>



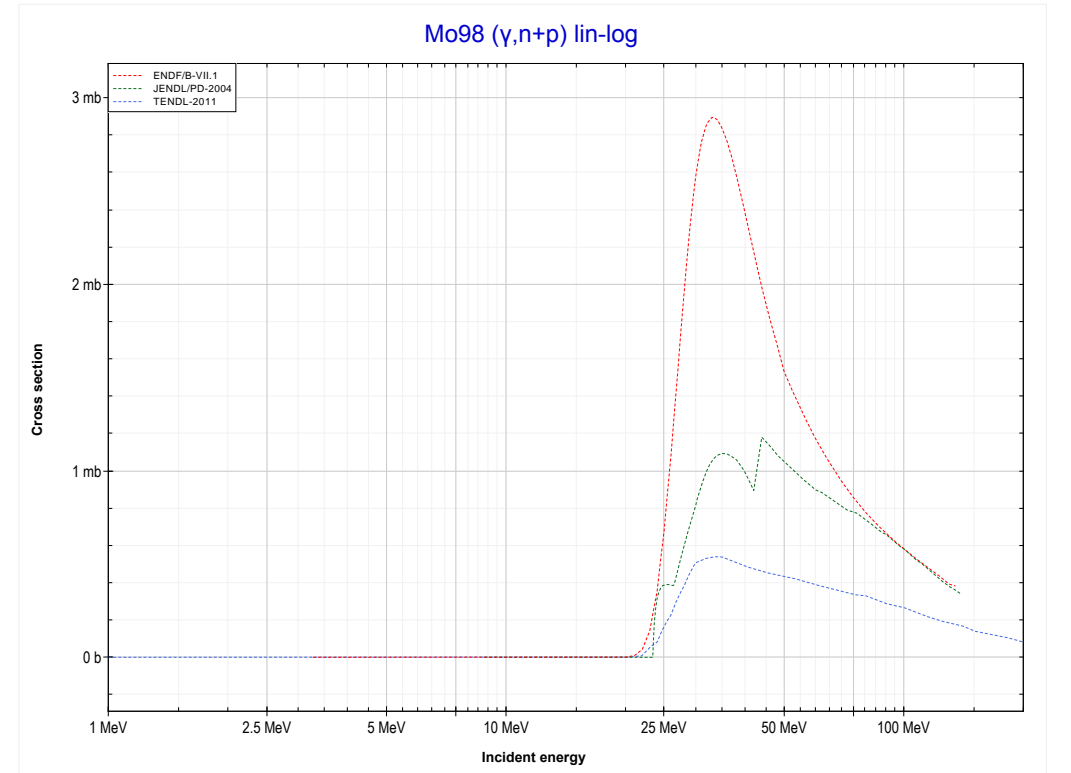
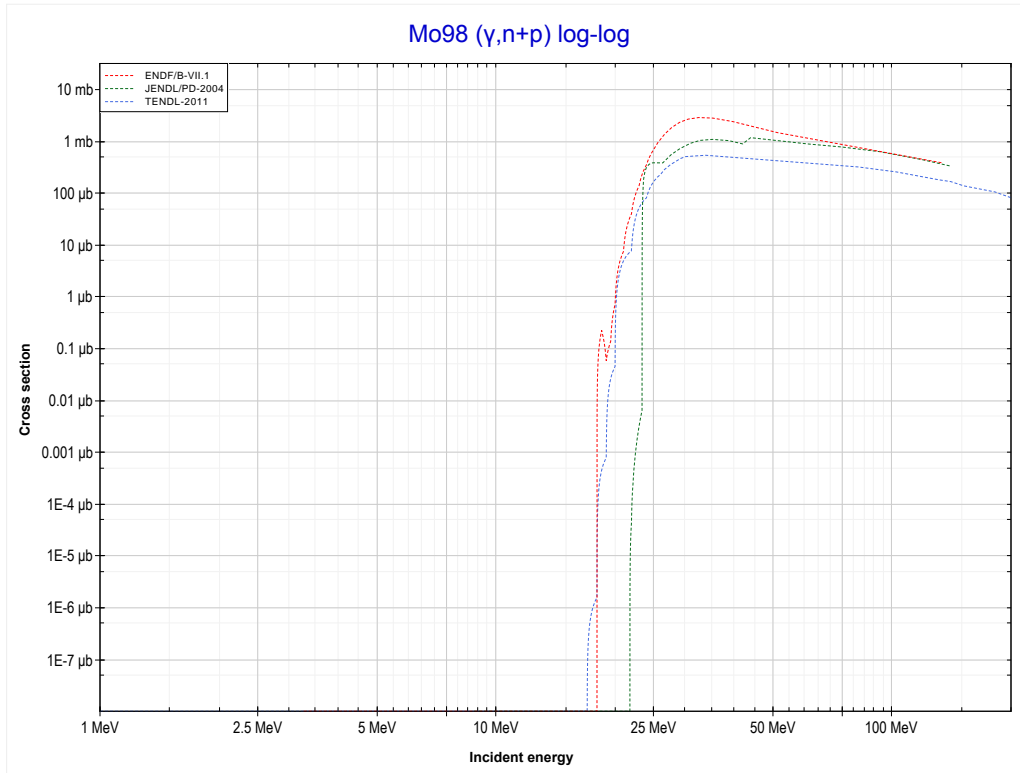
Reaction	Q-Value
Mo98($\gamma,2n$)Mo96	-15463.83 keV

<< 42-Mo-96	42-Mo-98	42-Mo-100 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Mo95 production)	MT28 ($\gamma,n+p$) >>



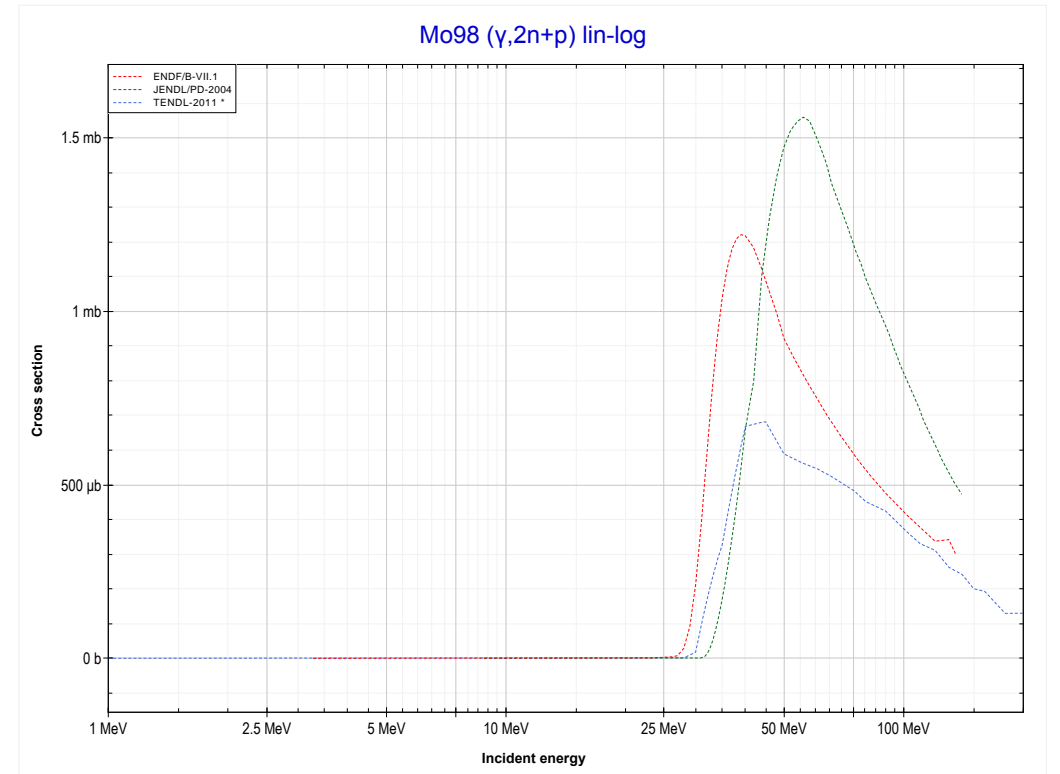
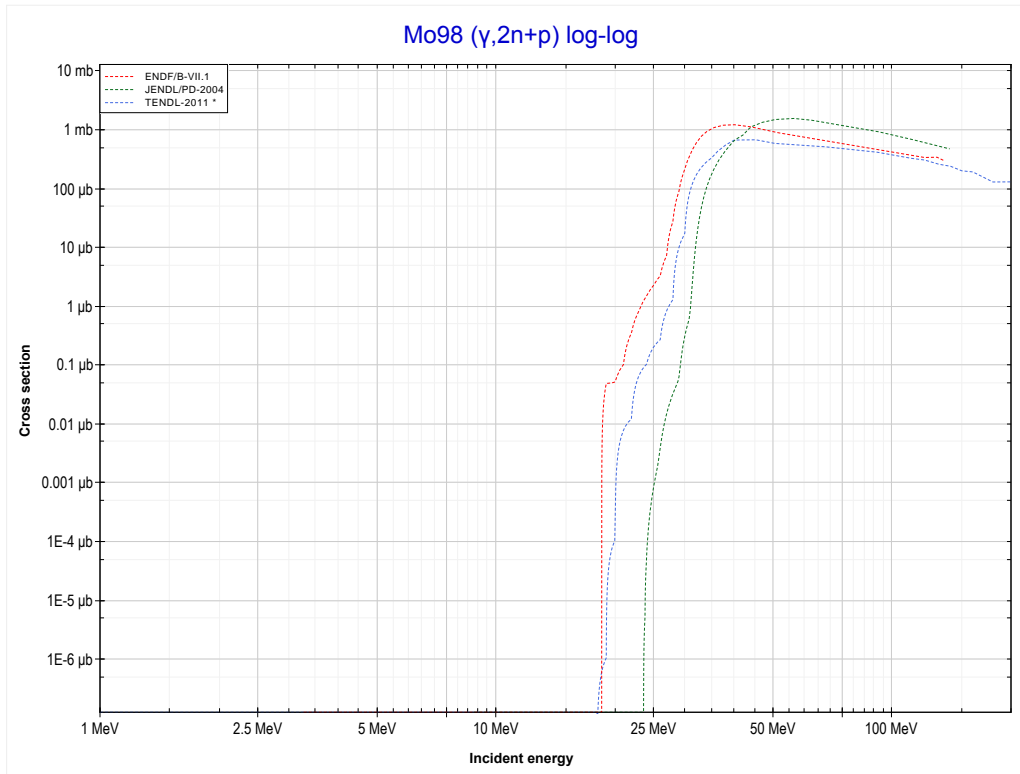
Reaction	Q-Value
Mo98($\gamma,3n$)Mo95	-24618.15 keV

<< 42-Mo-96	42-Mo-98	42-Mo-100 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Nb96 production)	MT41 ($\gamma,2n+p$) >>



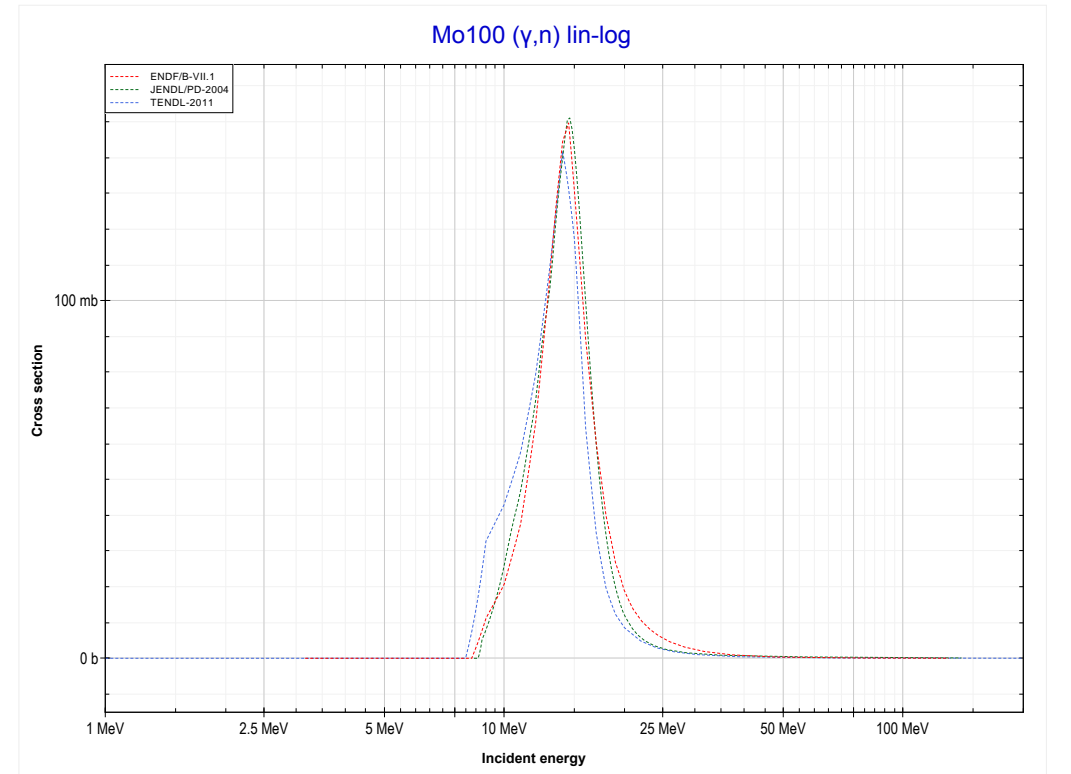
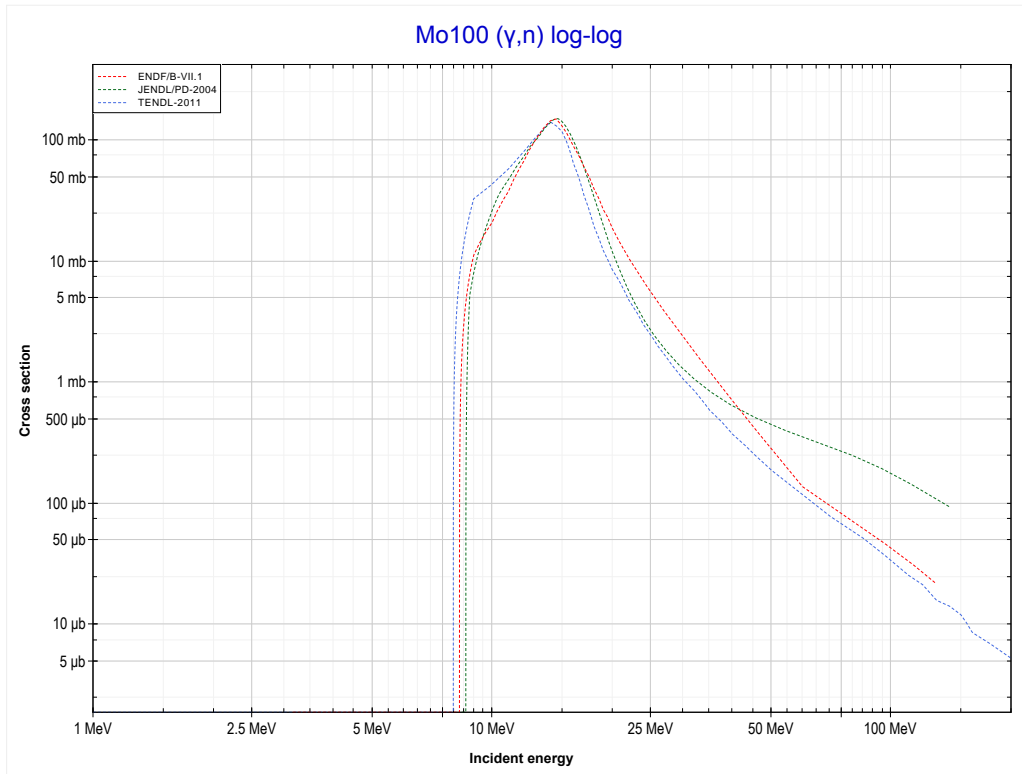
Reaction	Q-Value
$\text{Mo98}(\gamma,d)\text{Nb96}$	-15643.42 keV
$\text{Mo98}(\gamma,n+p)\text{Nb96}$	-17867.99 keV

<< 42-Mo-96	42-Mo-98	42-Mo-100 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Nb95 production)	MT4 (γ, n) >>



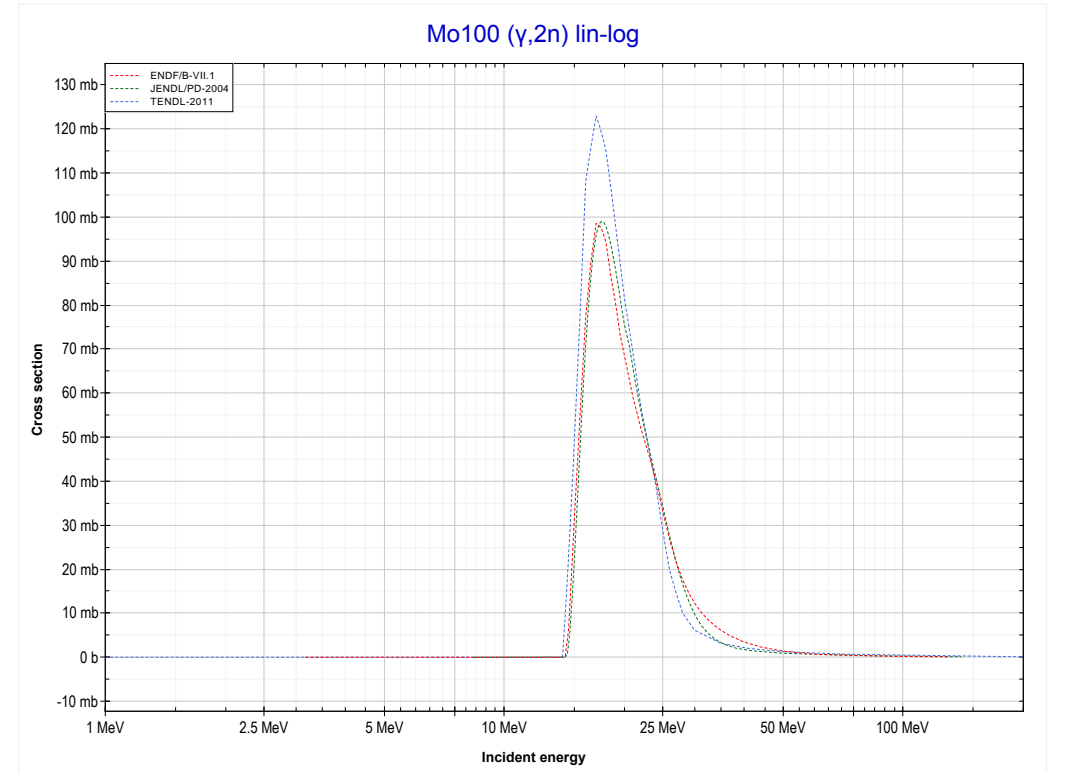
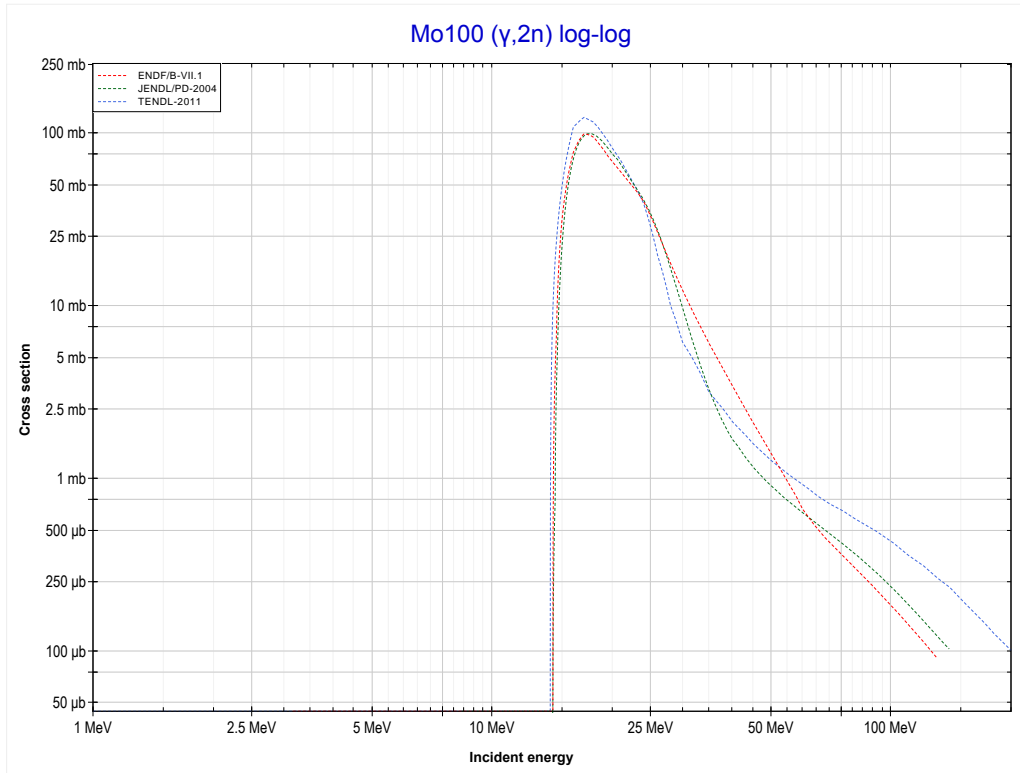
Reaction	Q-Value
$\text{Mo98}(\gamma, t)\text{Nb95}$	-16279.61 keV
$\text{Mo98}(\gamma, n+d)\text{Nb95}$	-22536.84 keV
$\text{Mo98}(\gamma, 2n+p)\text{Nb95}$	-24761.40 keV

<< 42-Mo-98	42-Mo-100	45-Rh-103 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Mo99 production)	MT16 ($\gamma, 2n$) >>



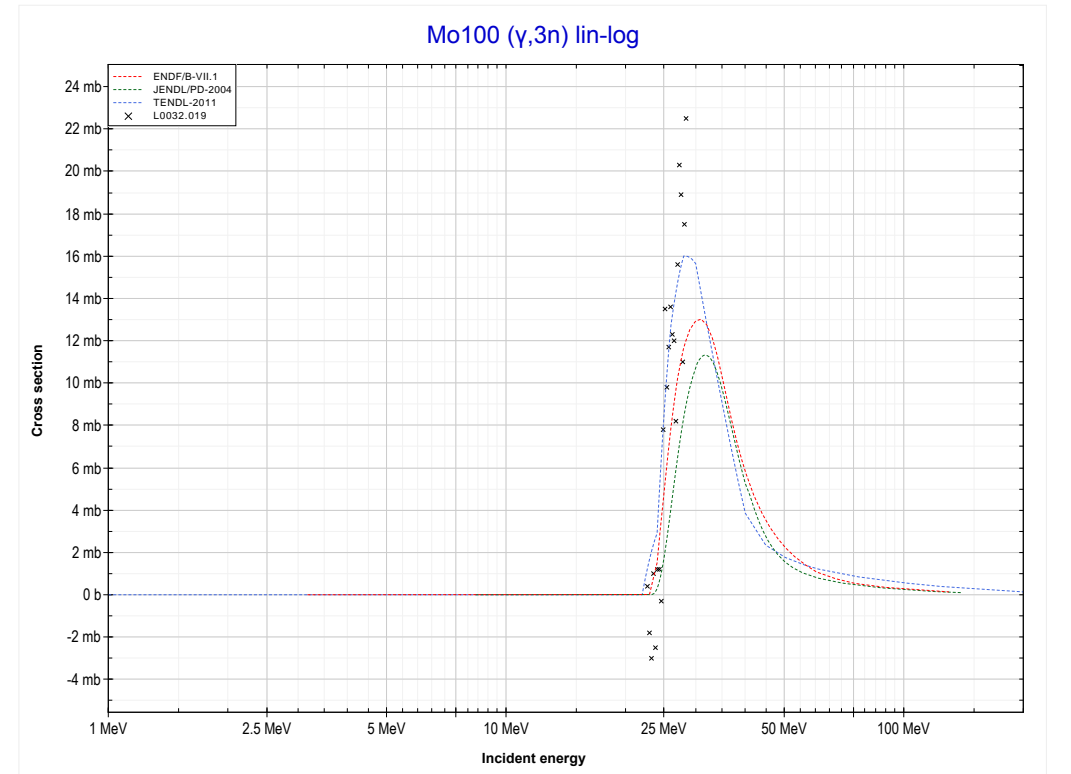
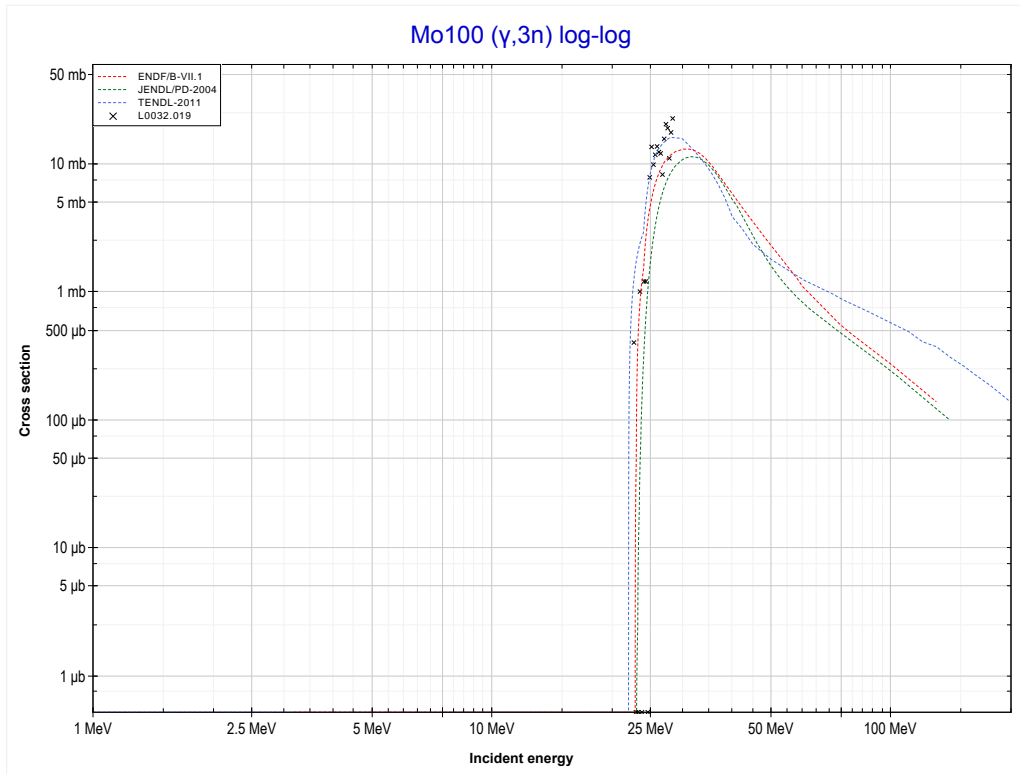
Reaction	Q-Value
Mo100(γ, n)Mo99	-8289.52 keV

<< 42-Mo-98	42-Mo-100	45-Rh-103 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Mo98 production)	MT17 ($\gamma,3n$) >>



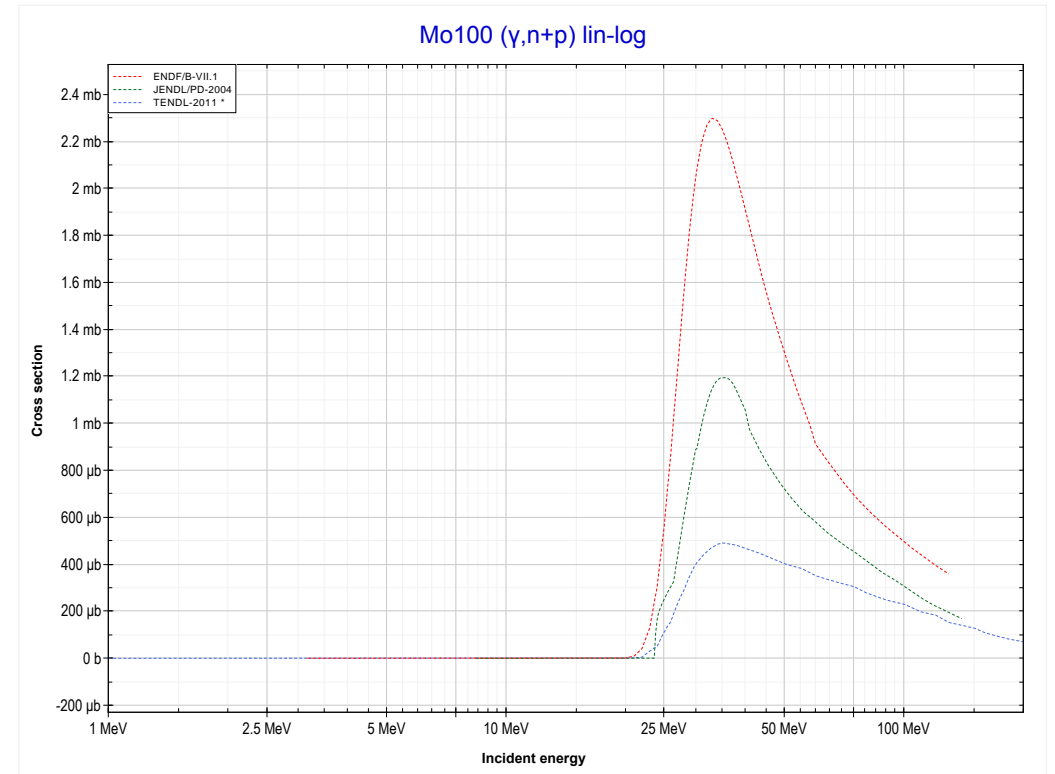
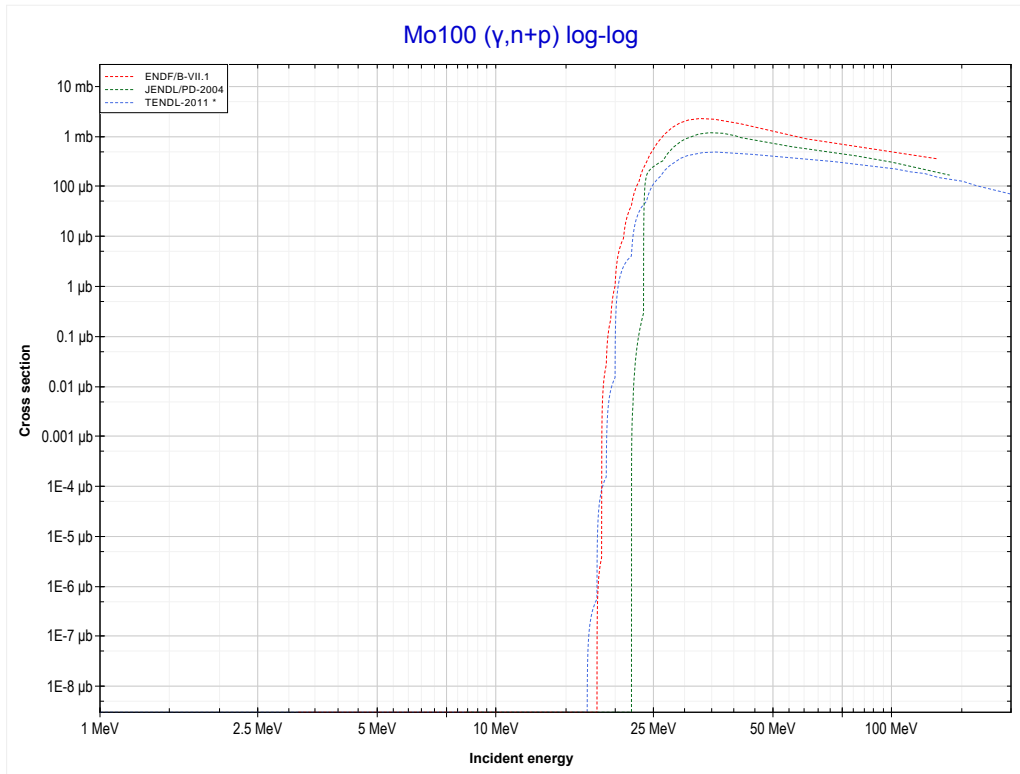
Reaction	Q-Value
Mo100($\gamma,2n$)Mo98	-14214.93 keV

<< 42-Mo-98	42-Mo-100	43-Tc-99 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Mo97 production)	MT28 ($\gamma,n+p$) >>



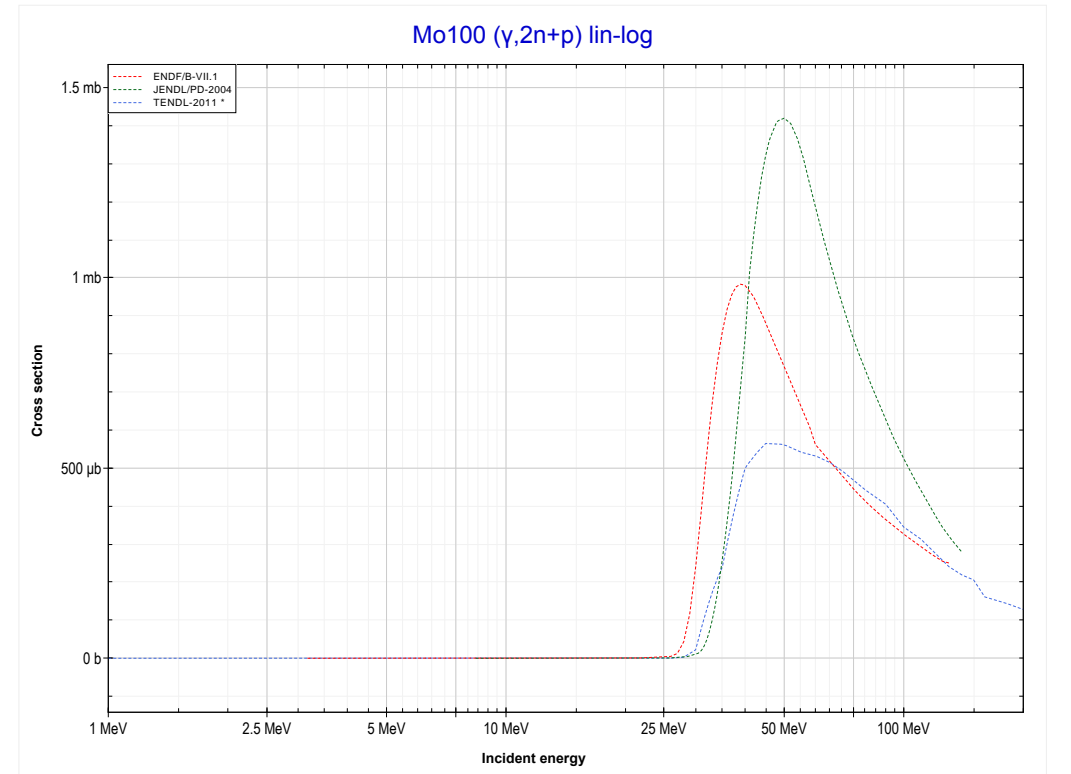
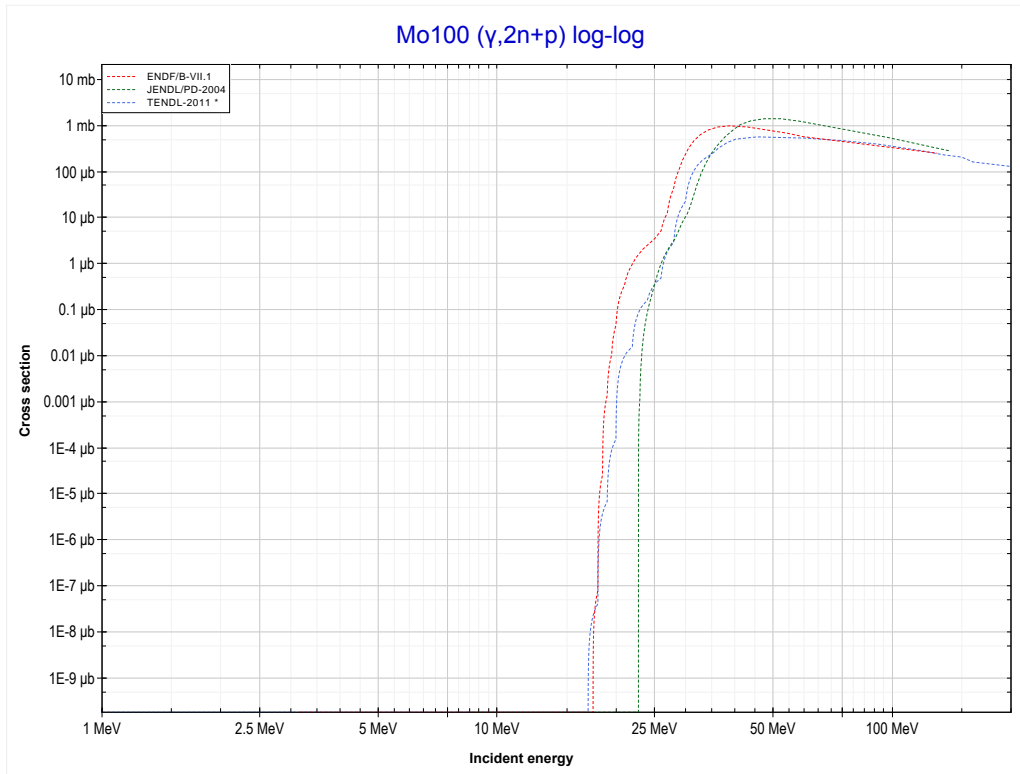
Reaction	Q-Value
Mo100($\gamma,3n$)Mo97	-22857.55 keV

<< 42-Mo-98	42-Mo-100	45-Rh-103 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Nb98 production)	MT41 ($\gamma,2n+p$) >>



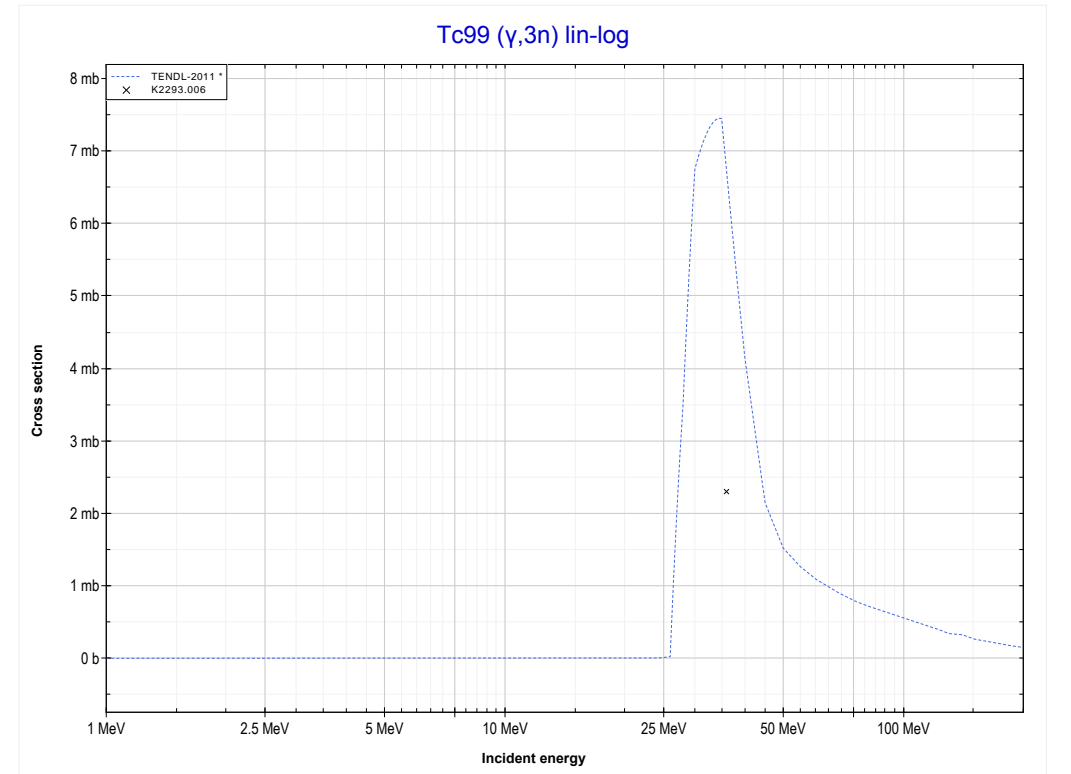
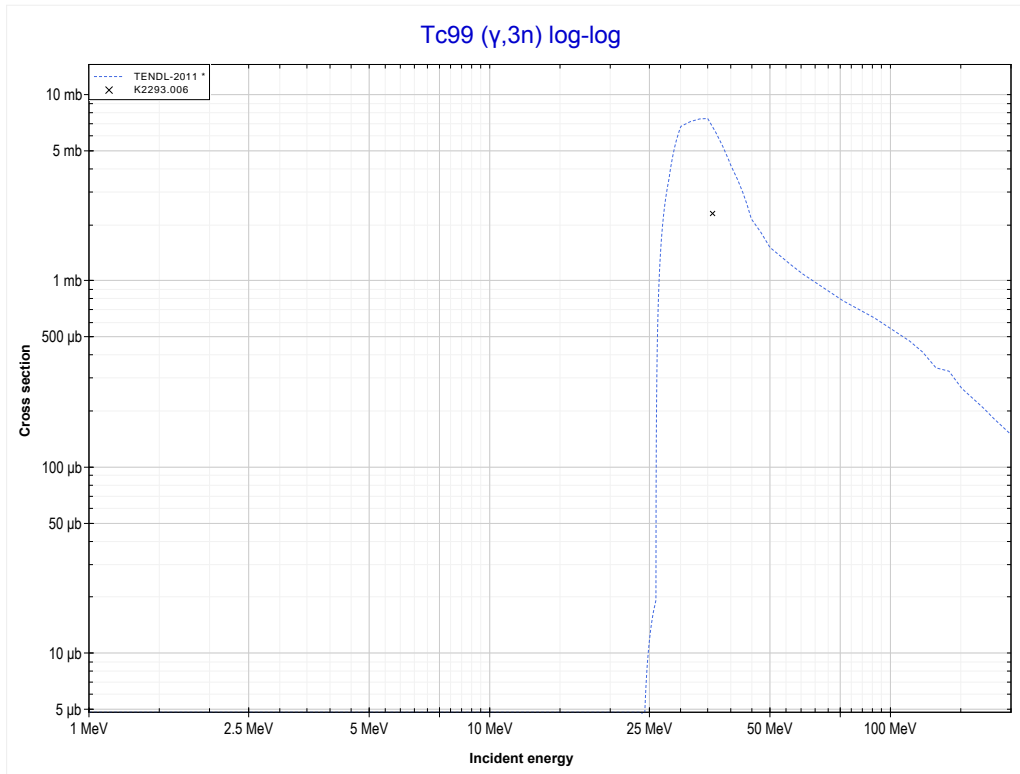
Reaction	Q-Value
Mo100(γ,d)Nb98	-15790.72 keV
Mo100($\gamma,n+p$)Nb98	-18015.29 keV

<< 42-Mo-98	42-Mo-100	45-Rh-103 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Nb97 production)	MT17 ($\gamma, 3n$) >>



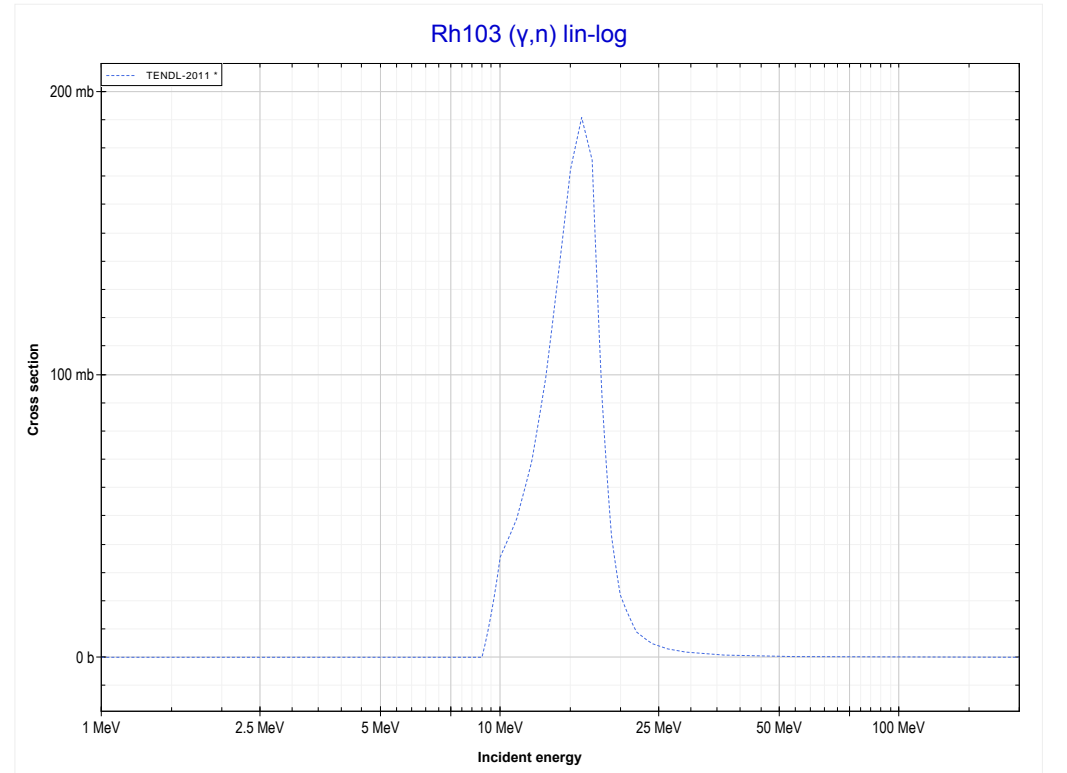
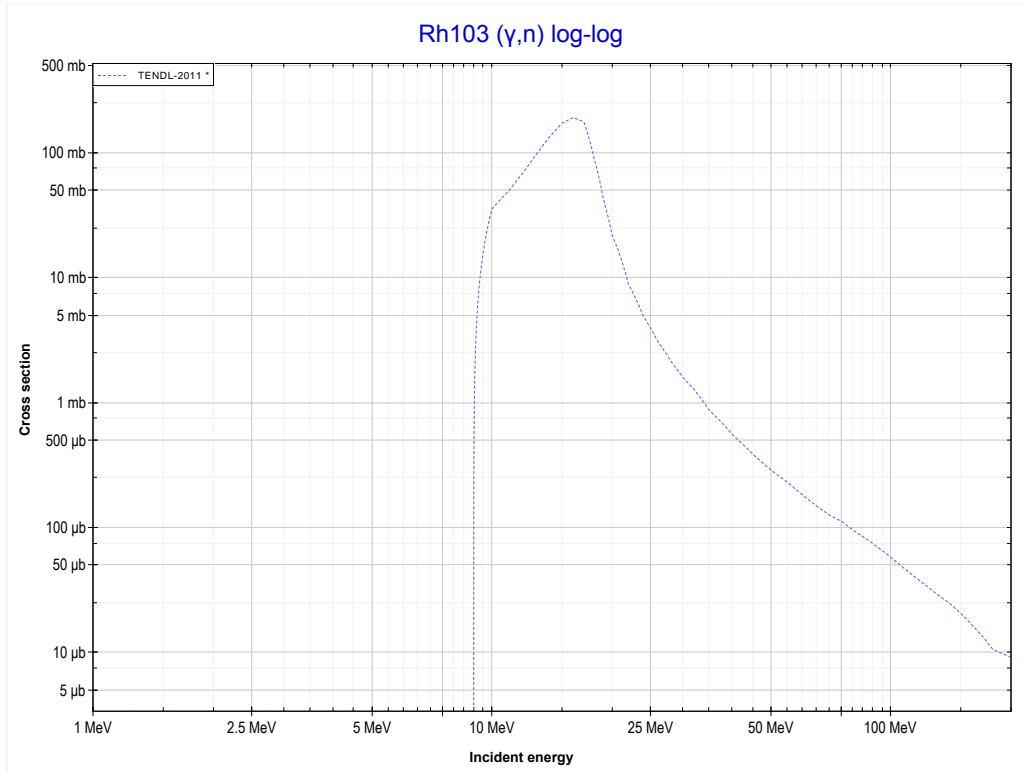
Reaction	Q-Value
Mo100(γ, t)Nb97	-15528.21 keV
Mo100($\gamma, n+d$)Nb97	-21785.44 keV
Mo100($\gamma, 2n+p$)Nb97	-24010.00 keV

<< 42-Mo-100	43-Tc-99	49-In-115 >>
<< MT41 ($\gamma,2n+p$)	MT17 ($\gamma,3n$) or MT5 (Tc96 production)	MT4 (γ,n) >>



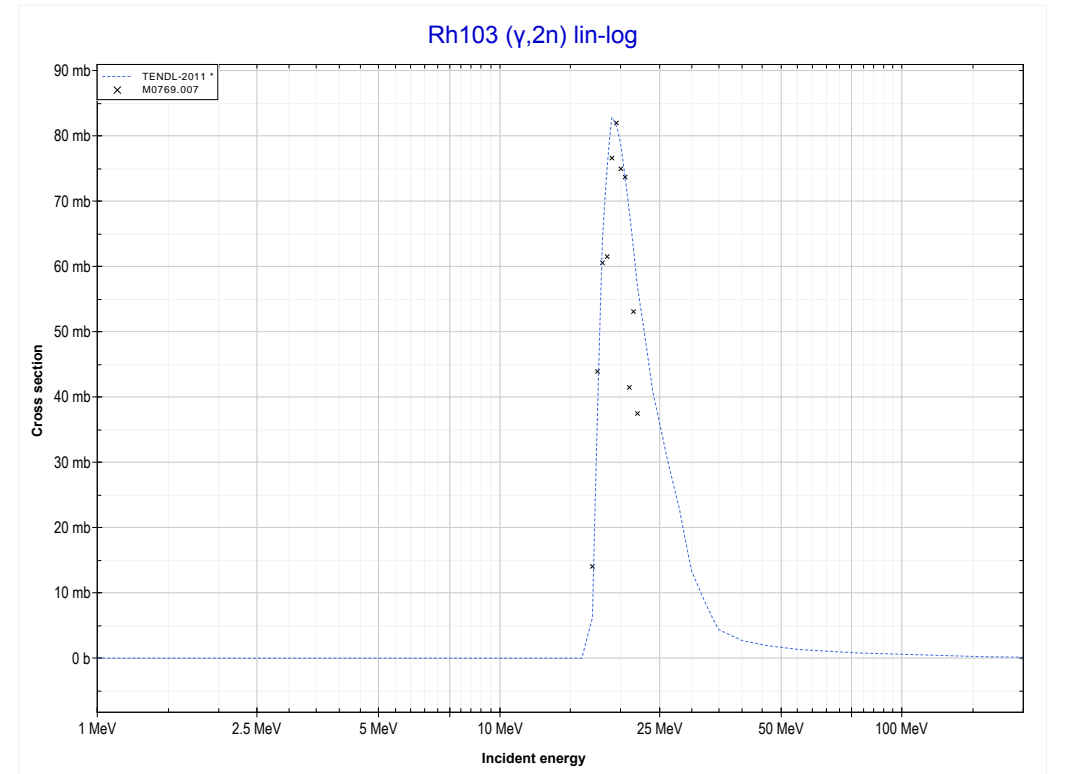
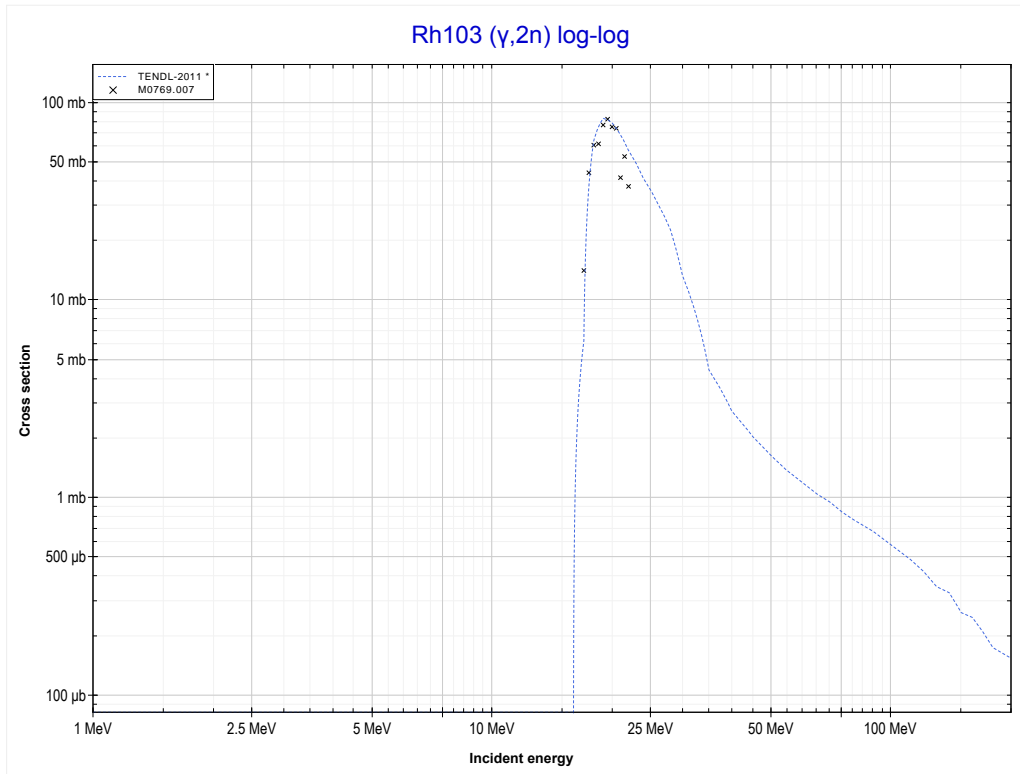
Reaction	Q-Value
Tc99($\gamma,3n$)Tc96	-25720.05 keV

<< 42-Mo-100	45-Rh-103	46-Pd-105 >>
<< MT17 ($\gamma,3n$)	MT4 (γ,n) or MT5 (Rh102 production)	MT16 ($\gamma,2n$) >>



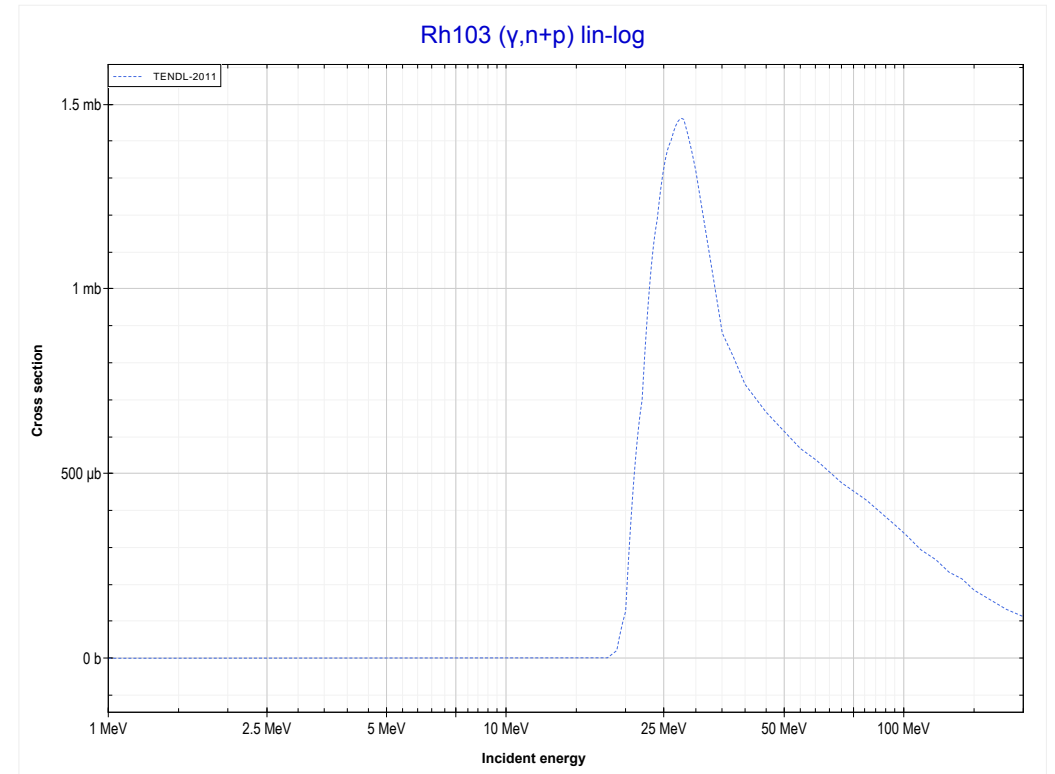
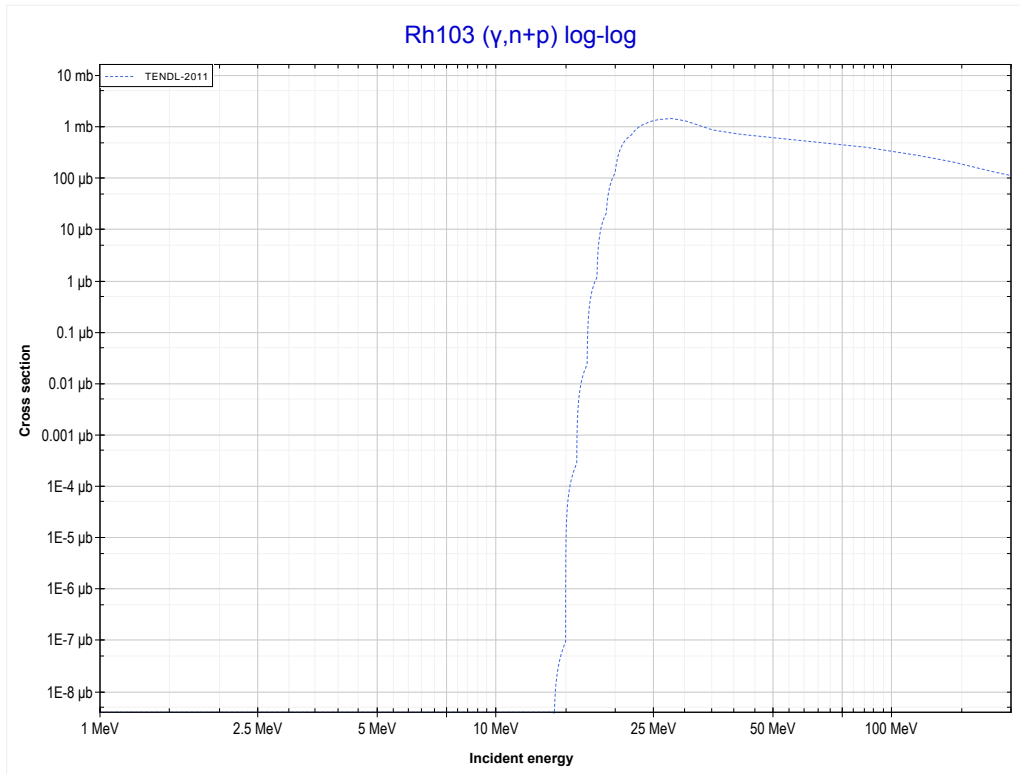
Reaction	Q-Value
Rh103(γ,n)Rh102	-9318.52 keV

<< 42-Mo-100	45-Rh-103	47-Ag-107 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Rh101 production)	MT28 ($\gamma, n+p$) >>



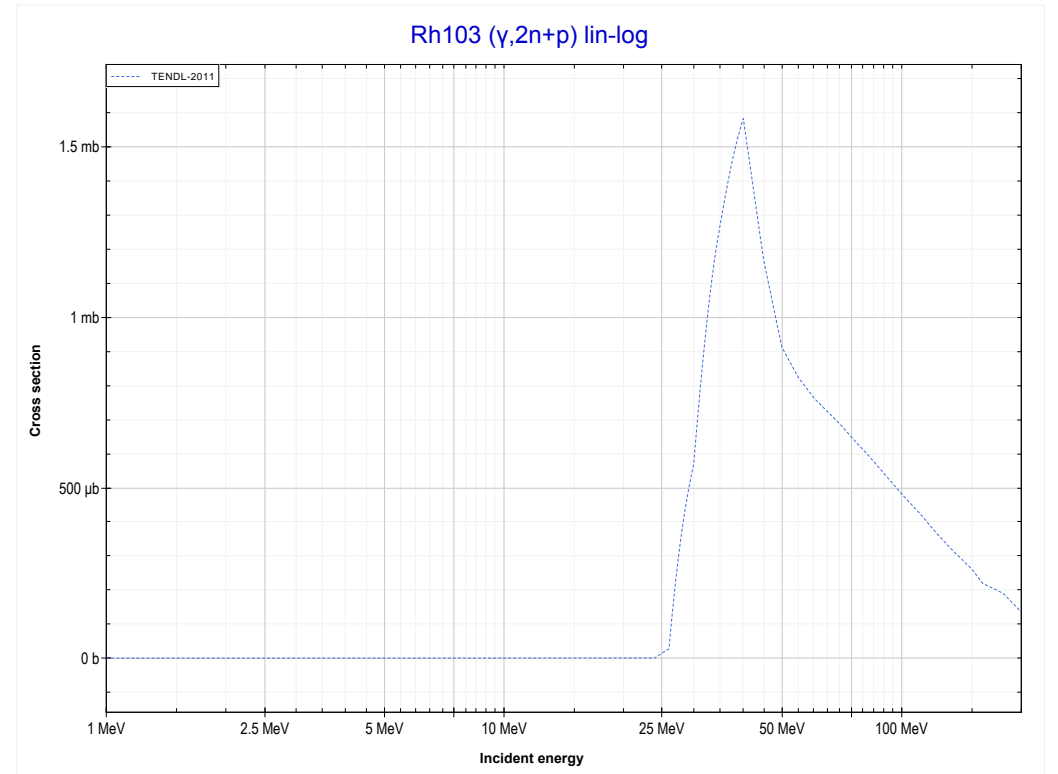
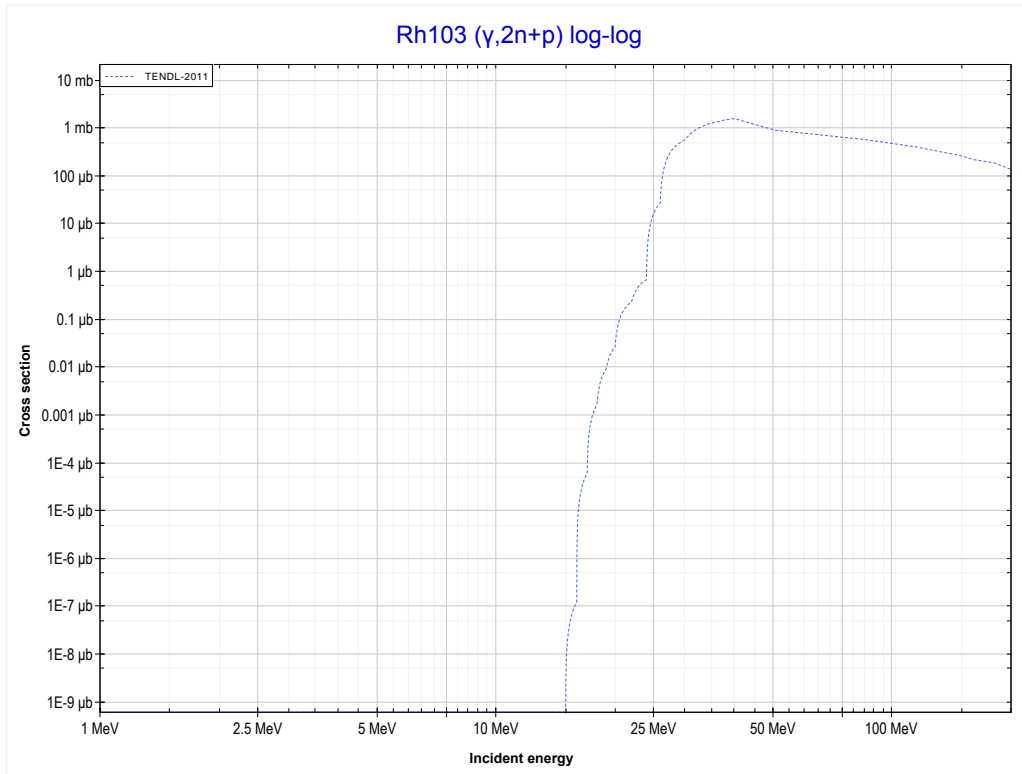
Reaction	Q-Value
Rh103($\gamma, 2n$)Rh101	-16756.83 keV

<< 42-Mo-100	45-Rh-103	47-Ag-107 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ru101 production)	MT41 ($\gamma,2n+p$) >>



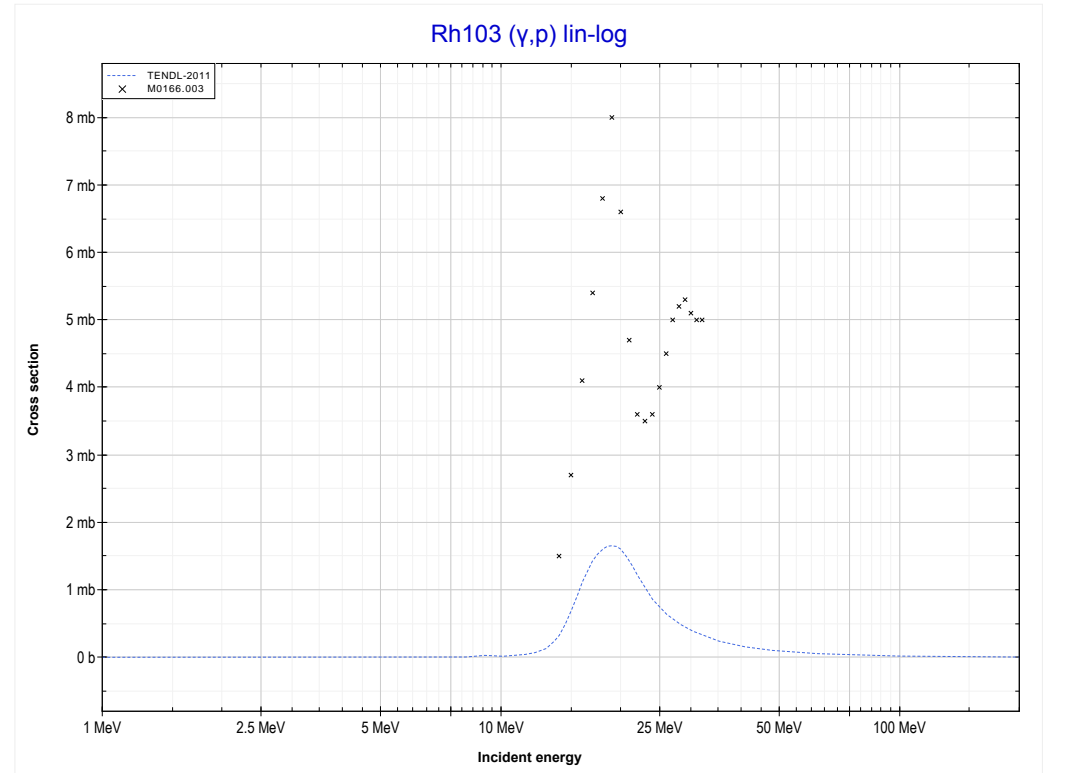
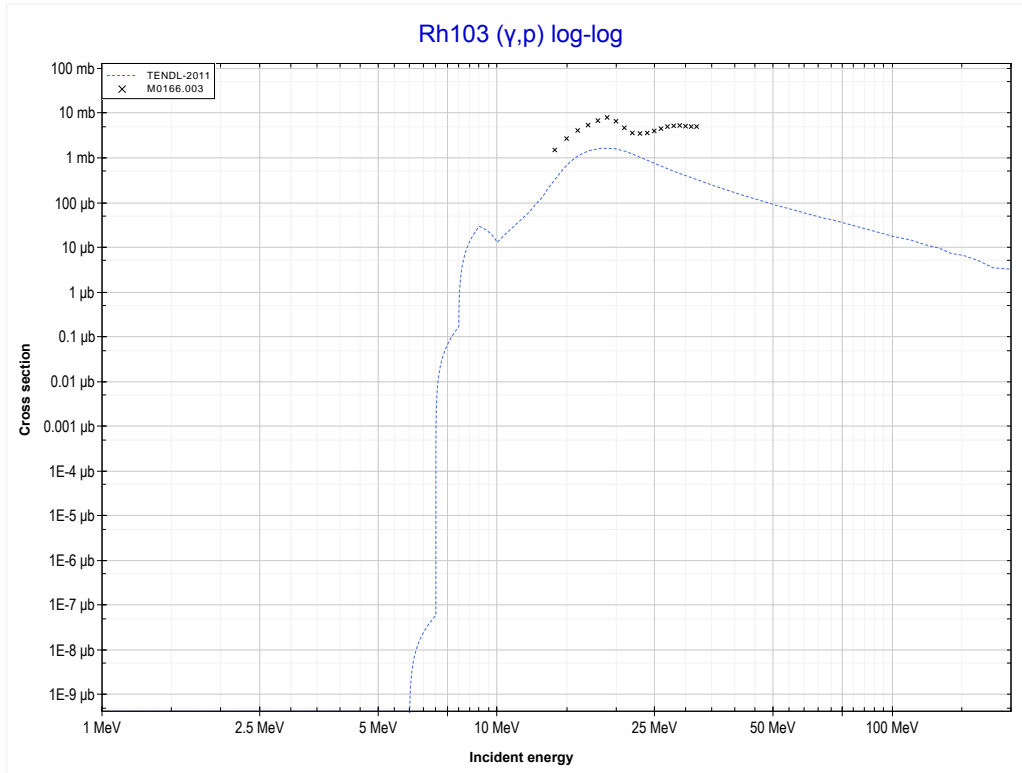
Reaction	Q-Value
Rh103(γ,d)Ru101	-13208.22 keV
Rh103($\gamma,n+p$)Ru101	-15432.79 keV

<< 42-Mo-100	45-Rh-103	47-Ag-107 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ru100 production)	MT103 (γ, p) >>



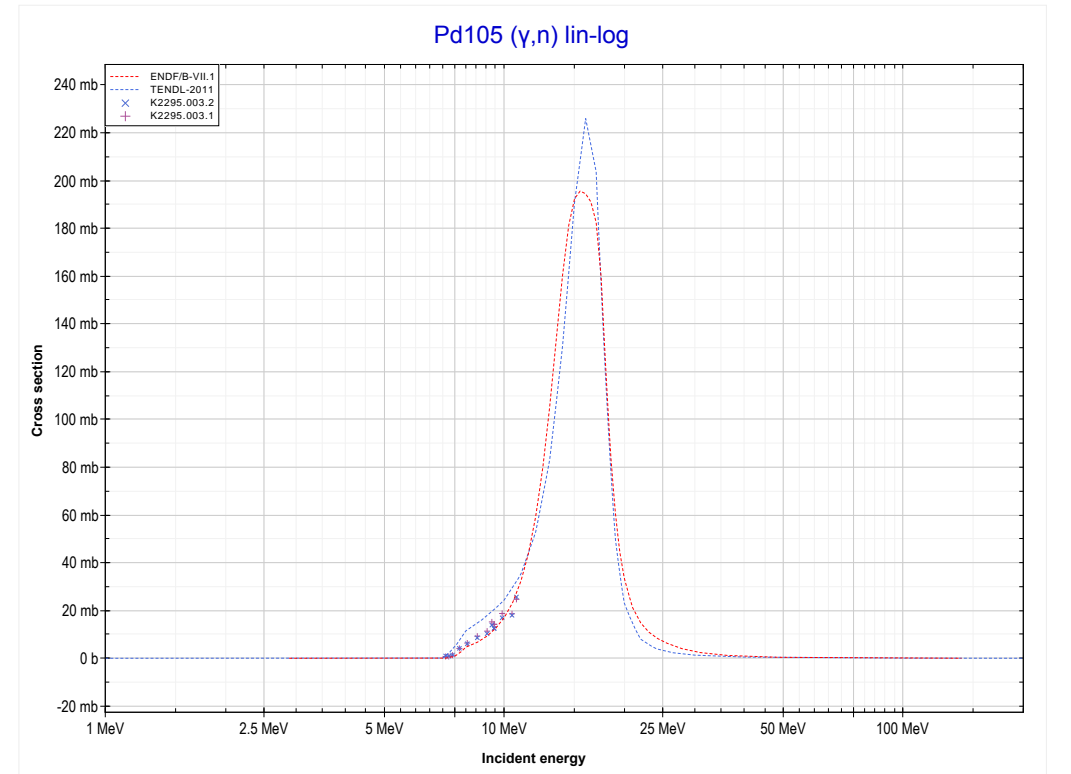
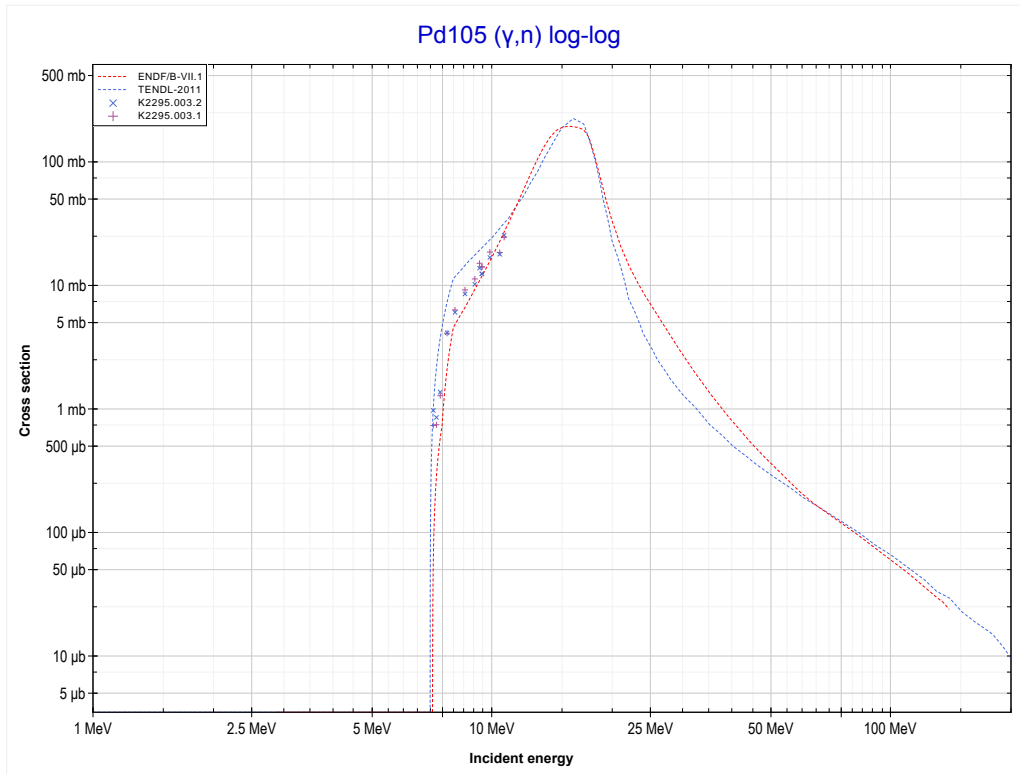
Reaction	Q-Value
Rh103(γ, t)Ru100	-13753.01 keV
Rh103($\gamma, n+d$)Ru100	-20010.24 keV
Rh103($\gamma, 2n+p$)Ru100	-22234.80 keV

<< 40-Zr-90	45-Rh-103	46-Pd-108 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (Ru102 production)	MT4 (γ, n) >>



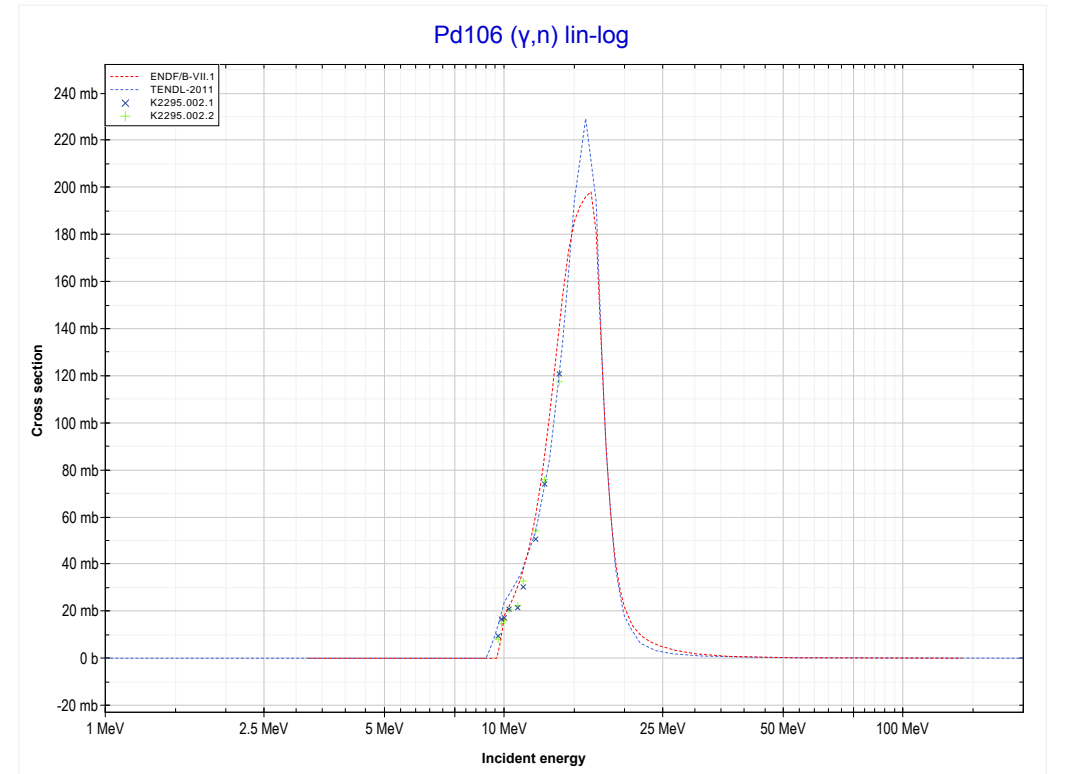
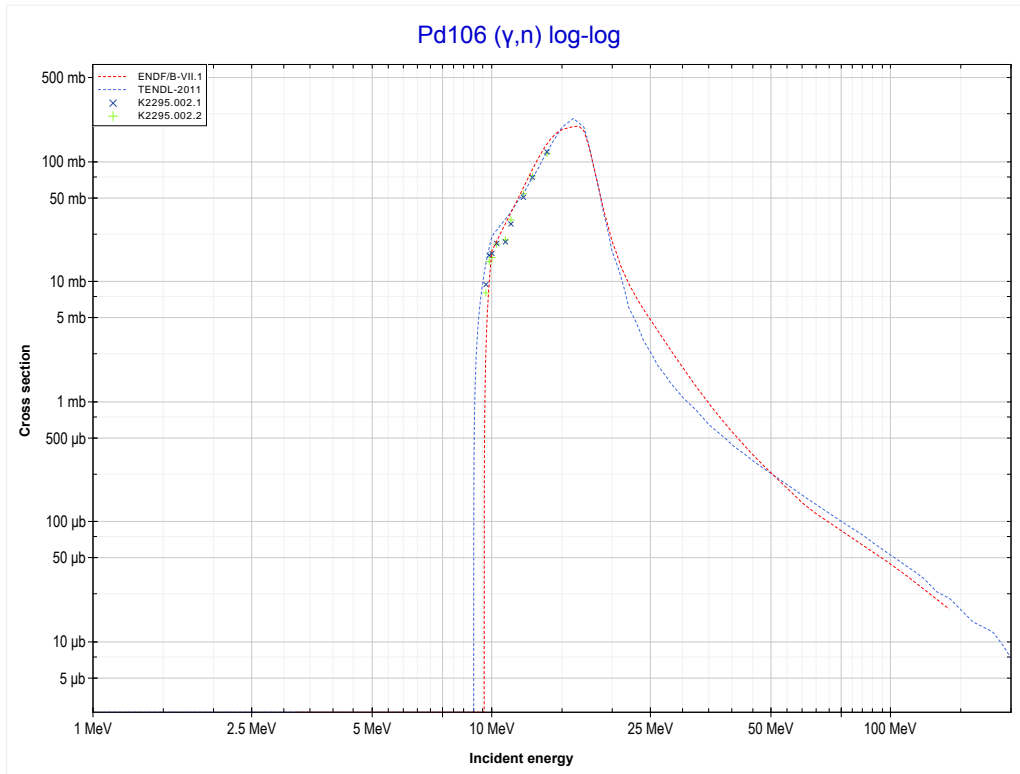
Reaction	Q-Value
Rh103(γ, p)Ru102	-6213.17 keV

<< 45-Rh-103	46-Pd-105	46-Pd-106 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Pd104 production)	MT4 (γ,n) >>



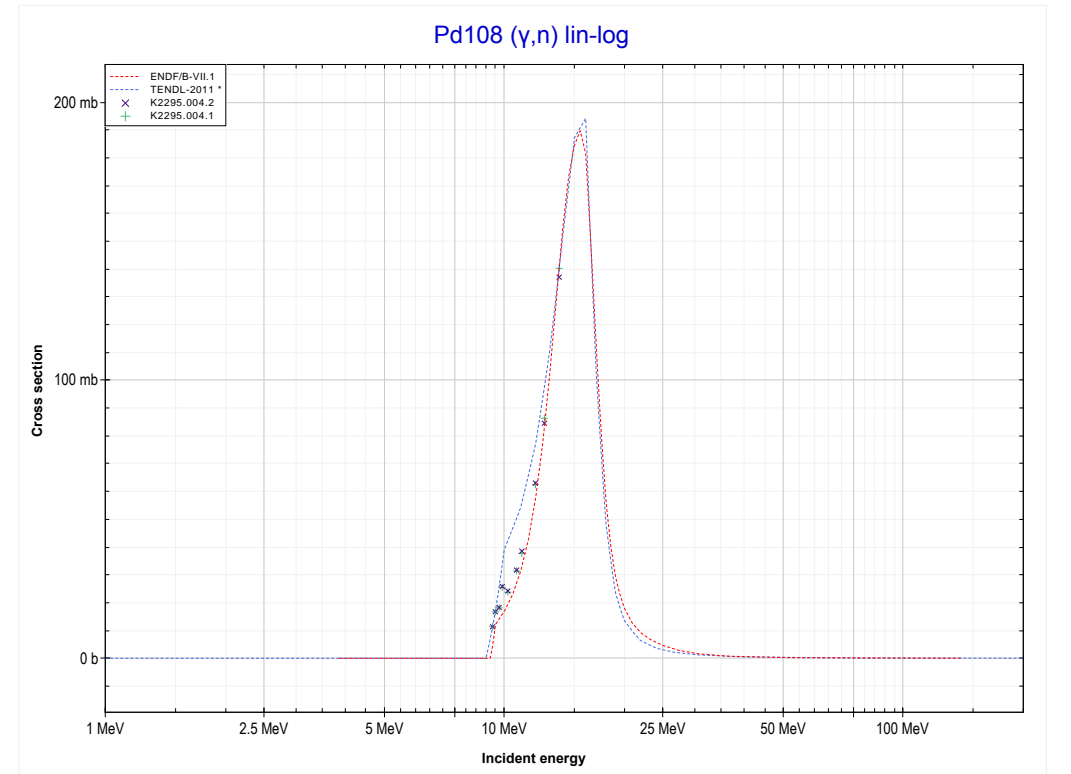
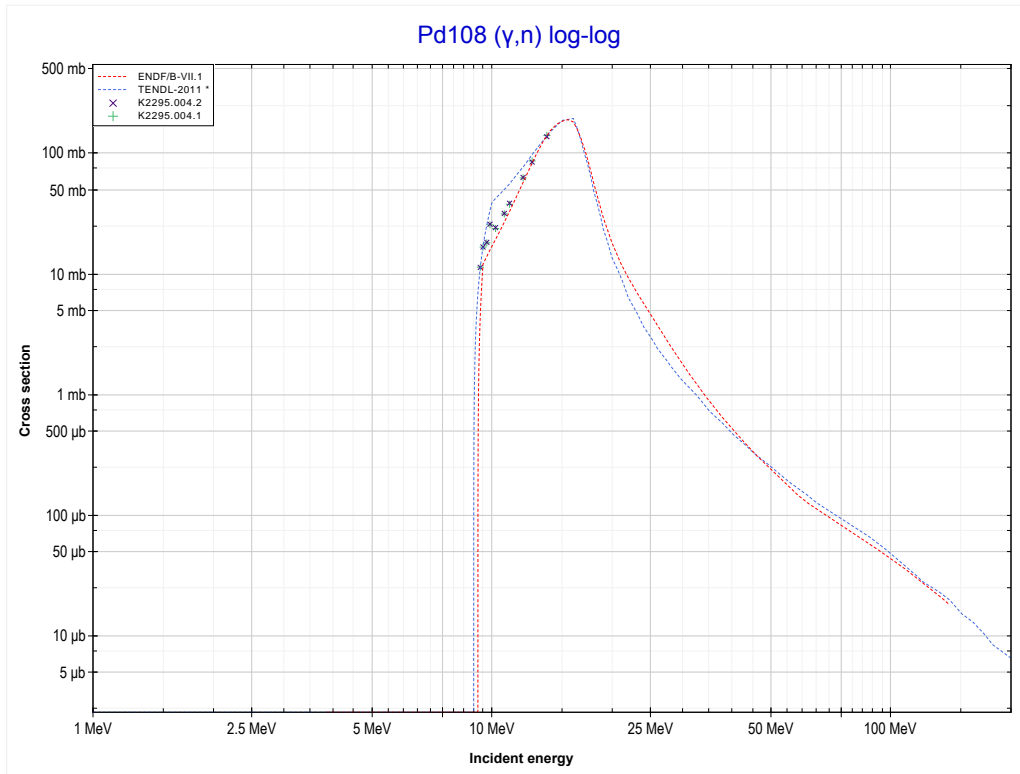
Reaction	Q-Value
Pd105(γ,n)Pd104	-7094.32 keV

<< 46-Pd-105	46-Pd-106	46-Pd-108 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Pd105 production)	MT4 (γ,n) >>



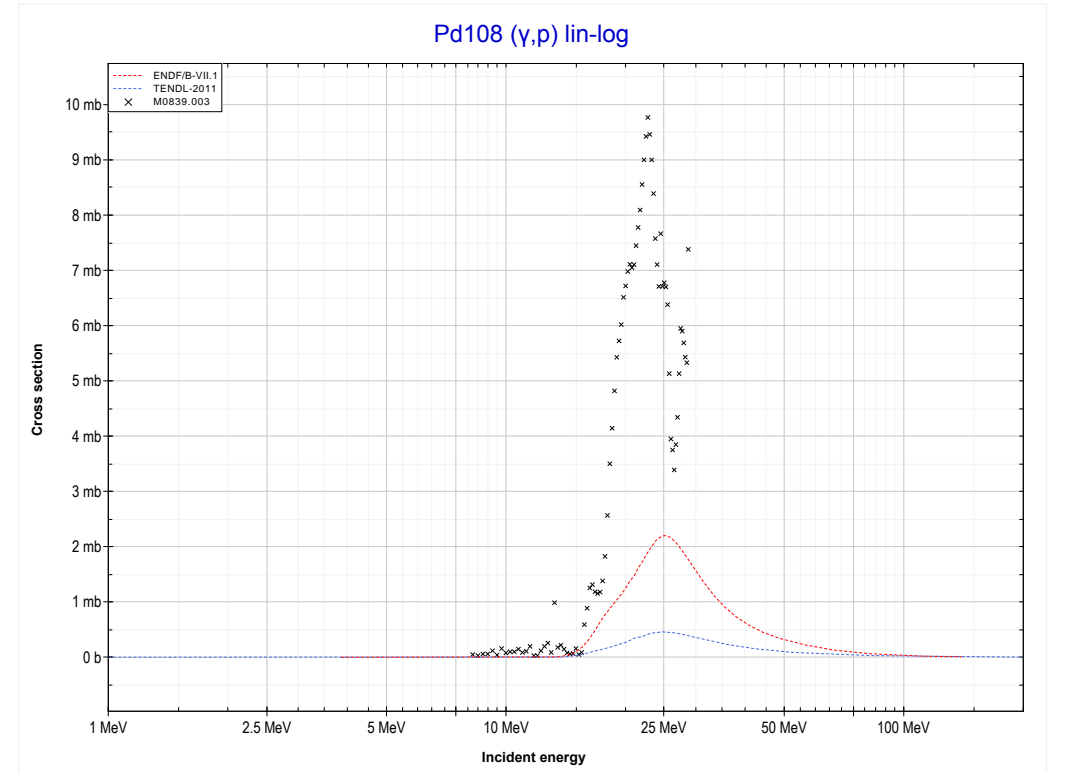
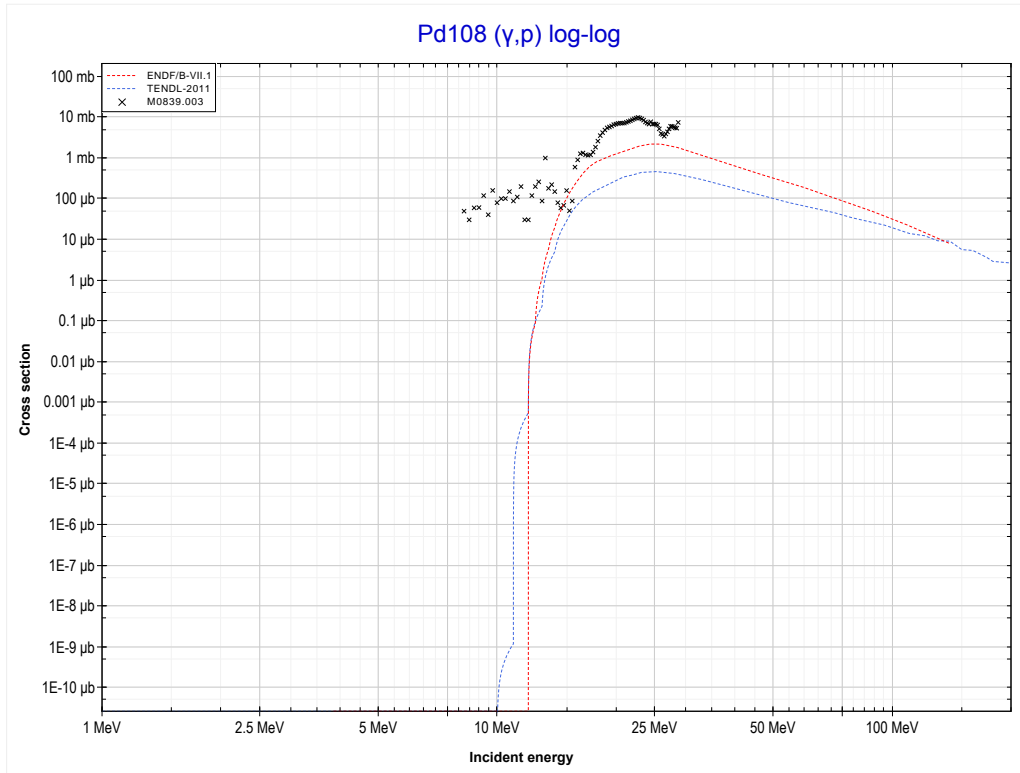
Reaction	Q-Value
Pd106(γ,n)Pd105	-9560.32 keV

<< 46-Pd-106	46-Pd-108	46-Pd-110 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Pd107 production)	MT103 (γ,p) >>



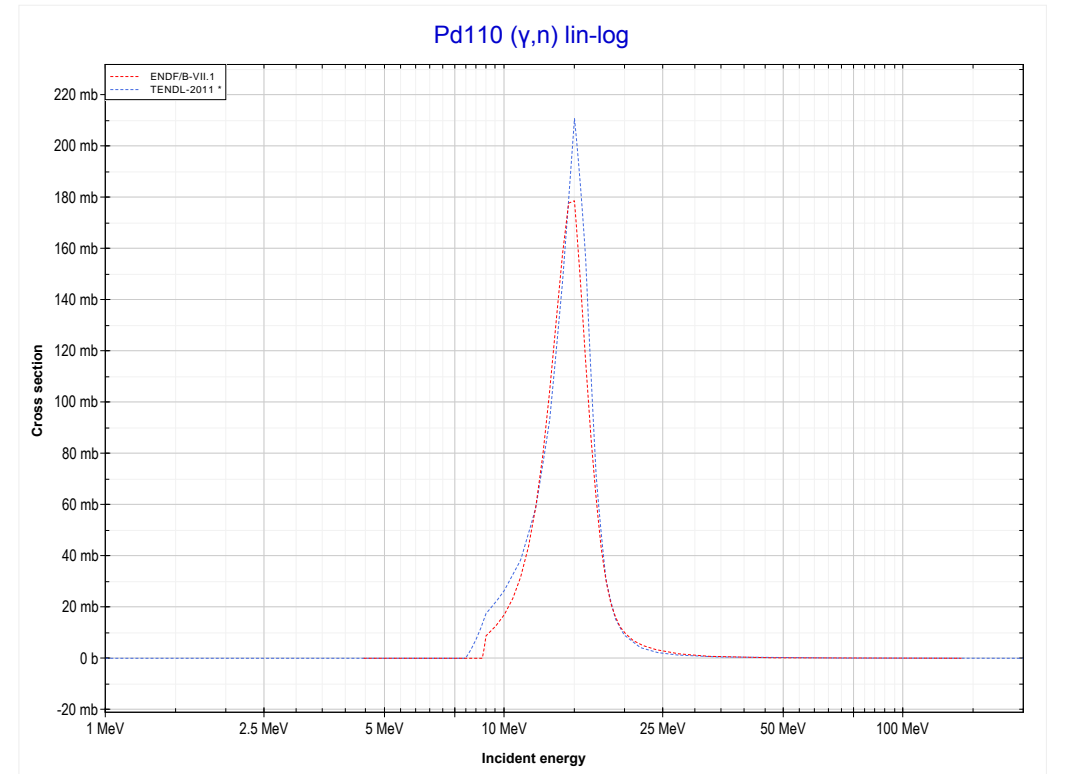
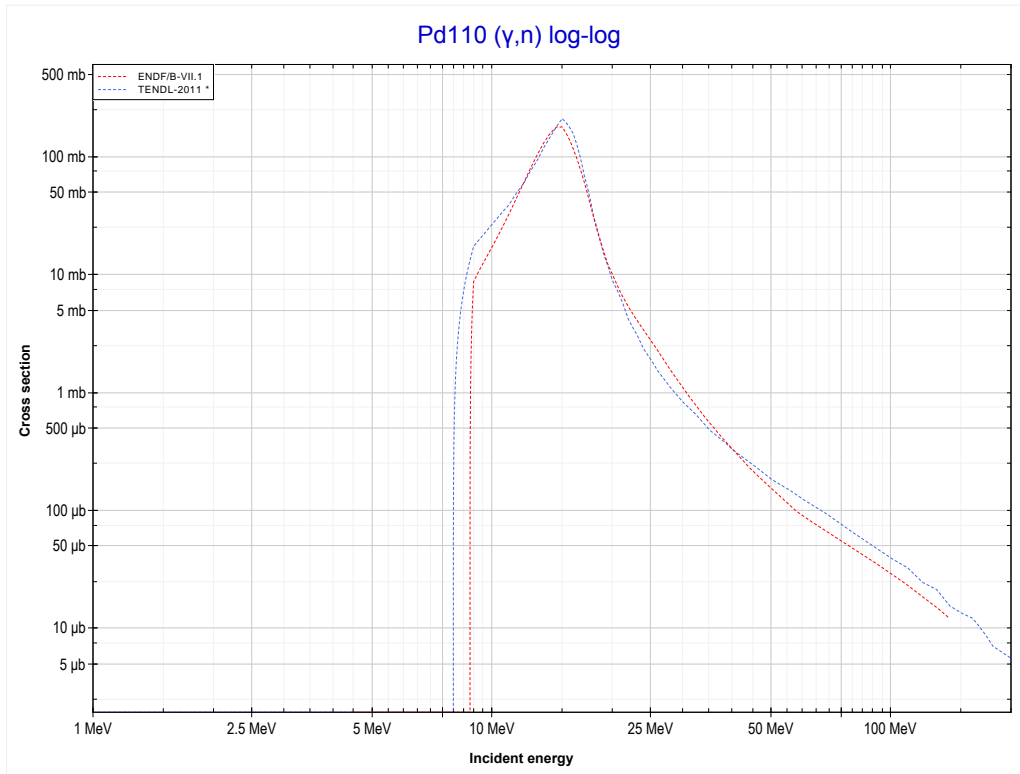
Reaction	Q-Value
Pd108(γ,n)Pd107	-9227.32 keV

<< 45-Rh-103	46-Pd-108	50-Sn-112 >>
<< MT4 (γ,n)	MT103 (γ,p) or MT5 (Rh107 production)	MT4 (γ,n) >>



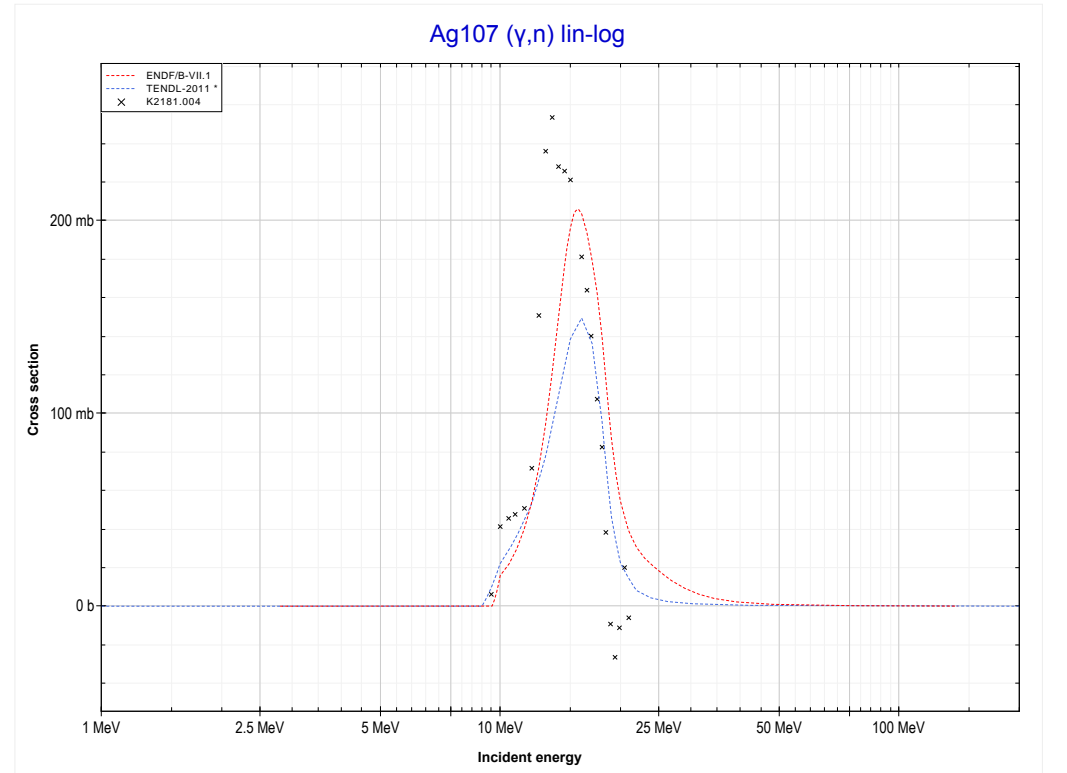
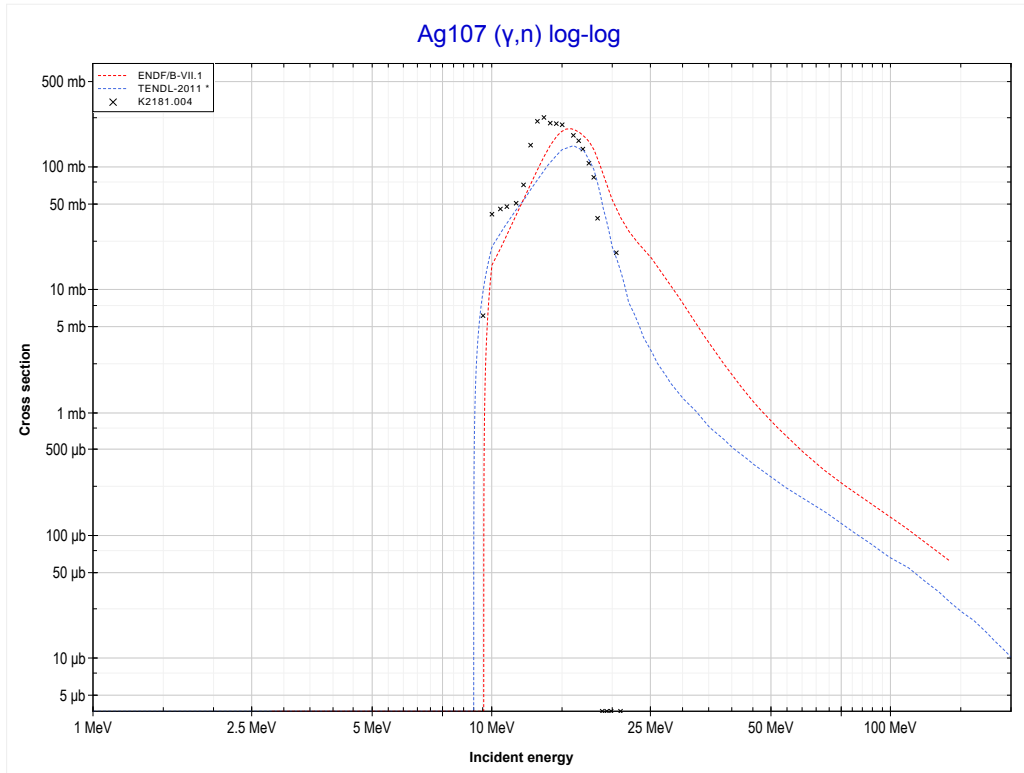
Reaction	Q-Value
Pd108(γ,p)Rh107	-9949.97 keV

<< 46-Pd-108	46-Pd-110	47-Ag-107 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Pd109 production)	MT4 (γ,n) >>



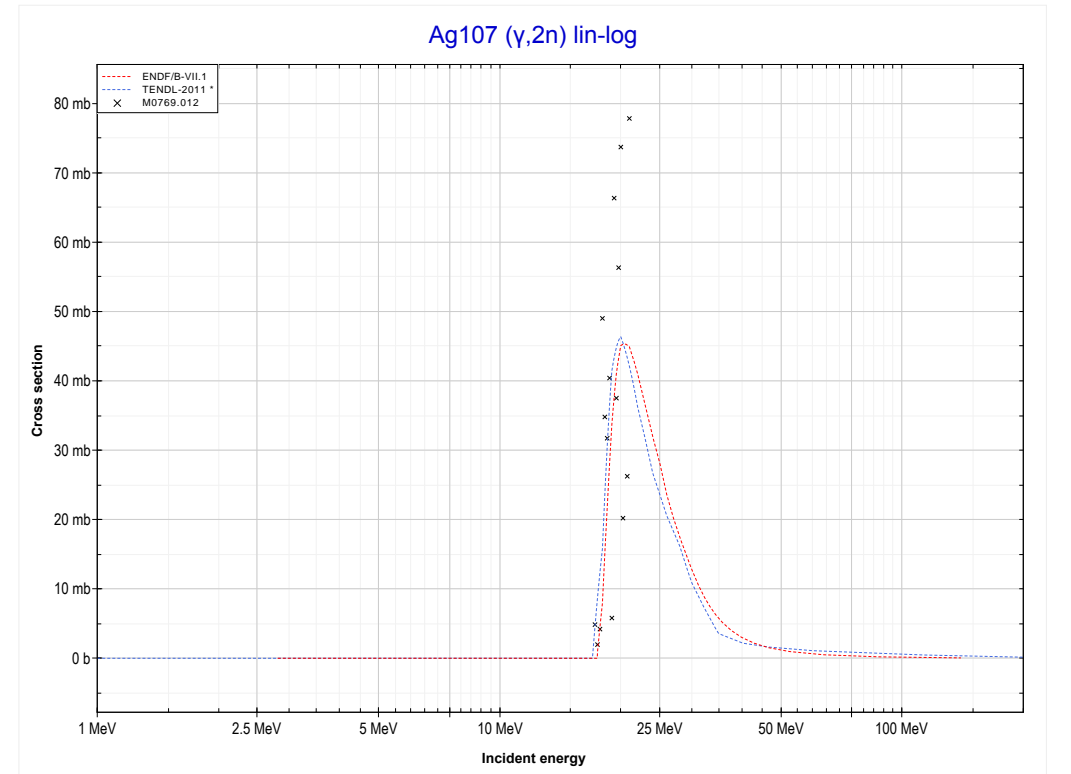
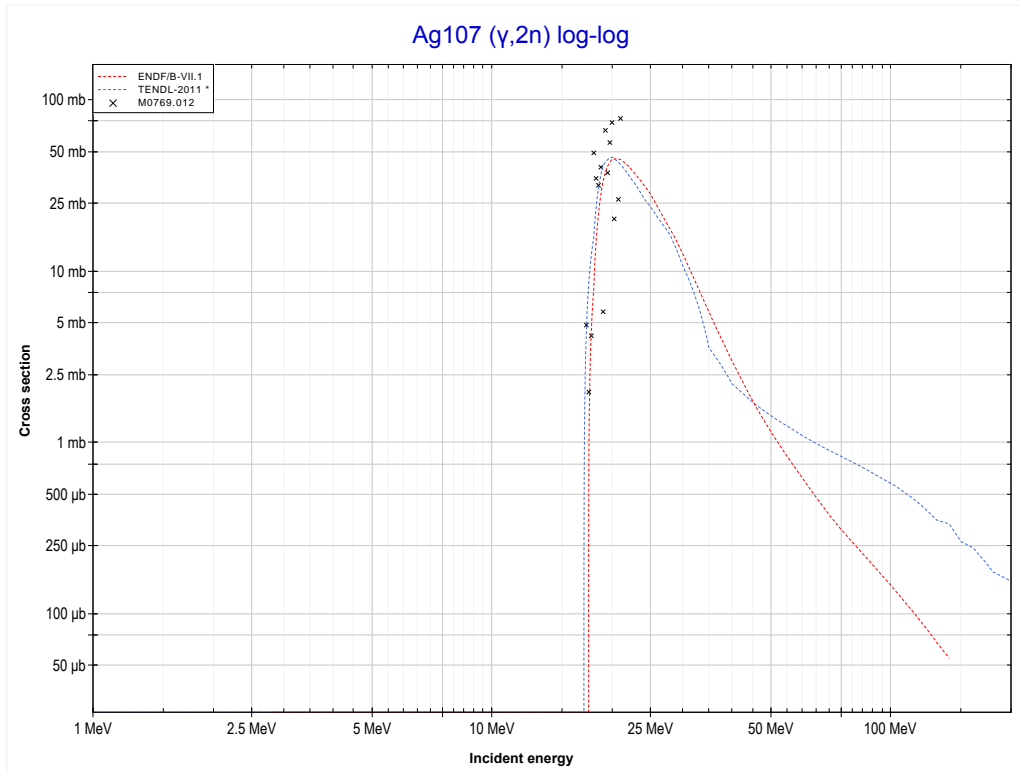
Reaction	Q-Value
Pd110(γ,n)Pd109	-8813.32 keV

<< 46-Pd-110	47-Ag-107	47-Ag-109 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ag106 production)	MT16 ($\gamma,2n$) >>



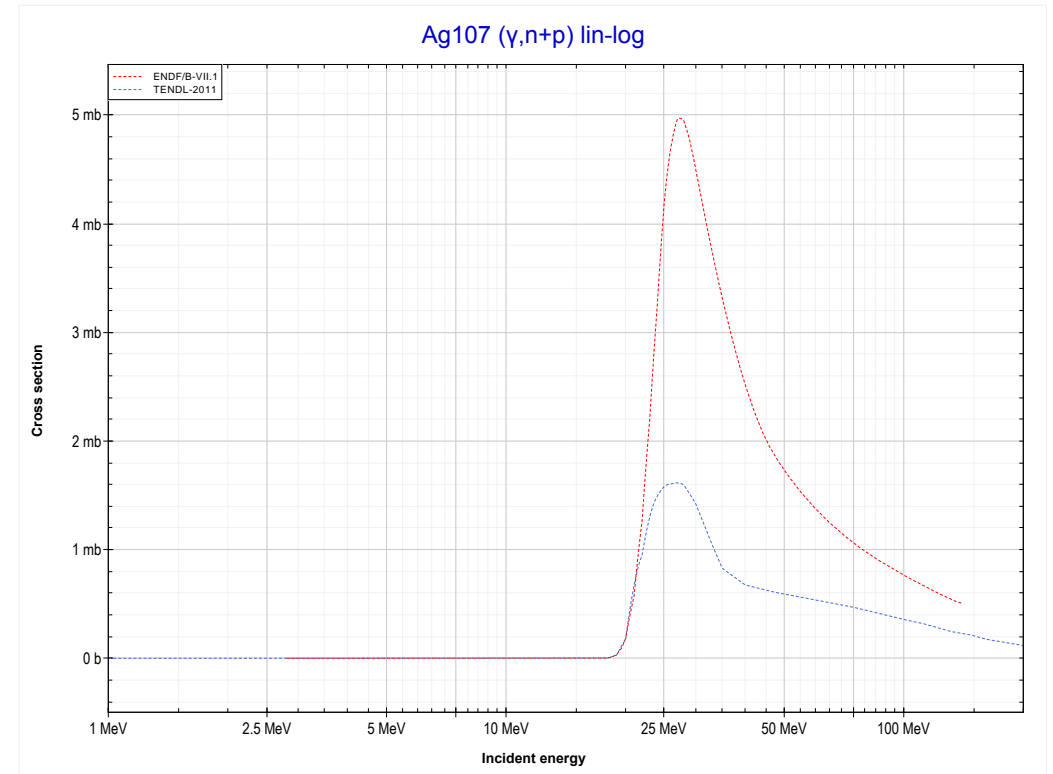
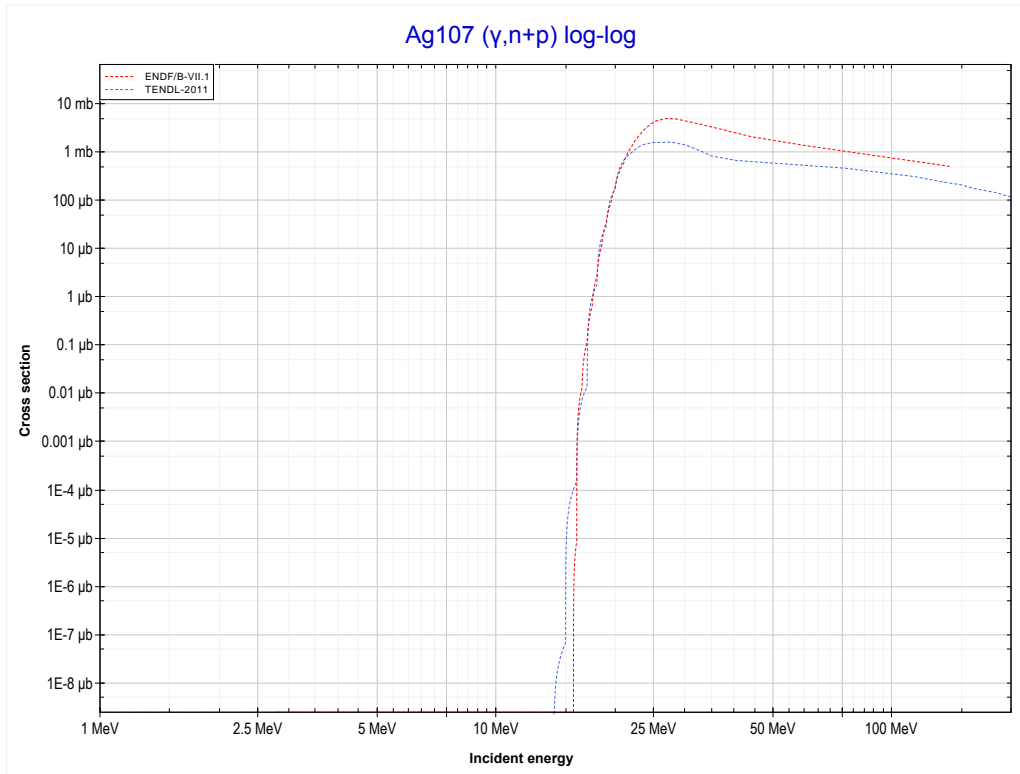
Reaction	Q-Value
Ag107(γ,n)Ag106	-9536.32 keV

<< 45-Rh-103	47-Ag-107	49-In-115 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ag105 production)	MT28 ($\gamma,n+p$) >>



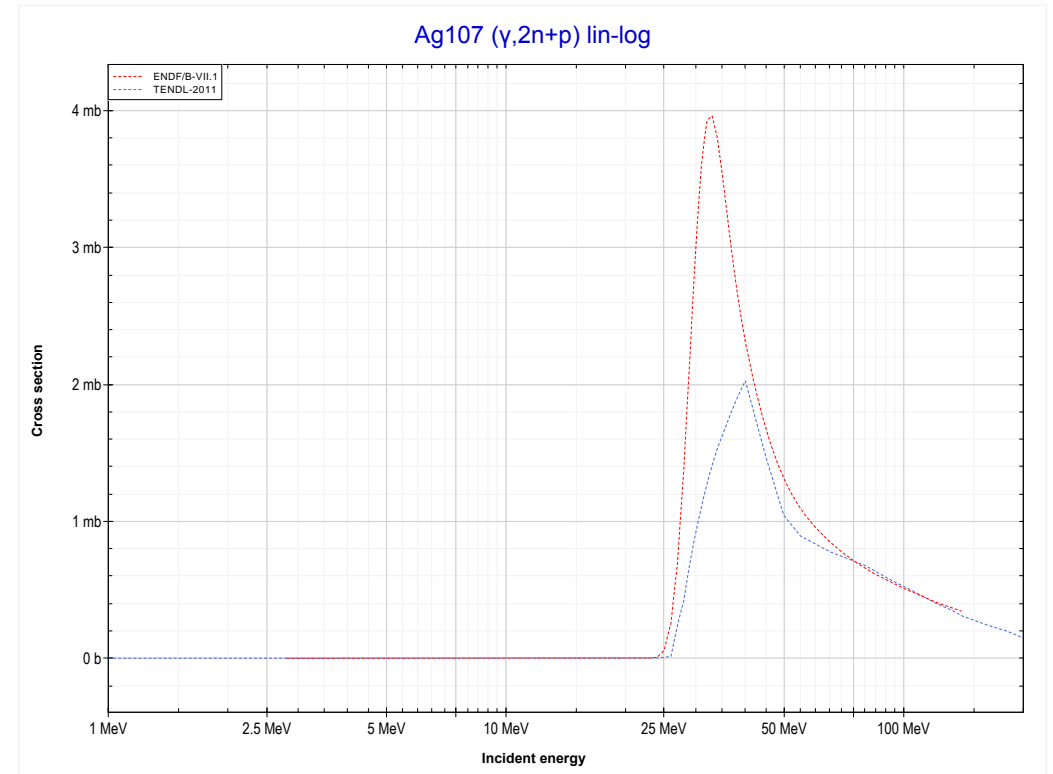
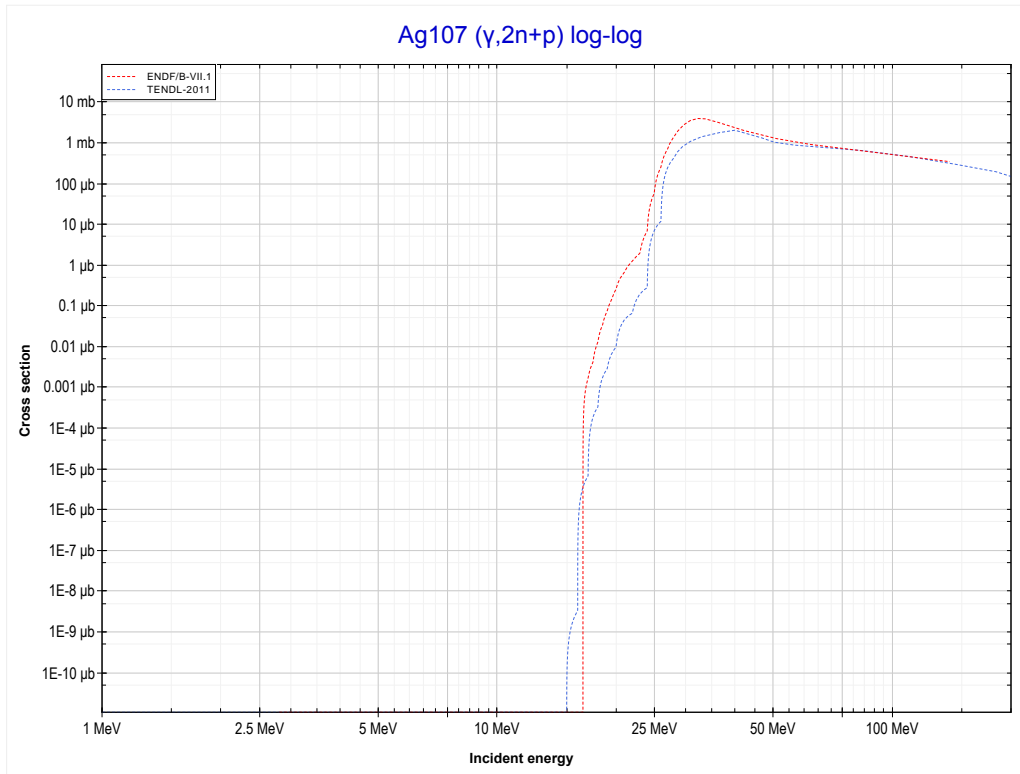
Reaction	Q-Value
Ag107($\gamma,2n$)Ag105	-17476.63 keV

<< 45-Rh-103	47-Ag-107	49-In-115 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pd105 production)	MT41 ($\gamma,2n+p$) >>



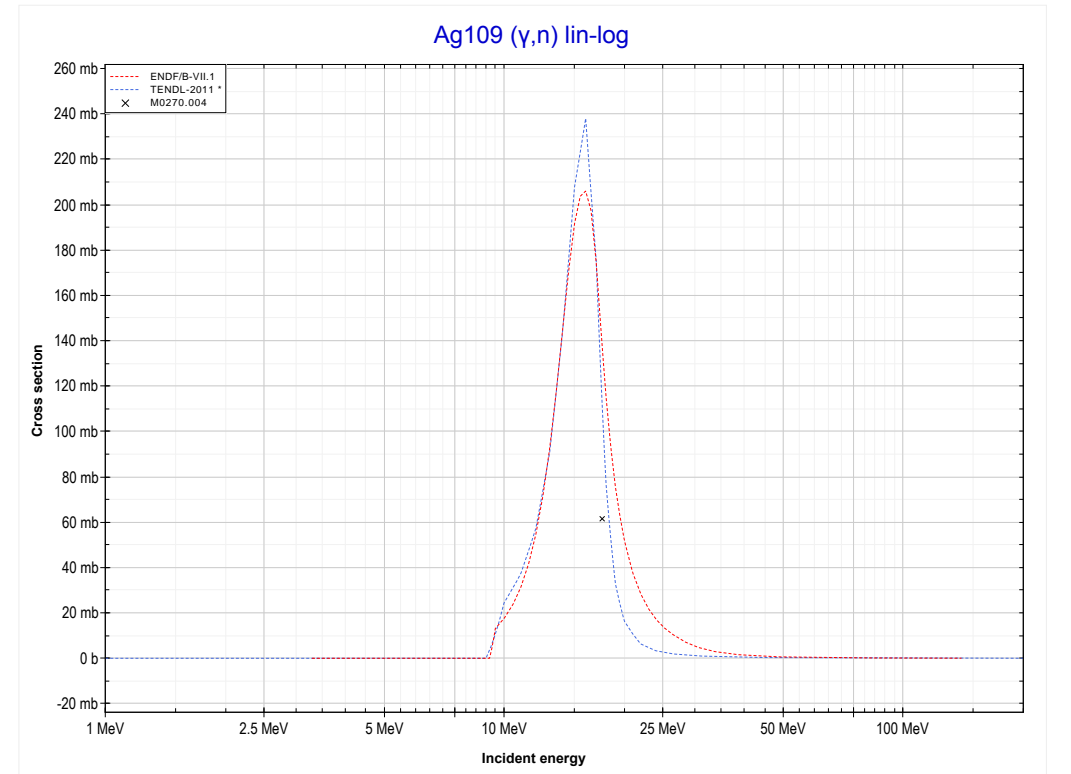
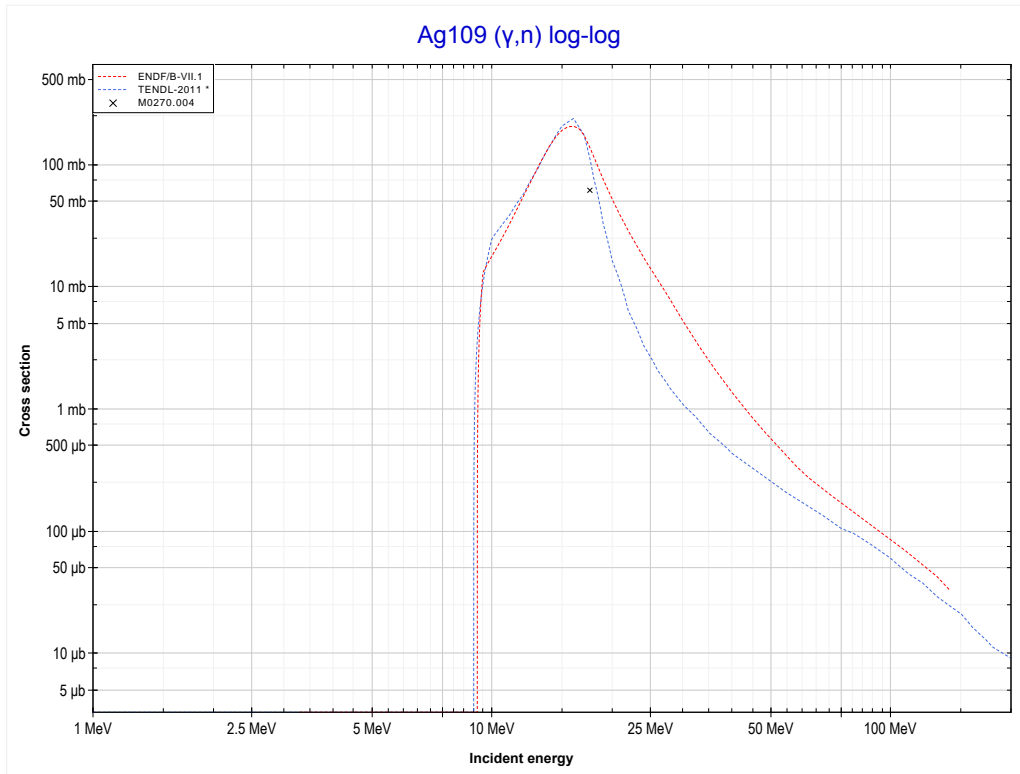
Reaction	Q-Value
Ag107(γ,d)Pd105	-13124.72 keV
Ag107($\gamma,n+p$)Pd105	-15349.29 keV

<< 45-Rh-103	47-Ag-107	49-In-115 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Pd104 production)	MT4 (γ, n) >>



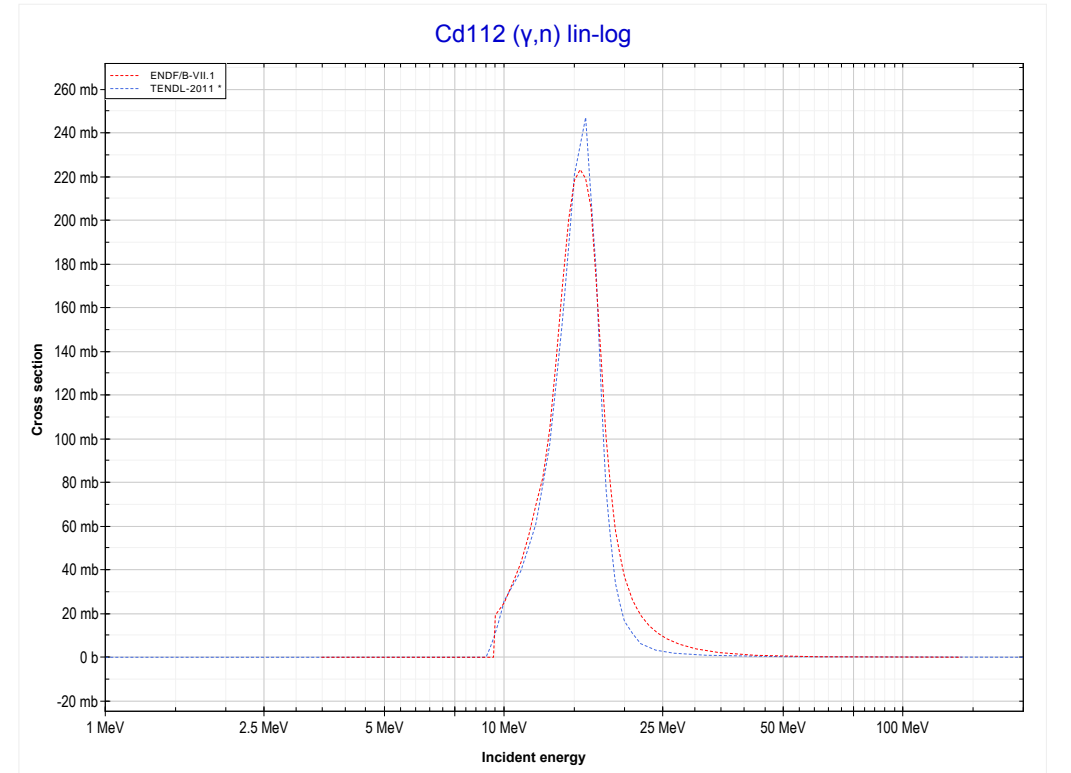
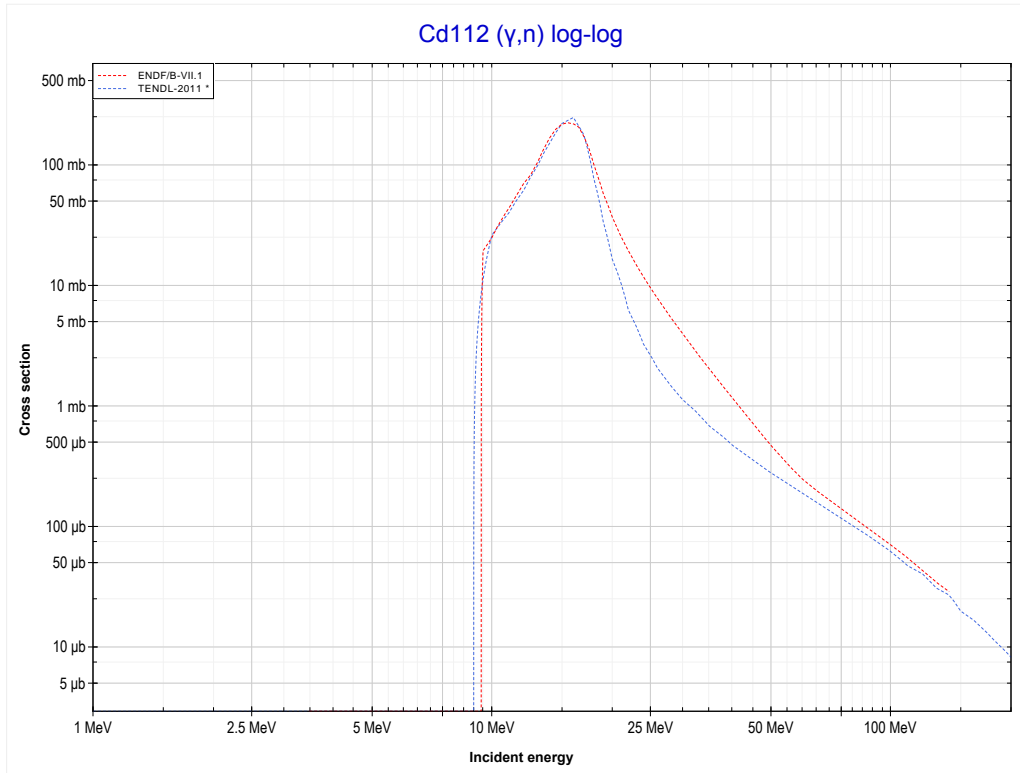
Reaction	Q-Value
Ag107(γ, t)Pd104	-13961.81 keV
Ag107($\gamma, n+d$)Pd104	-20219.04 keV
Ag107($\gamma, 2n+p$)Pd104	-22443.60 keV

<< 47-Ag-107	47-Ag-109	48-Cd-112 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Ag108 production)	MT4 (γ,n) >>



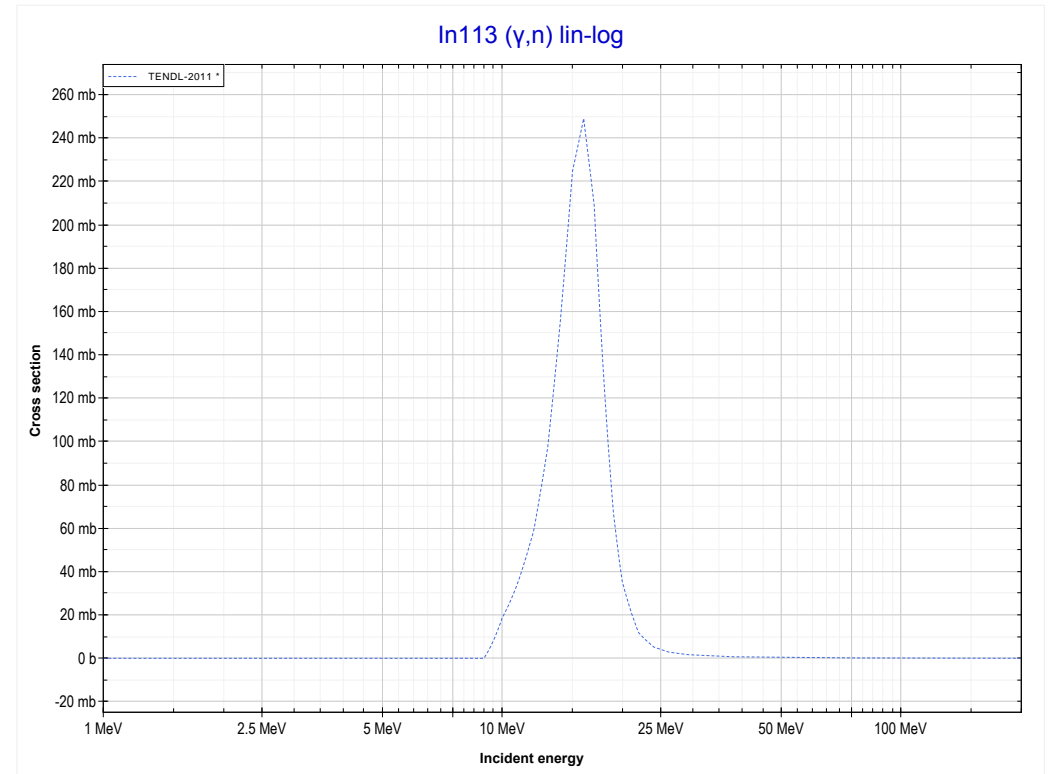
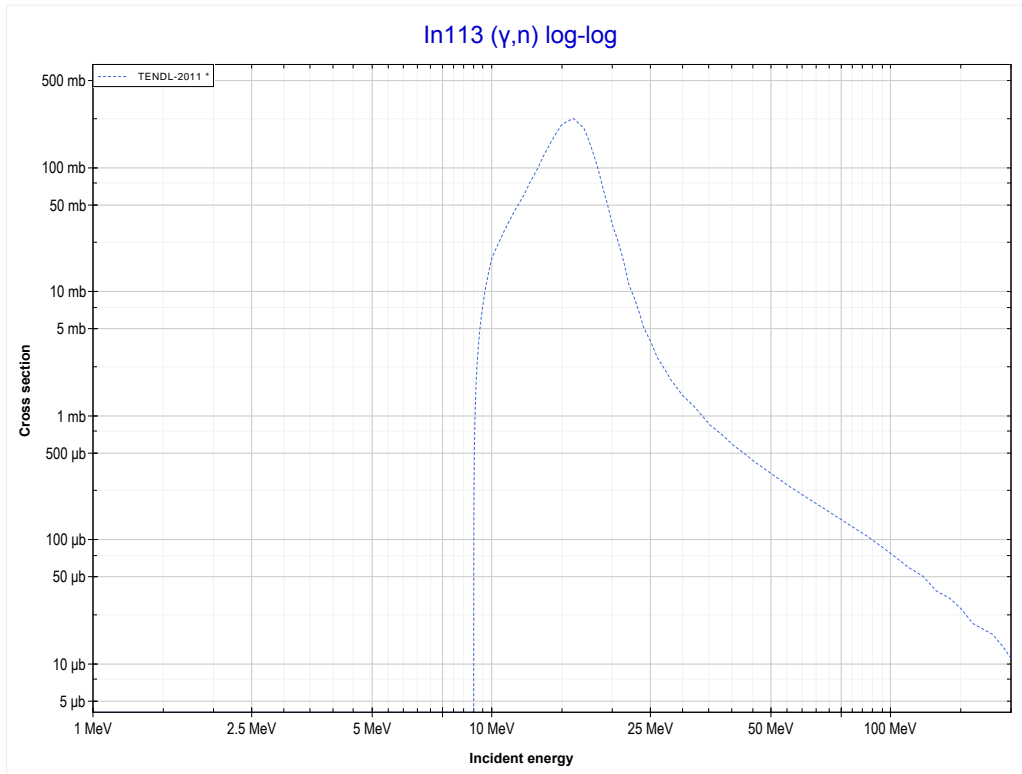
Reaction	Q-Value
Ag109(γ,n)Ag108	-9192.02 keV

<< 47-Ag-109	48-Cd-112	49-In-113 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Cd111 production)	MT4 (γ,n) >>



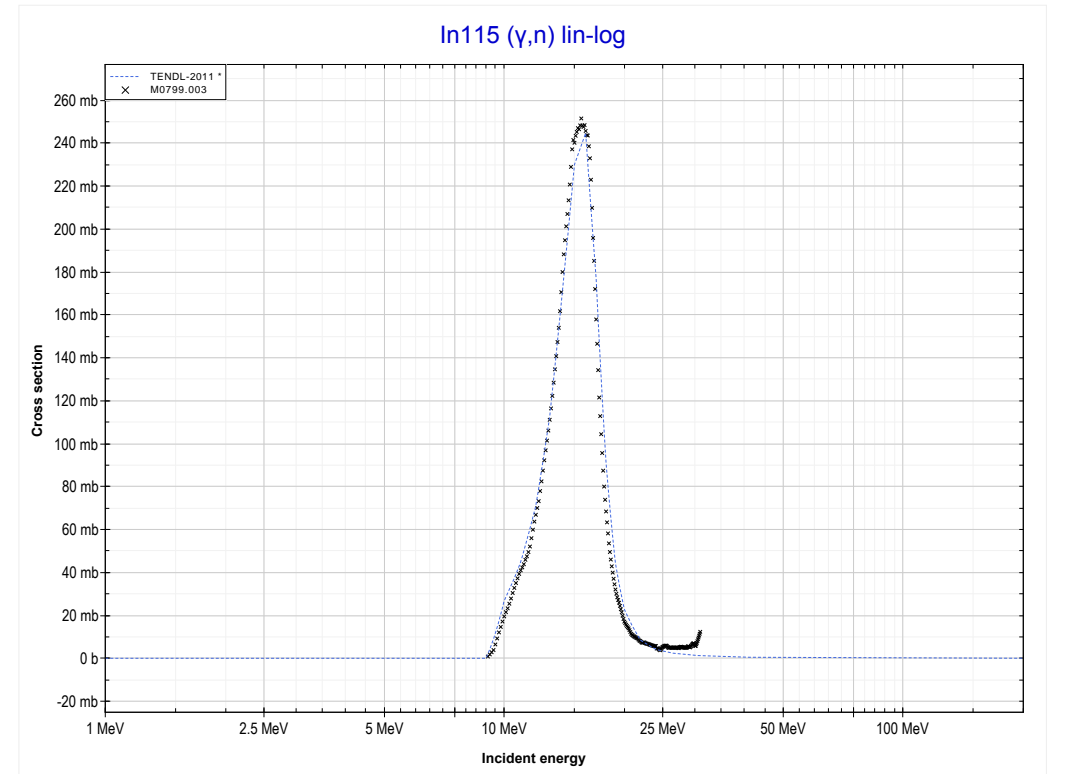
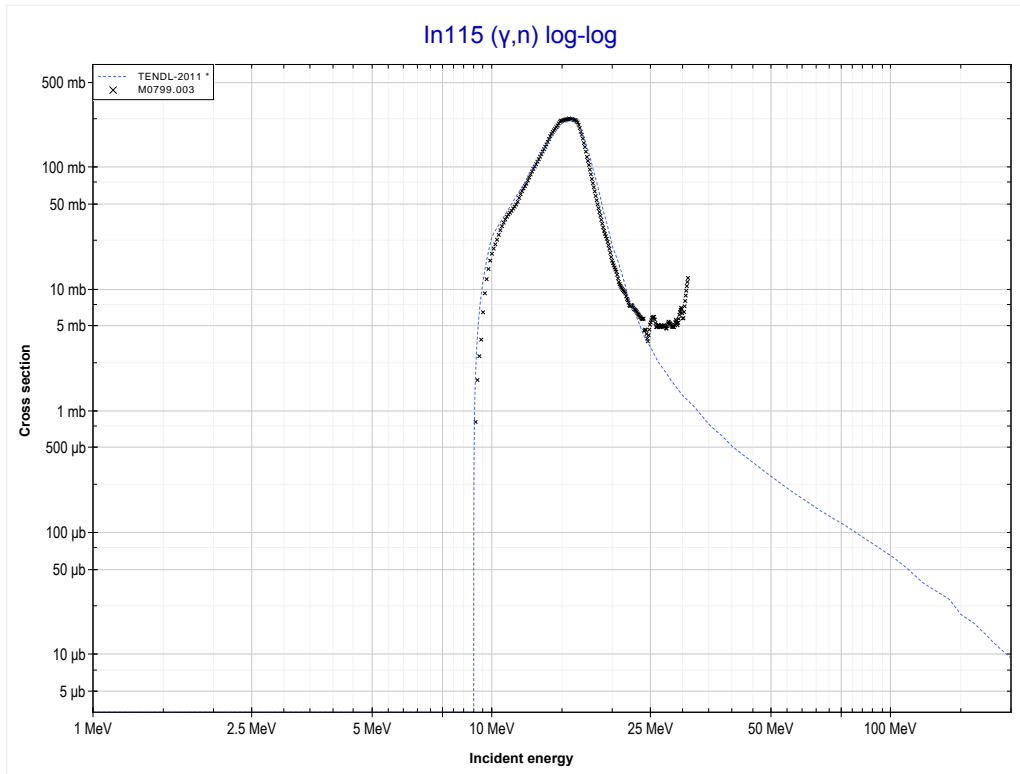
Reaction	Q-Value
Cd112(γ,n)Cd111	-9394.32 keV

<< 48-Cd-112	49-In-113	49-In-115 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (In112 production)	MT4 (γ,n) >>



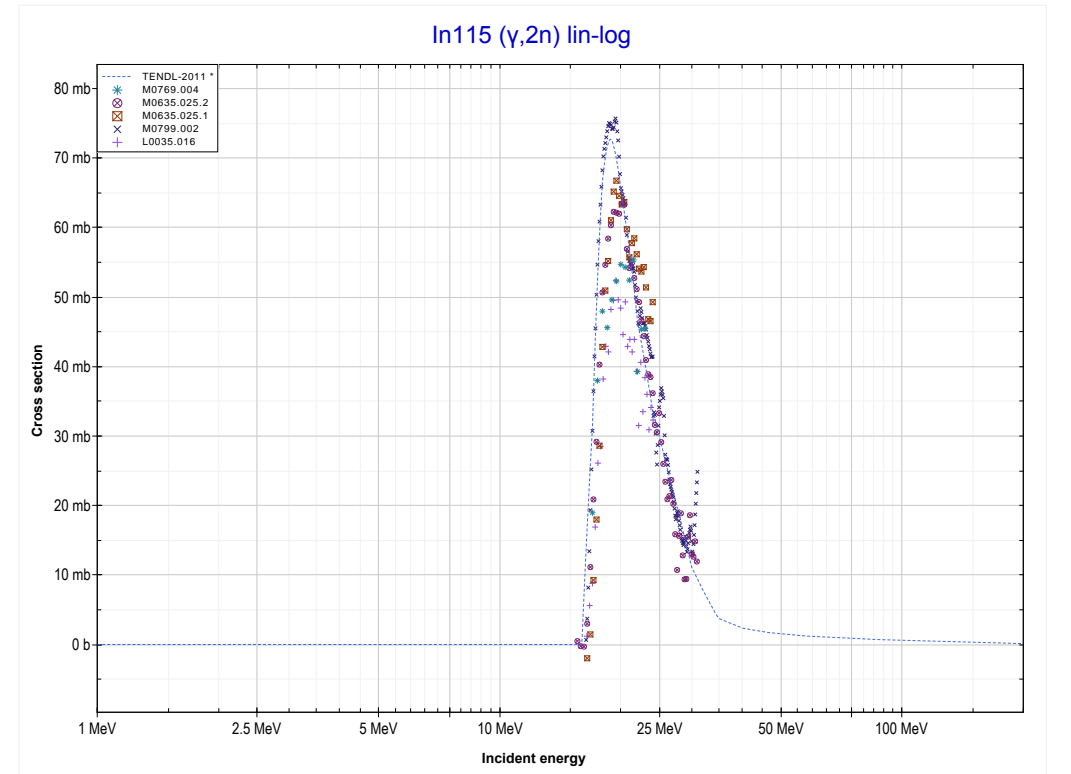
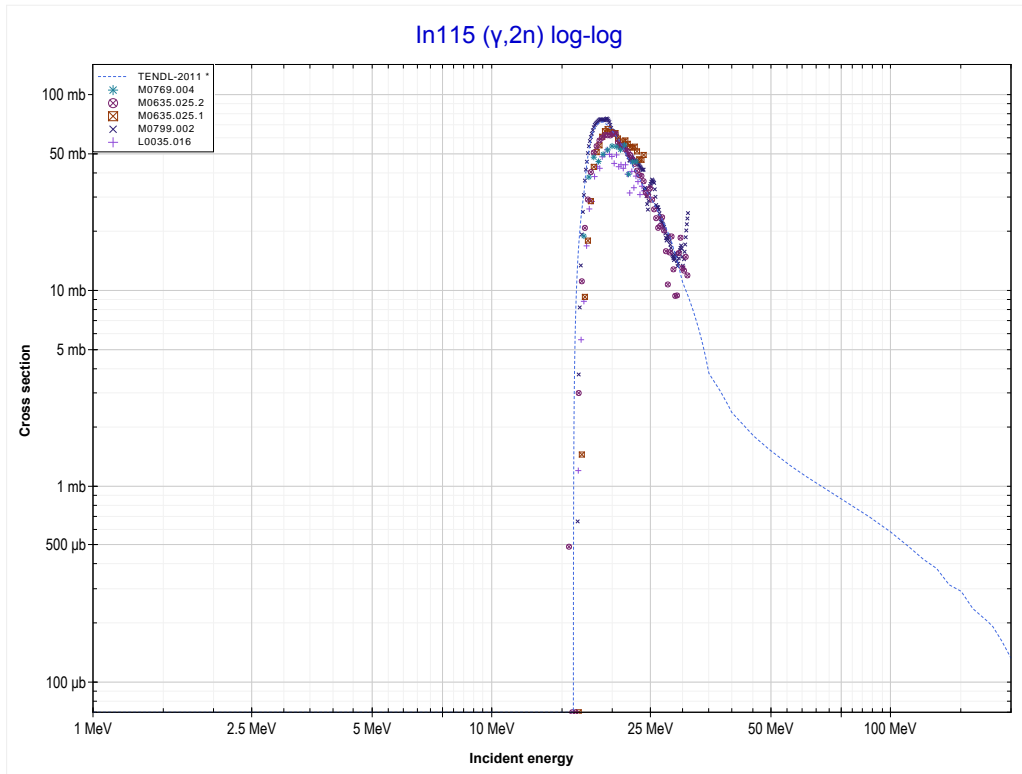
Reaction	Q-Value
$\text{In113}(\gamma,n)\text{In112}$	-9445.32 keV

<< 49-In-113	49-In-115	50-Sn-112 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (In114 production)	MT16 ($\gamma,2n$) >>



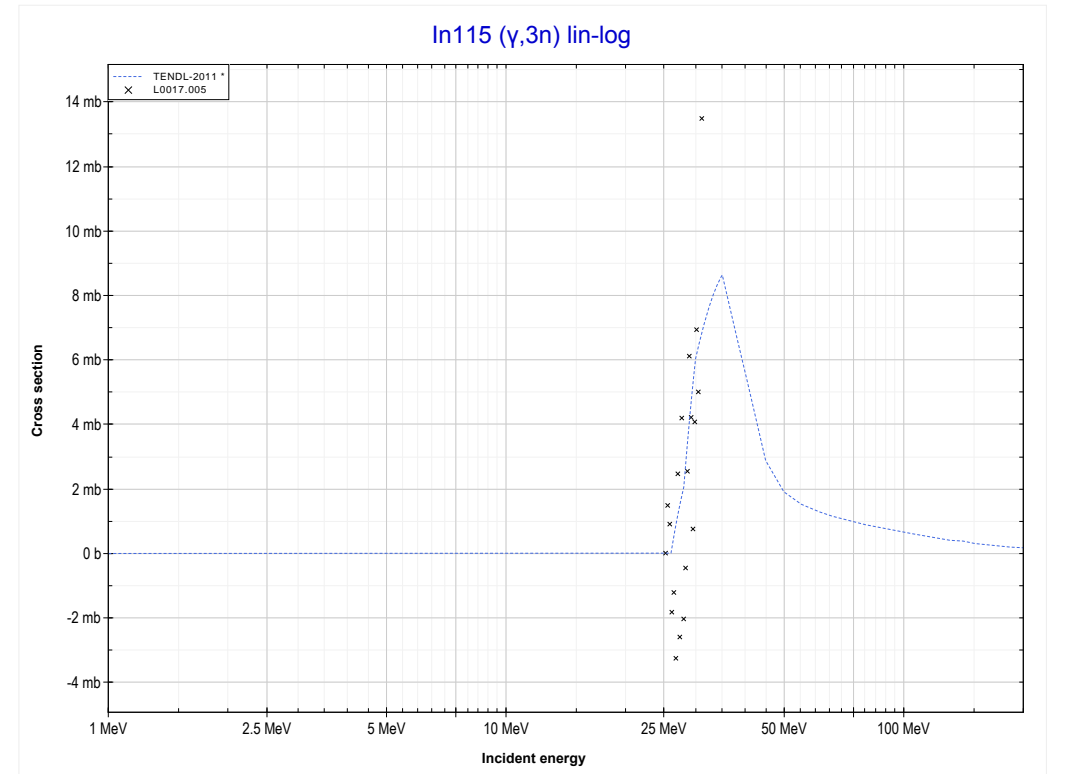
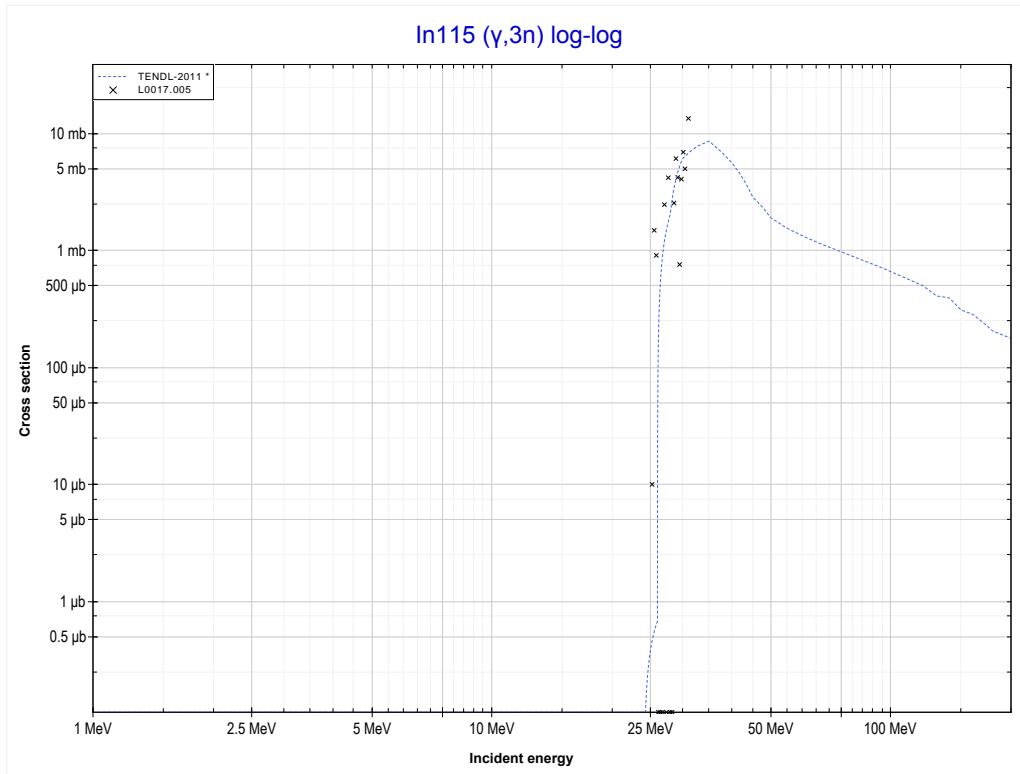
Reaction	Q-Value
In115(γ,n)In114	-9036.32 keV

<< 47-Ag-107	49-In-115	50-Sn-112 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (In113 production)	MT17 ($\gamma,3n$) >>



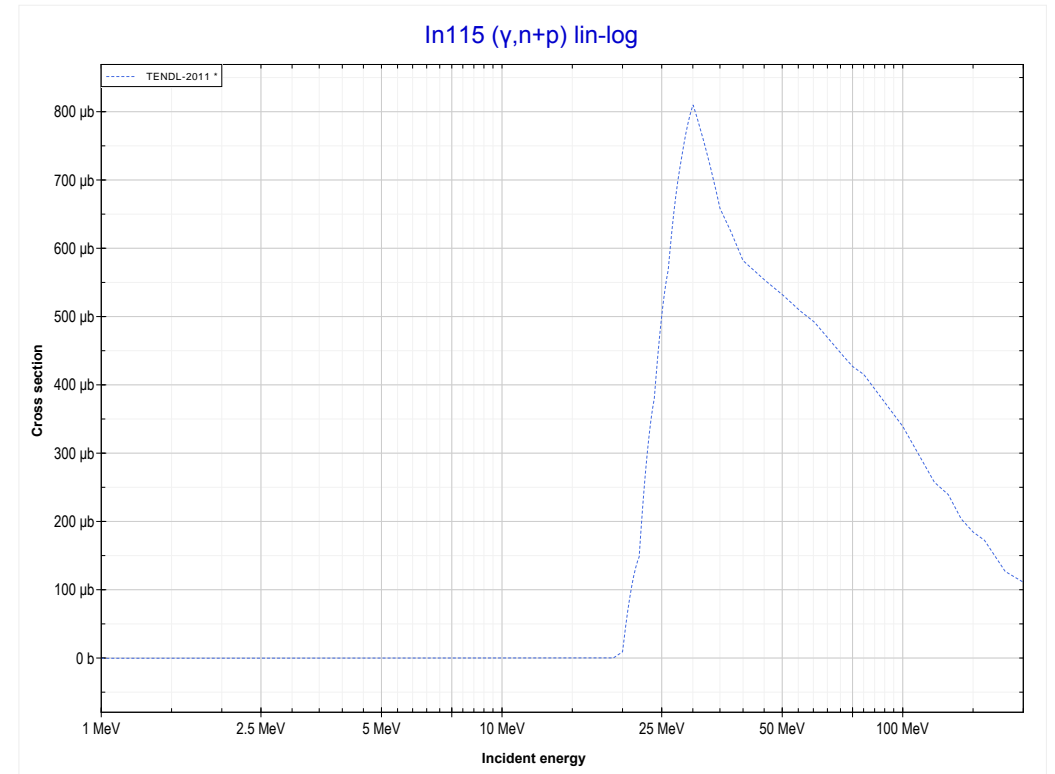
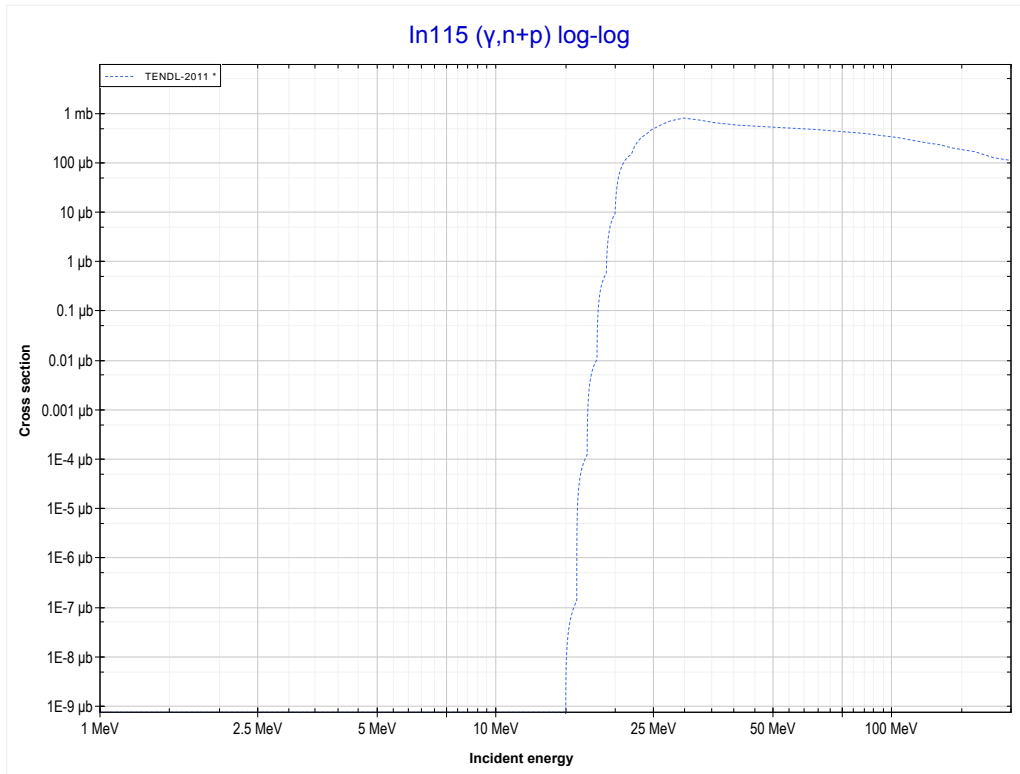
Reaction	Q-Value
In115($\gamma,2n$)In113	-16309.63 keV

<< 43-Tc-99	49-In-115	50-Sn-117 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (In112 production)	MT28 ($\gamma,n+p$) >>



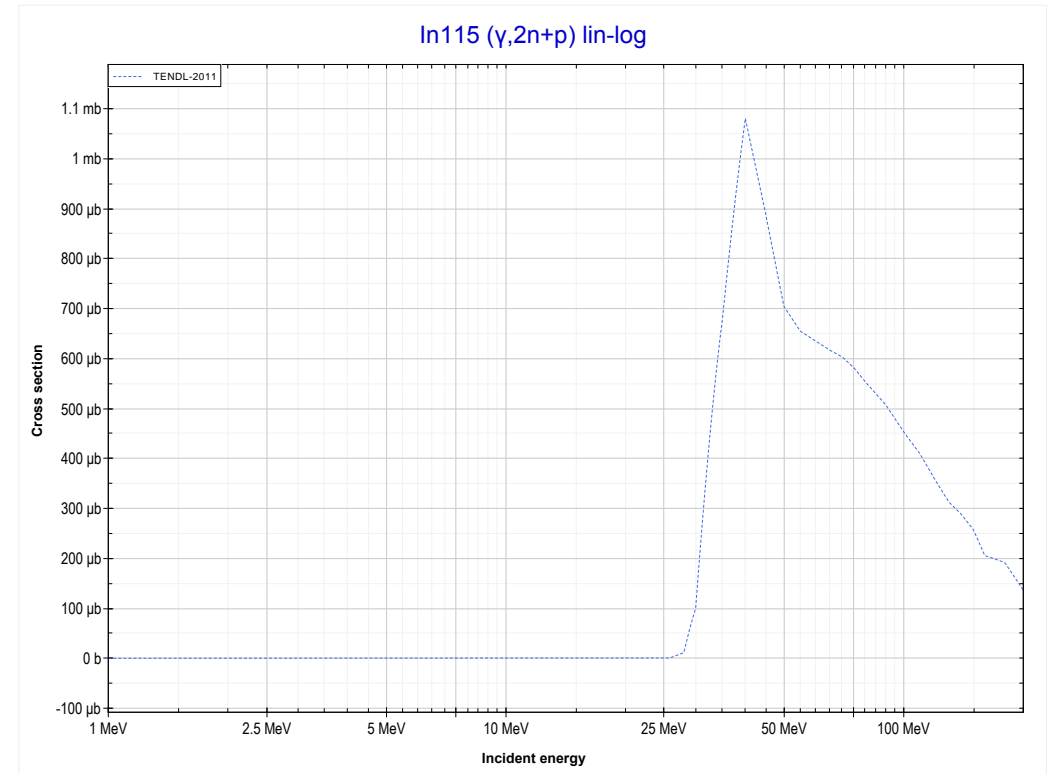
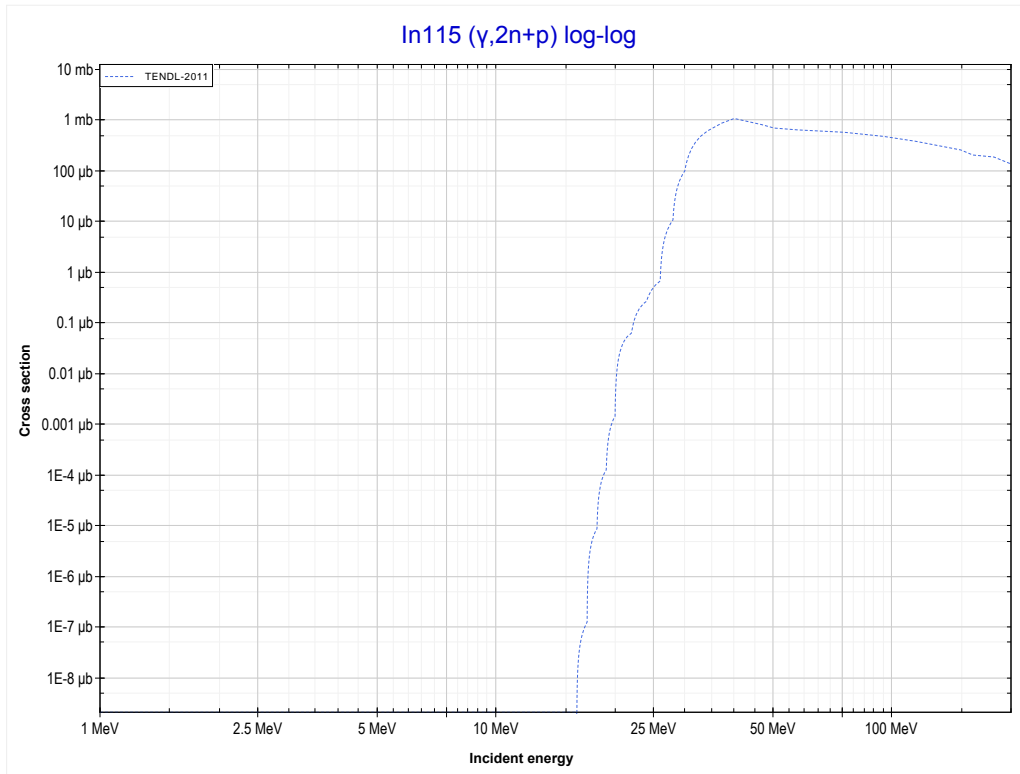
Reaction	Q-Value
In115($\gamma,3n$)In112	-25754.95 keV

<< 47-Ag-107	49-In-115	50-Sn-112 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Cd113 production)	MT41 ($\gamma,2n+p$) >>



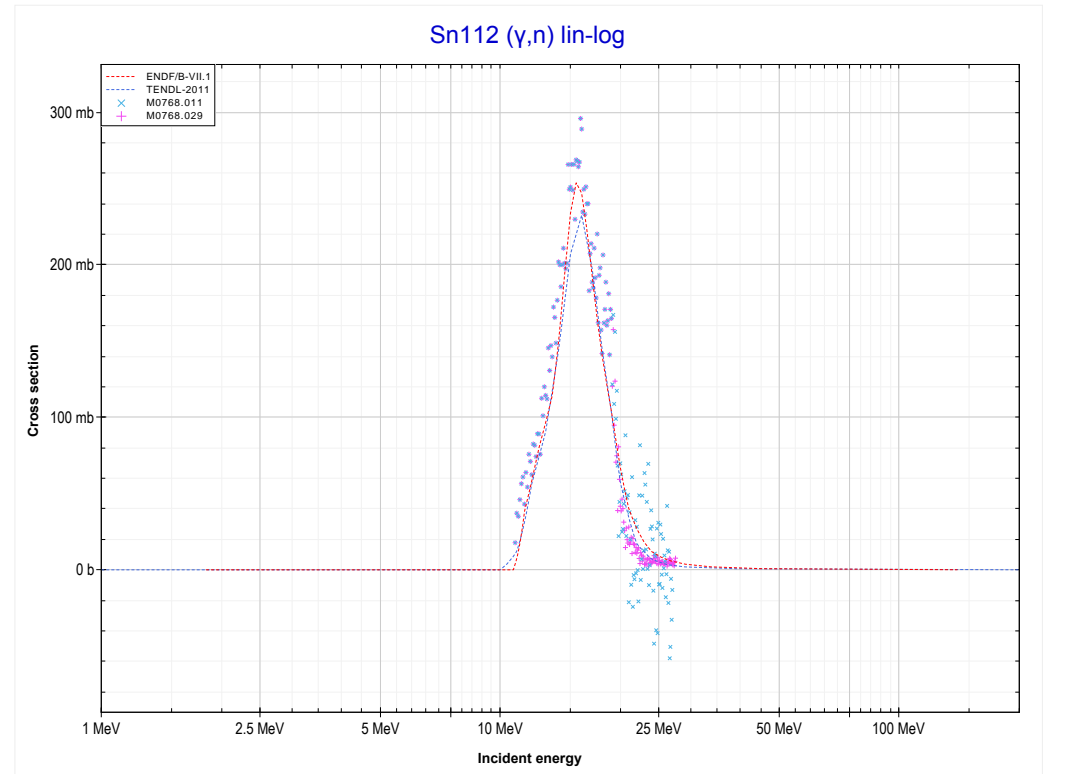
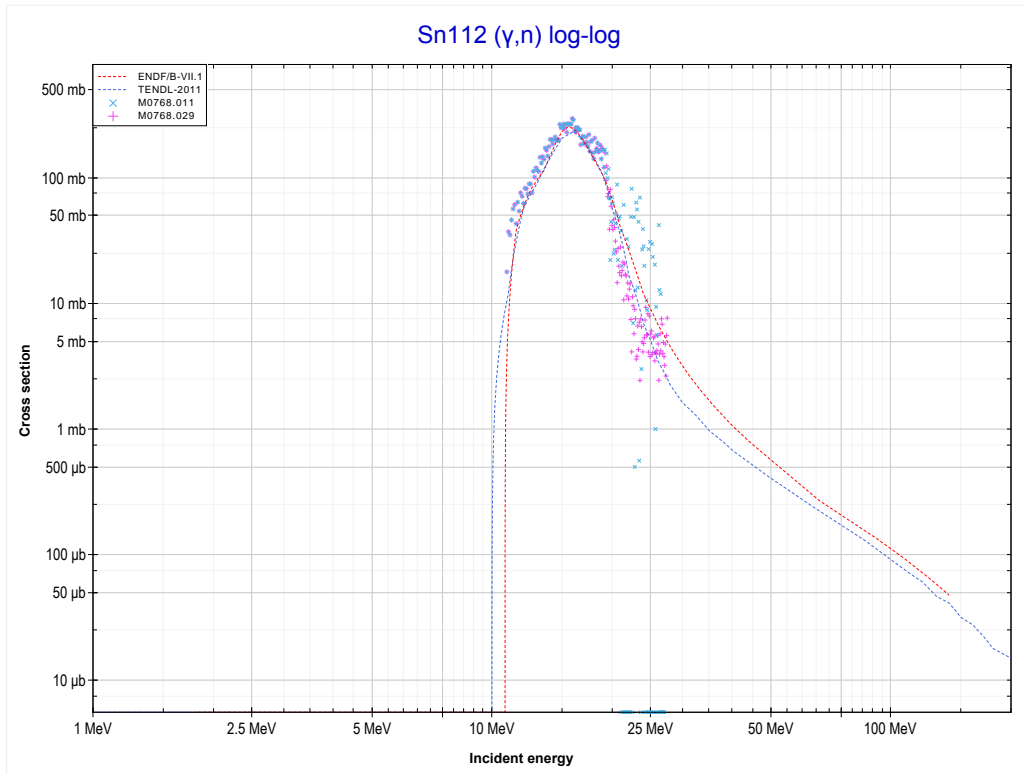
Reaction	Q-Value
In115(γ,d)Cd113	-13623.42 keV
In115($\gamma,n+p$)Cd113	-15847.99 keV

<< 47-Ag-107	49-In-115	50-Sn-116 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Cd112 production)	MT4 (γ, n) >>



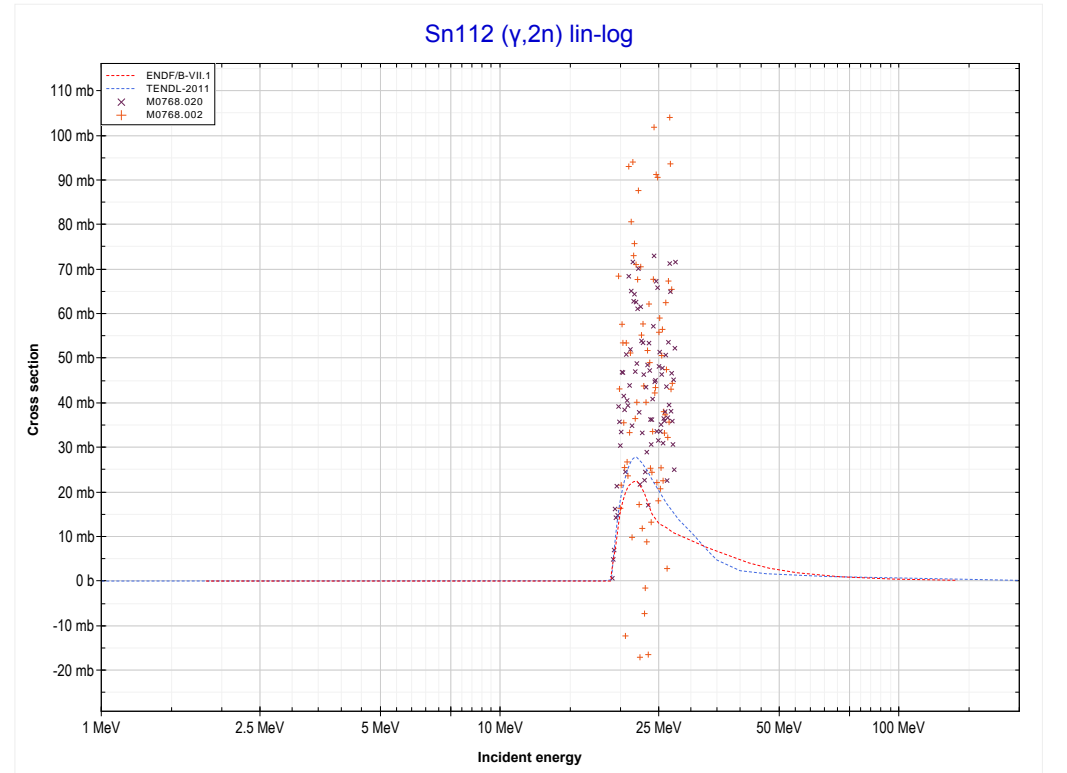
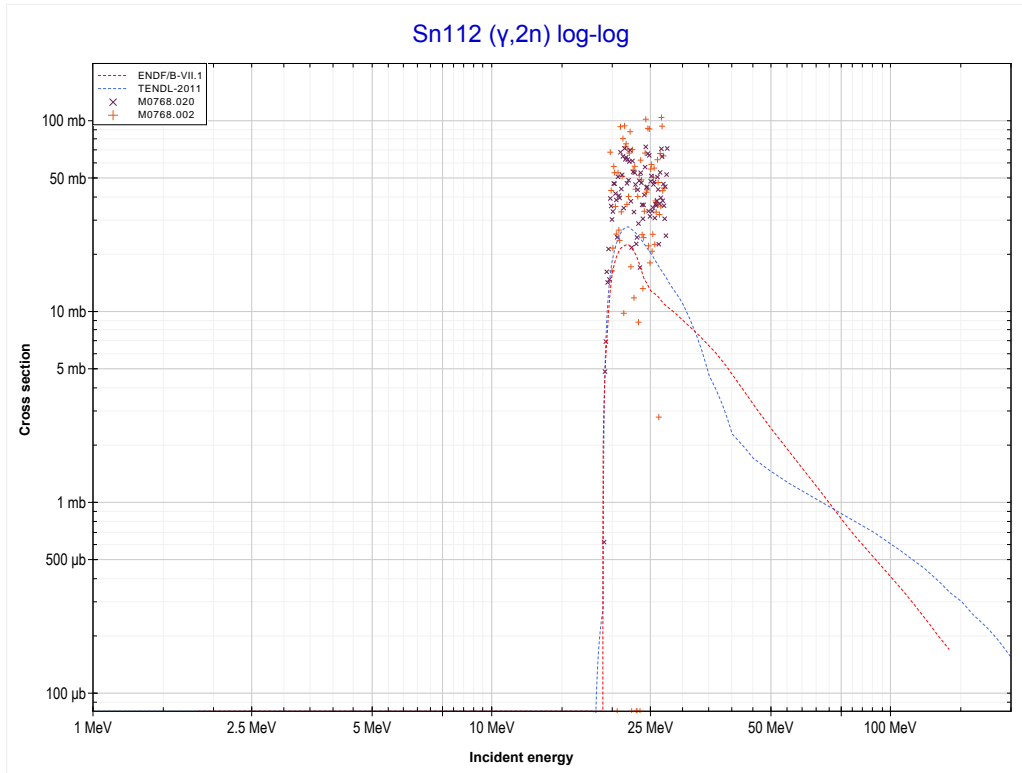
Reaction	Q-Value
In115(γ, t)Cd112	-13906.31 keV
In115($\gamma, n+d$)Cd112	-20163.54 keV
In115($\gamma, 2n+p$)Cd112	-22388.10 keV

<< 49-In-115	50-Sn-112	50-Sn-114 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Sn111 production)	MT16 ($\gamma,2n$) >>



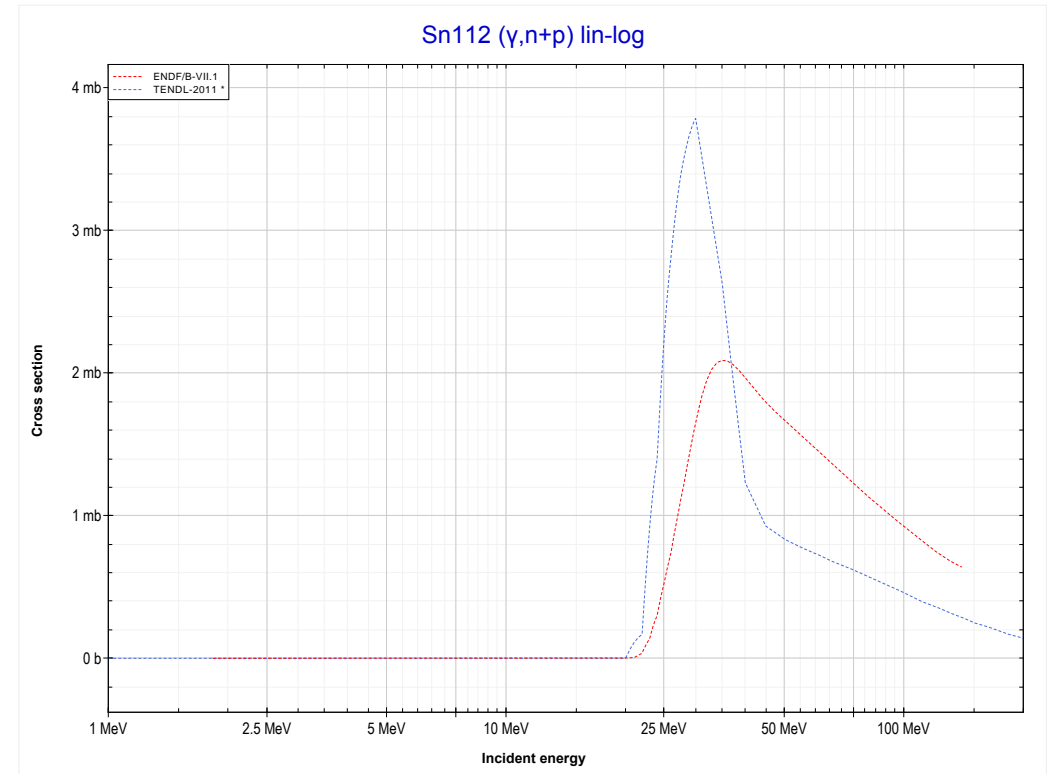
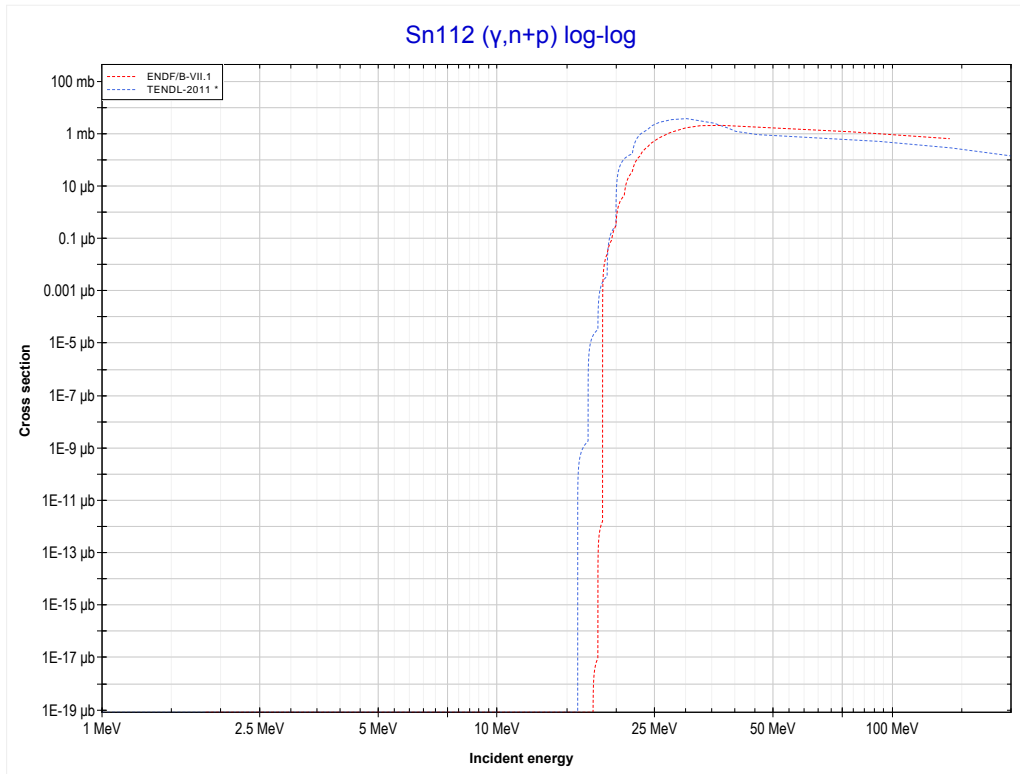
Reaction	Q-Value
Sn112(γ,n)Sn111	-10787.32 keV

<< 49-In-115	50-Sn-112	50-Sn-114 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn110 production)	MT28 ($\gamma,n+p$) >>



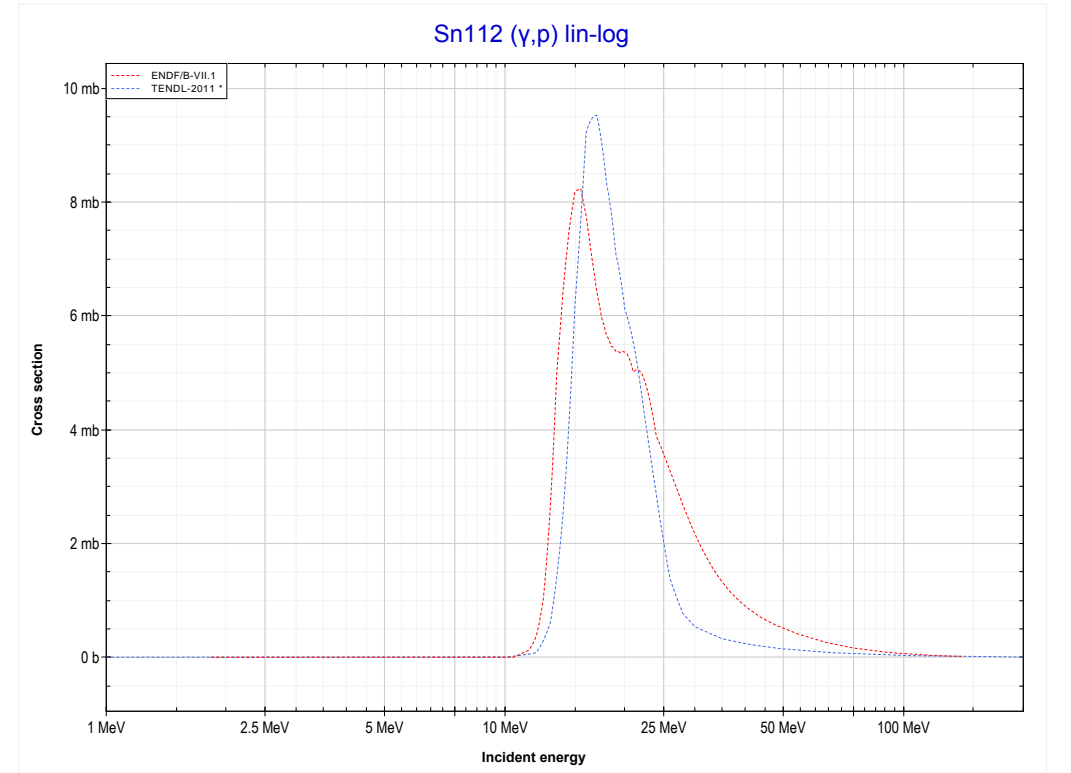
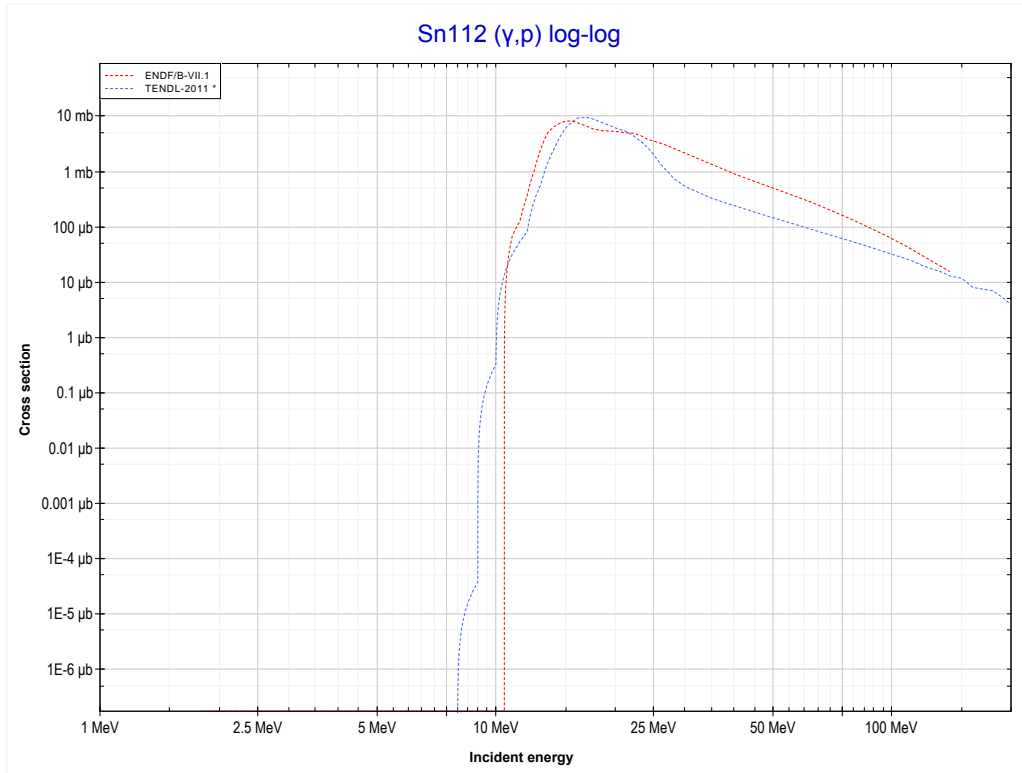
Reaction	Q-Value
Sn112($\gamma,2n$)Sn110	-18959.63 keV

<< 49-In-115	50-Sn-112	50-Sn-116 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (In110 production)	MT103 (γ,p) >>



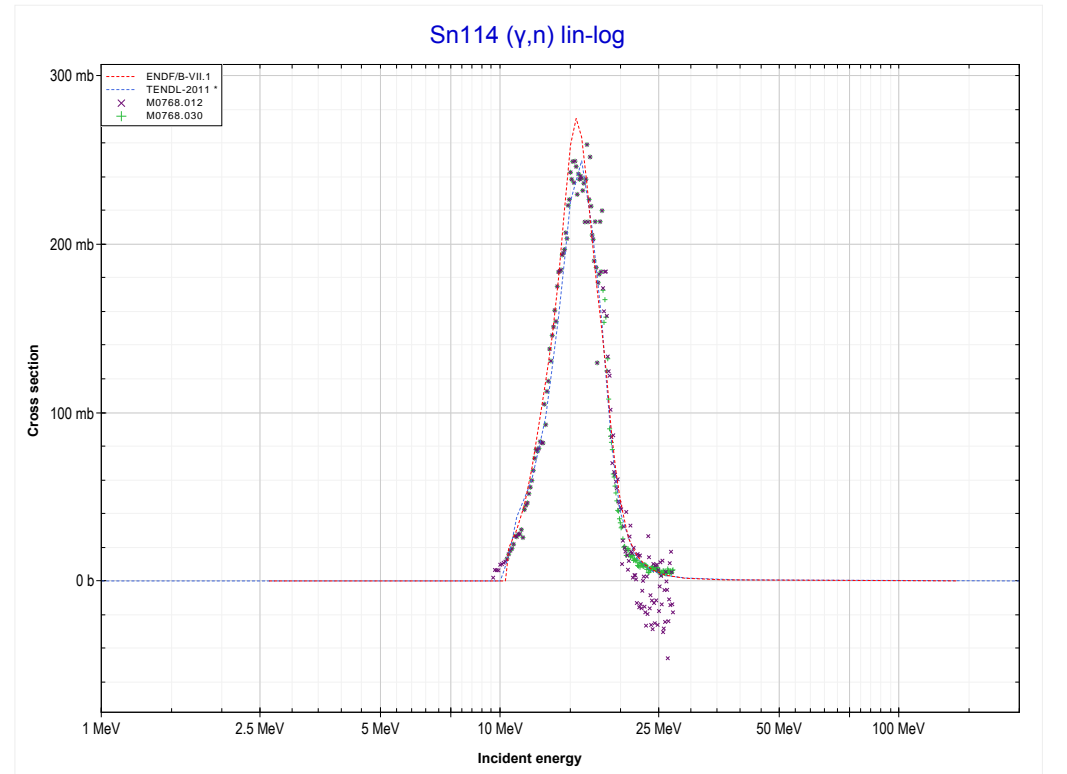
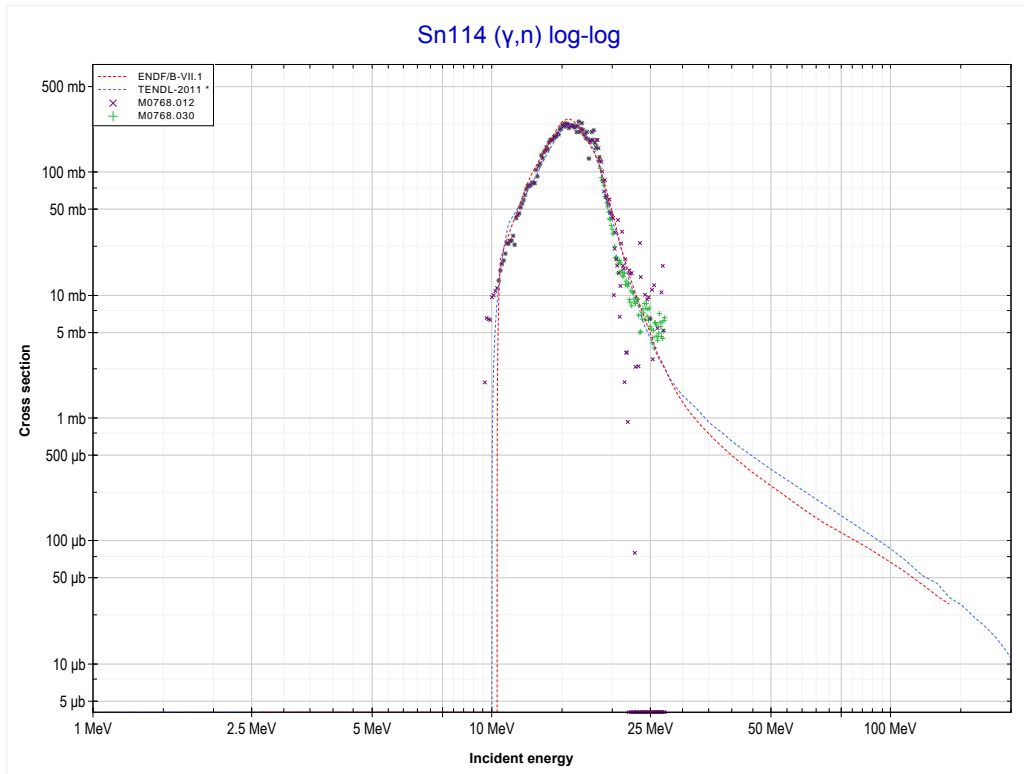
Reaction	Q-Value
Sn112(γ,d)In110	-15321.72 keV
Sn112($\gamma,n+p$)In110	-17546.29 keV

<< 46-Pd-108	50-Sn-112	50-Sn-124 >>
<< MT28 ($\gamma, n+p$)	MT103 (γ, p) or MT5 (In111 production)	MT4 (γ, n) >>



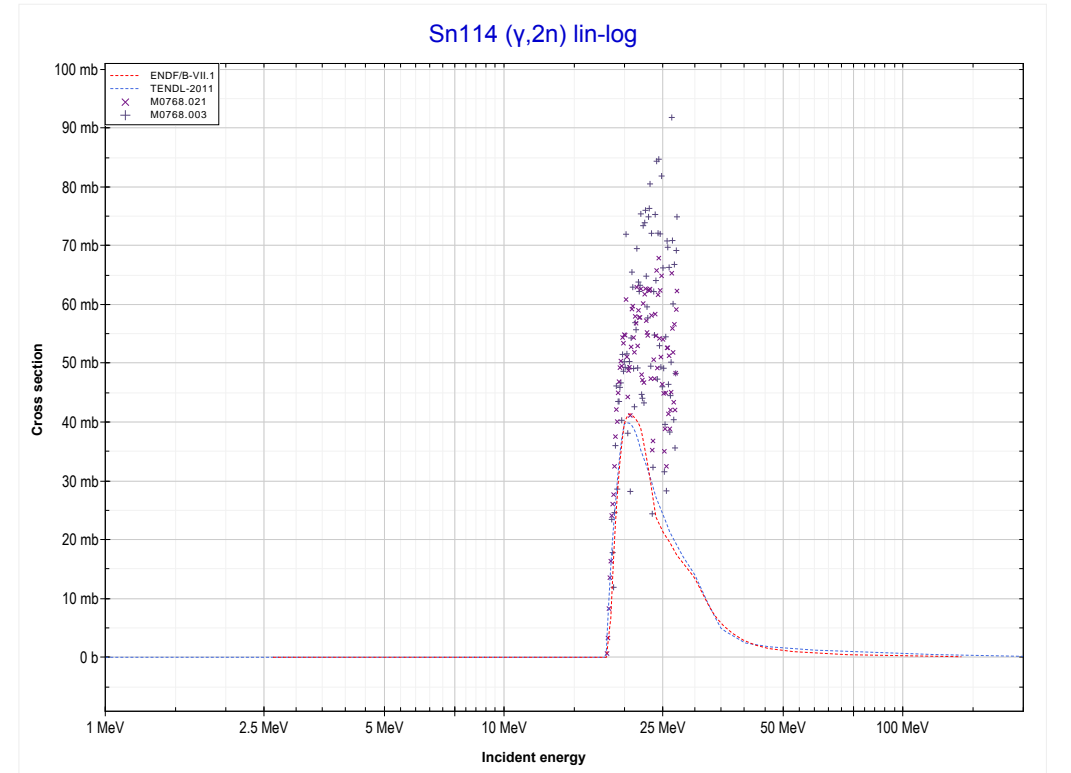
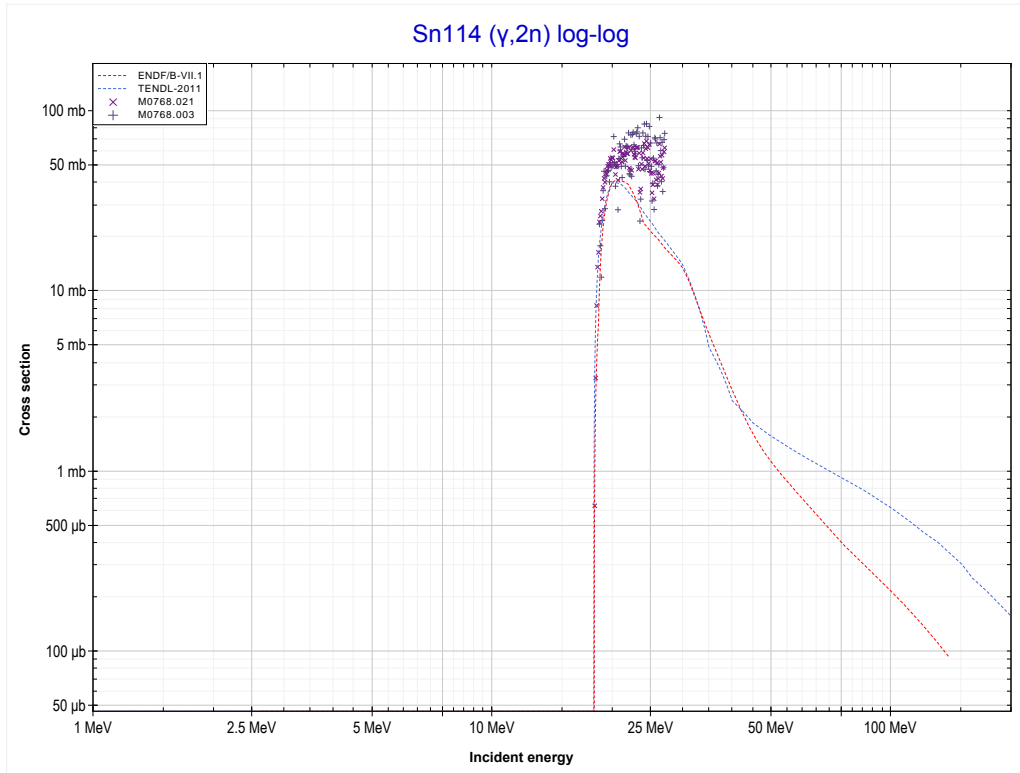
Reaction	Q-Value
Sn112(γ, p)In111	-7553.97 keV

<< 50-Sn-112	50-Sn-114	50-Sn-116 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Sn113 production)	MT16 ($\gamma,2n$) >>



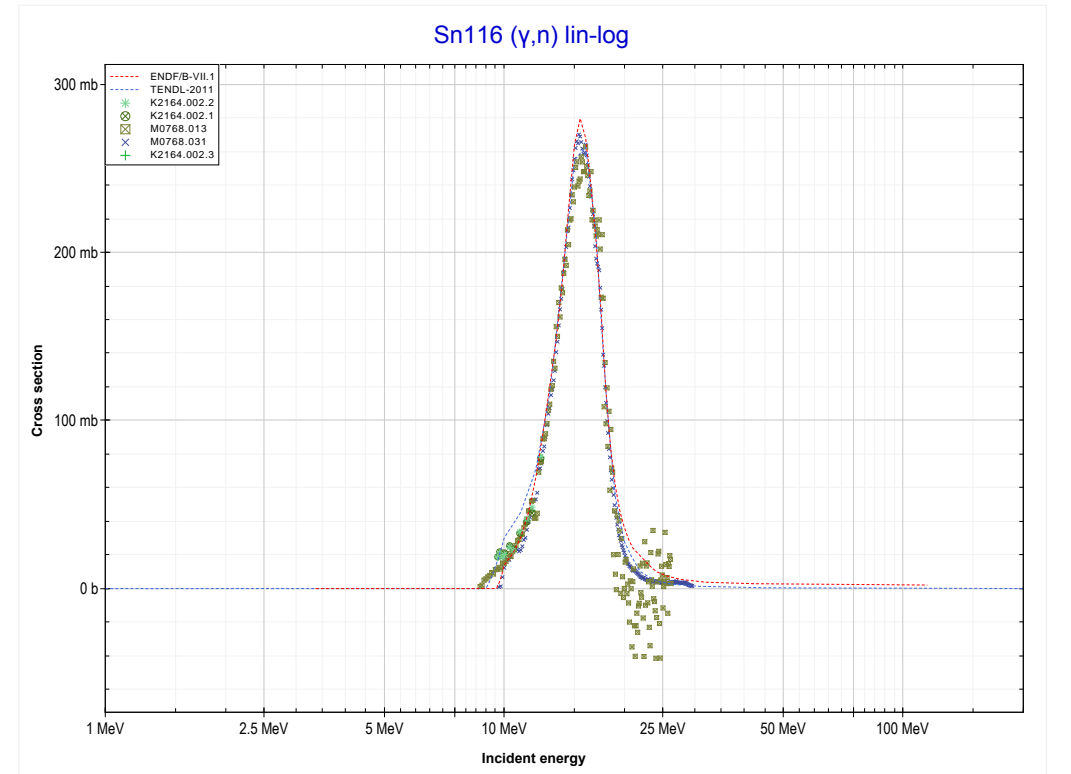
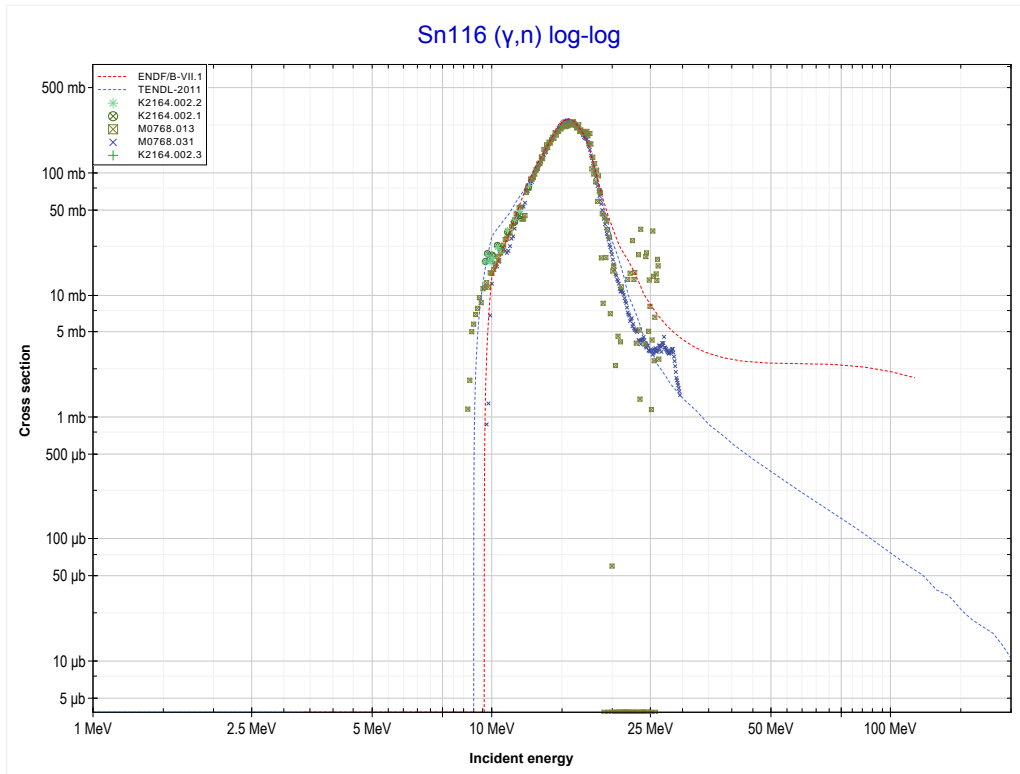
Reaction	Q-Value
Sn114(γ,n)Sn113	-10299.32 keV

<< 50-Sn-112	50-Sn-114	50-Sn-116 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn112 production)	MT4 (γ,n) >>



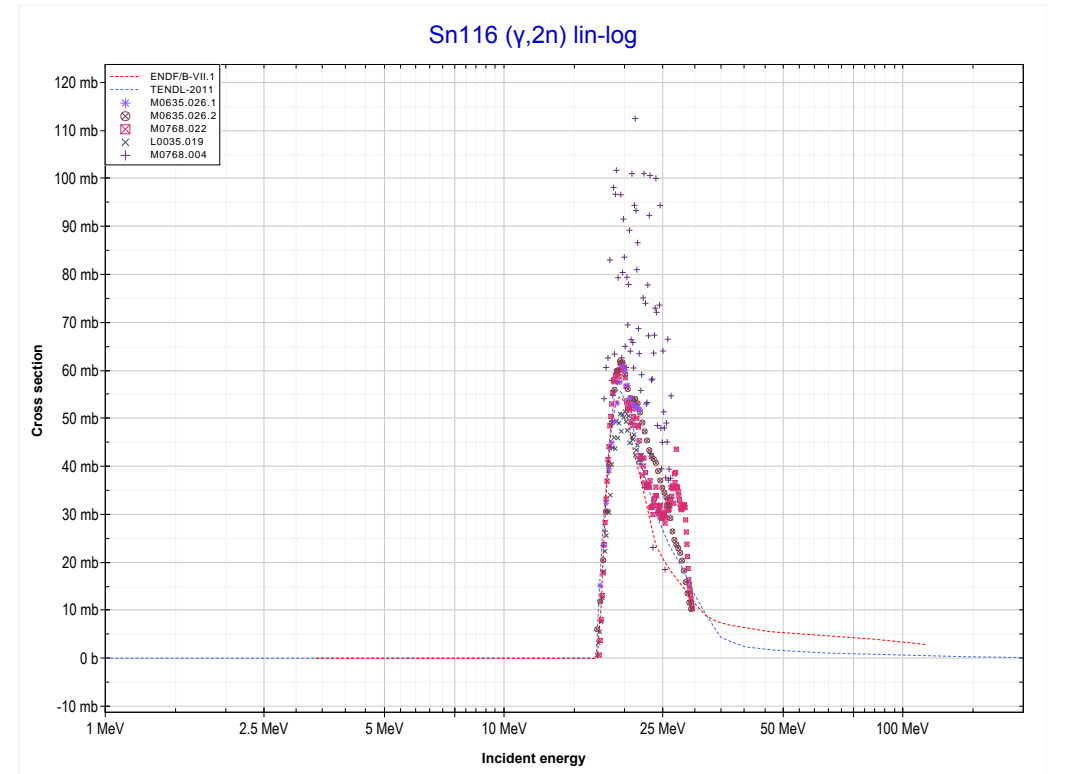
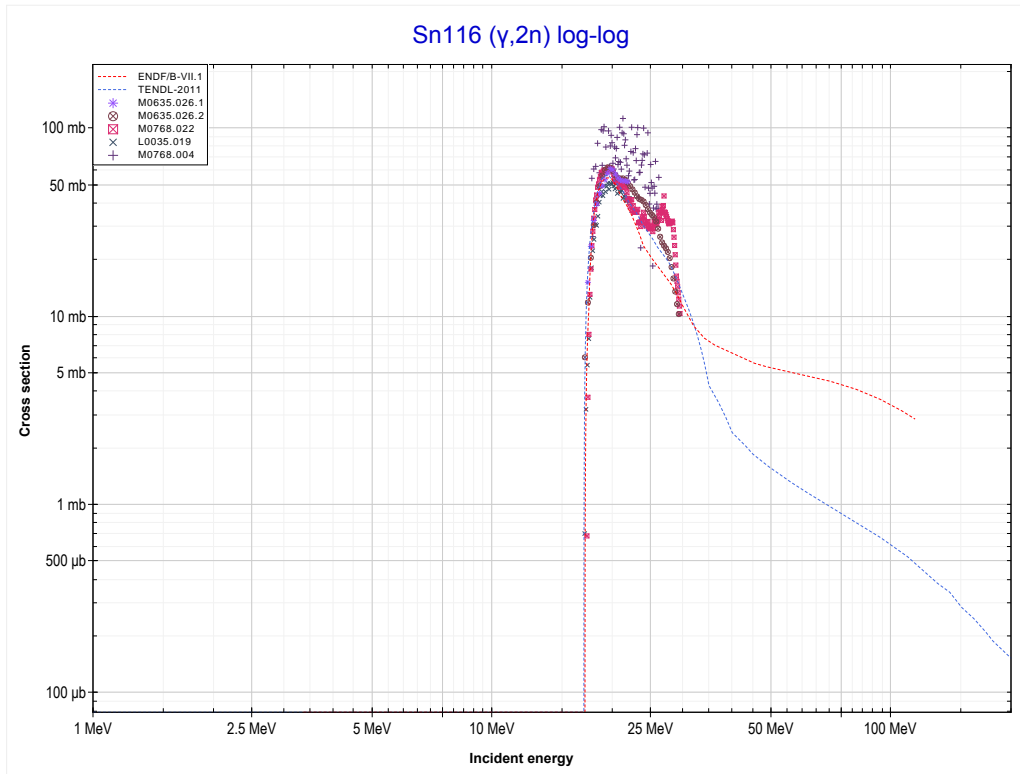
Reaction	Q-Value
Sn114($\gamma,2n$)Sn112	-18042.63 keV

<< 50-Sn-114	50-Sn-116	50-Sn-117 >>
<< MT16 (γ,2n)	MT4 (γ,n) or MT5 (Sn115 production)	MT16 (γ,2n) >>



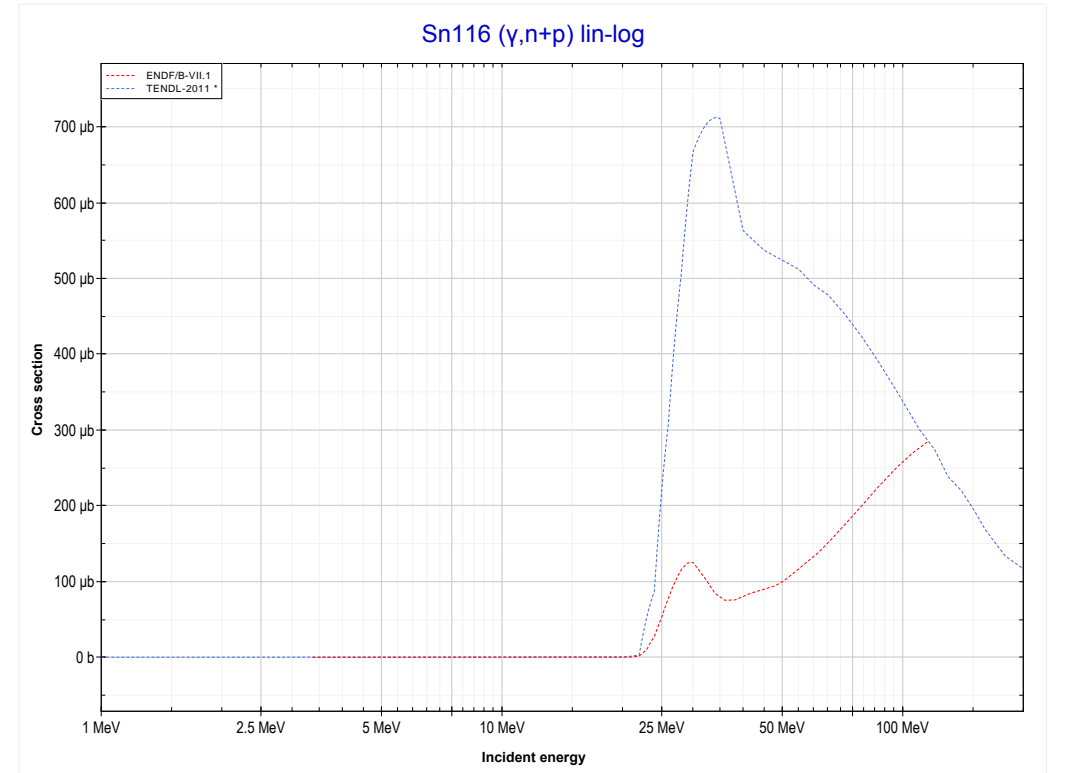
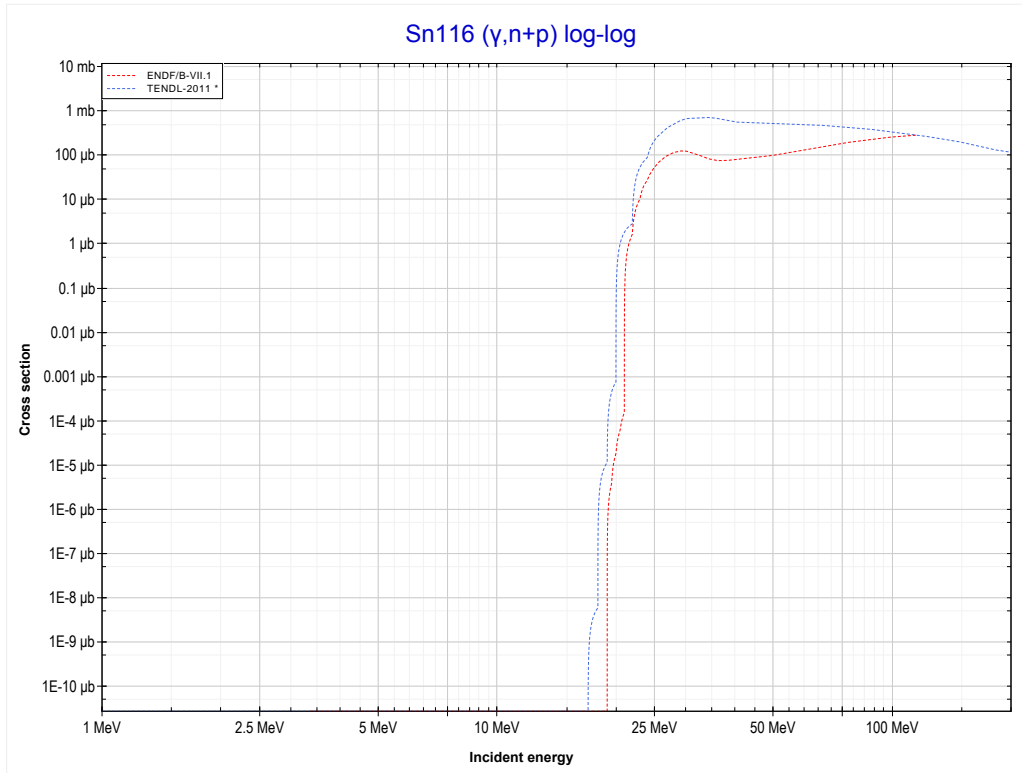
Reaction	Q-Value
Sn116(γ,n)Sn115	-9563.42 keV

<< 50-Sn-114	50-Sn-116	50-Sn-117 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn114 production)	MT28 ($\gamma,n+p$) >>



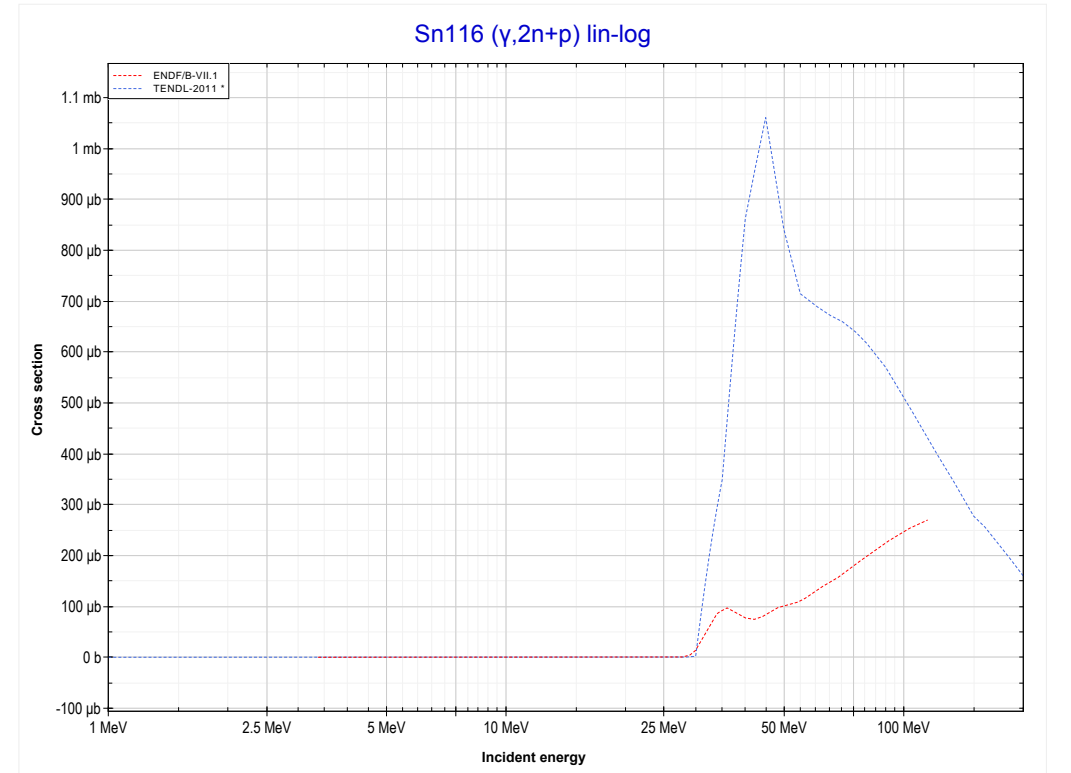
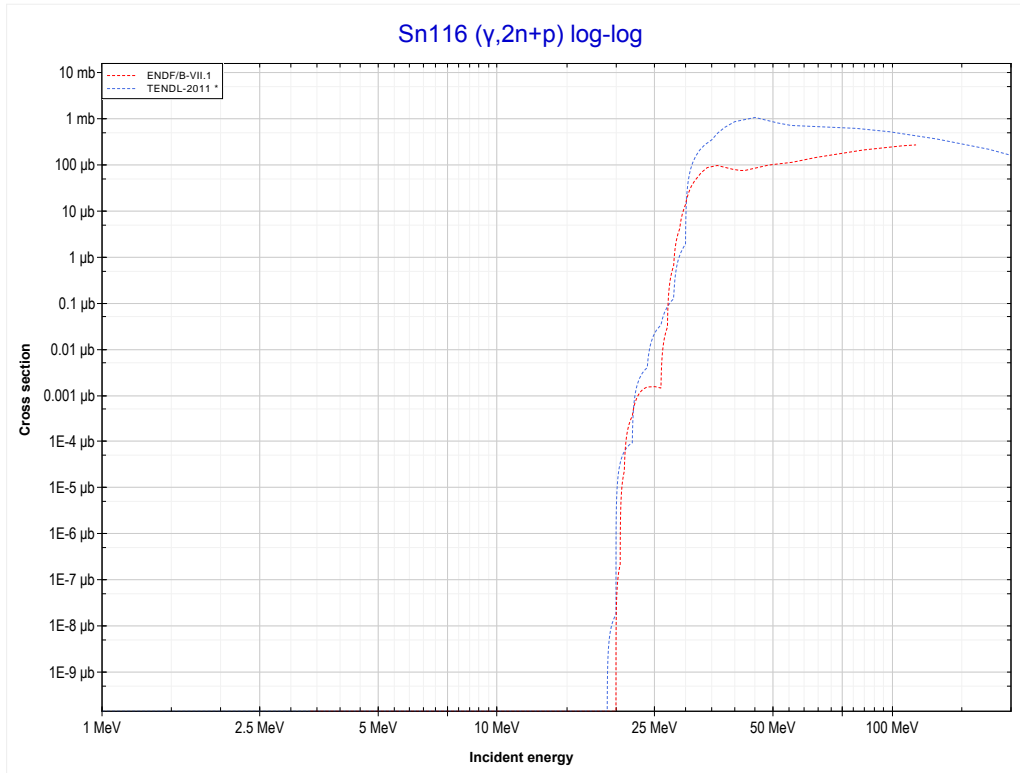
Reaction	Q-Value
Sn116($\gamma,2n$)Sn114	-17109.73 keV

<< 50-Sn-112	50-Sn-116	50-Sn-117 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (In114 production)	MT41 ($\gamma,2n+p$) >>



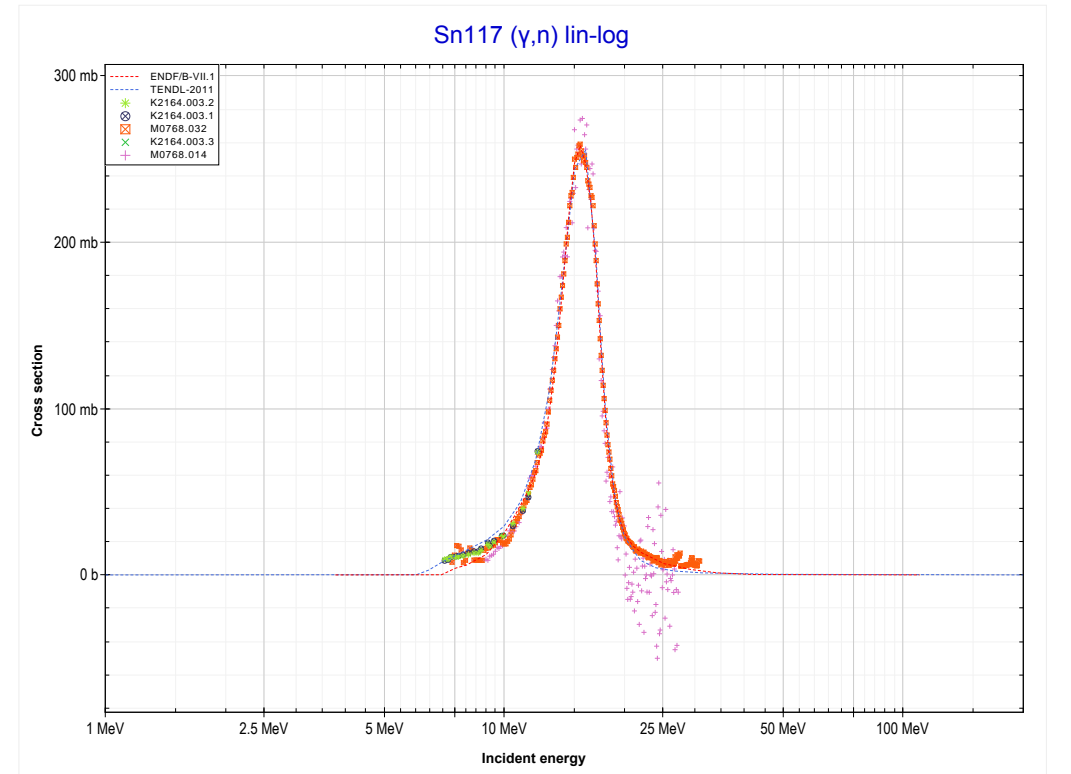
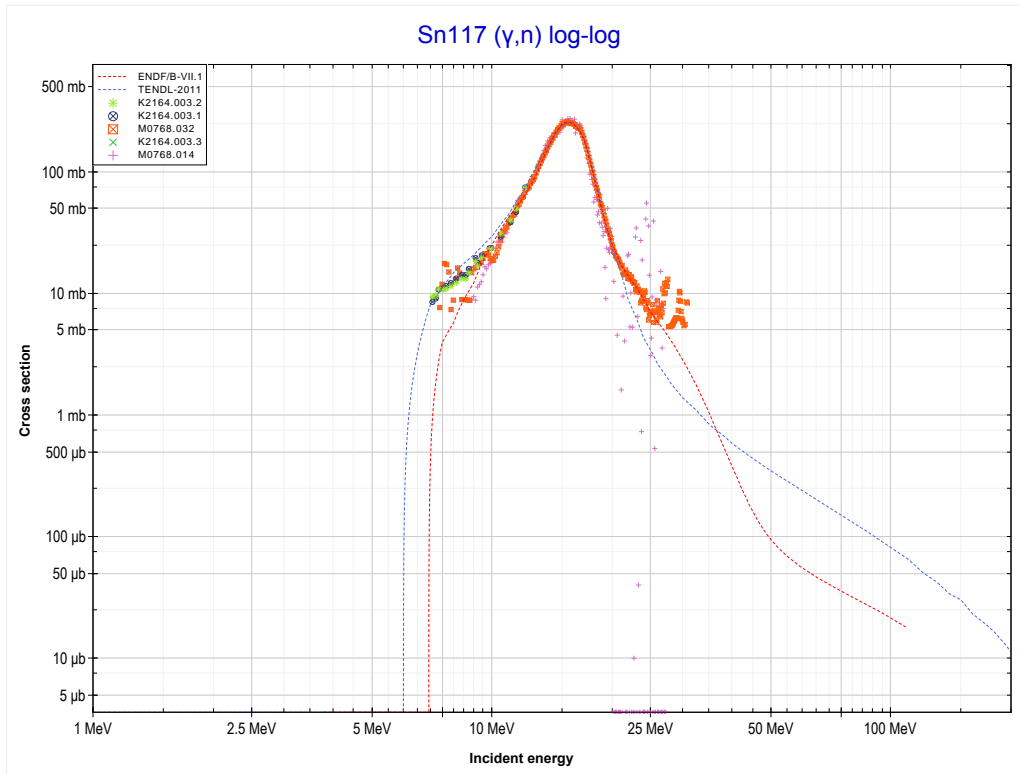
Reaction	Q-Value
Sn116(γ,d)In114	-16091.82 keV
Sn116($\gamma,n+p$)In114	-18316.39 keV

<< 49-In-115	50-Sn-116	50-Sn-117 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (In113 production)	MT4 (γ, n) >>



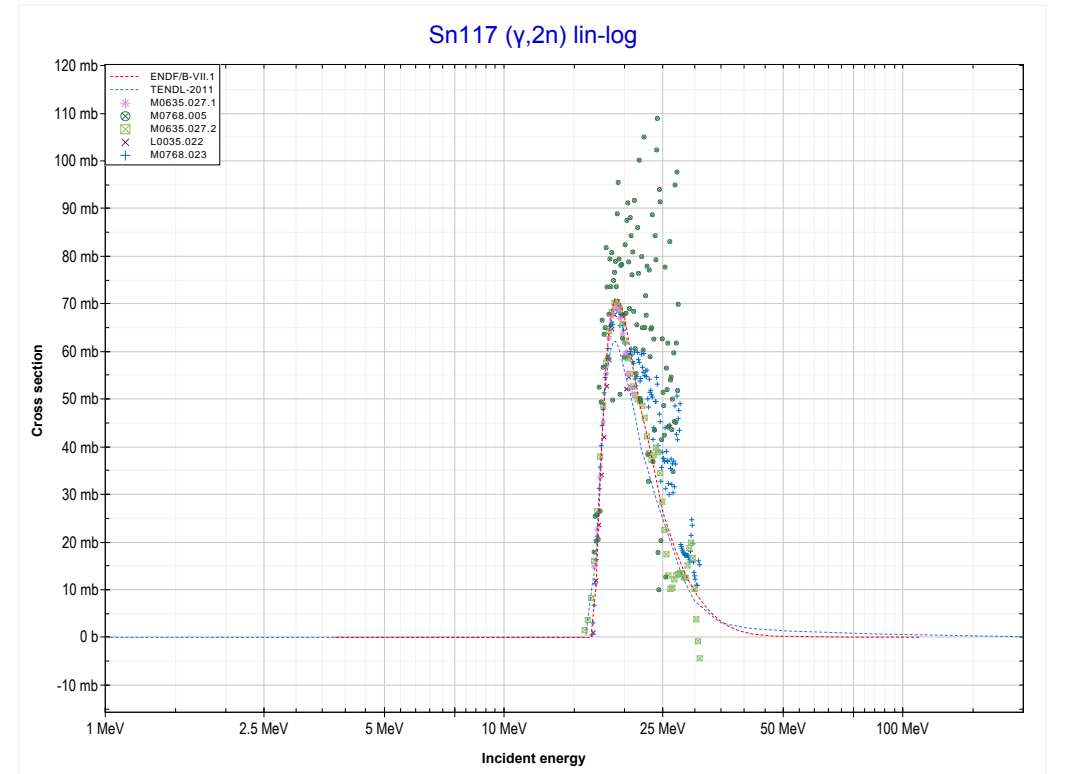
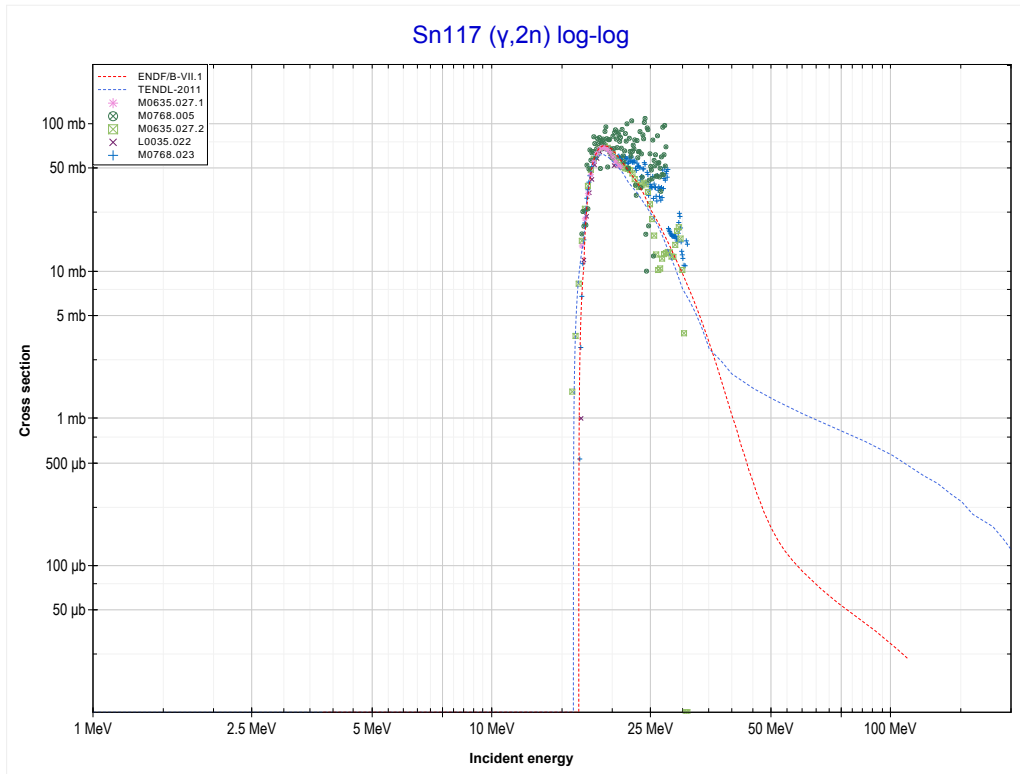
Reaction	Q-Value
Sn116(γ, t)In113	-17107.91 keV
Sn116($\gamma, n+d$)In113	-23365.14 keV
Sn116($\gamma, 2n+p$)In113	-25589.70 keV

<< 50-Sn-116	50-Sn-117	50-Sn-118 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Sn116 production)	MT16 ($\gamma,2n$) >>



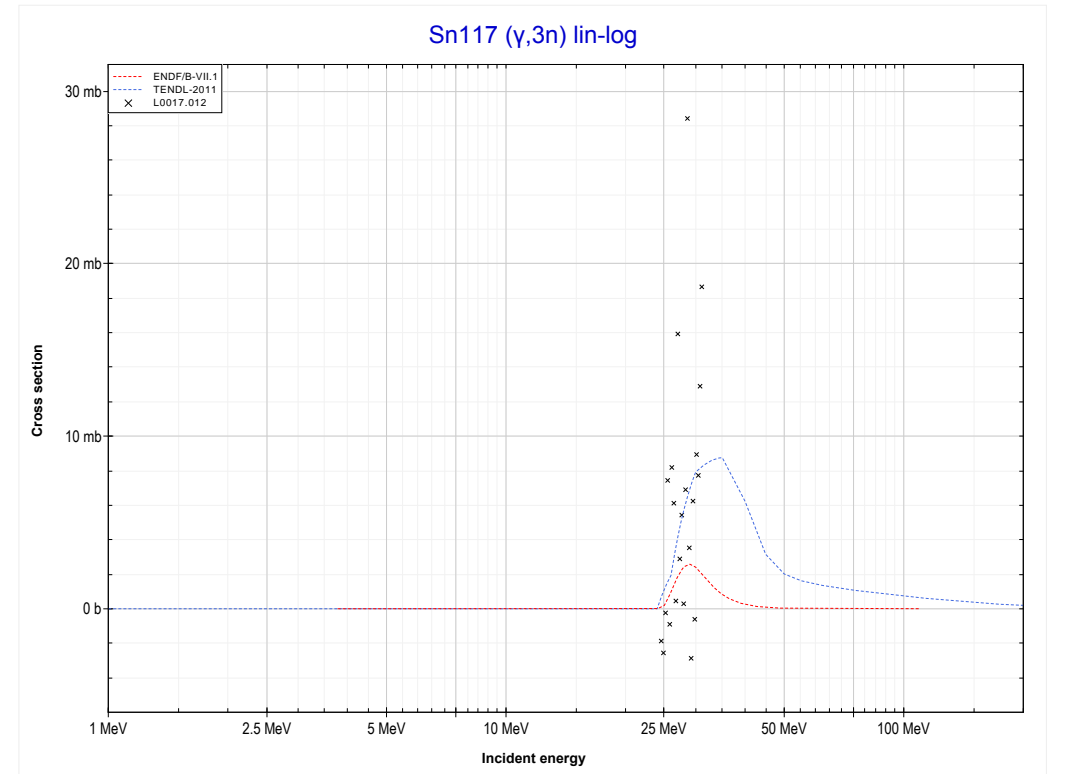
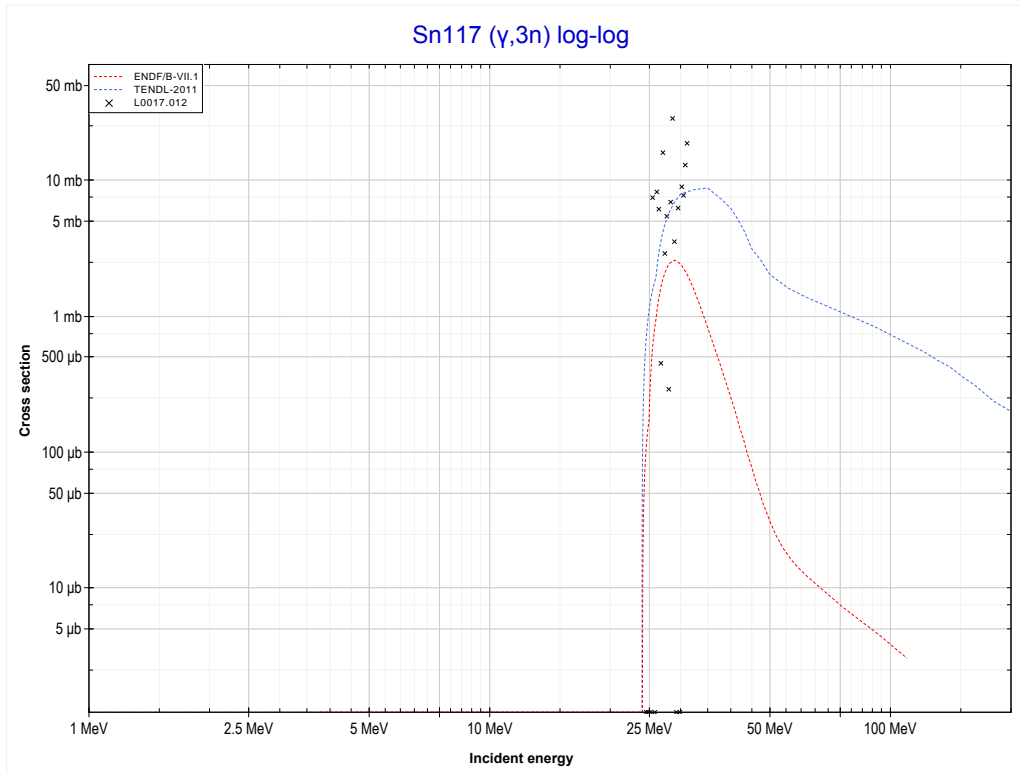
Reaction	Q-Value
Sn117(γ,n)Sn116	-6943.22 keV

<< 50-Sn-116	50-Sn-117	50-Sn-118 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn115 production)	MT17 ($\gamma,3n$) >>



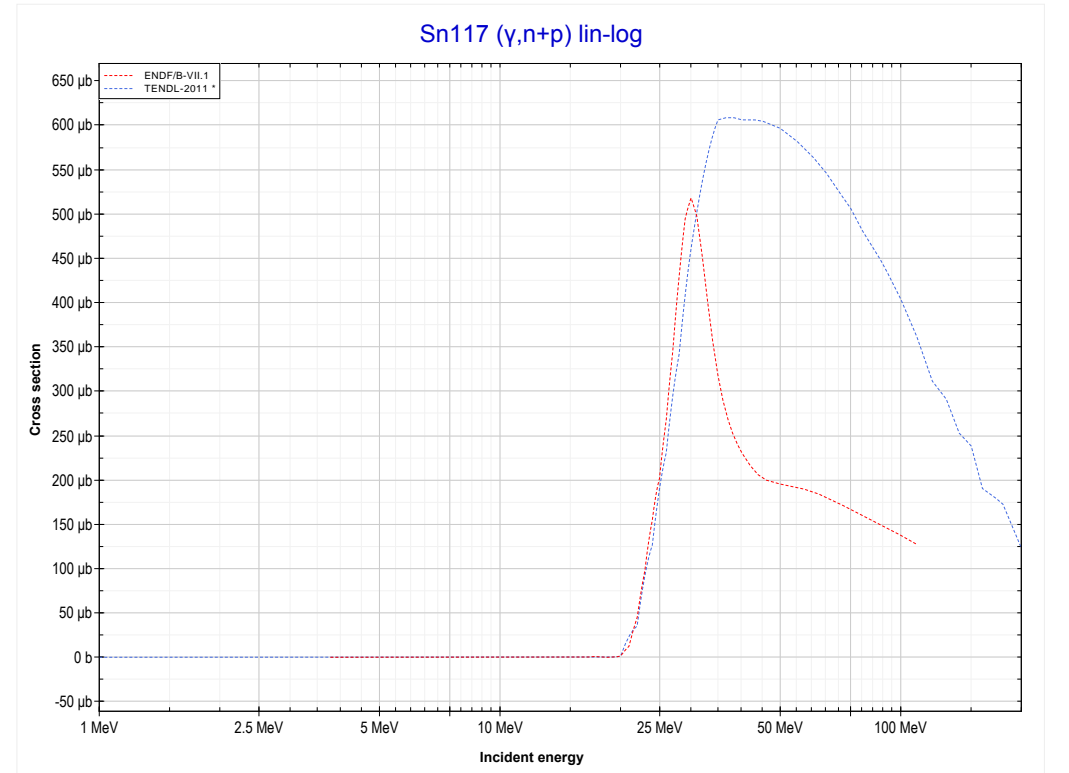
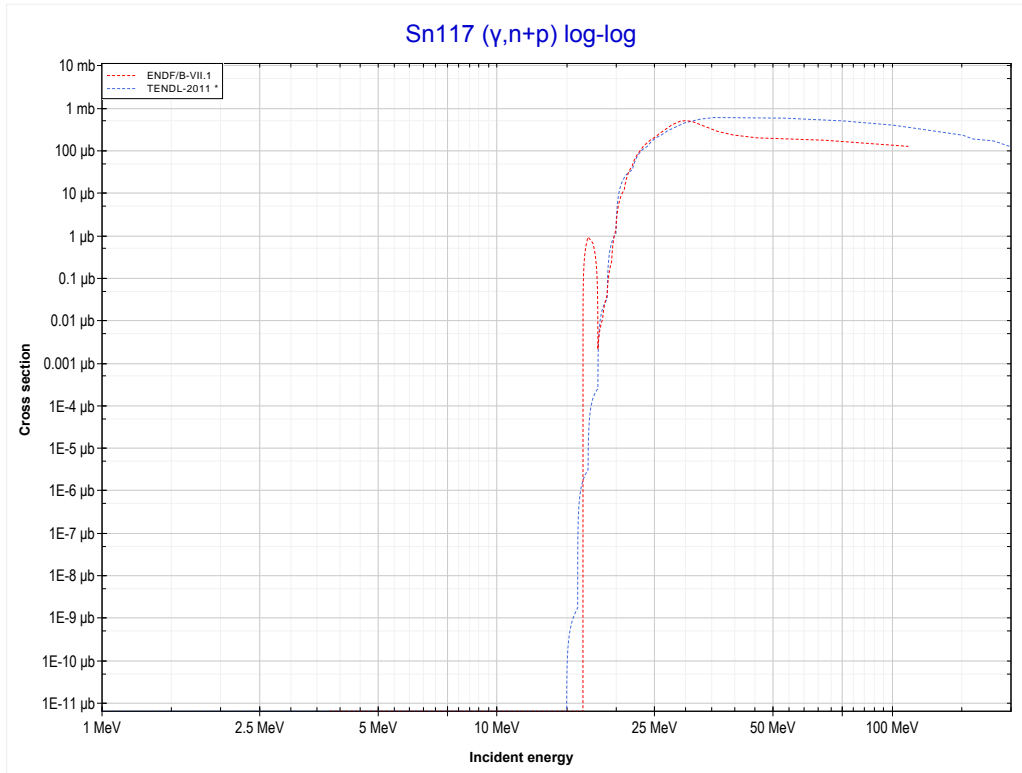
Reaction	Q-Value
Sn117($\gamma,2n$)Sn115	-16506.63 keV

<< 49-In-115	50-Sn-117	50-Sn-118 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Sn114 production)	MT28 ($\gamma,n+p$) >>



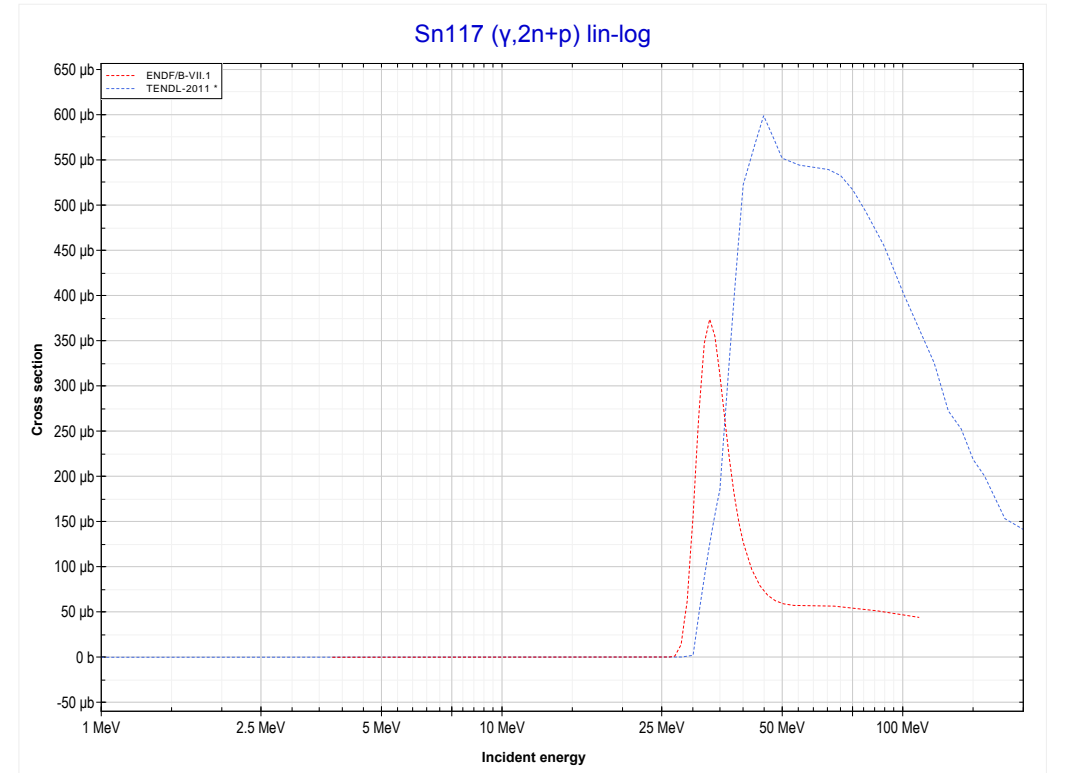
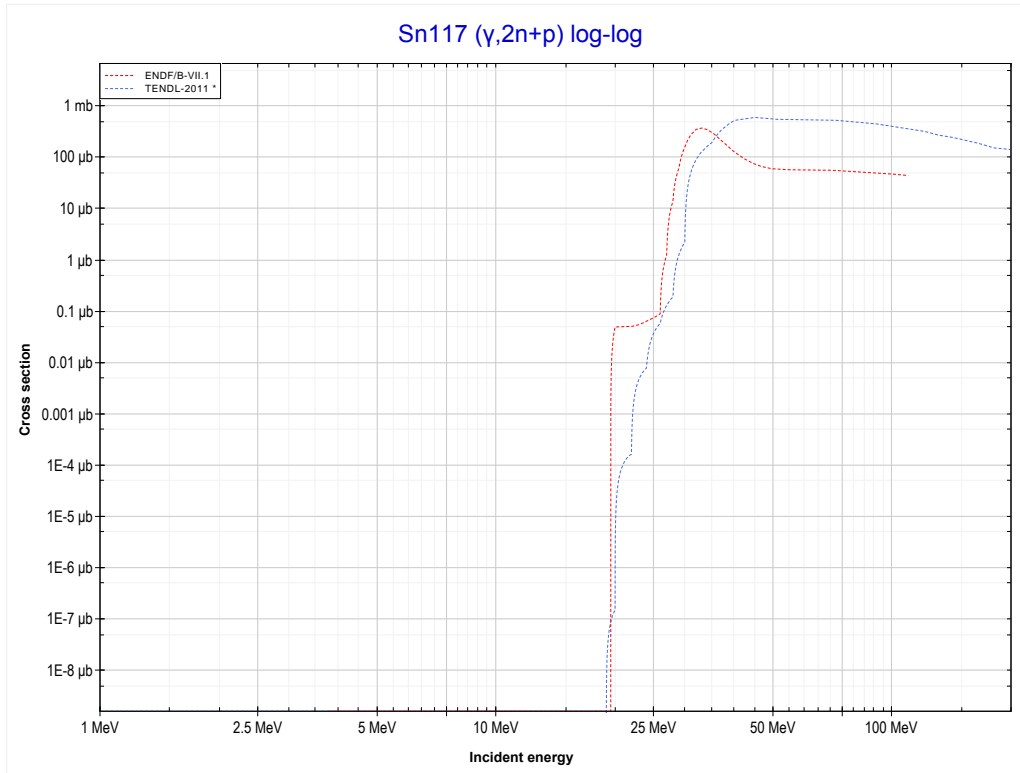
Reaction	Q-Value
Sn117($\gamma,3n$)Sn114	-24052.95 keV

<< 50-Sn-116	50-Sn-117	50-Sn-118 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (In115 production)	MT41 ($\gamma,2n+p$) >>



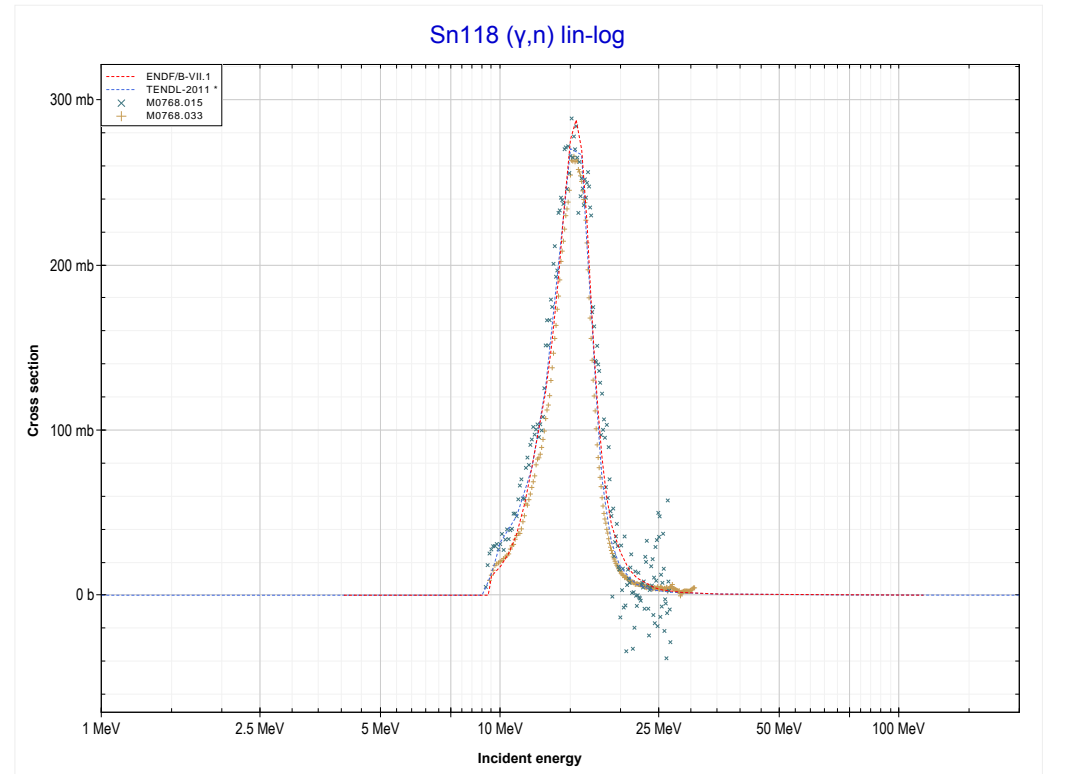
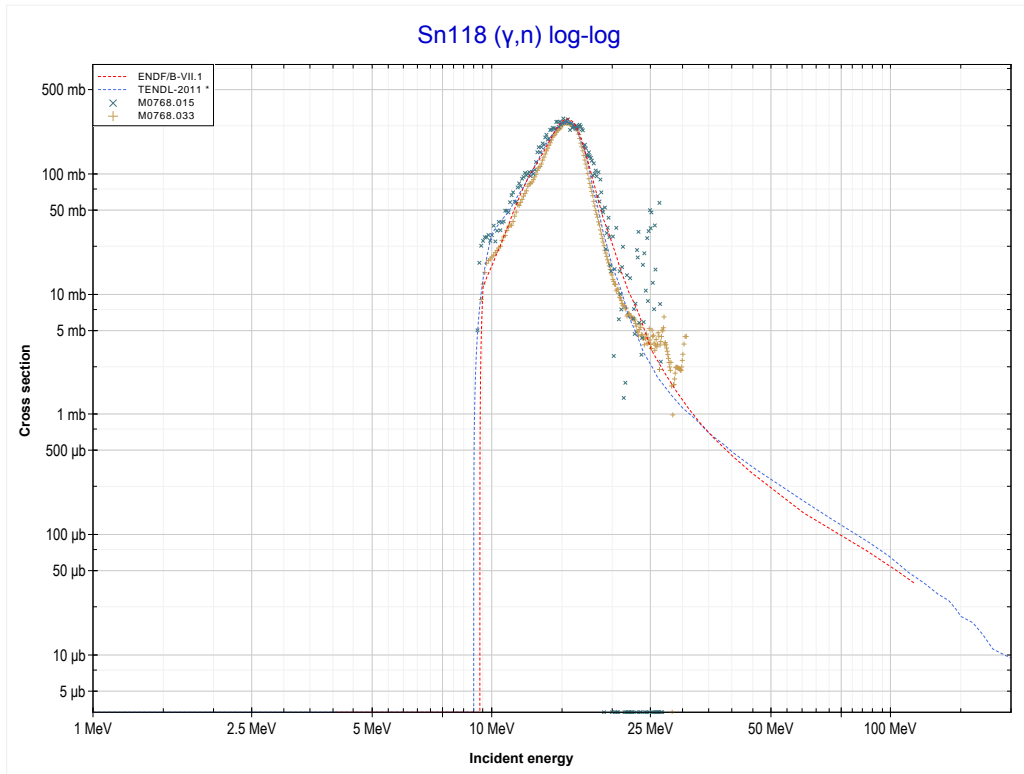
Reaction	Q-Value
Sn117(γ,d)In115	-13998.72 keV
Sn117($\gamma,n+p$)In115	-16223.29 keV

<< 50-Sn-116	50-Sn-117	50-Sn-118 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (In114 production)	MT4 (γ, n) >>



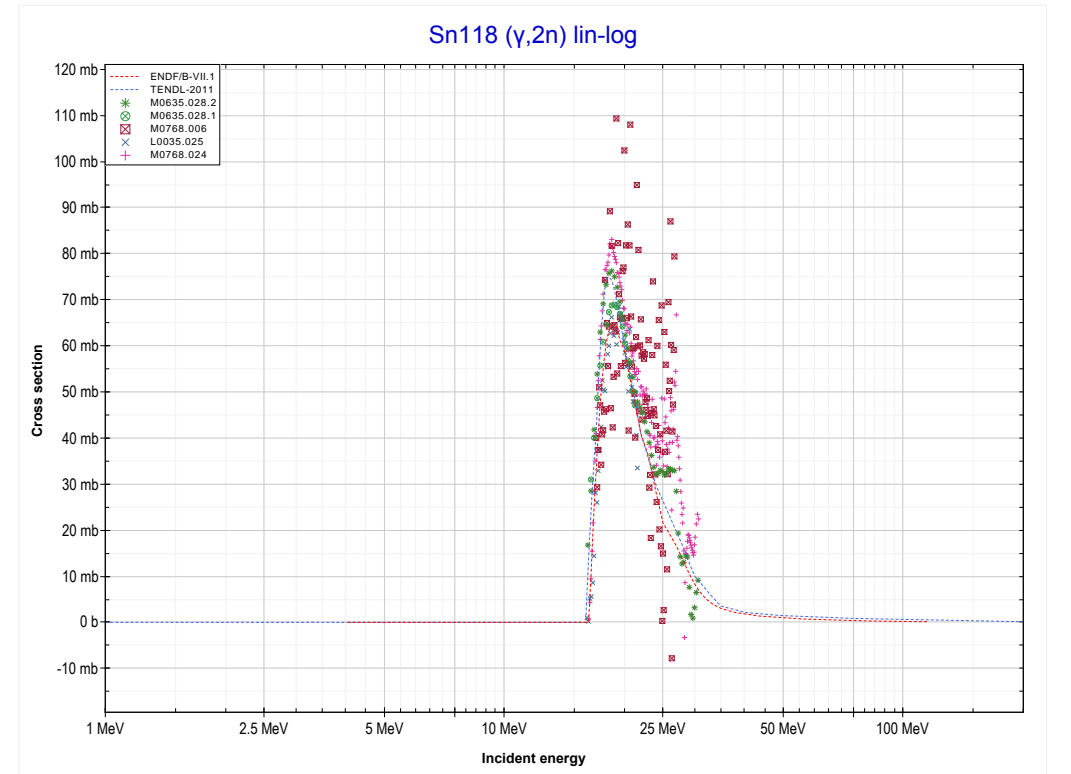
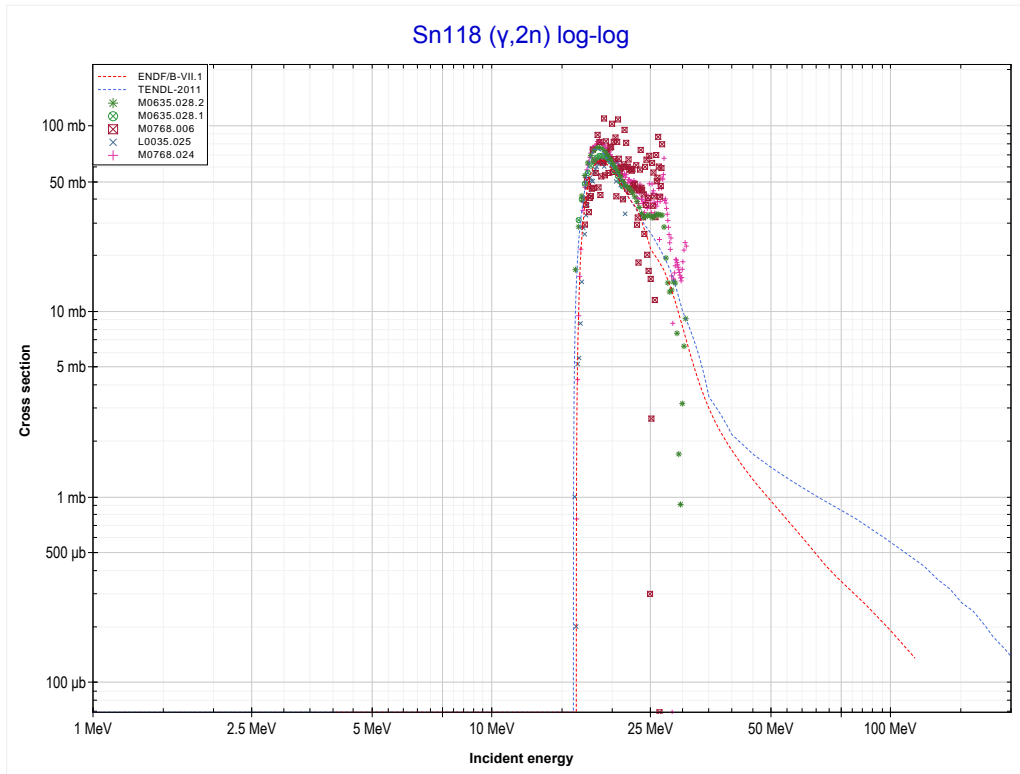
Reaction	Q-Value
Sn117(γ, t)In114	-16777.81 keV
Sn117($\gamma, n+d$)In114	-23035.04 keV
Sn117($\gamma, 2n+p$)In114	-25259.60 keV

<< 50-Sn-117	50-Sn-118	50-Sn-119 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Sn117 production)	MT16 ($\gamma,2n$) >>



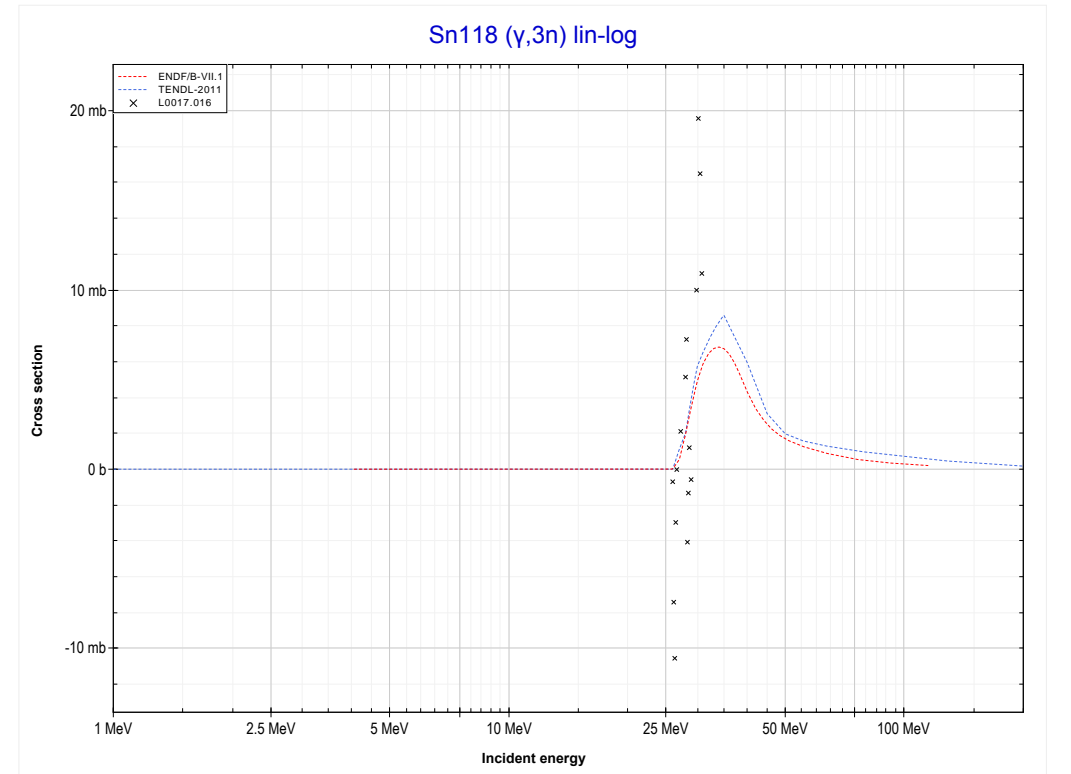
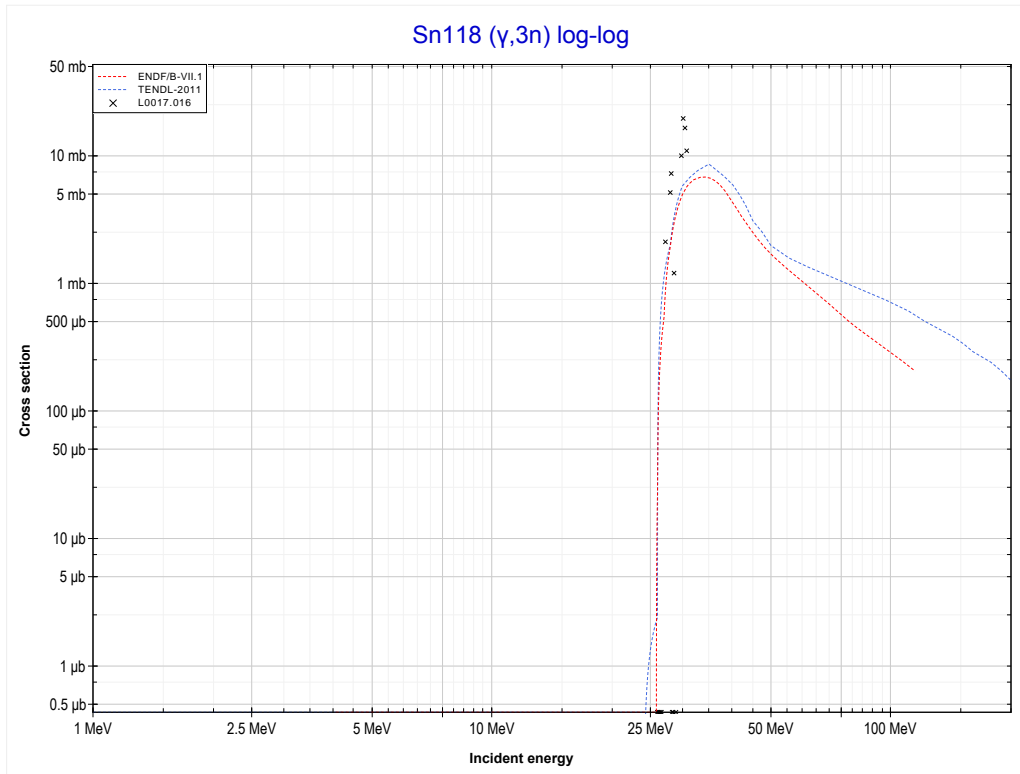
Reaction	Q-Value
Sn118(γ,n)Sn117	-9327.42 keV

<< 50-Sn-117	50-Sn-118	50-Sn-119 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn116 production)	MT17 ($\gamma,3n$) >>



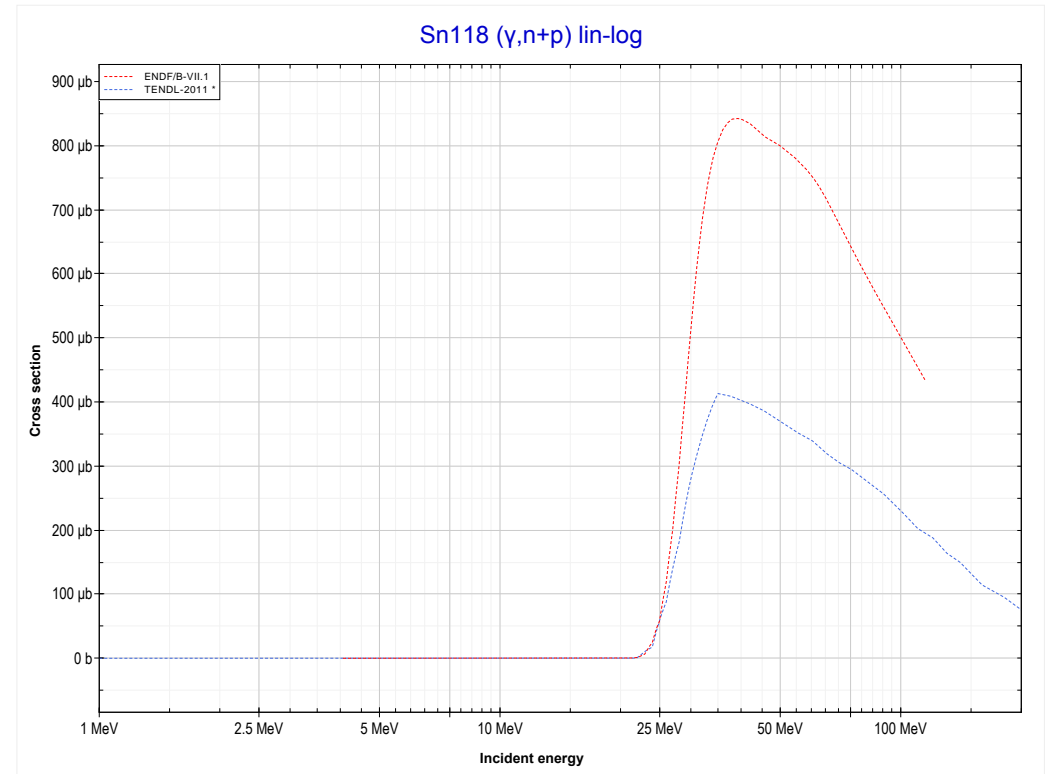
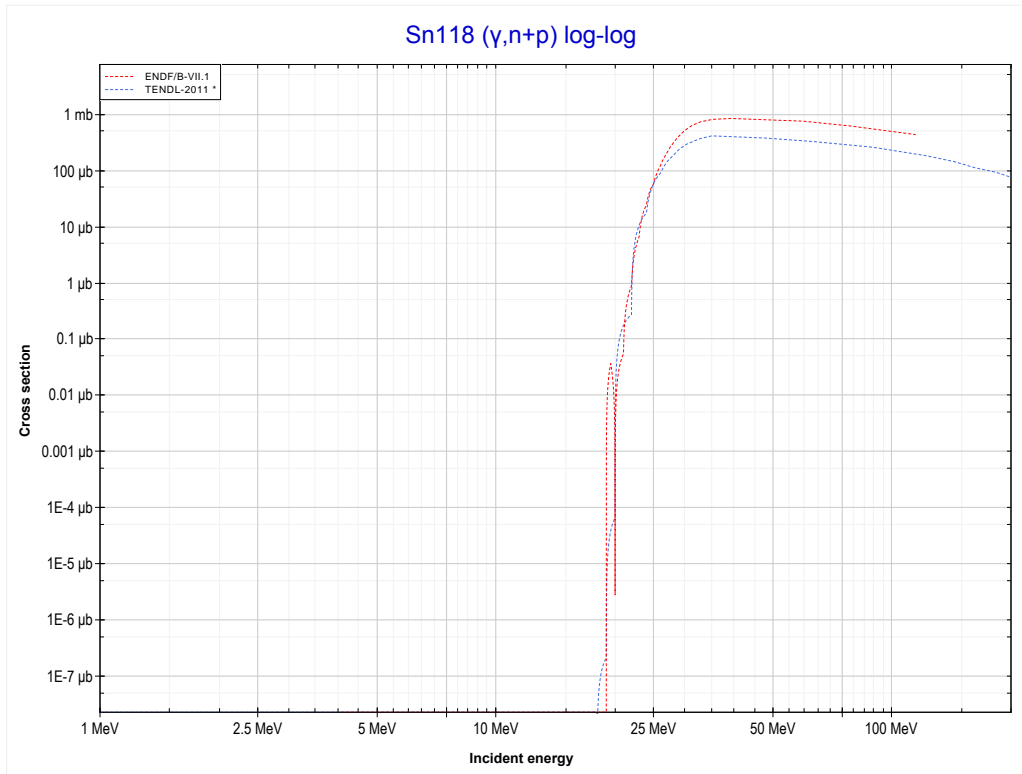
Reaction	Q-Value
Sn118($\gamma,2n$)Sn116	-16270.63 keV

<< 50-Sn-117	50-Sn-118	50-Sn-119 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Sn115 production)	MT28 ($\gamma,n+p$) >>



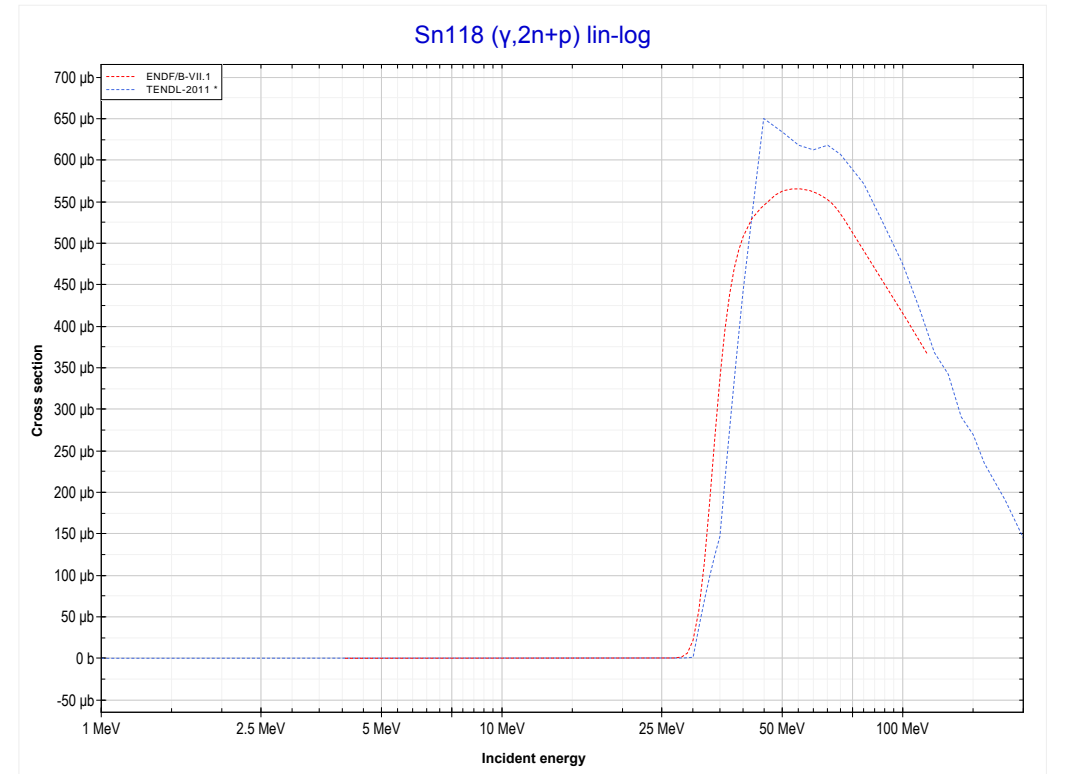
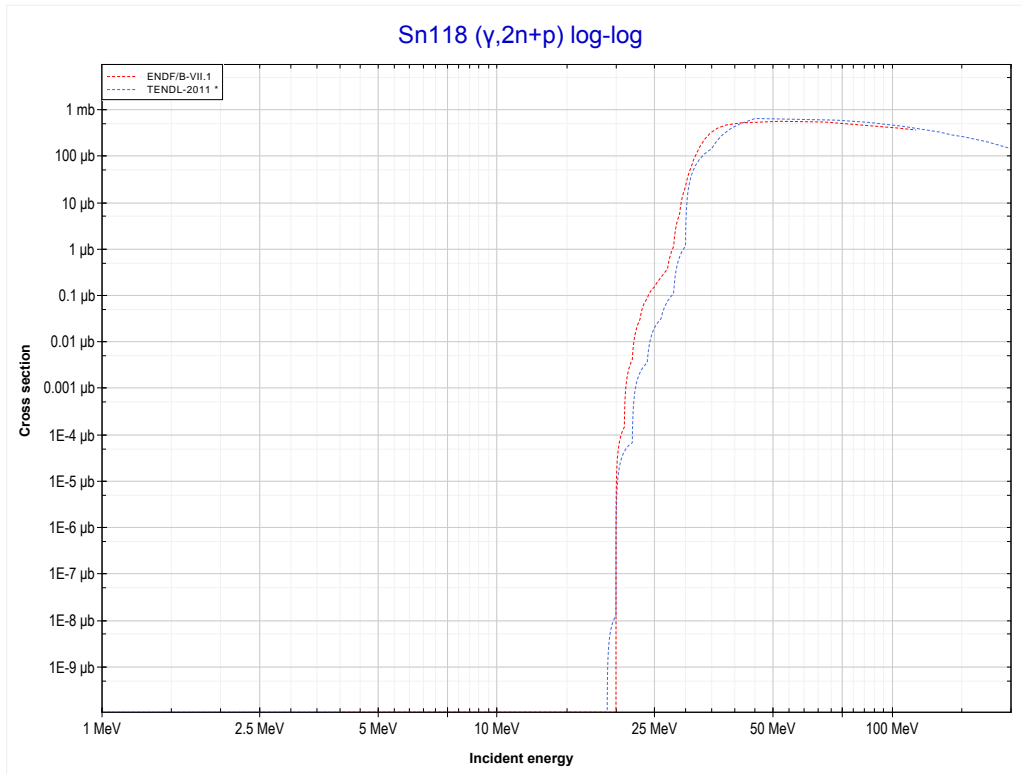
Reaction	Q-Value
Sn118($\gamma,3n$)Sn115	-25834.05 keV

<< 50-Sn-117	50-Sn-118	50-Sn-119 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (In116 production)	MT41 ($\gamma,2n+p$) >>



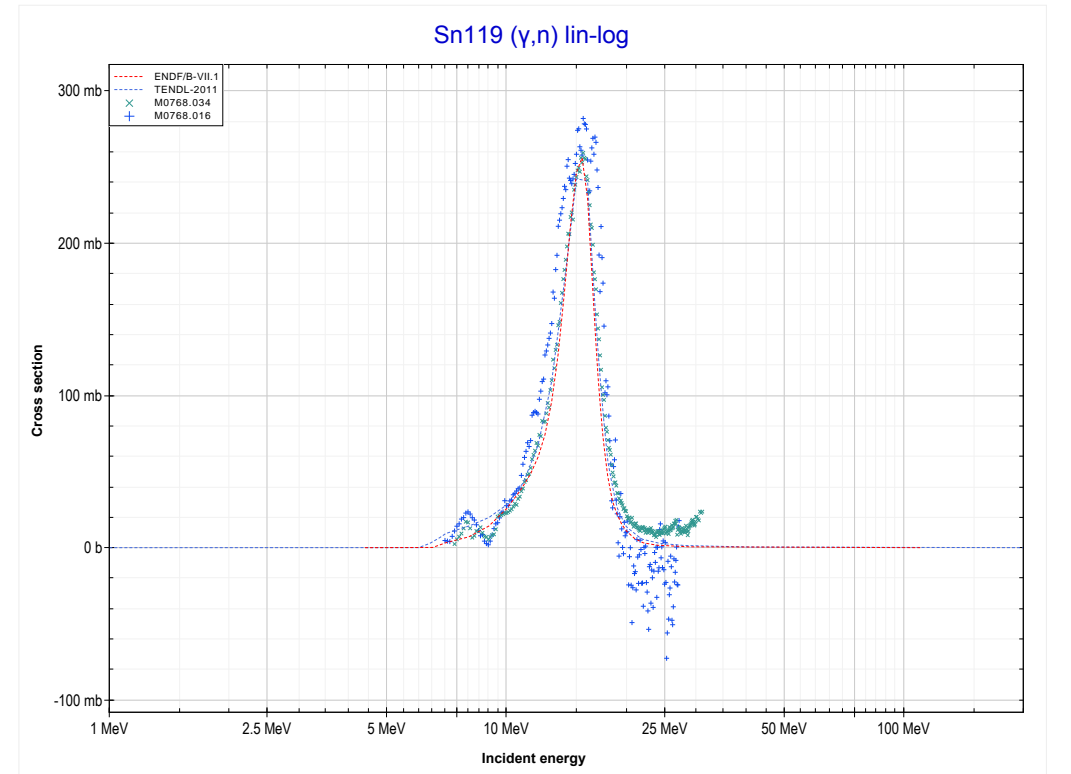
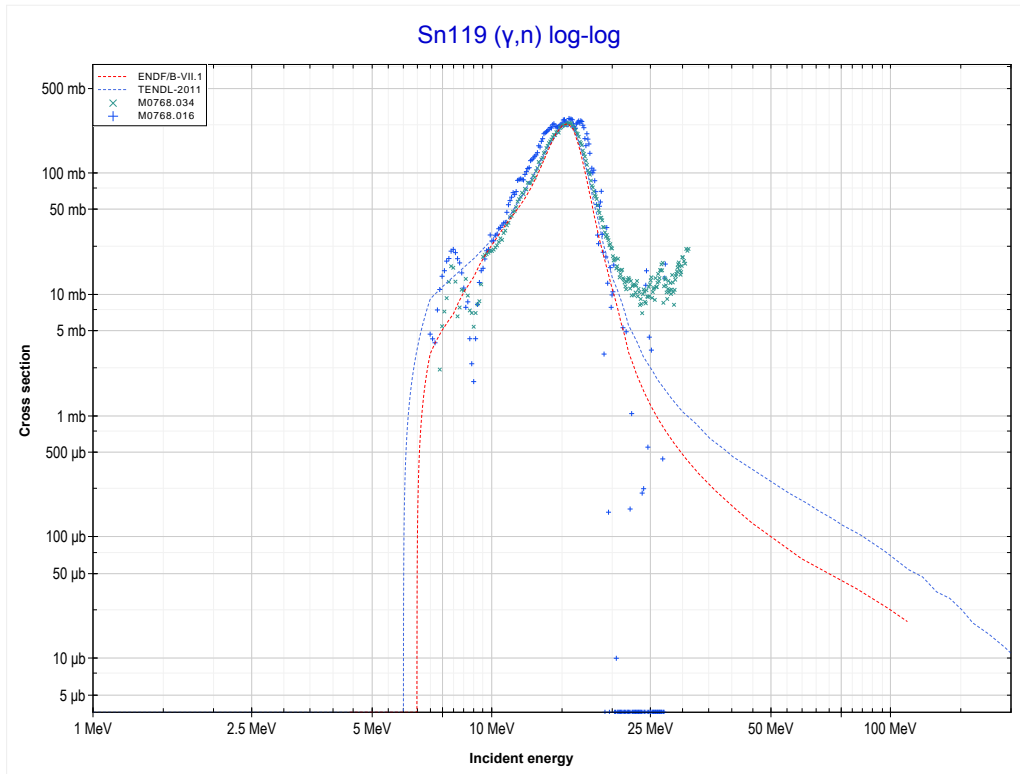
Reaction	Q-Value
Sn118(γ,d)In116	-16541.82 keV
Sn118($\gamma,n+p$)In116	-18766.39 keV

<< 50-Sn-117	50-Sn-118	50-Sn-119 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (In115 production)	MT4 (γ, n) >>



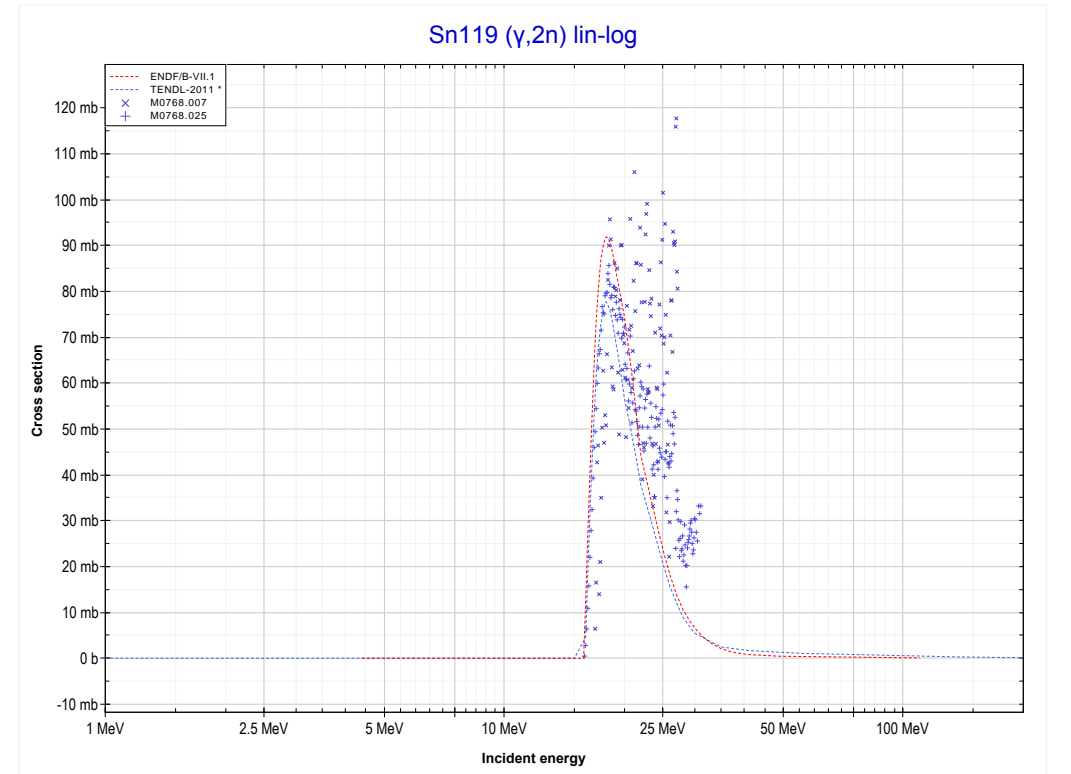
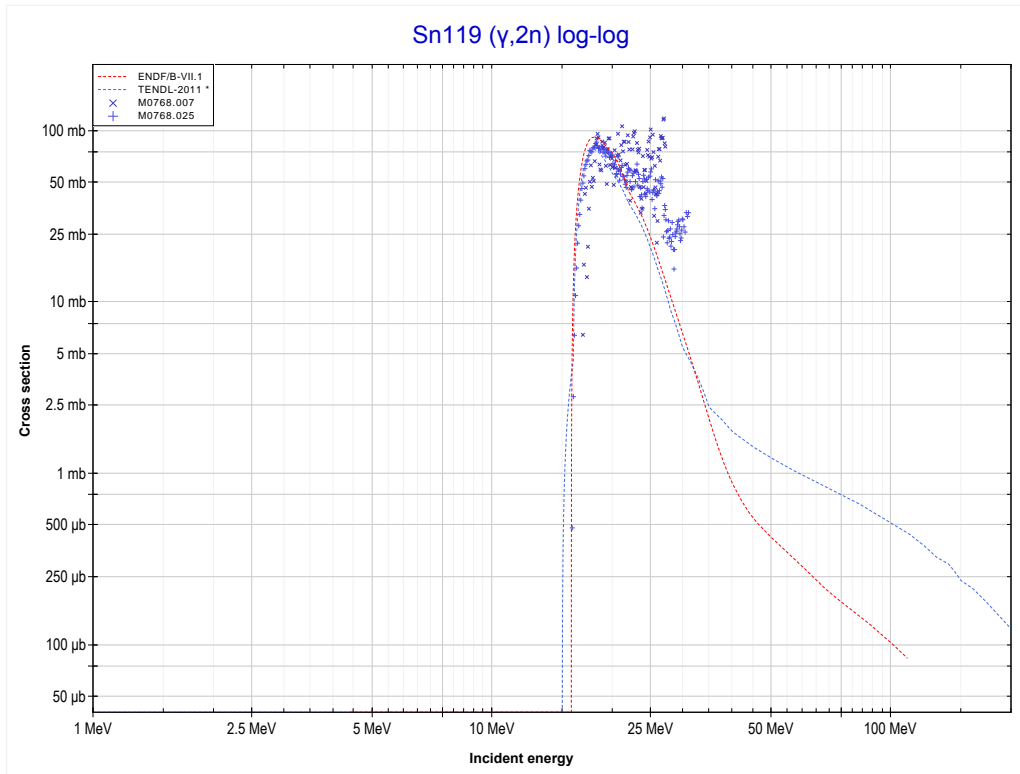
Reaction	Q-Value
Sn118(γ, t)In115	-17068.91 keV
Sn118($\gamma, n+d$)In115	-23326.14 keV
Sn118($\gamma, 2n+p$)In115	-25550.70 keV

<< 50-Sn-118	50-Sn-119	50-Sn-120 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Sn118 production)	MT16 ($\gamma,2n$) >>



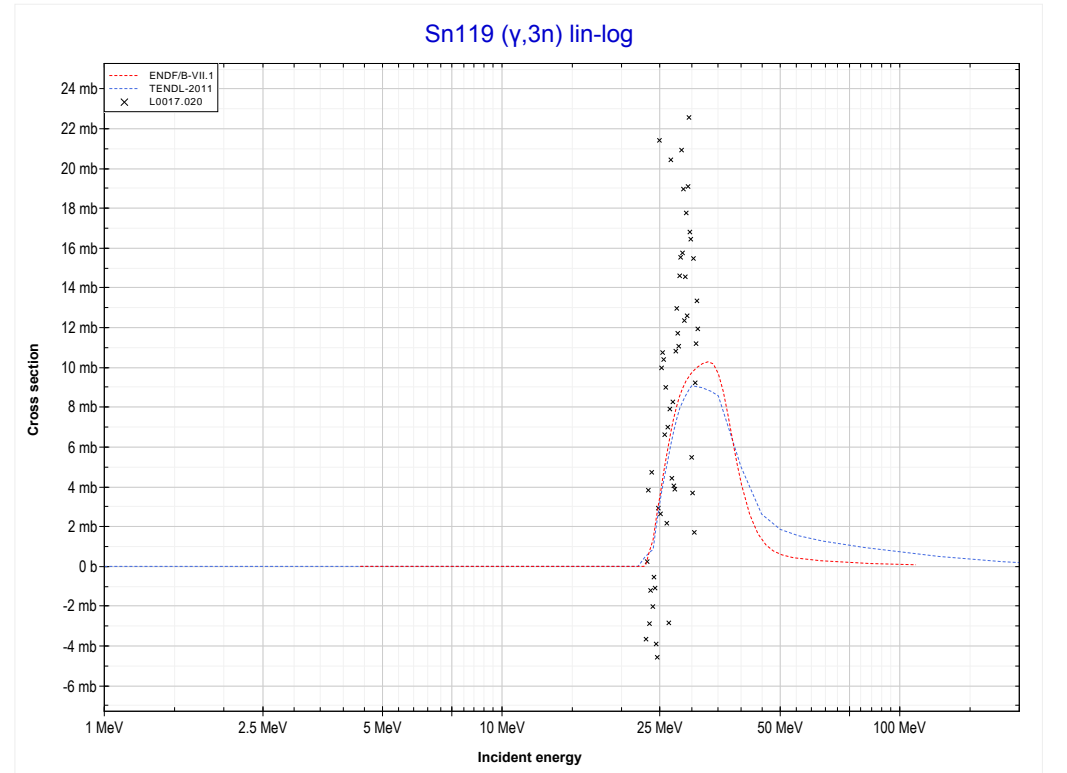
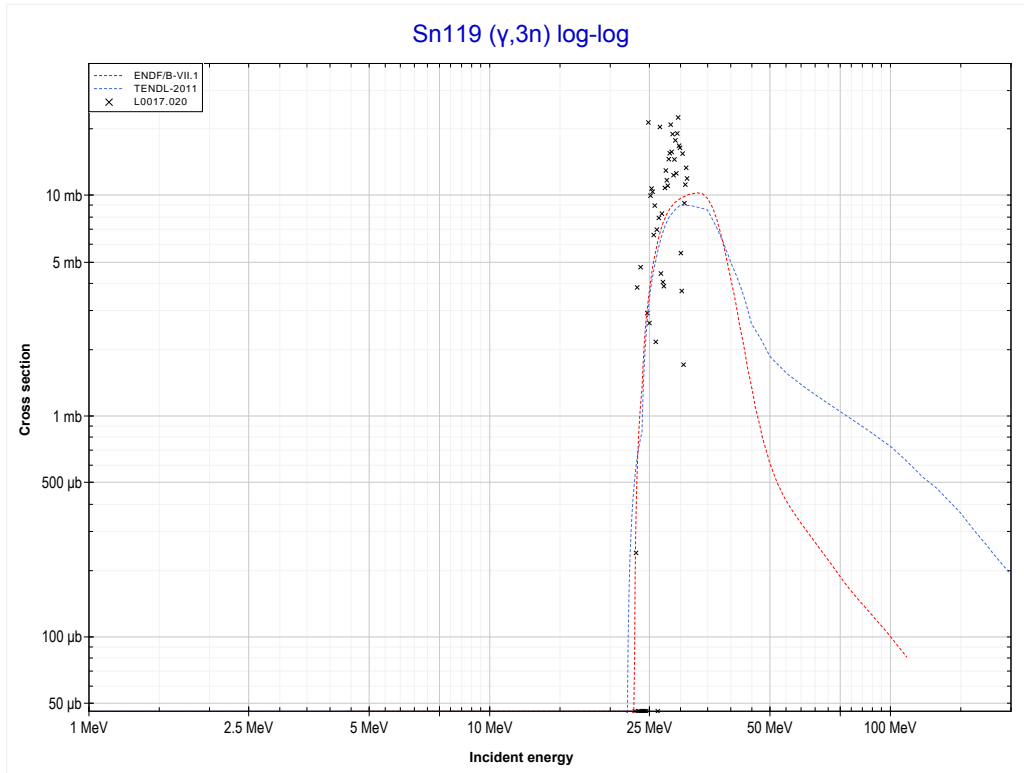
Reaction	Q-Value
Sn119(γ,n)Sn118	-6483.62 keV

<< 50-Sn-118	50-Sn-119	50-Sn-120 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn117 production)	MT17 ($\gamma,3n$) >>



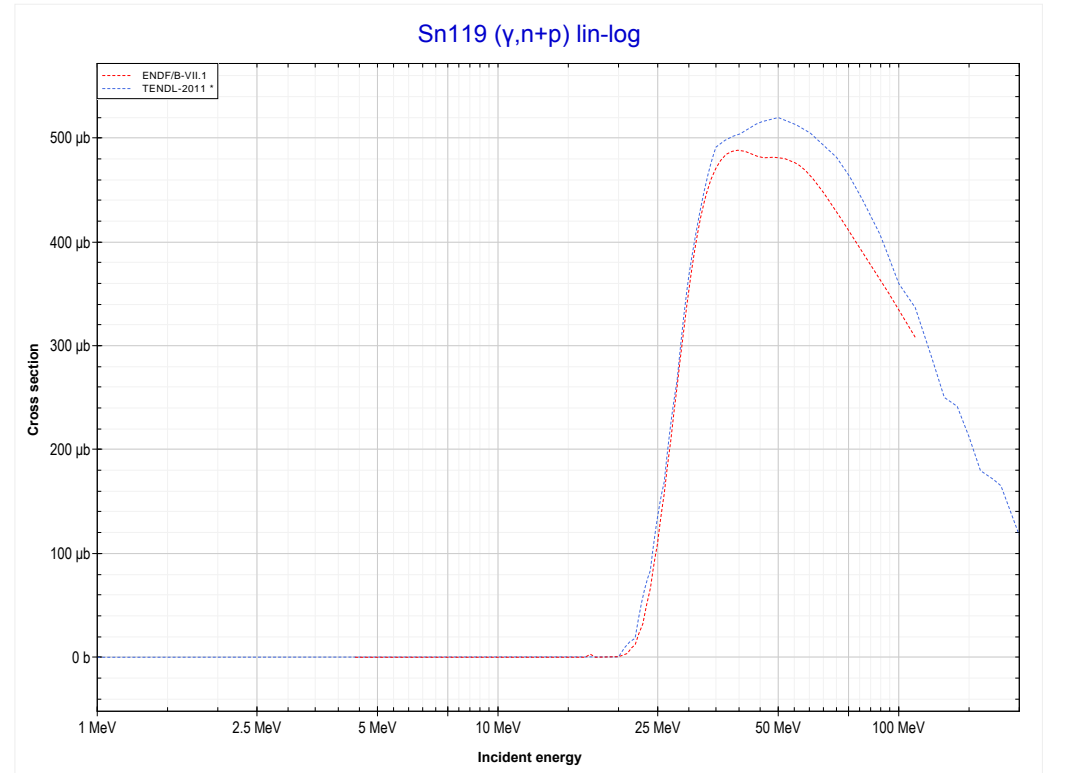
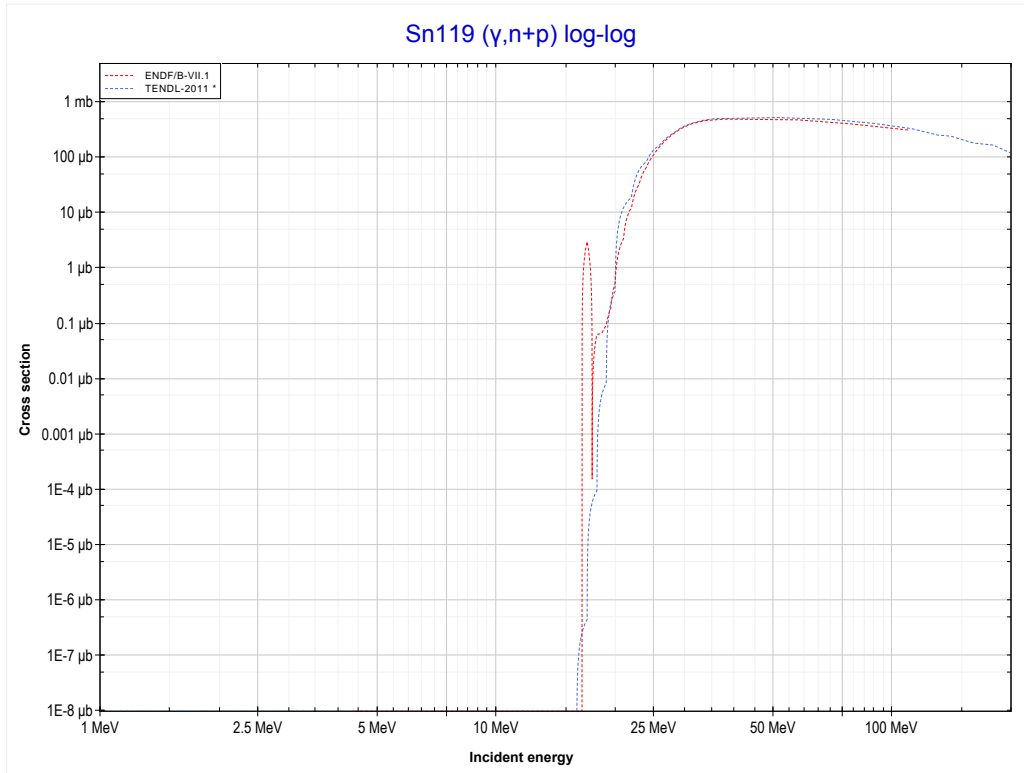
Reaction	Q-Value
Sn119($\gamma,2n$)Sn117	-15811.03 keV

<< 50-Sn-118	50-Sn-119	50-Sn-120 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Sn116 production)	MT28 ($\gamma,n+p$) >>



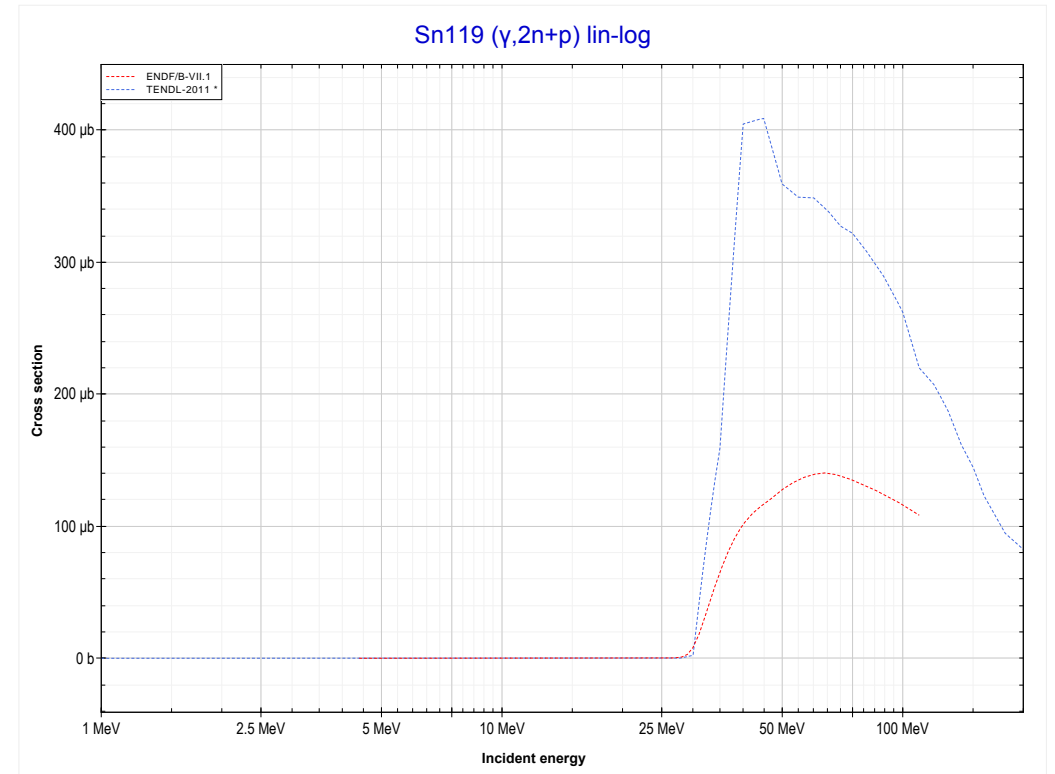
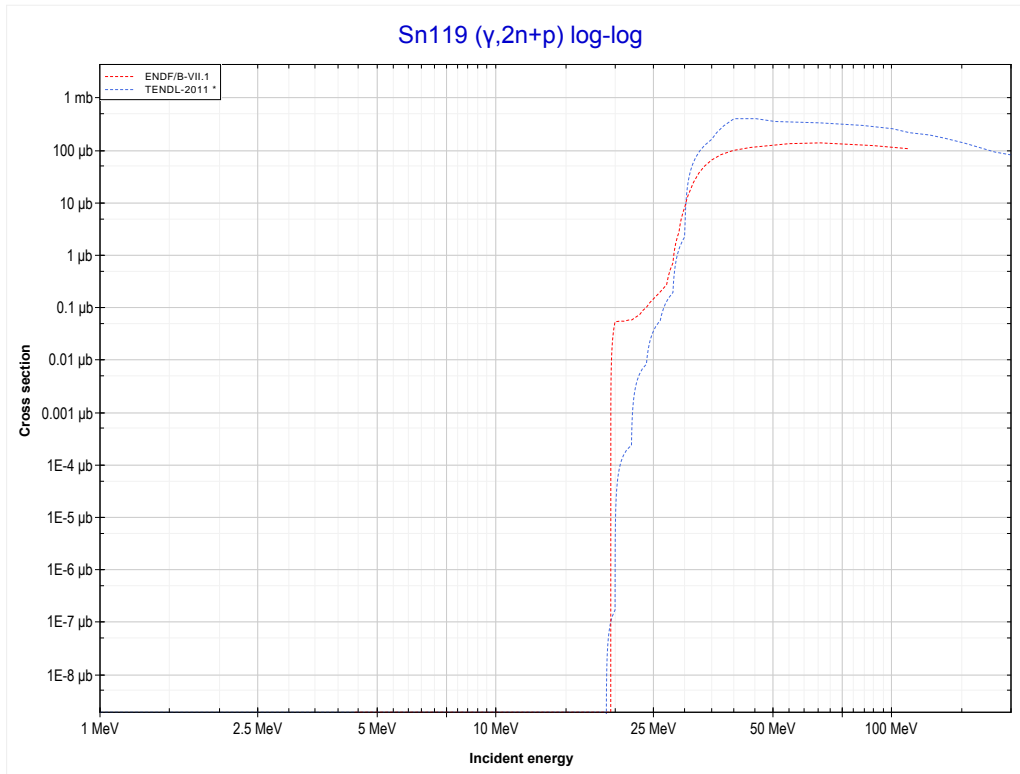
Reaction	Q-Value
Sn119($\gamma,3n$)Sn116	-22754.25 keV

<< 50-Sn-118	50-Sn-119	50-Sn-120 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (In117 production)	MT41 ($\gamma,2n+p$) >>



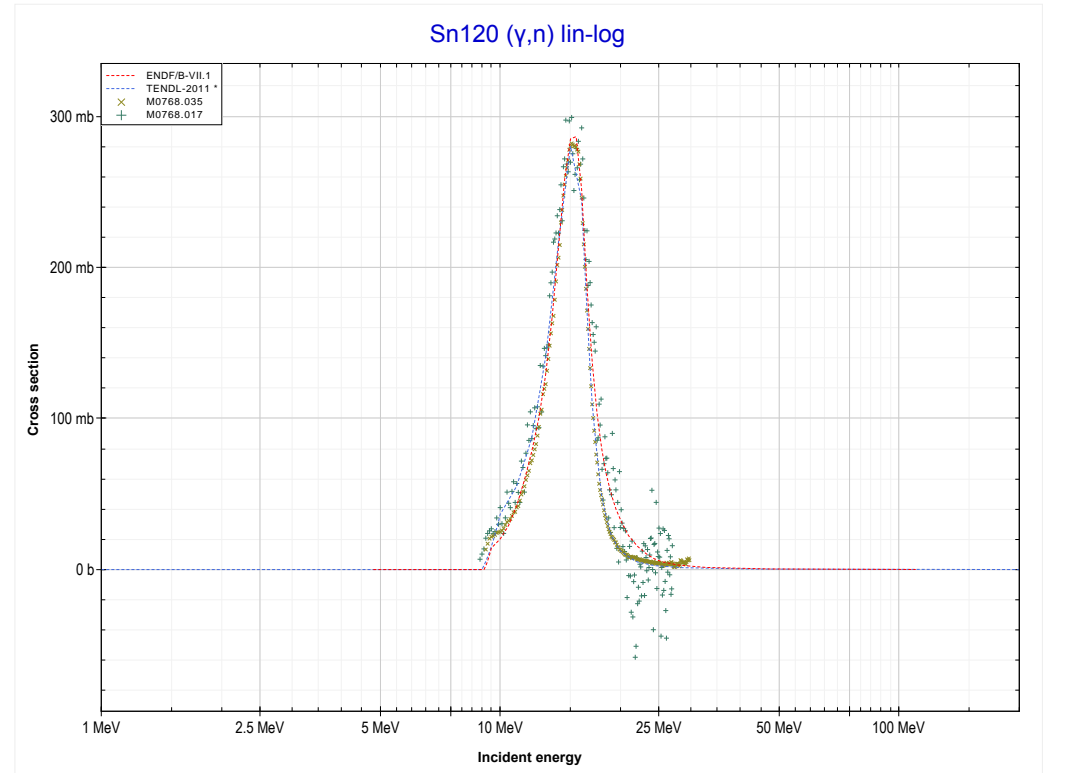
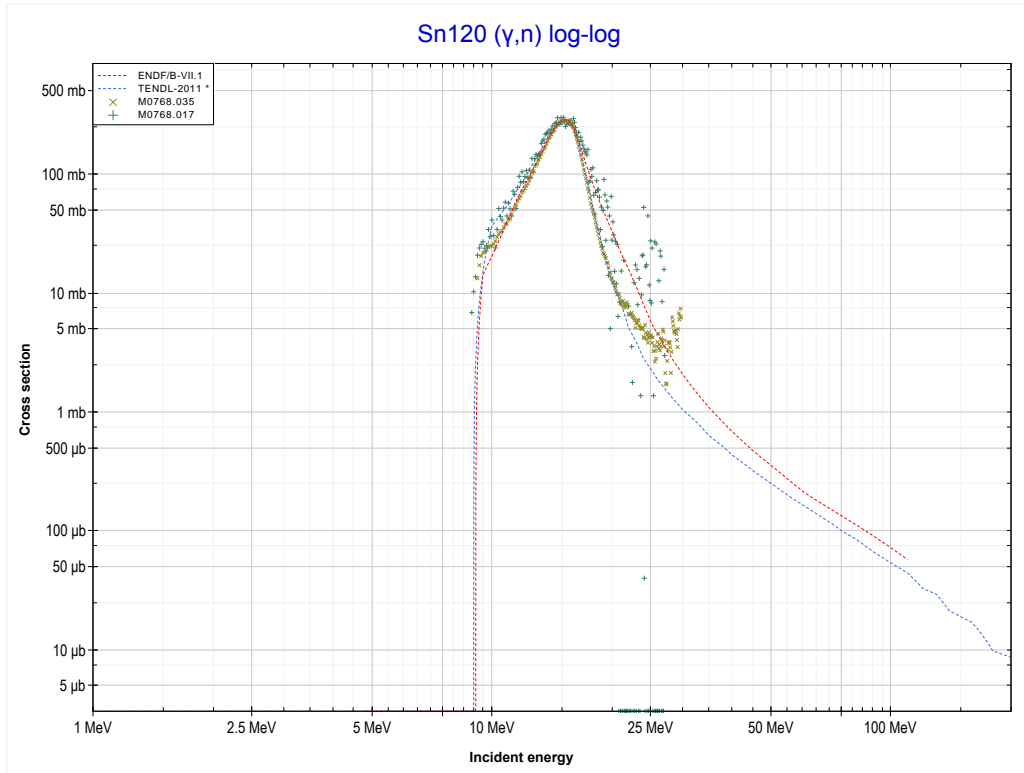
Reaction	Q-Value
Sn119(γ,d)In117	-14259.12 keV
Sn119($\gamma,n+p$)In117	-16483.69 keV

<< 50-Sn-118	50-Sn-119	50-Sn-120 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (In116 production)	MT4 (γ, n) >>



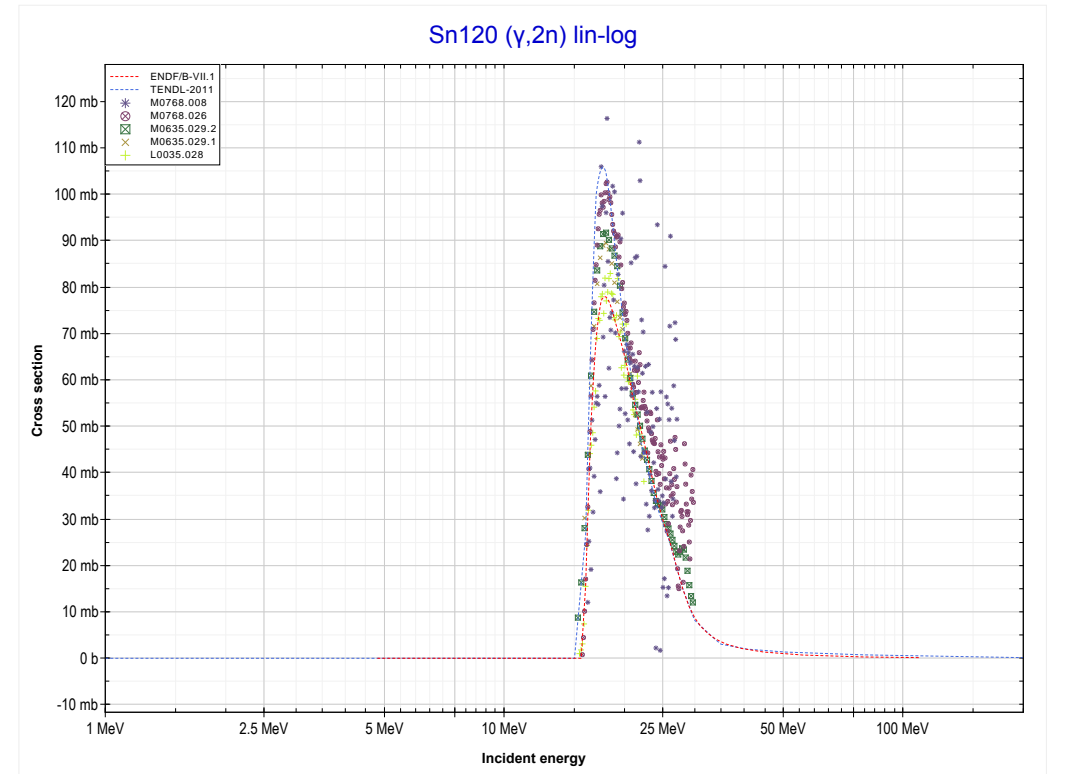
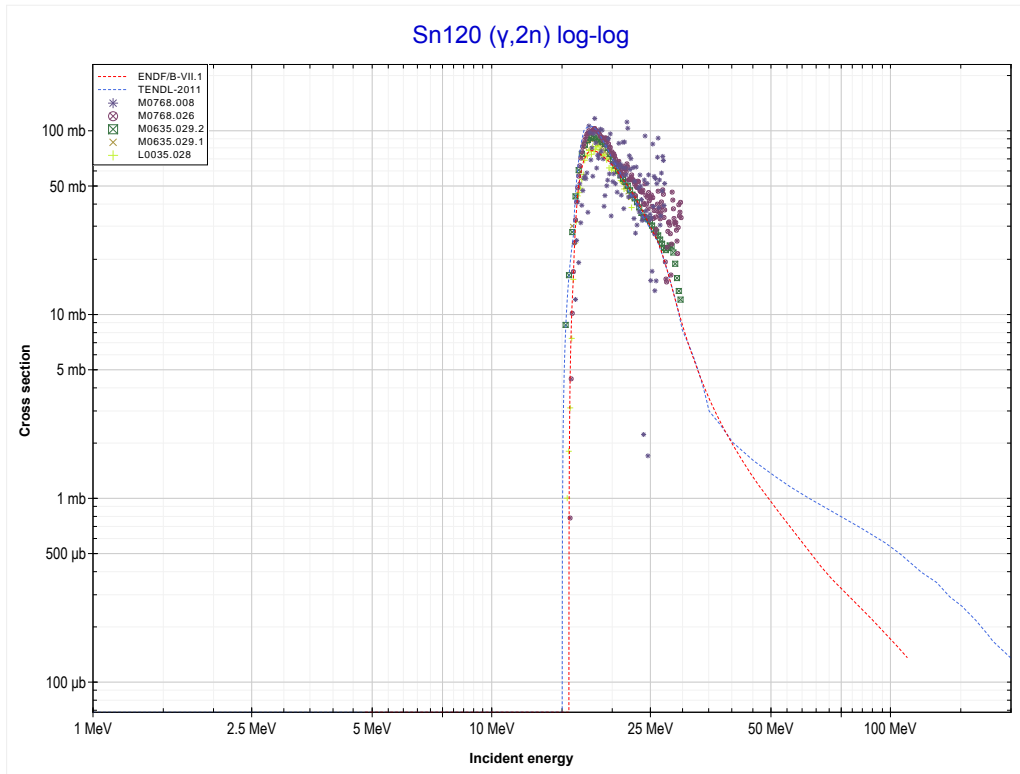
Reaction	Q-Value
Sn119(γ, t)In116	-16768.21 keV
Sn119($\gamma, n+d$)In116	-23025.44 keV
Sn119($\gamma, 2n+p$)In116	-25250.00 keV

<< 50-Sn-119	50-Sn-120	50-Sn-122 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Sn119 production)	MT16 ($\gamma,2n$) >>



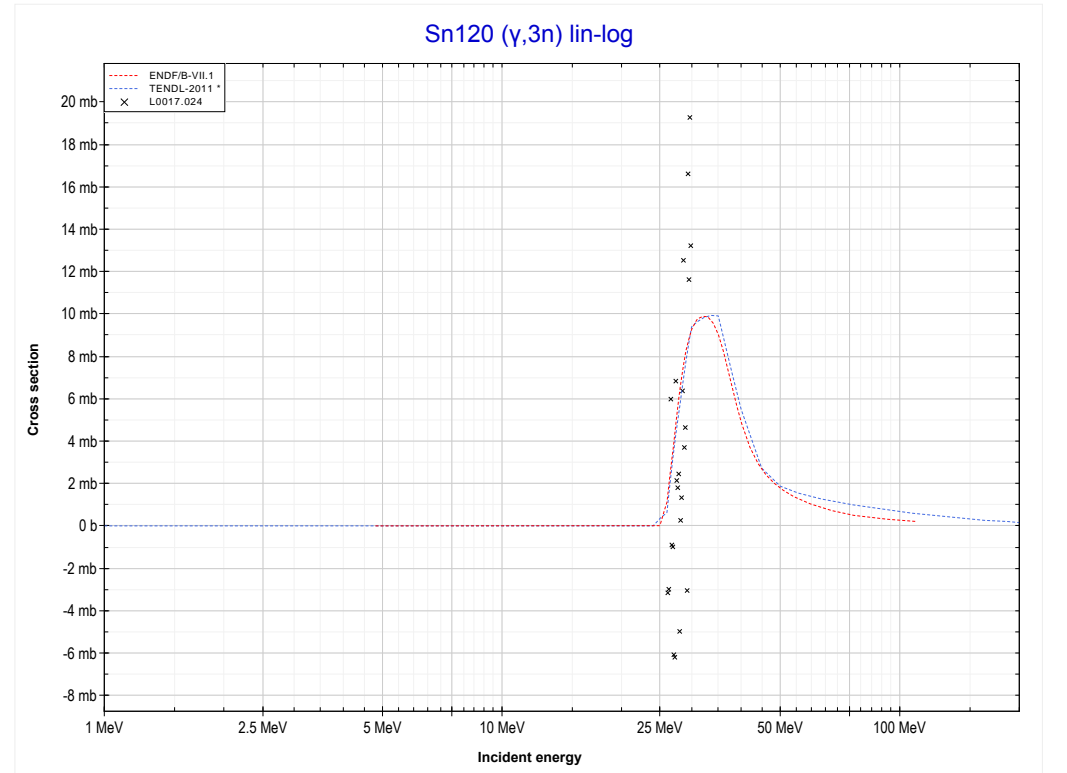
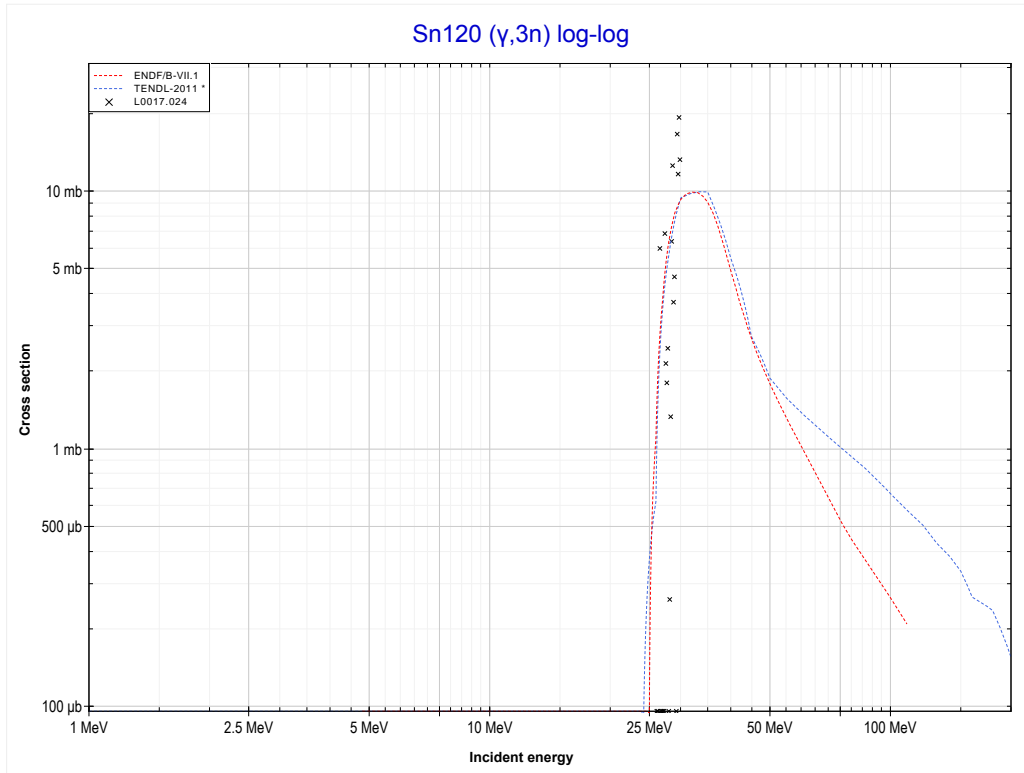
Reaction	Q-Value
Sn120(γ,n)Sn119	-9108.02 keV

<< 50-Sn-119	50-Sn-120	50-Sn-122 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn118 production)	MT17 ($\gamma,3n$) >>



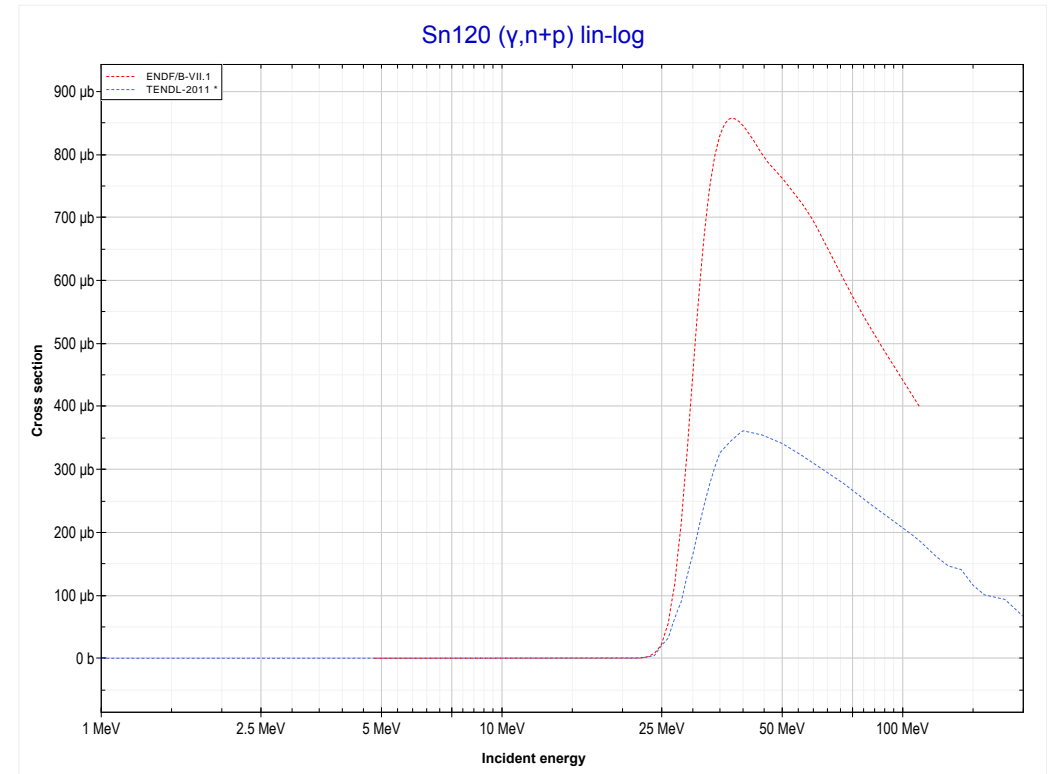
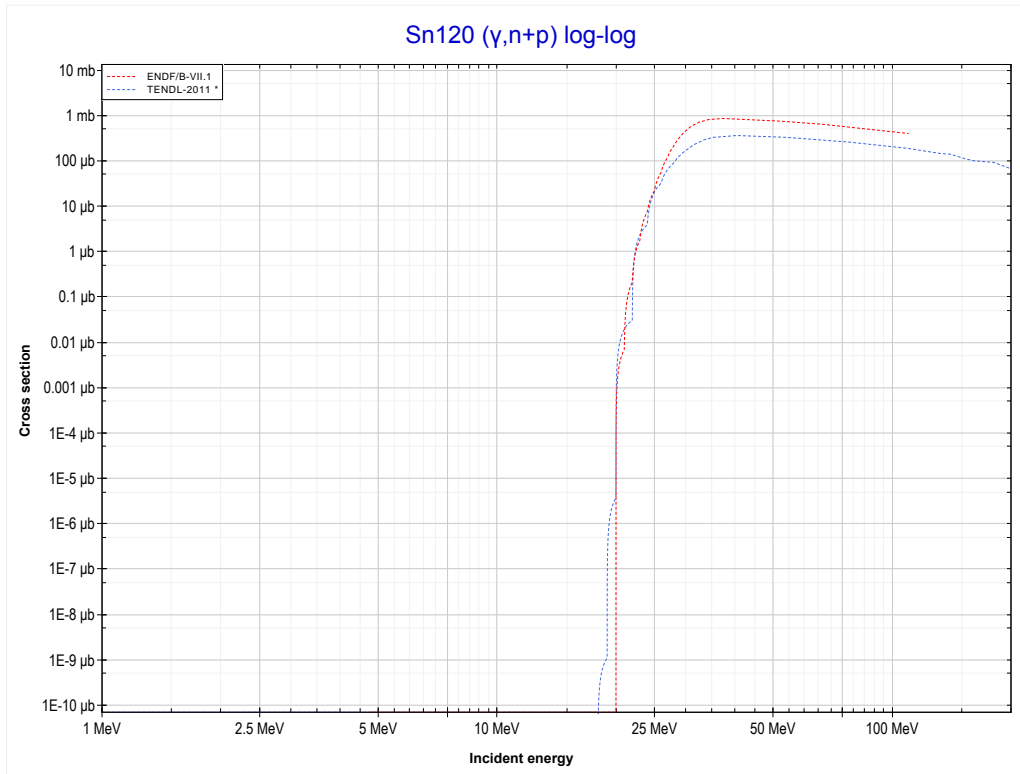
Reaction	Q-Value
Sn120($\gamma,2n$)Sn118	-15591.63 keV

<< 50-Sn-119	50-Sn-120	50-Sn-124 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Sn117 production)	MT28 ($\gamma,n+p$) >>



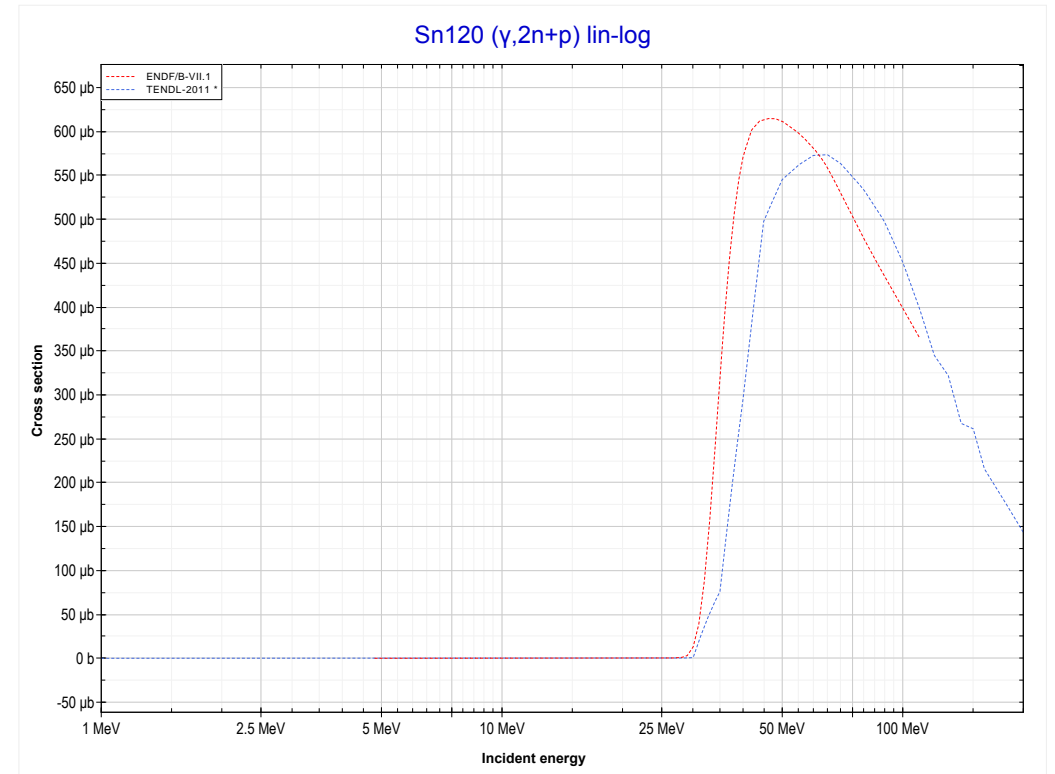
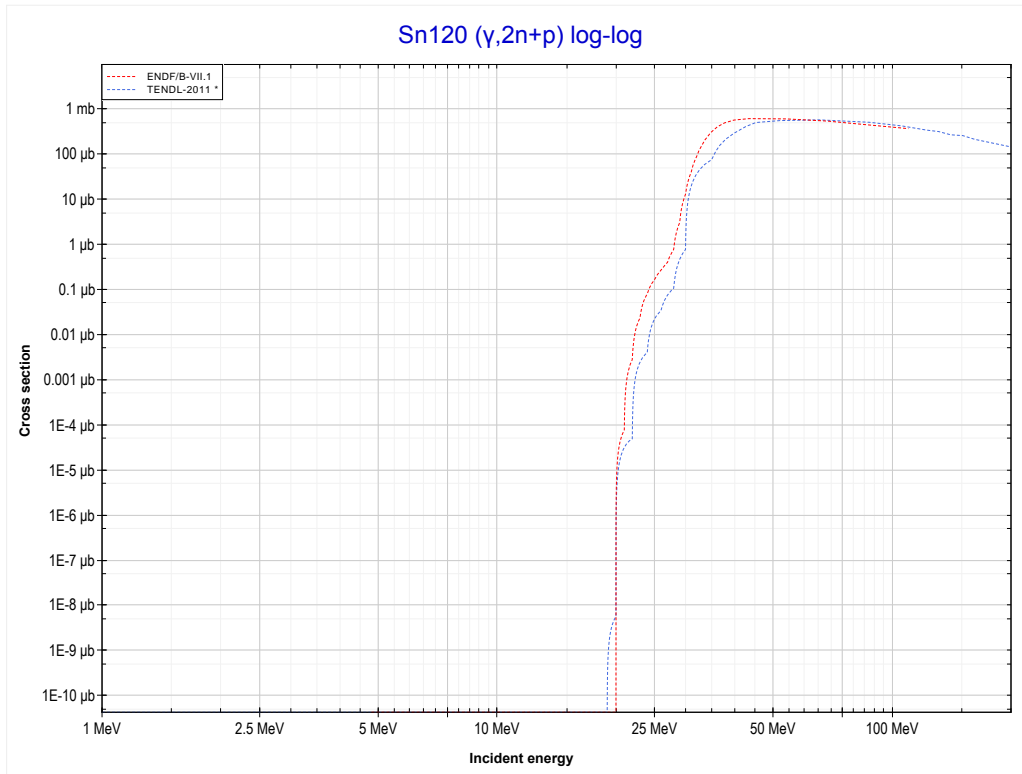
Reaction	Q-Value
Sn120($\gamma,3n$)Sn117	-24919.05 keV

<< 50-Sn-119	50-Sn-120	50-Sn-124 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (In118 production)	MT41 ($\gamma,2n+p$) >>



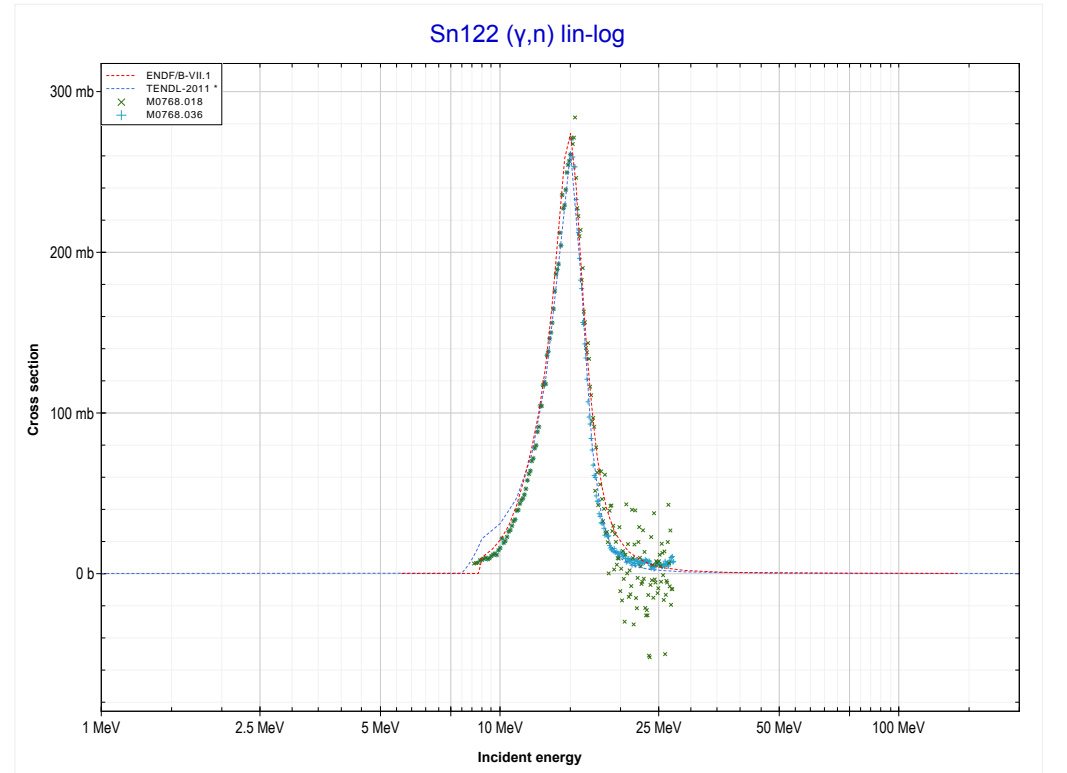
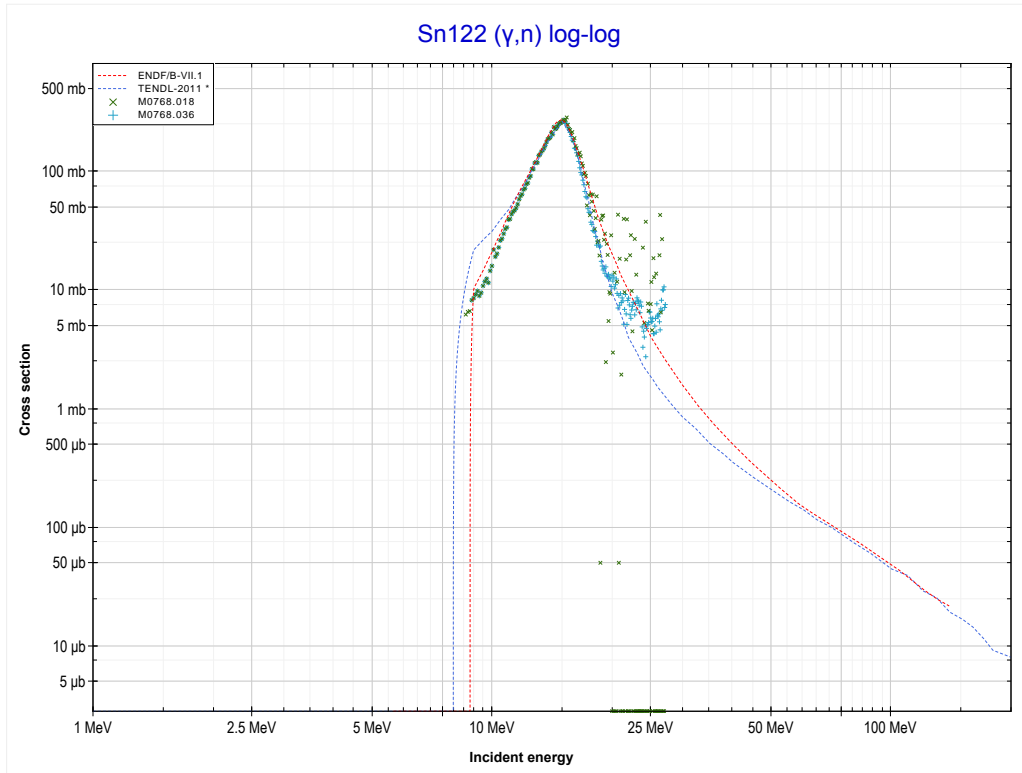
Reaction	Q-Value
Sn120(γ,d)In118	-17010.82 keV
Sn120($\gamma,n+p$)In118	-19235.39 keV

<< 50-Sn-119	50-Sn-120	50-Sn-124 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (In117 production)	MT4 (γ, n) >>



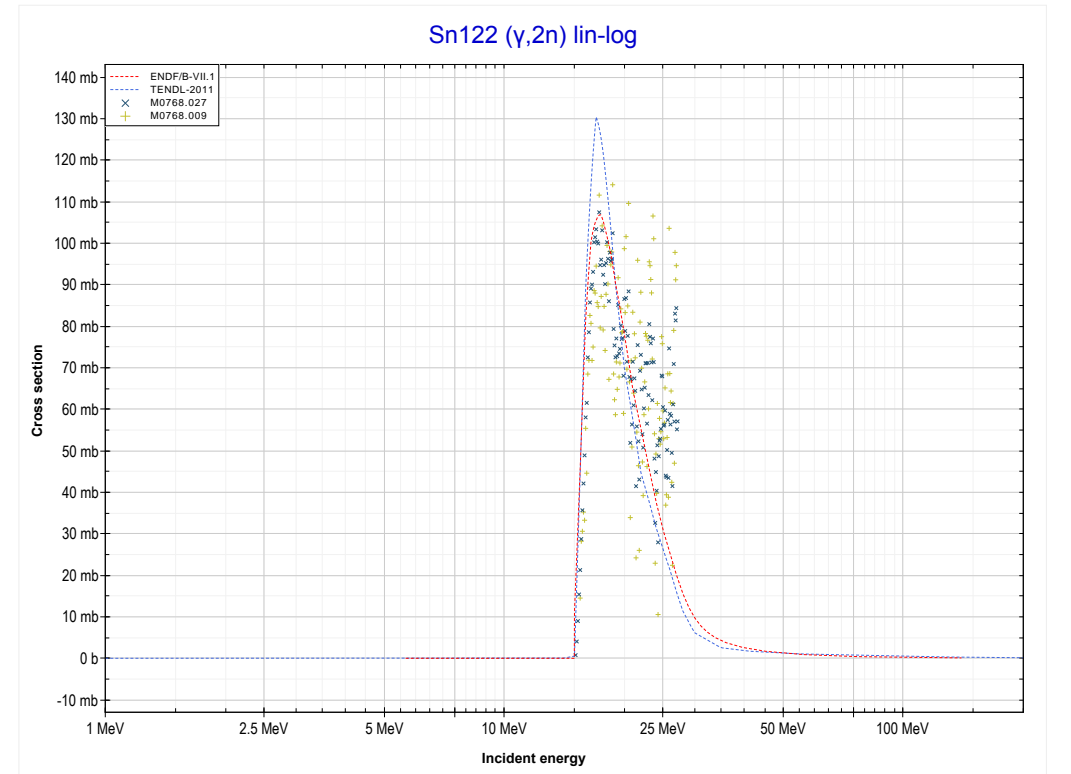
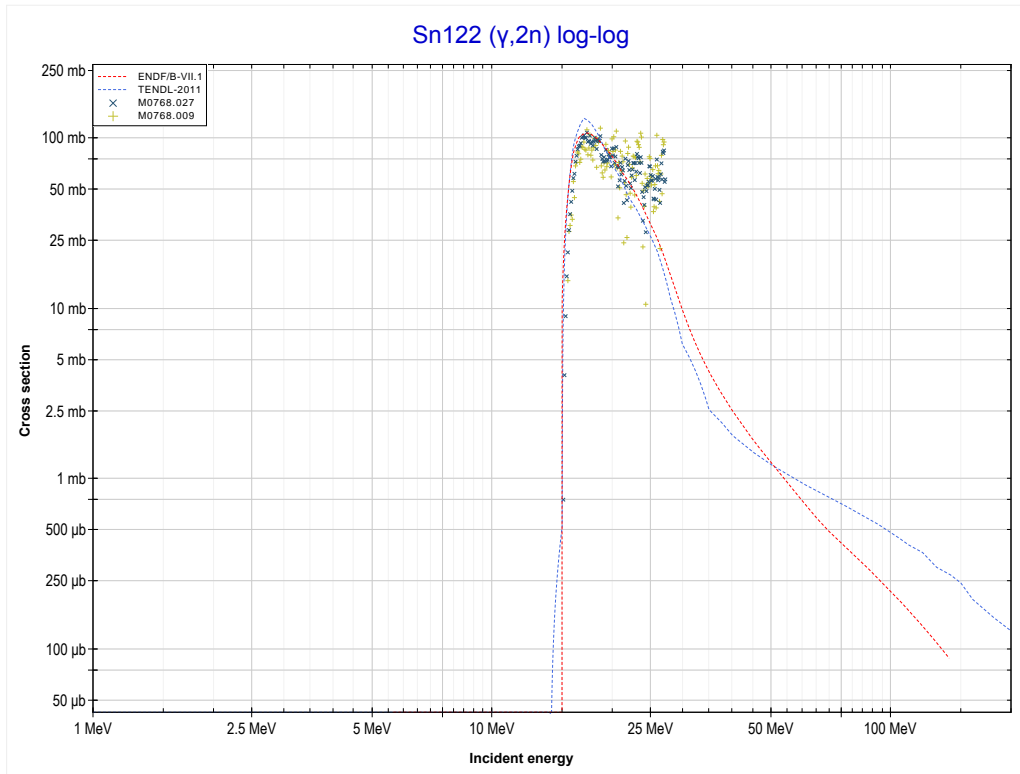
Reaction	Q-Value
Sn120(γ, t)In117	-17109.91 keV
Sn120($\gamma, n+d$)In117	-23367.14 keV
Sn120($\gamma, 2n+p$)In117	-25591.70 keV

<< 50-Sn-120	50-Sn-122	50-Sn-124 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Sn121 production)	MT16 ($\gamma,2n$) >>



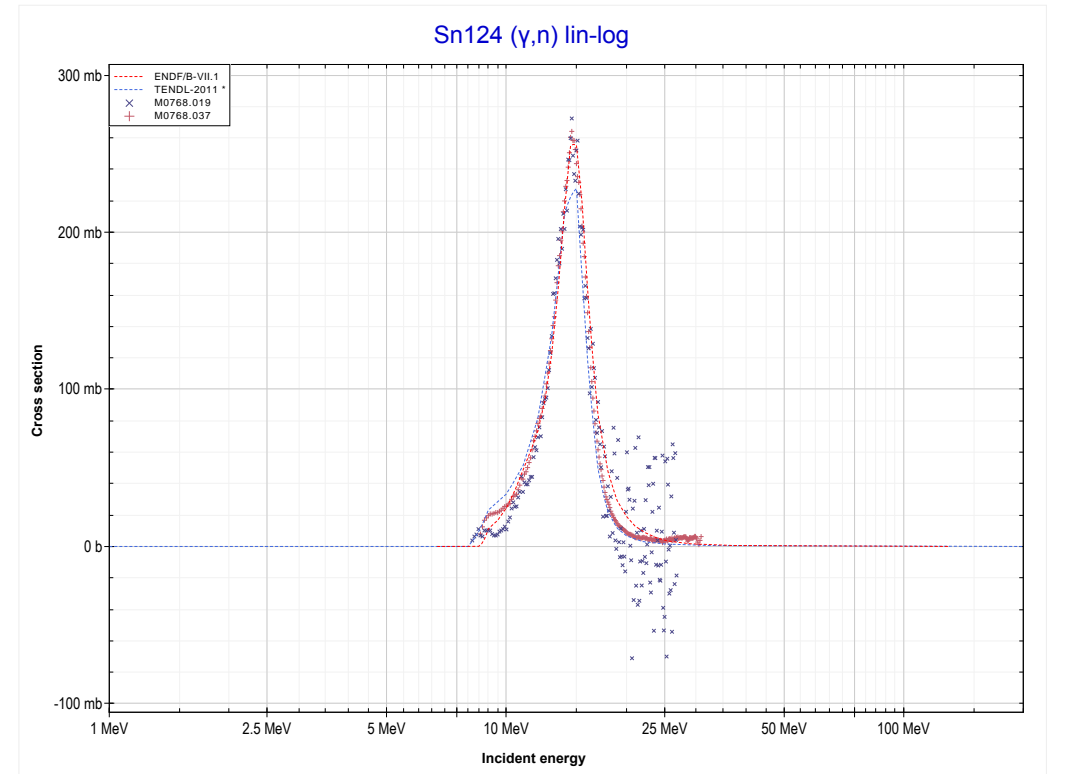
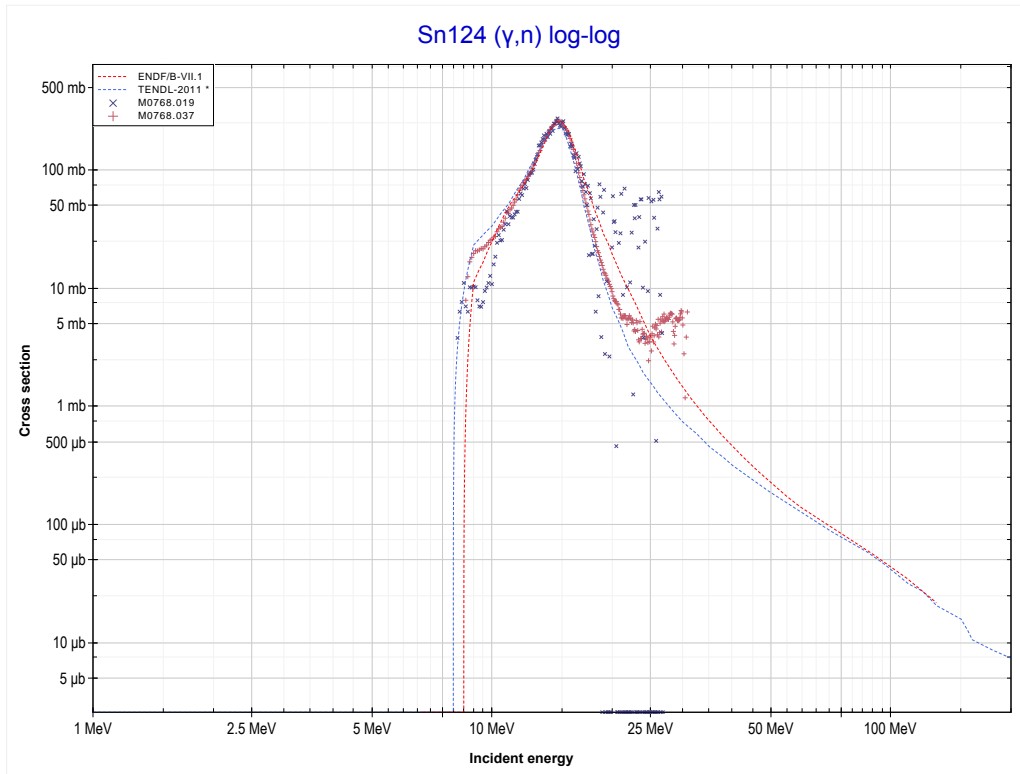
Reaction	Q-Value
Sn122(γ,n)Sn121	-8813.12 keV

<< 50-Sn-120	50-Sn-122	50-Sn-124 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn120 production)	MT4 (γ,n) >>



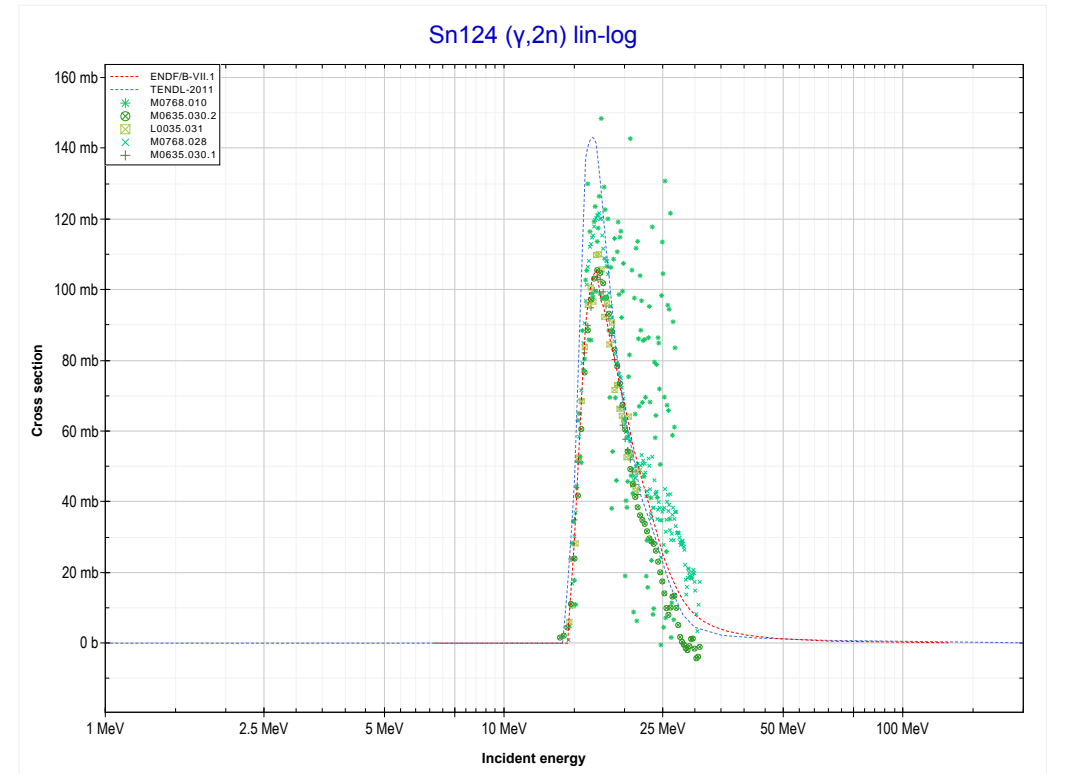
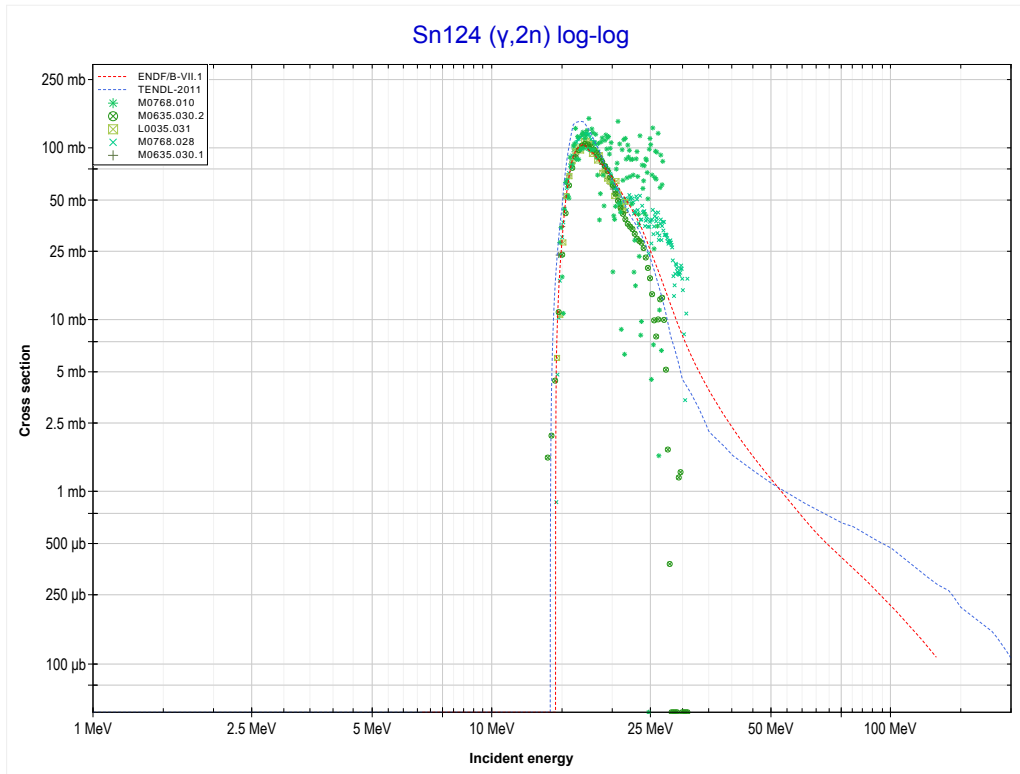
Reaction	Q-Value
Sn122($\gamma,2n$)Sn120	-14983.43 keV

<< 50-Sn-122	50-Sn-124	51-Sb-121 >>
<< MT16 ($\gamma,2n$)	MT4 (γ,n) or MT5 (Sn123 production)	MT16 ($\gamma,2n$) >>



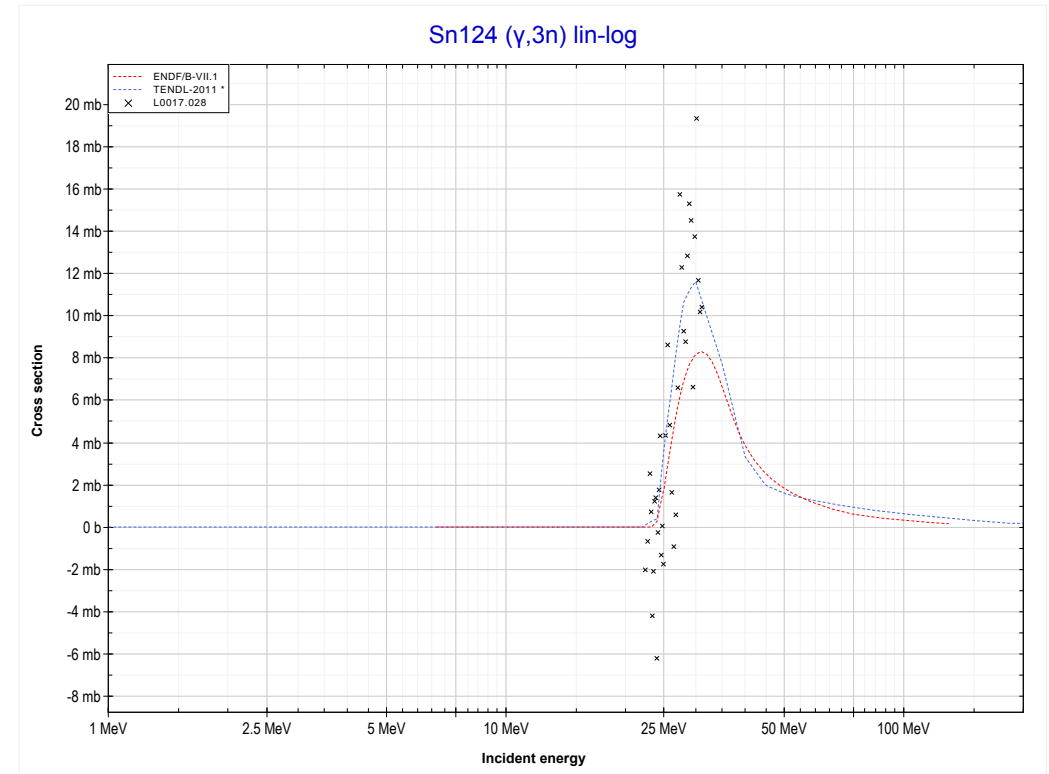
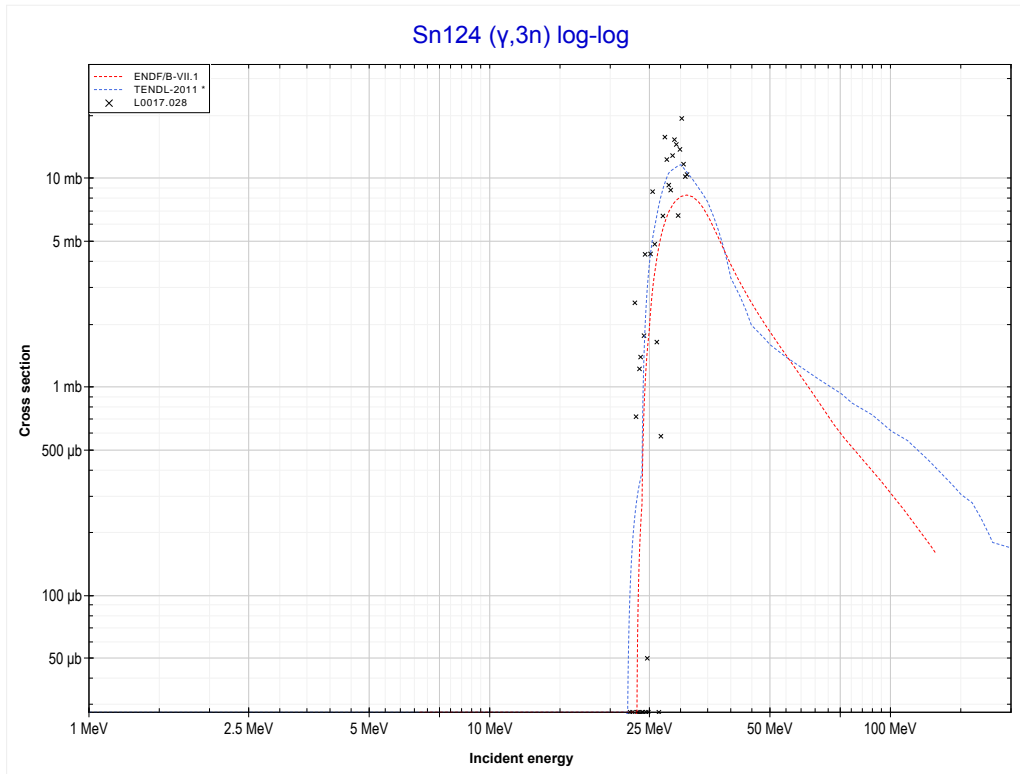
Reaction	Q-Value
Sn124(γ,n)Sn123	-8487.62 keV

<< 50-Sn-122	50-Sn-124	52-Te-124 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sn122 production)	MT17 ($\gamma,3n$) >>



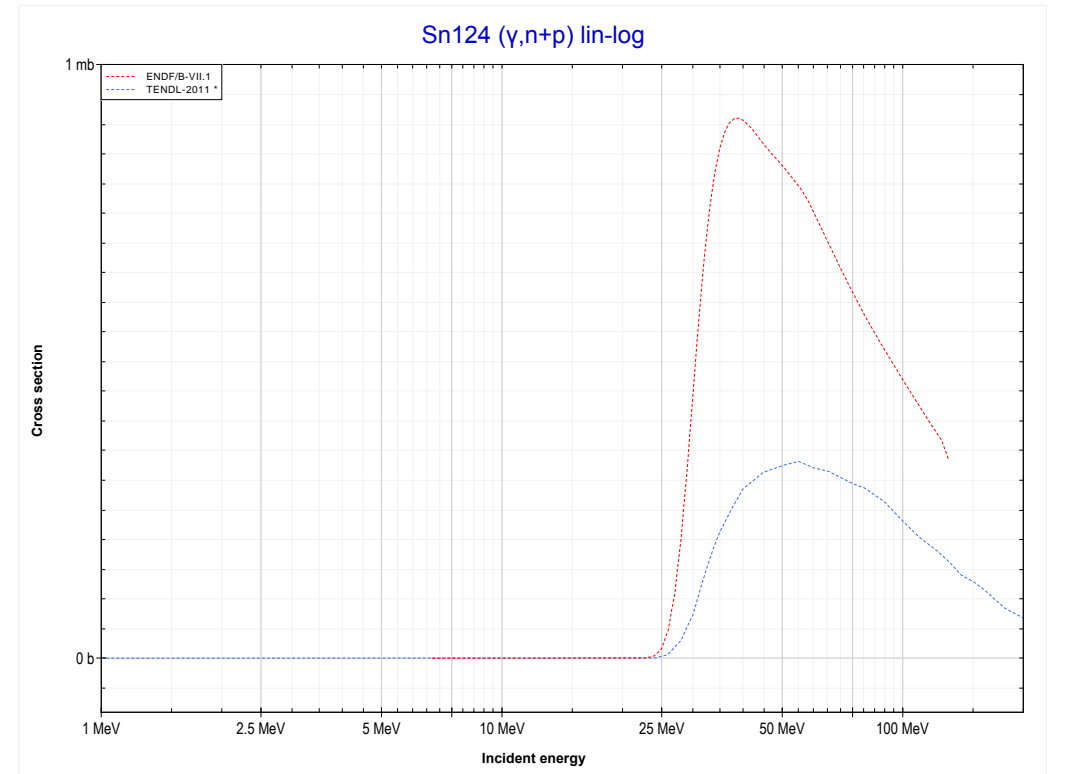
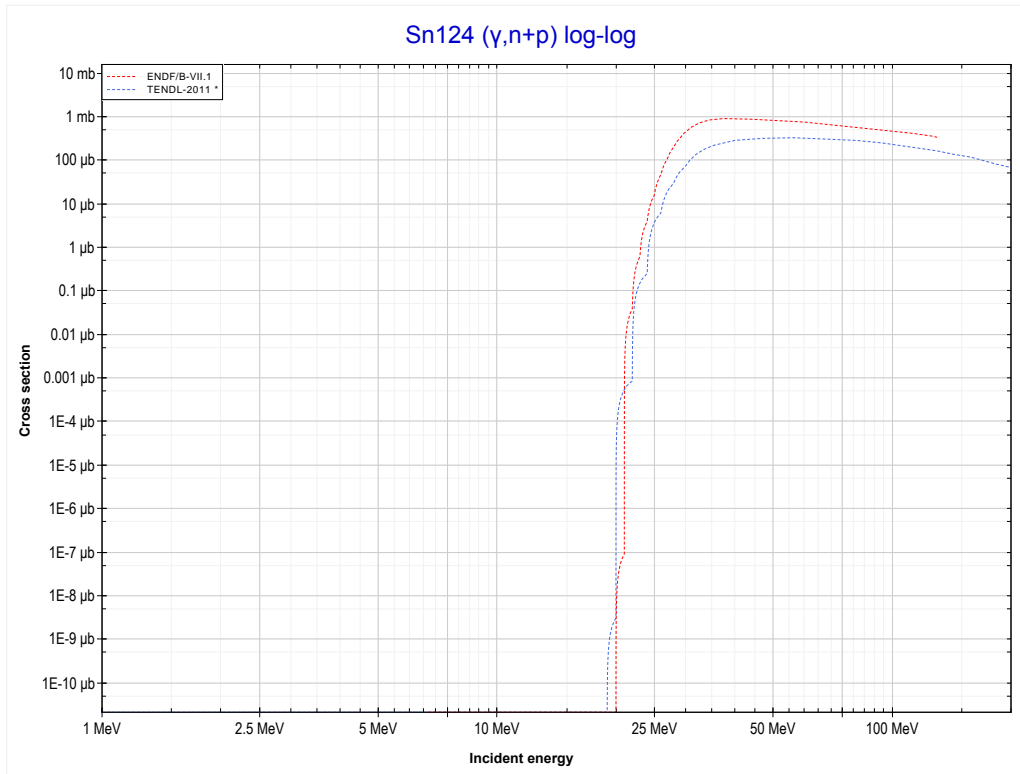
Reaction	Q-Value
Sn124($\gamma,2n$)Sn122	-14433.53 keV

<< 50-Sn-120	50-Sn-124	53-I-127 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Sn121 production)	MT28 ($\gamma,n+p$) >>



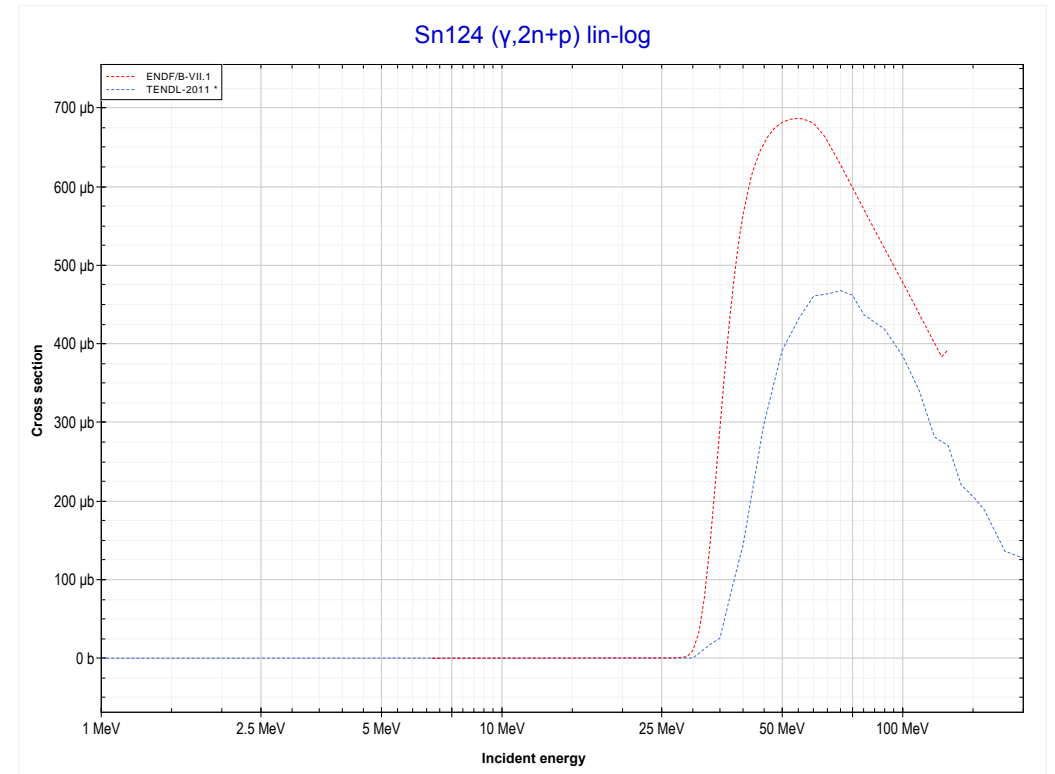
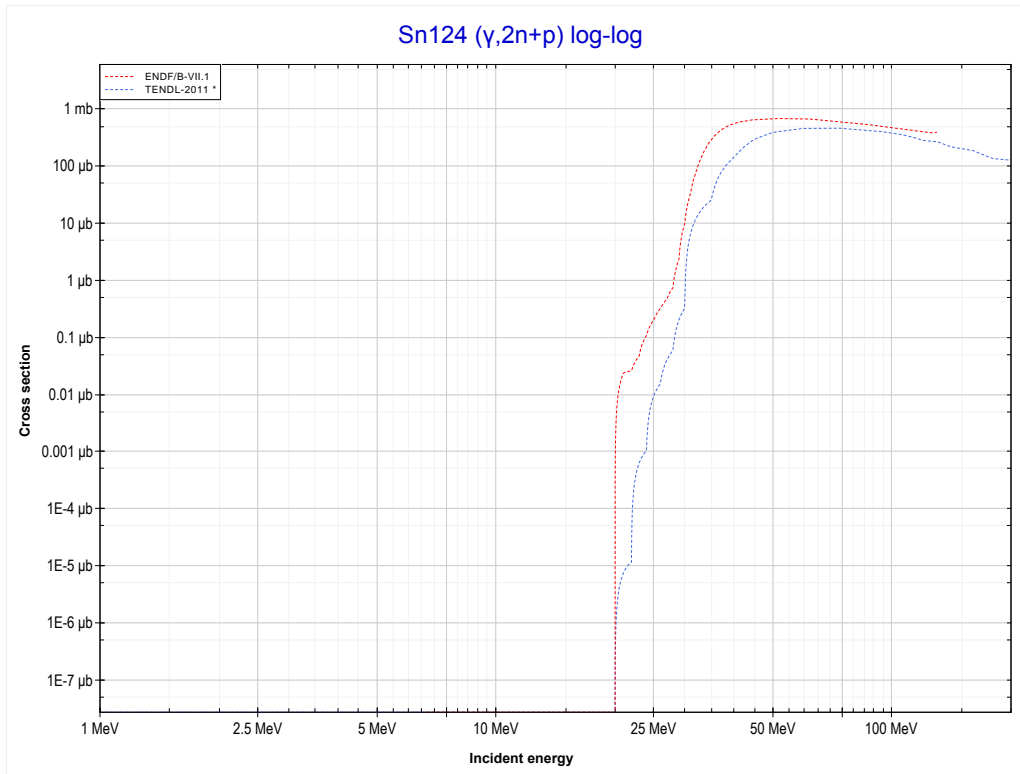
Reaction	Q-Value
Sn124($\gamma,3n$)Sn121	-23246.65 keV

<< 50-Sn-120	50-Sn-124	52-Te-124 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (In122 production)	MT41 ($\gamma,2n+p$) >>



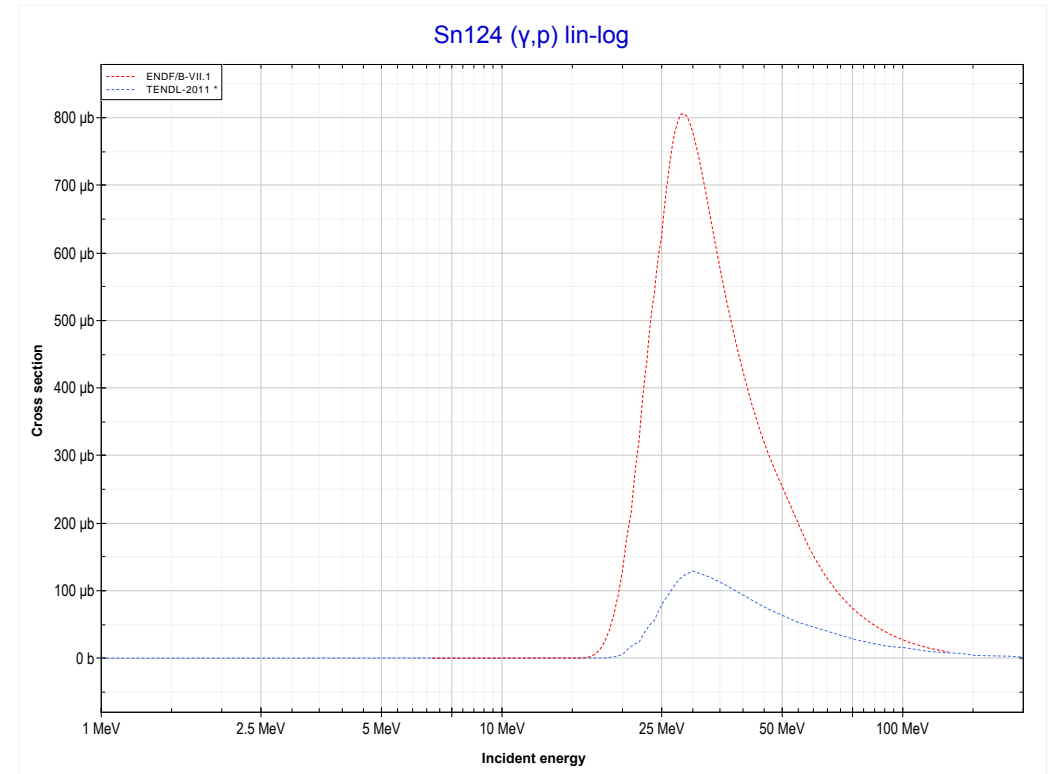
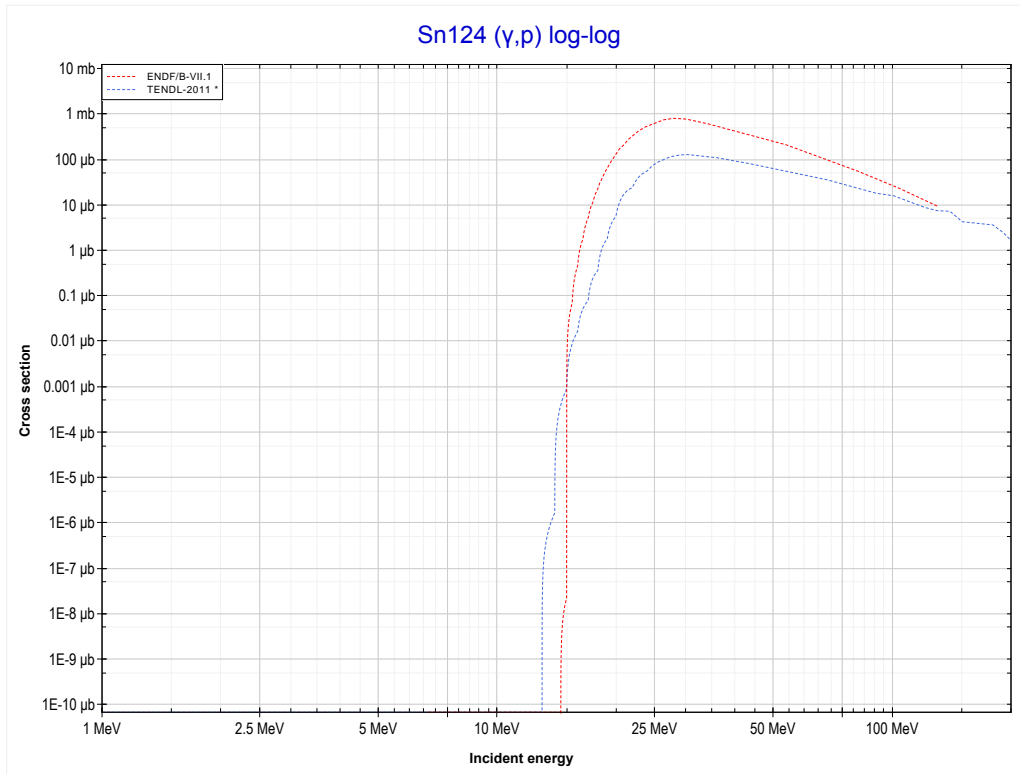
Reaction	Q-Value
Sn124(γ,d)In122	-17792.52 keV
Sn124($\gamma,n+p$)In122	-20017.09 keV

<< 50-Sn-120	50-Sn-124	52-Te-124 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (In121 production)	MT103 (γ, p) >>



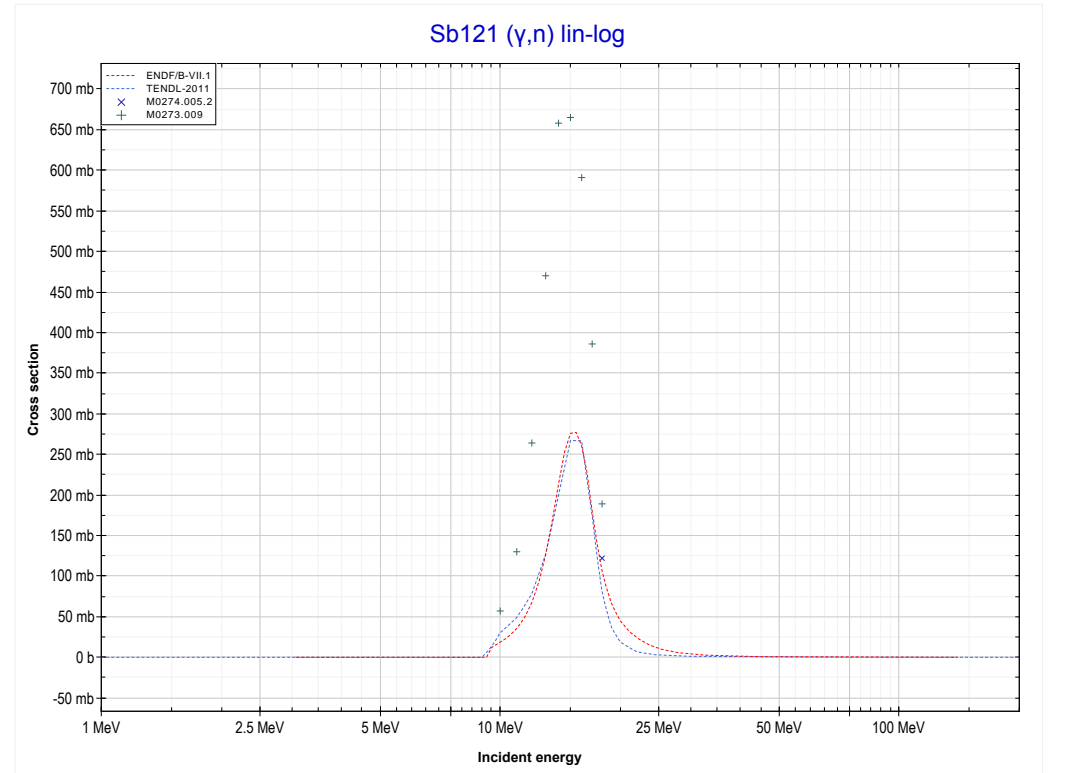
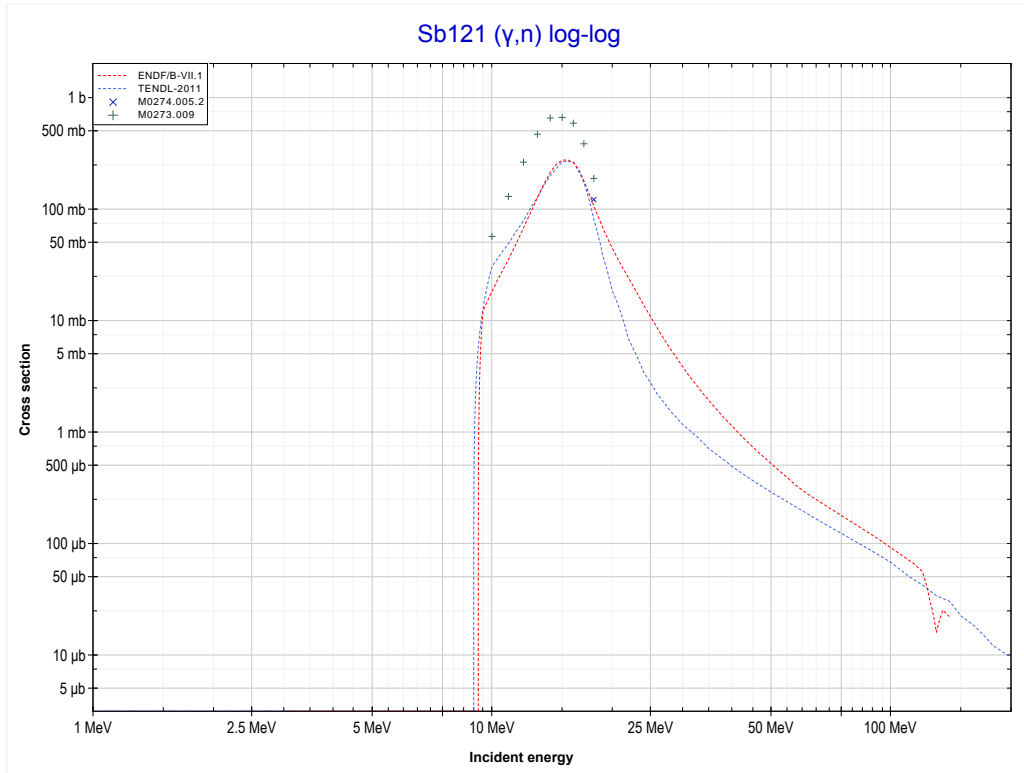
Reaction	Q-Value
Sn124(γ, t)In121	-17345.61 keV
Sn124($\gamma, n+d$)In121	-23602.84 keV
Sn124($\gamma, 2n+p$)In121	-25827.40 keV

<< 50-Sn-112	50-Sn-124	64-Gd-160 >>
<< MT41 ($\gamma, 2n+p$)	MT103 (γ, p) or MT5 (In123 production)	MT4 (γ, n) >>



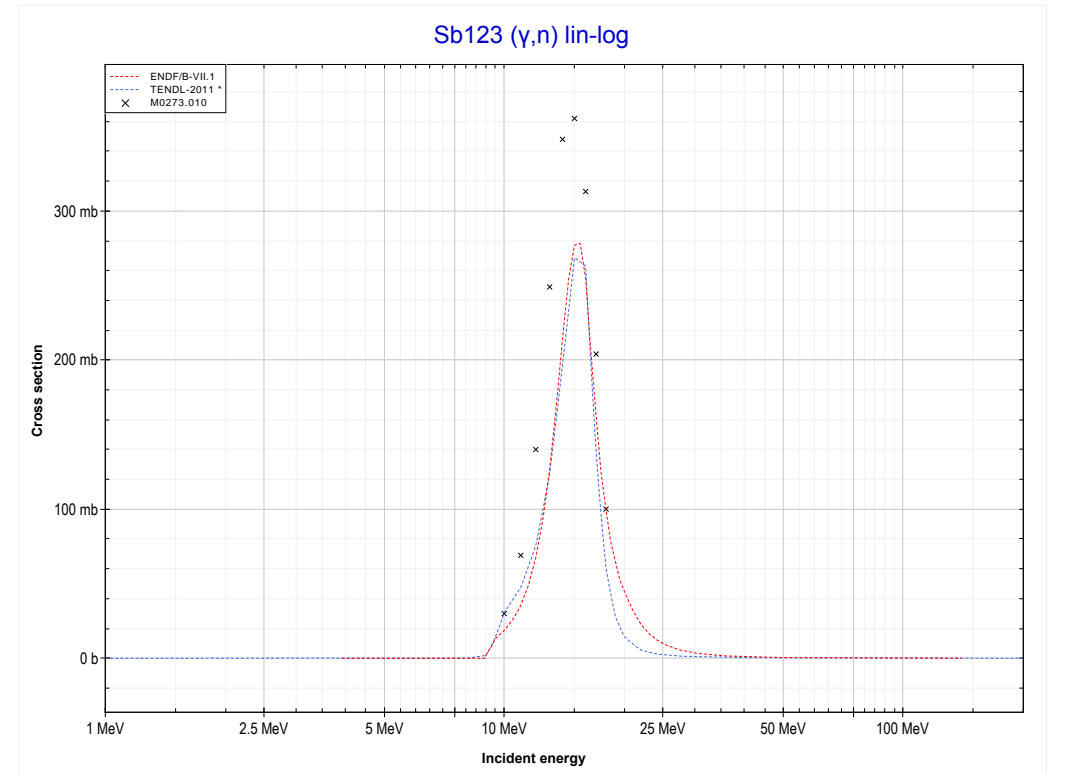
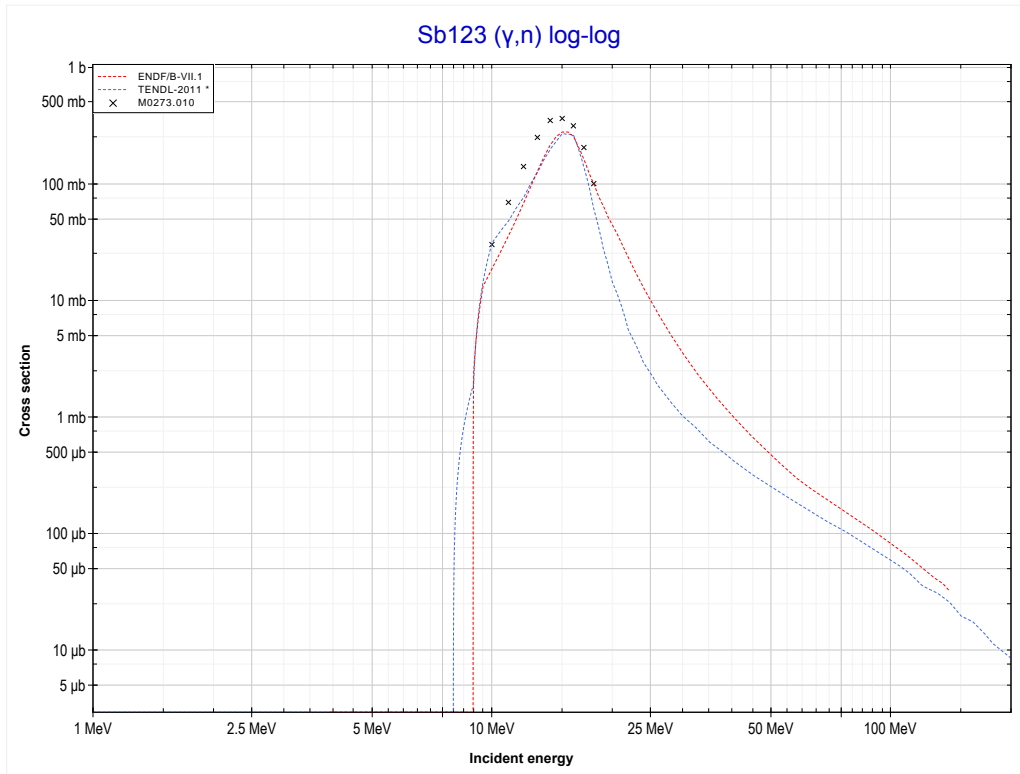
Reaction	Q-Value
Sn124(γ, p)In123	-12099.77 keV

<< 50-Sn-124	51-Sb-121	51-Sb-123 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Sb120 production)	MT4 (γ,n) >>



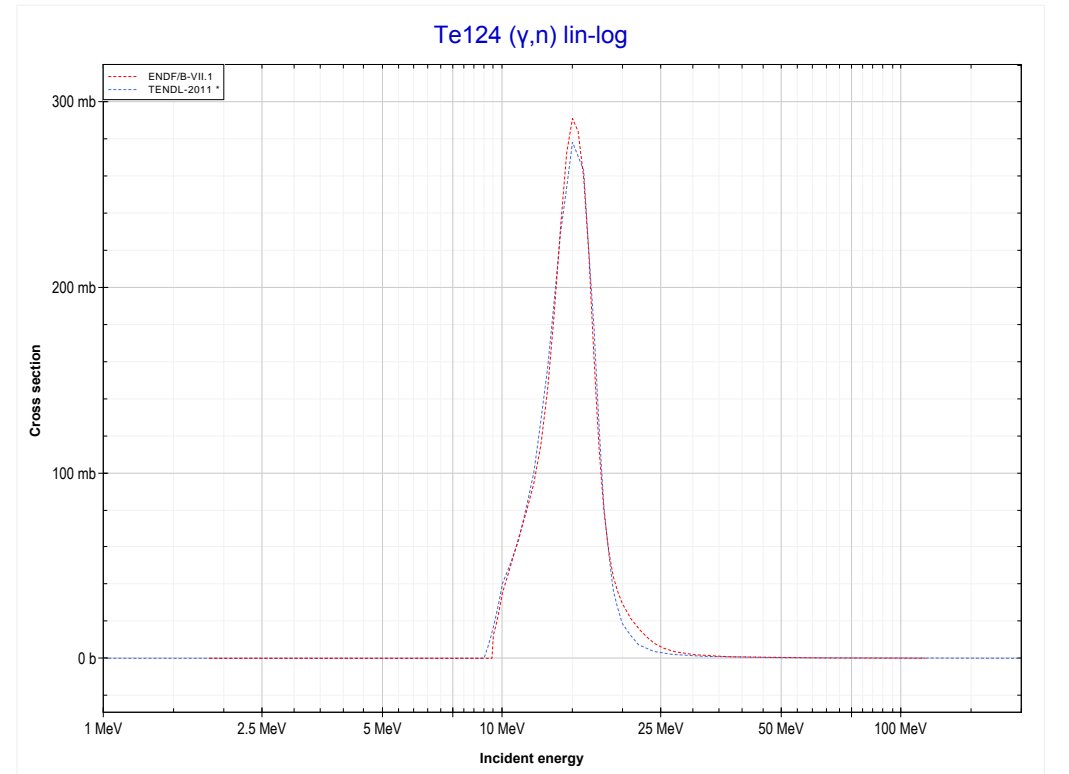
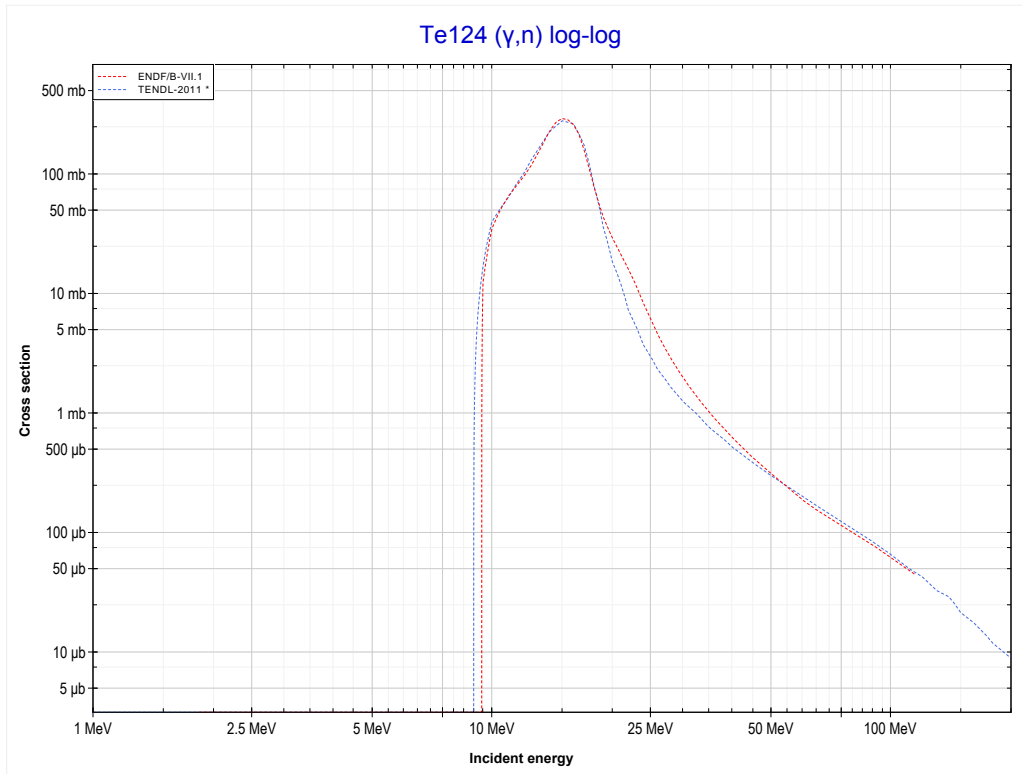
Reaction	Q-Value
Sb121(γ,n)Sb120	-9242.42 keV

<< 51-Sb-121	51-Sb-123	52-Te-124 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Sb122 production)	MT4 (γ,n) >>



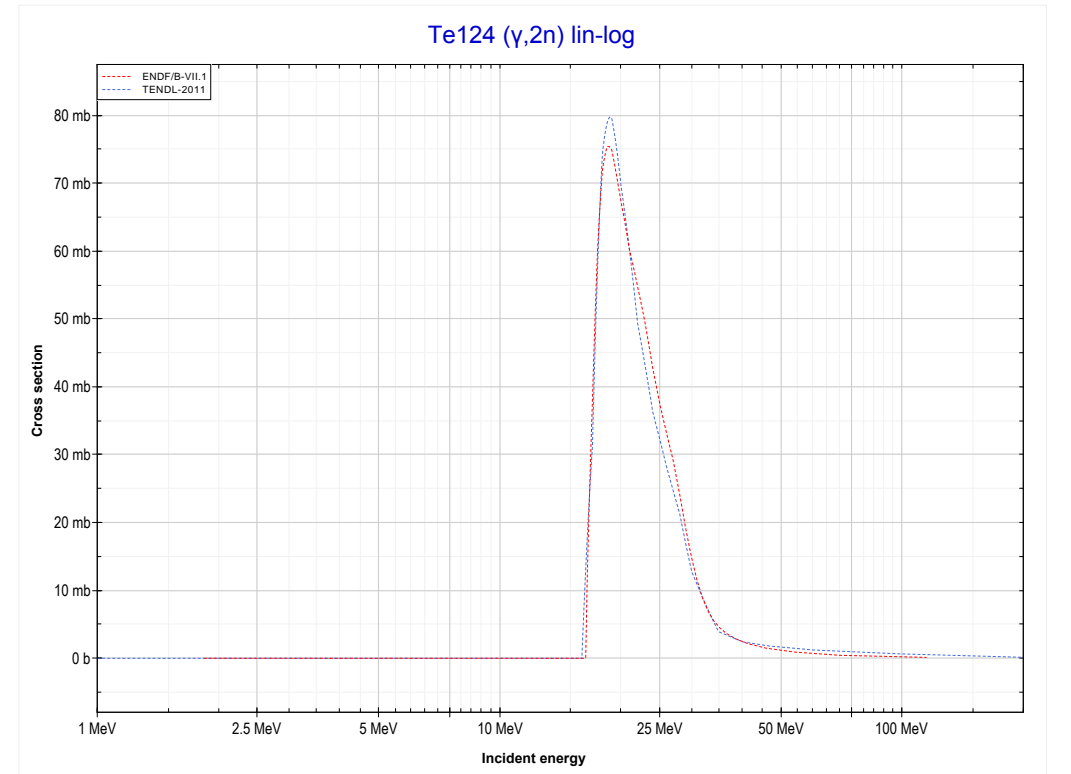
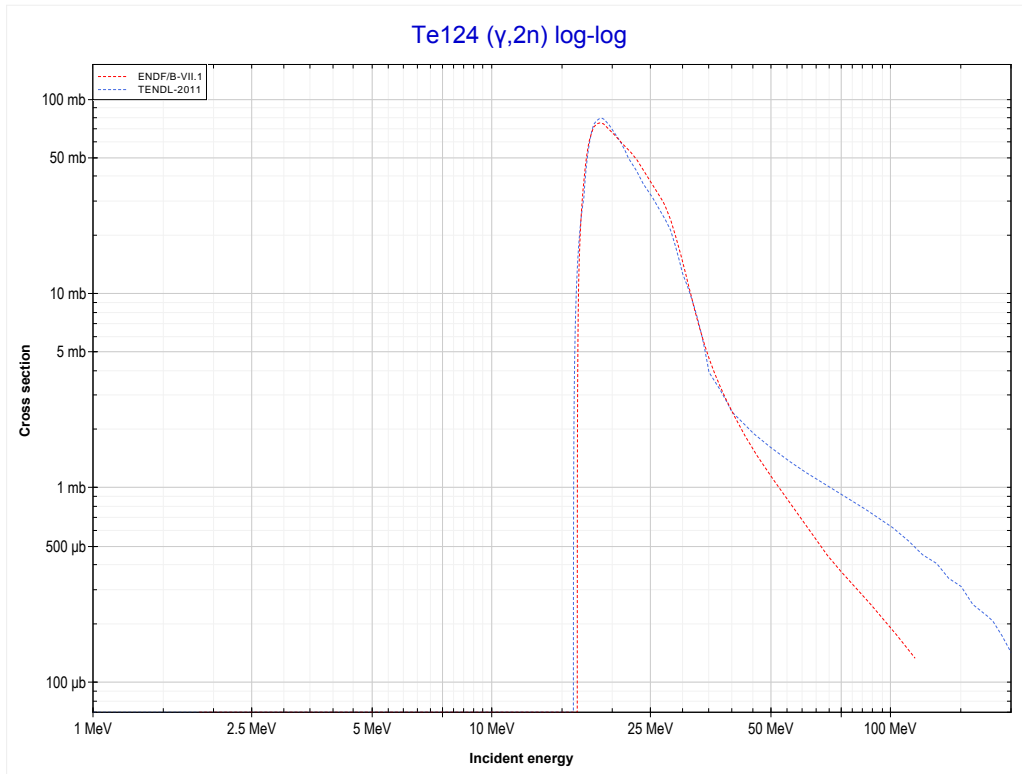
Reaction	Q-Value
Sb123(γ,n)Sb122	-8965.22 keV

<< 51-Sb-123	52-Te-124	52-Te-126 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Te123 production)	MT16 ($\gamma,2n$) >>



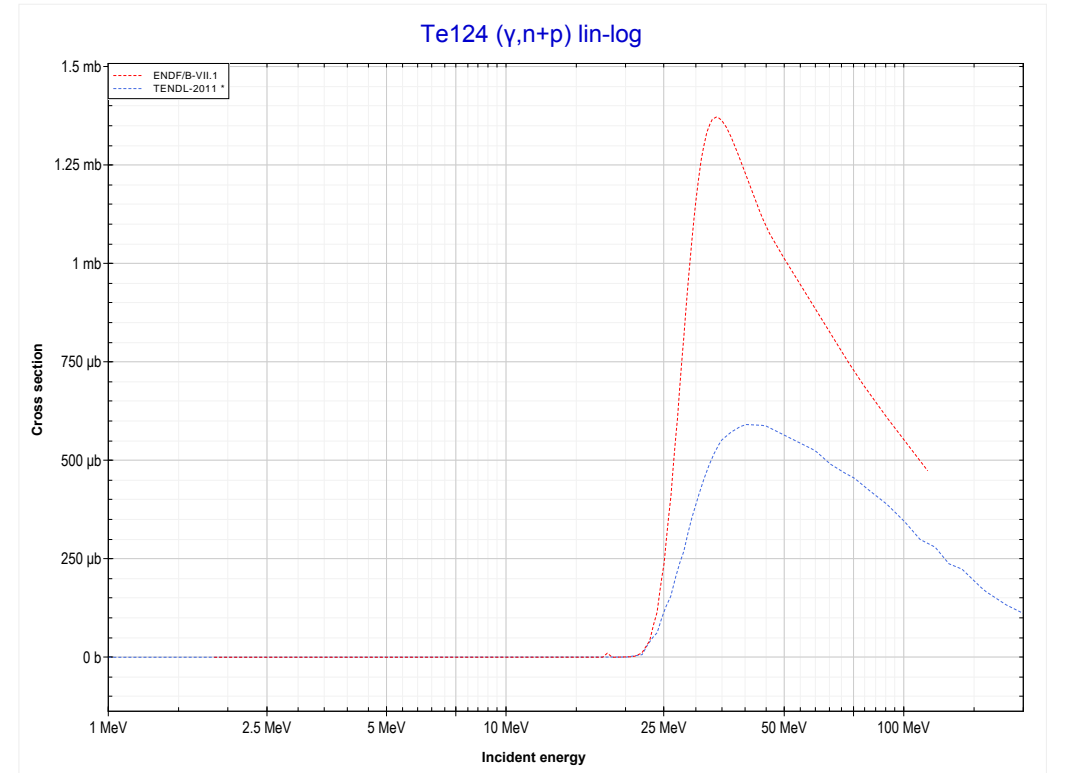
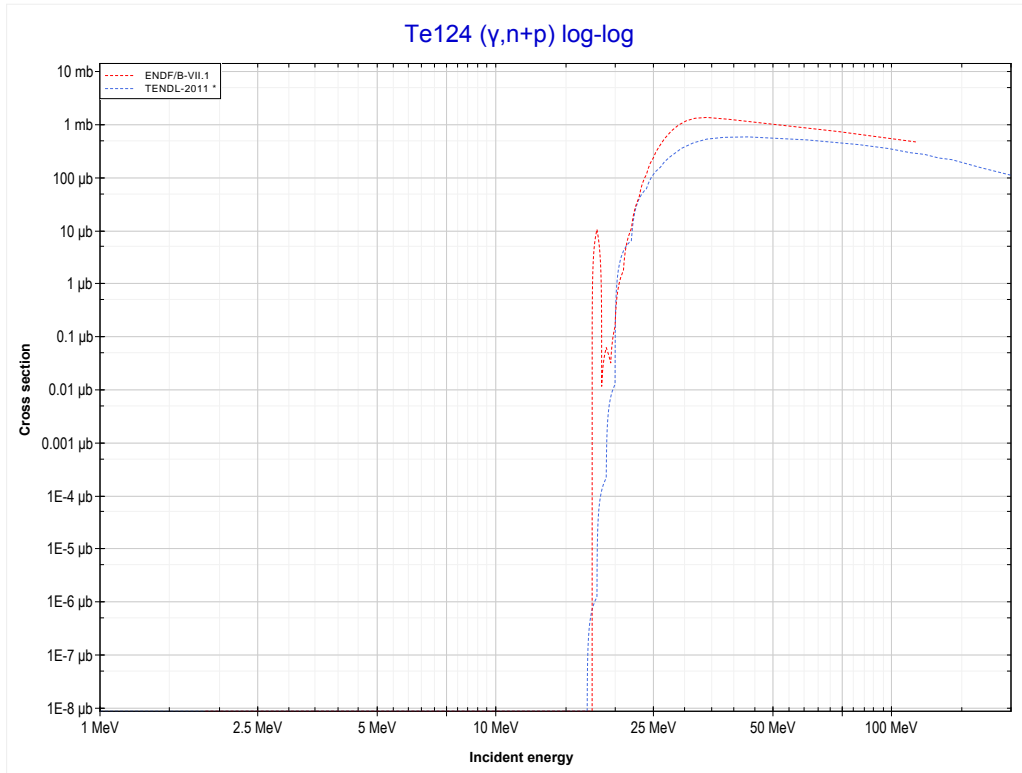
Reaction	Q-Value
Te124(γ,n)Te123	-9423.92 keV

<< 50-Sn-124	52-Te-124	52-Te-126 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Te122 production)	MT28 ($\gamma,n+p$) >>



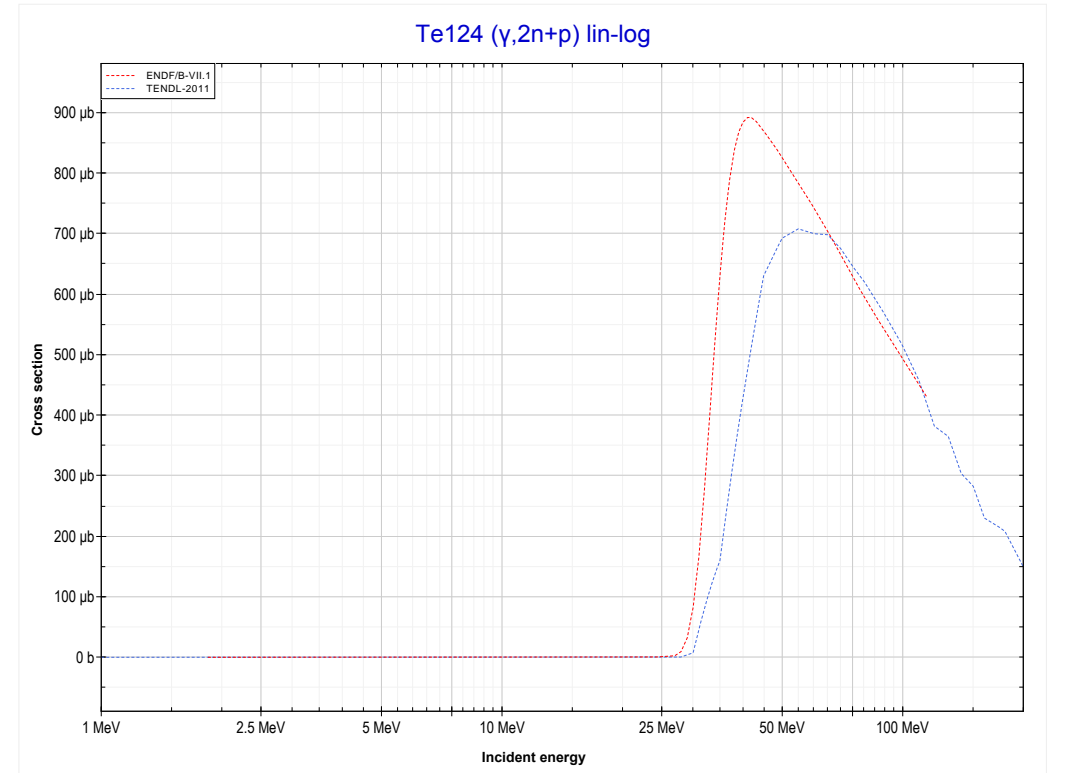
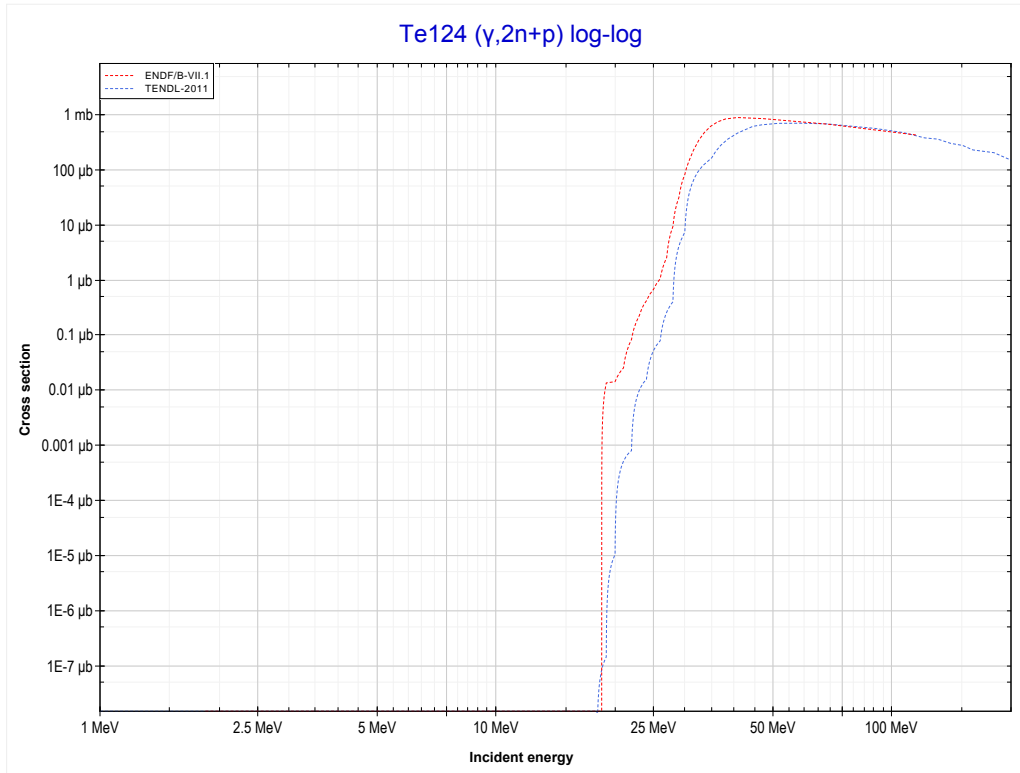
Reaction	Q-Value
Te124($\gamma,2n$)Te122	-16353.13 keV

<< 50-Sn-124	52-Te-124	52-Te-126 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Sb122 production)	MT41 ($\gamma,2n+p$) >>



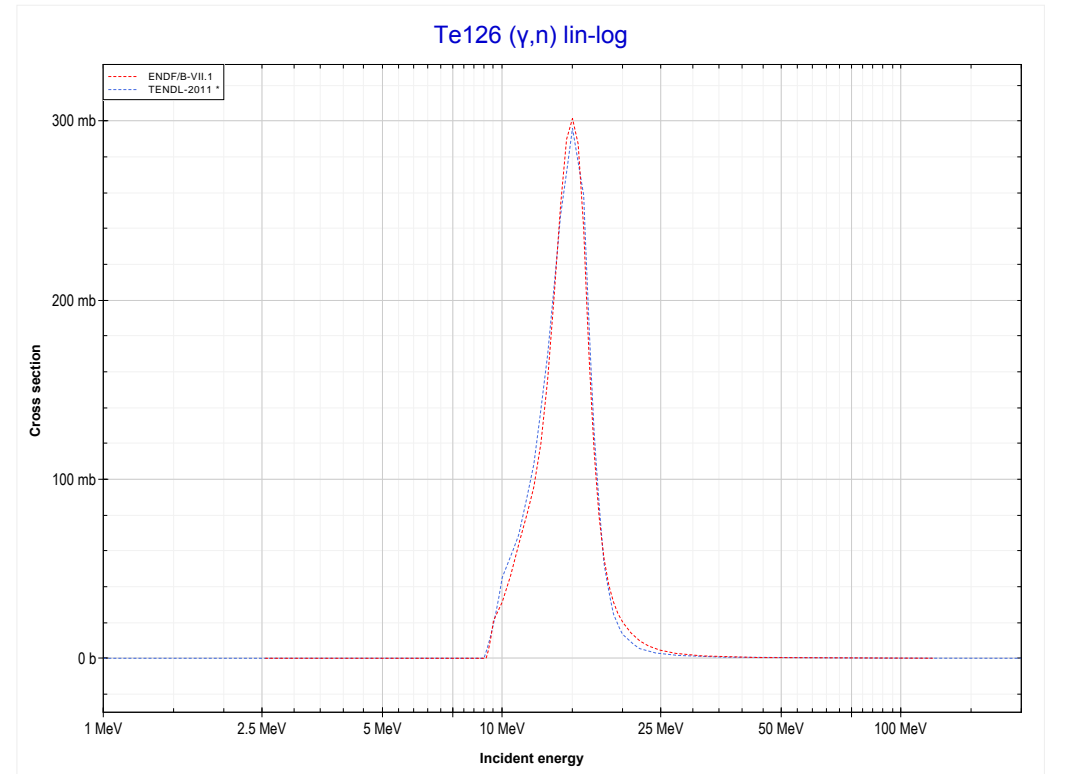
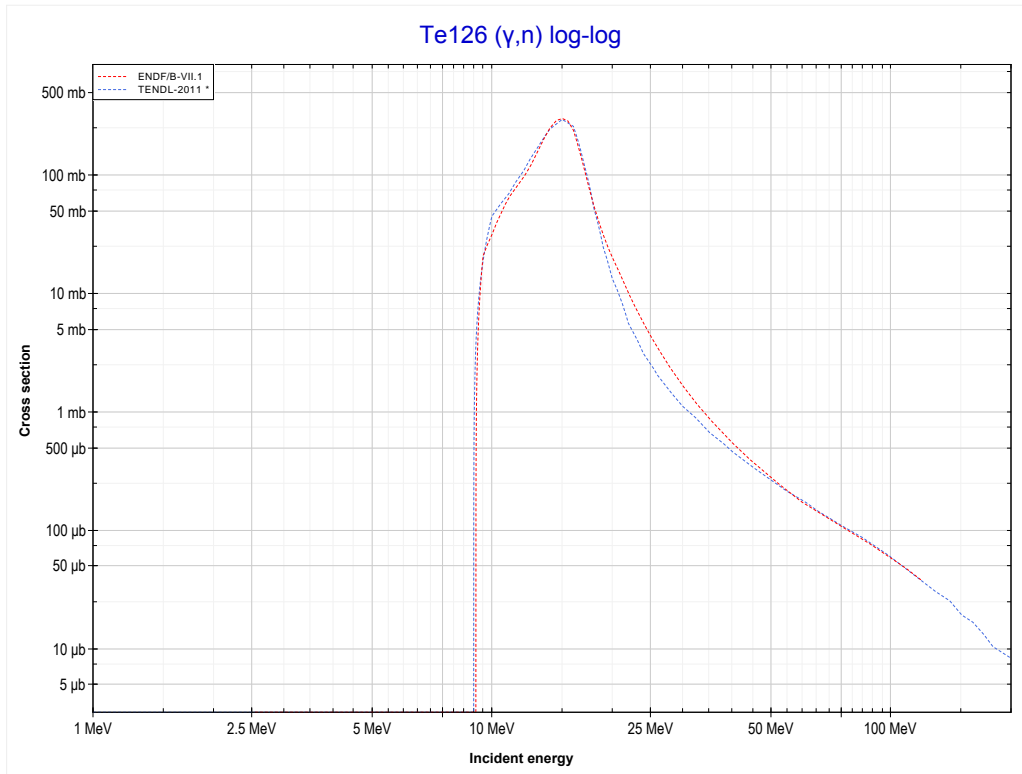
Reaction	Q-Value
Te124(γ,d)Sb122	-15330.02 keV
Te124($\gamma,n+p$)Sb122	-17554.59 keV

<< 50-Sn-124	52-Te-124	52-Te-126 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Sb121 production)	MT4 (γ, n) >>



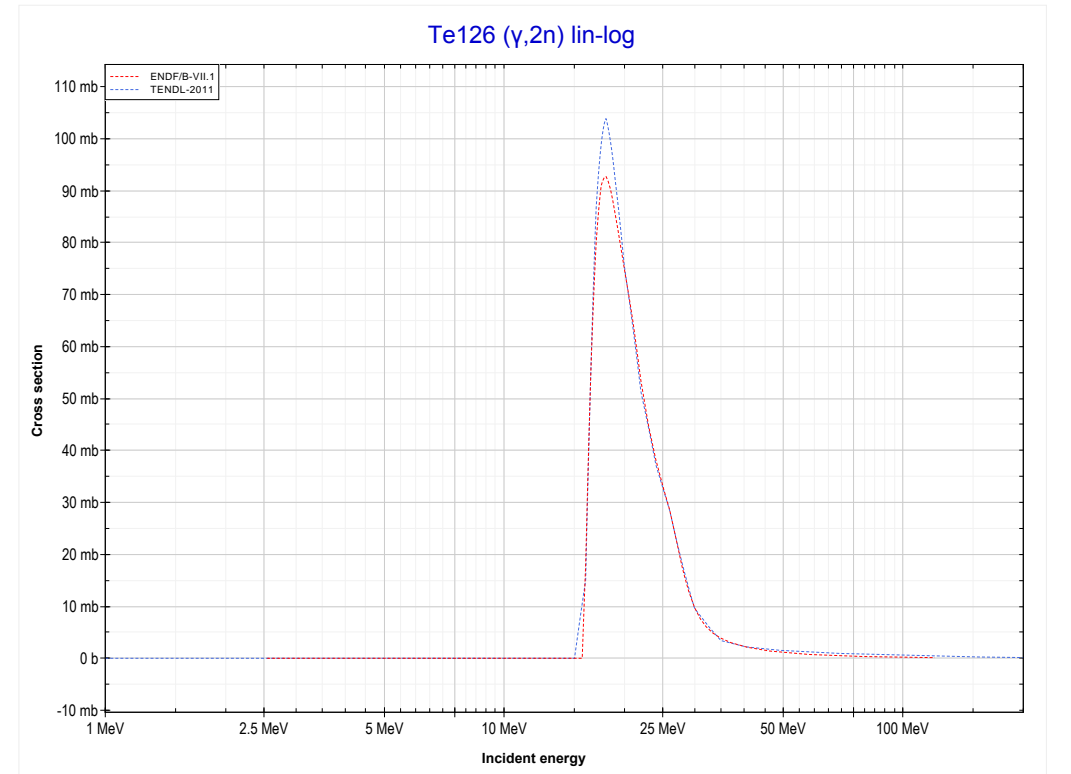
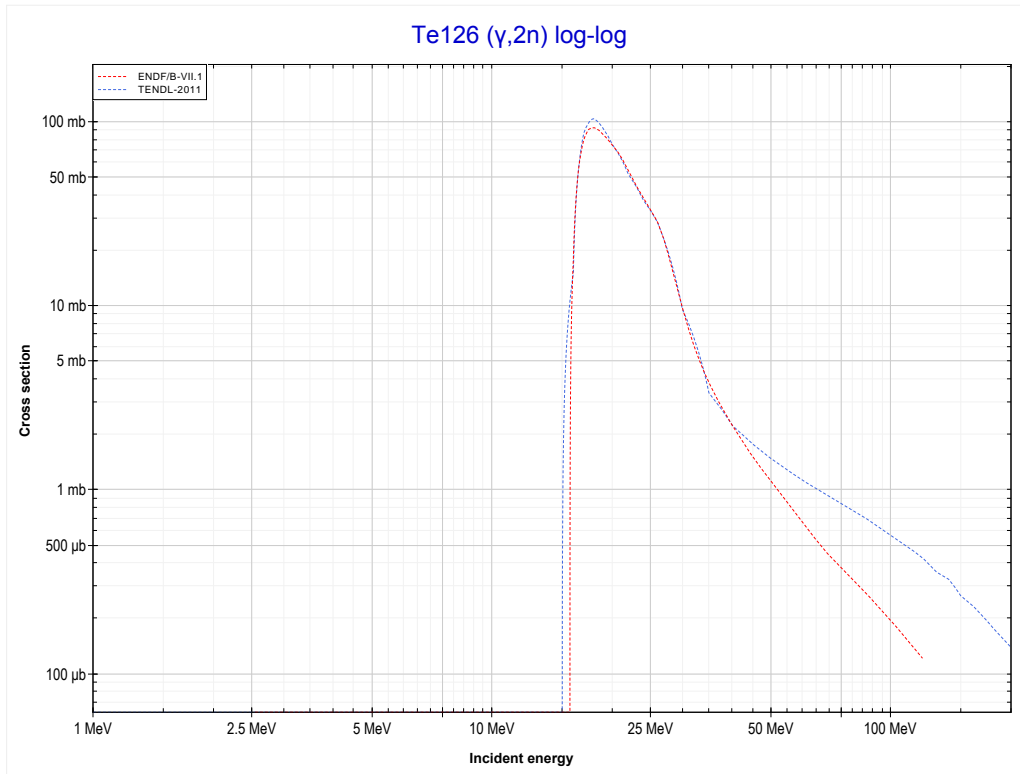
Reaction	Q-Value
Te124(γ, t)Sb121	-15879.21 keV
Te124($\gamma, n+d$)Sb121	-22136.44 keV
Te124($\gamma, 2n+p$)Sb121	-24361.00 keV

<< 52-Te-124	52-Te-126	52-Te-128 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Te125 production)	MT16 ($\gamma,2n$) >>



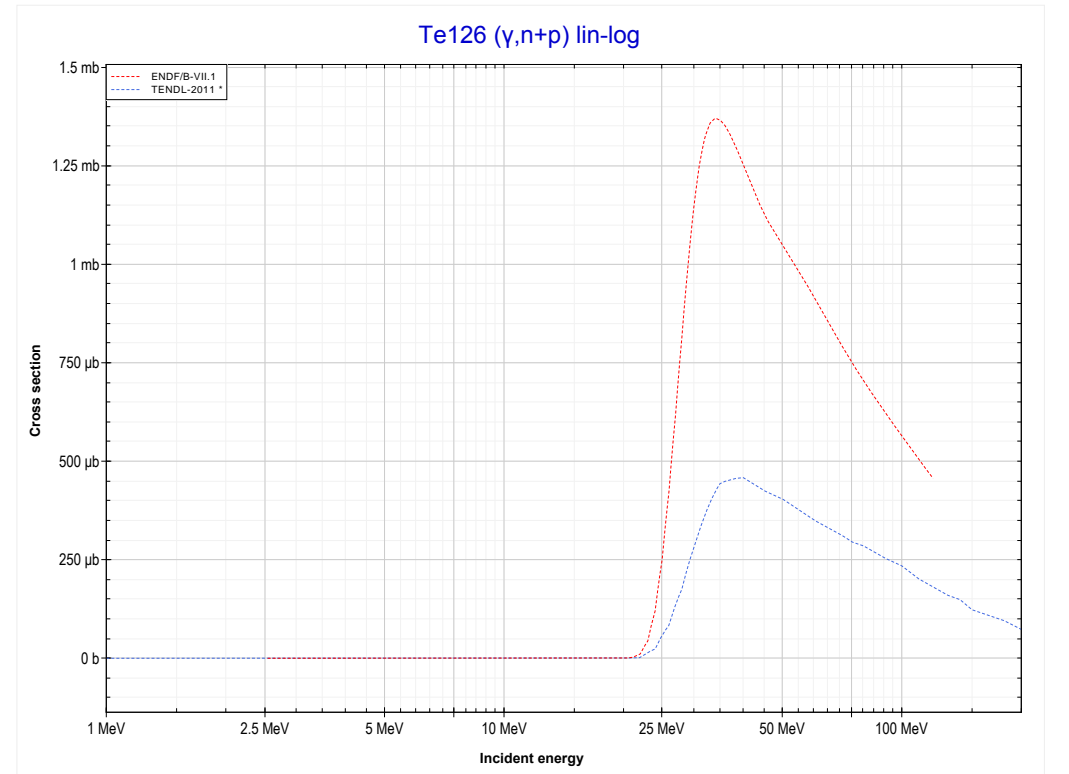
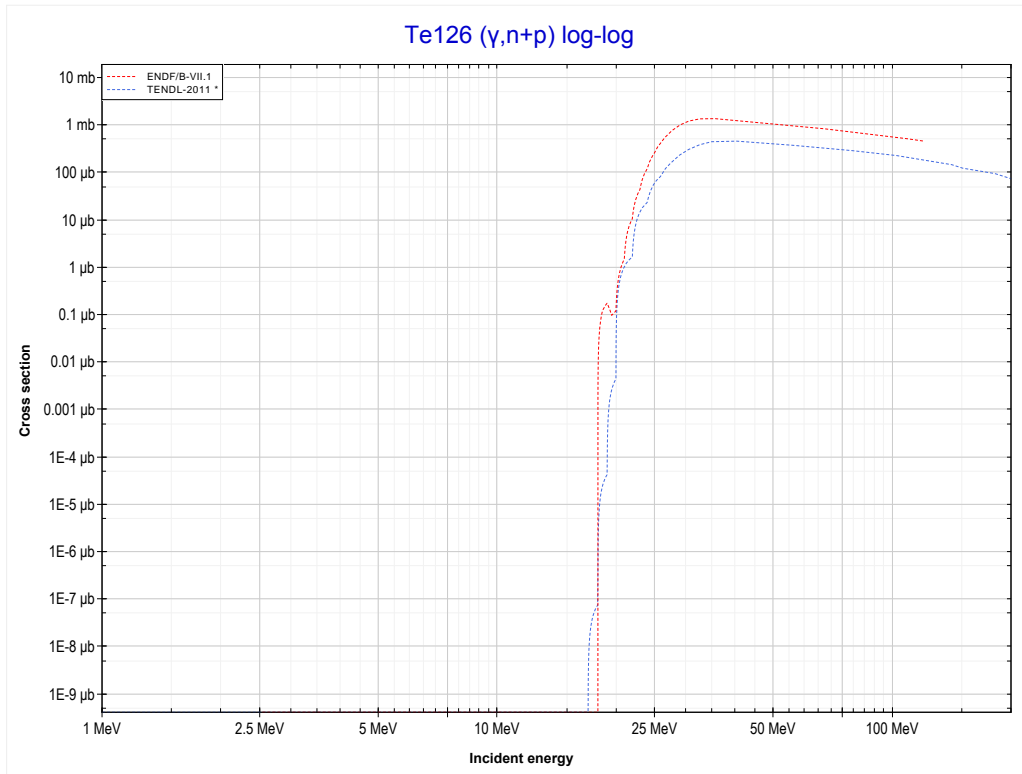
Reaction	Q-Value
Te126(γ,n)Te125	-9113.72 keV

<< 52-Te-124	52-Te-126	52-Te-128 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Te124 production)	MT28 ($\gamma, n+p$) >>



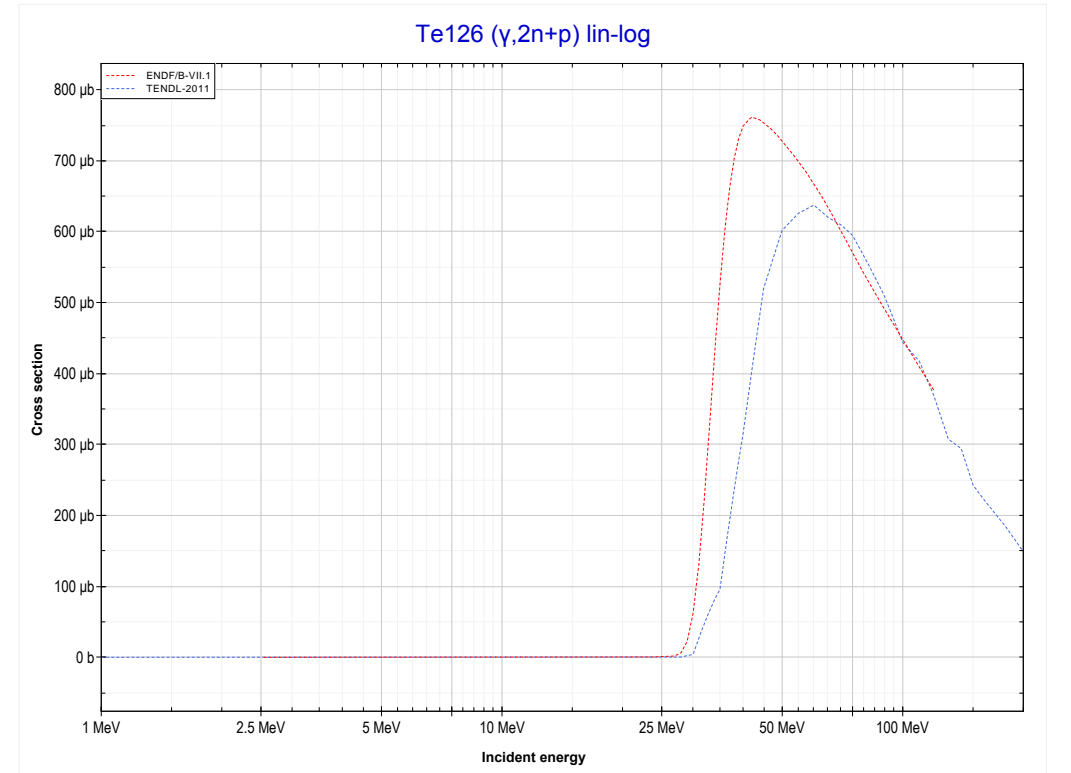
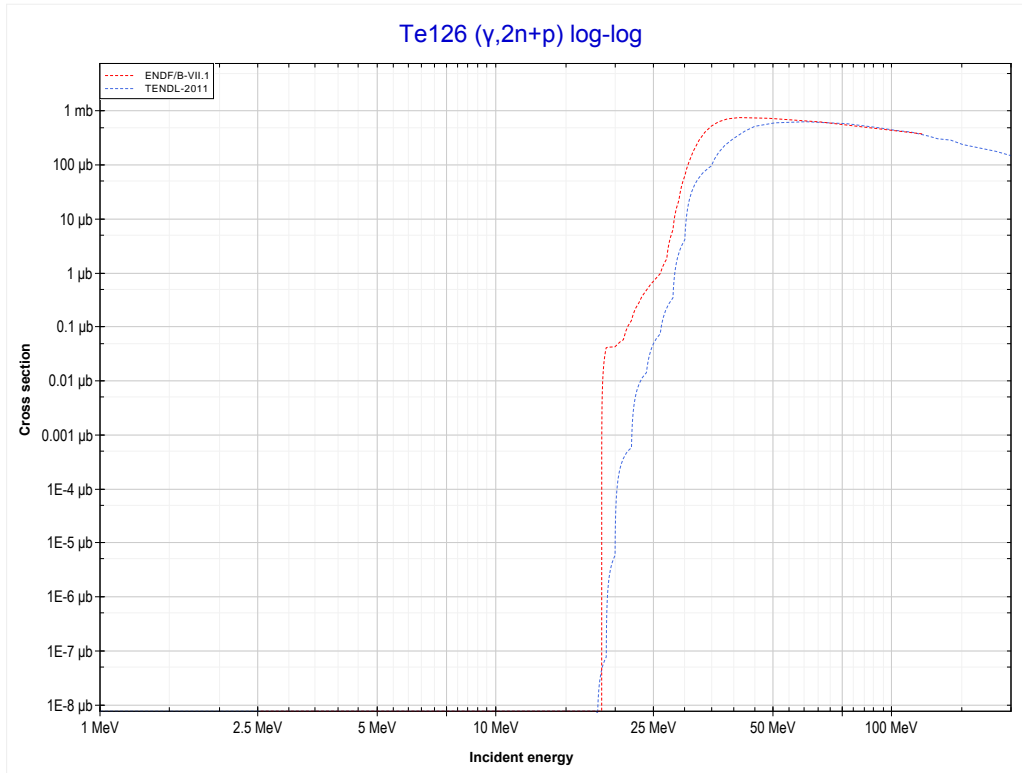
Reaction	Q-Value
Te126($\gamma, 2n$)Te124	-15682.73 keV

<< 52-Te-124	52-Te-126	52-Te-128 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Sb124 production)	MT41 ($\gamma,2n+p$) >>



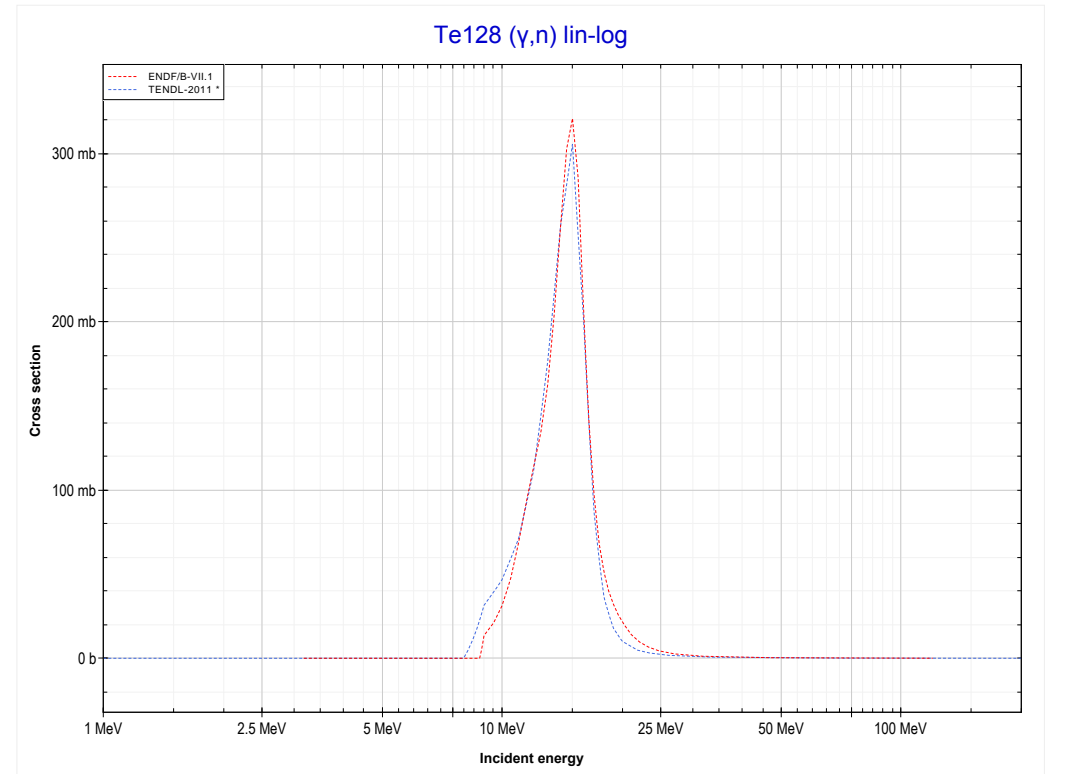
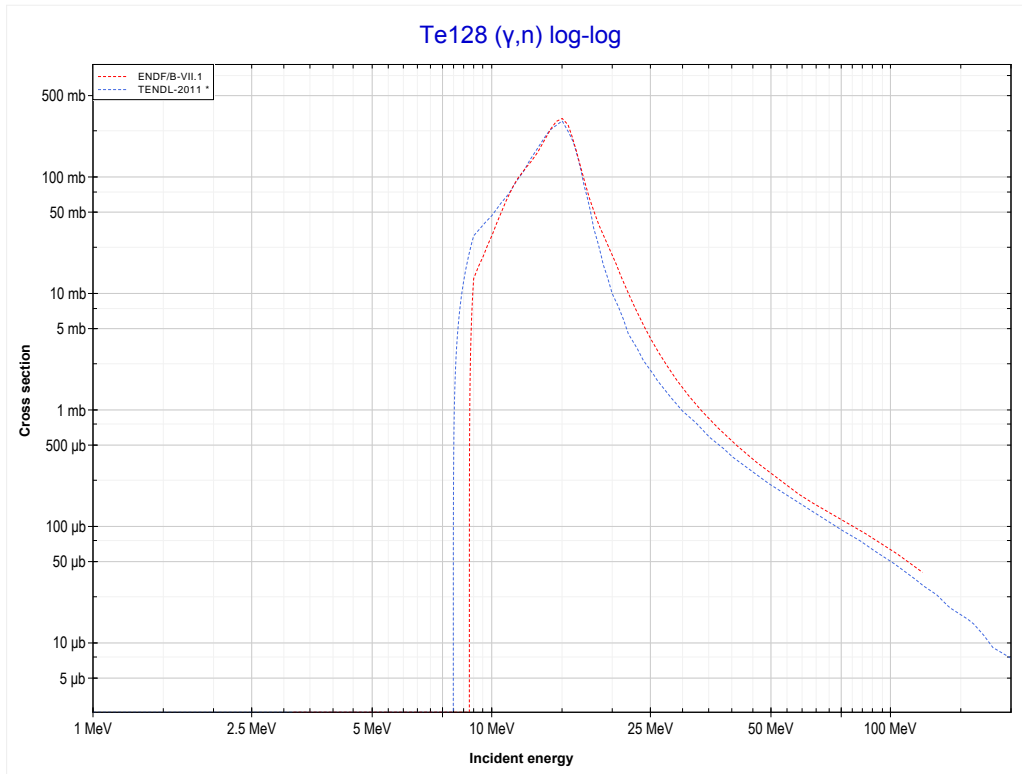
Reaction	Q-Value
Te126(γ,d)Sb124	-15580.02 keV
Te126($\gamma,n+p$)Sb124	-17804.59 keV

<< 52-Te-124	52-Te-126	52-Te-128 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Sb123 production)	MT4 (γ, n) >>



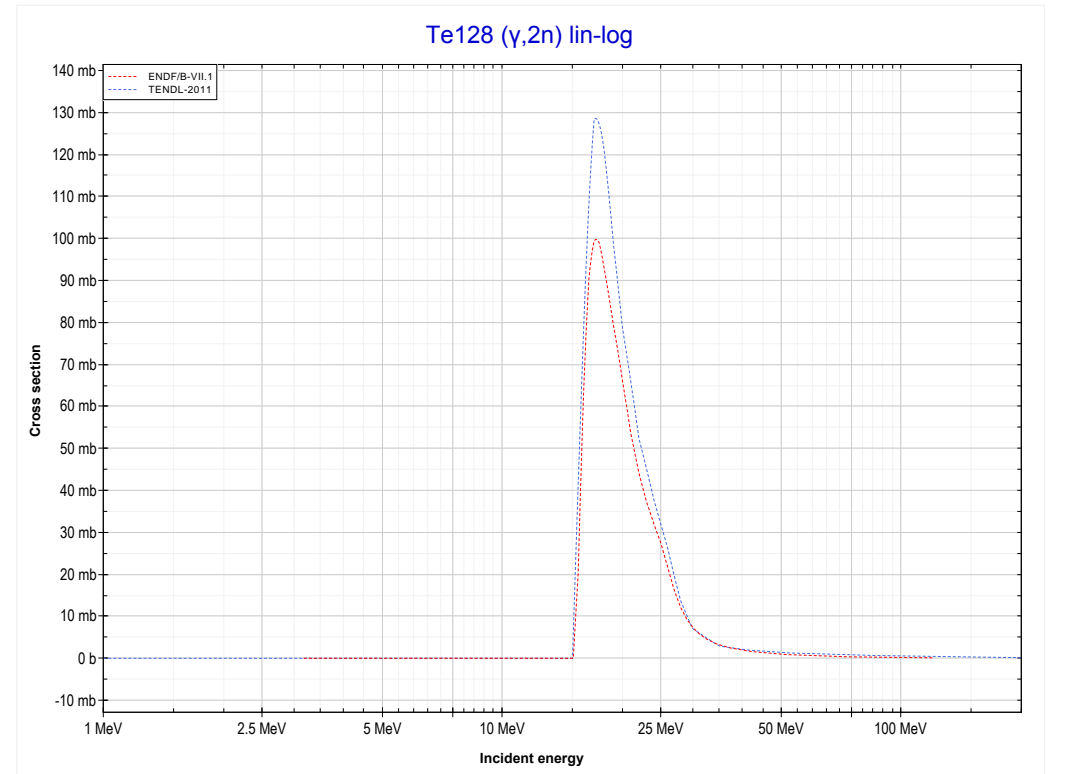
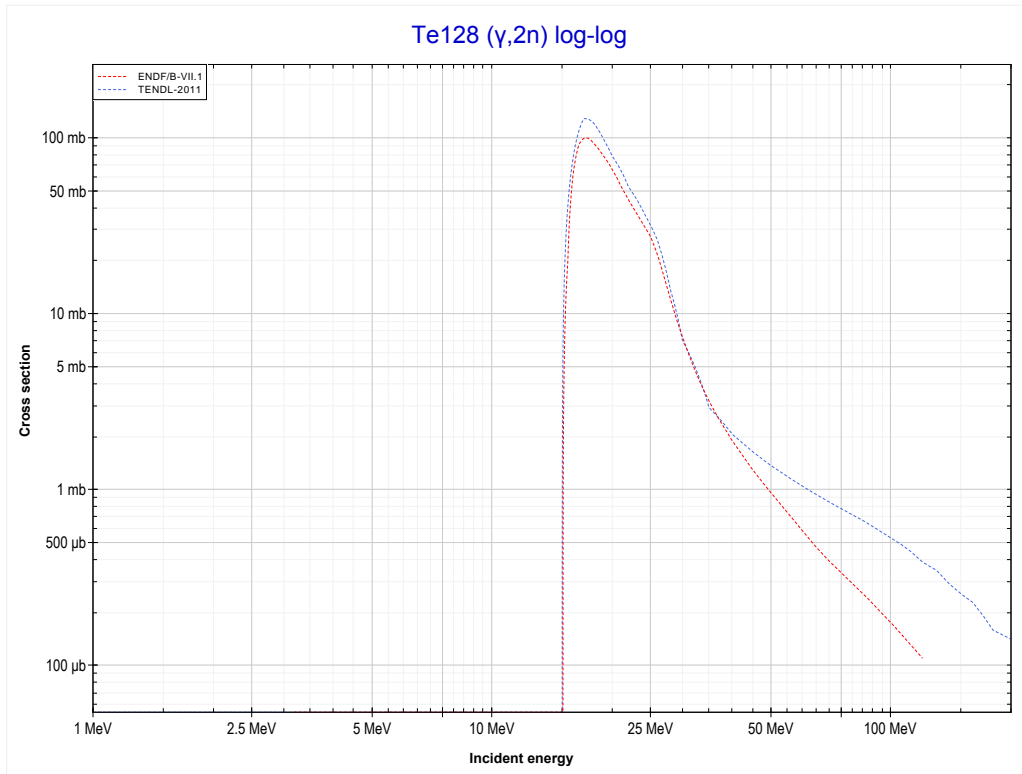
Reaction	Q-Value
Te126(γ, t)Sb123	-15790.31 keV
Te126($\gamma, n+d$)Sb123	-22047.54 keV
Te126($\gamma, 2n+p$)Sb123	-24272.10 keV

<< 52-Te-126	52-Te-128	52-Te-130 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Te127 production)	MT16 ($\gamma,2n$) >>



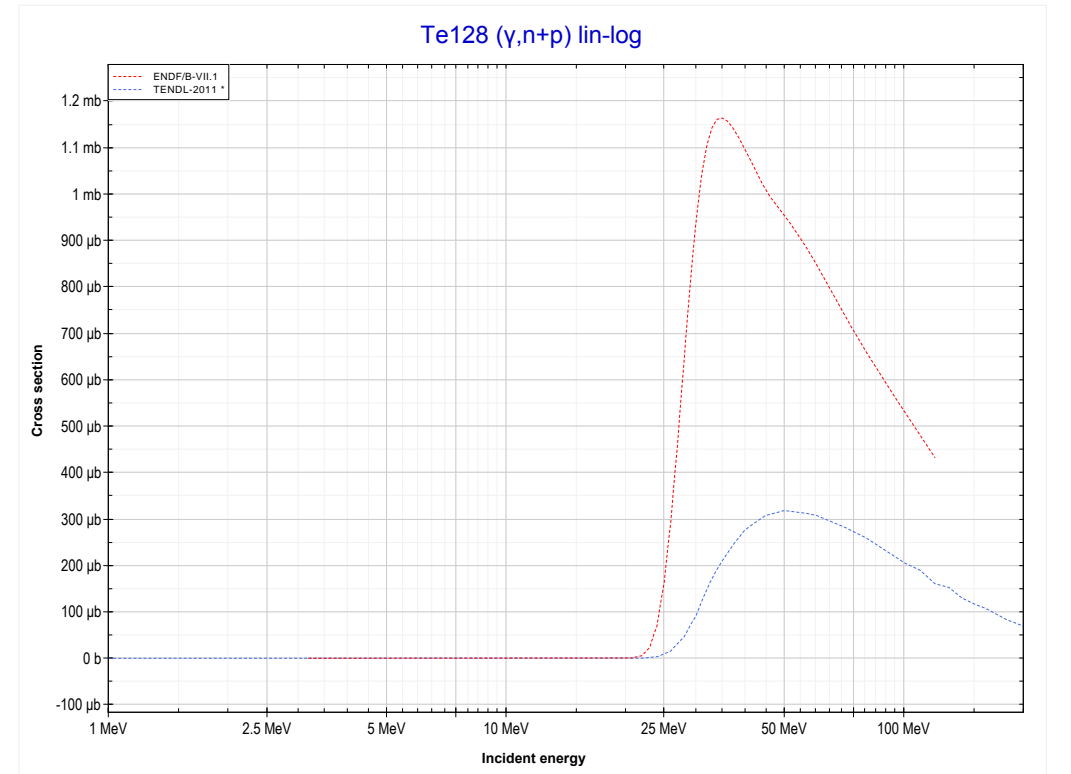
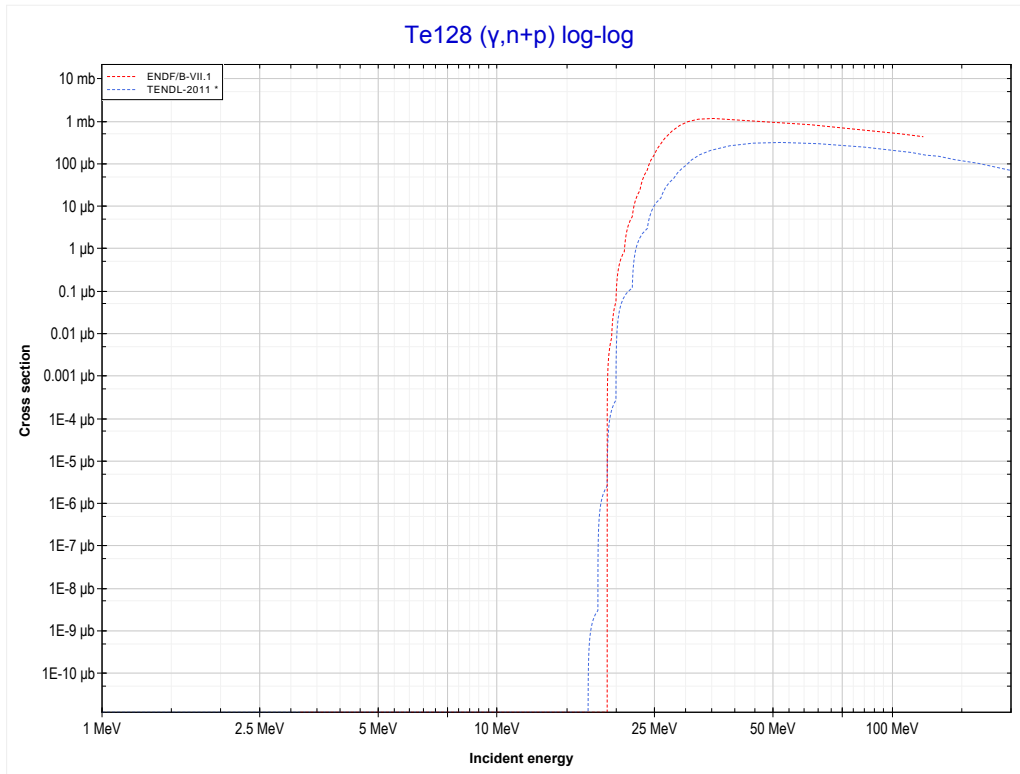
Reaction	Q-Value
Te128(γ,n)Te127	-8782.32 keV

<< 52-Te-126	52-Te-128	52-Te-130 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Te126 production)	MT28 ($\gamma,n+p$) >>



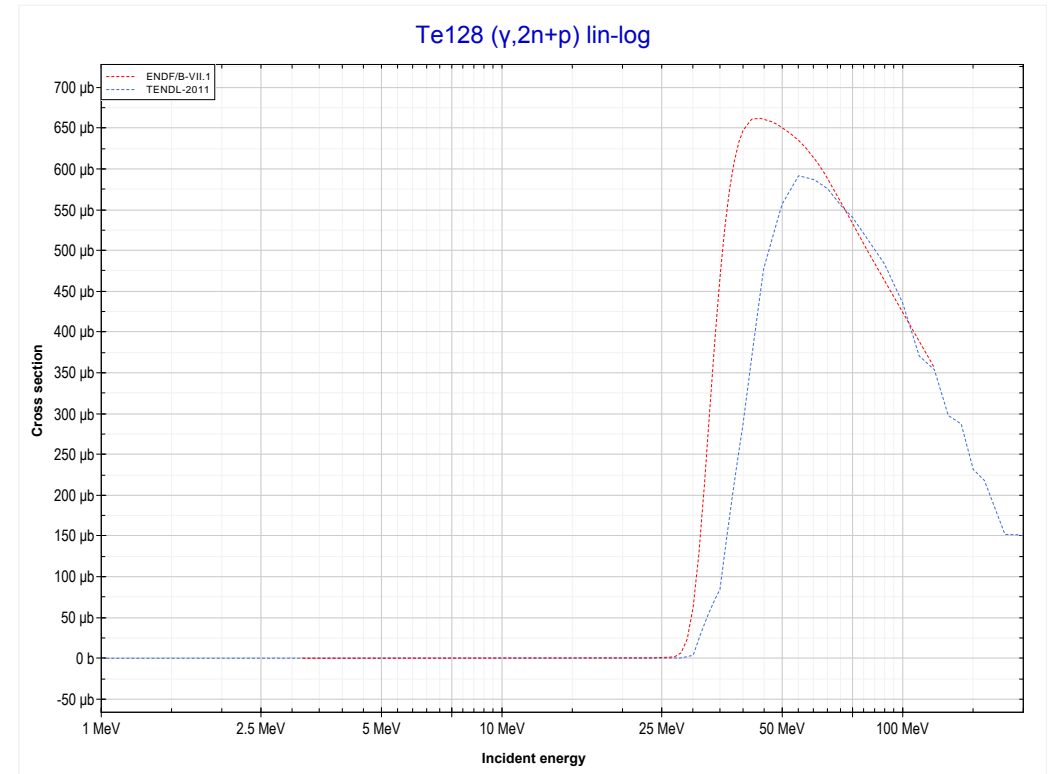
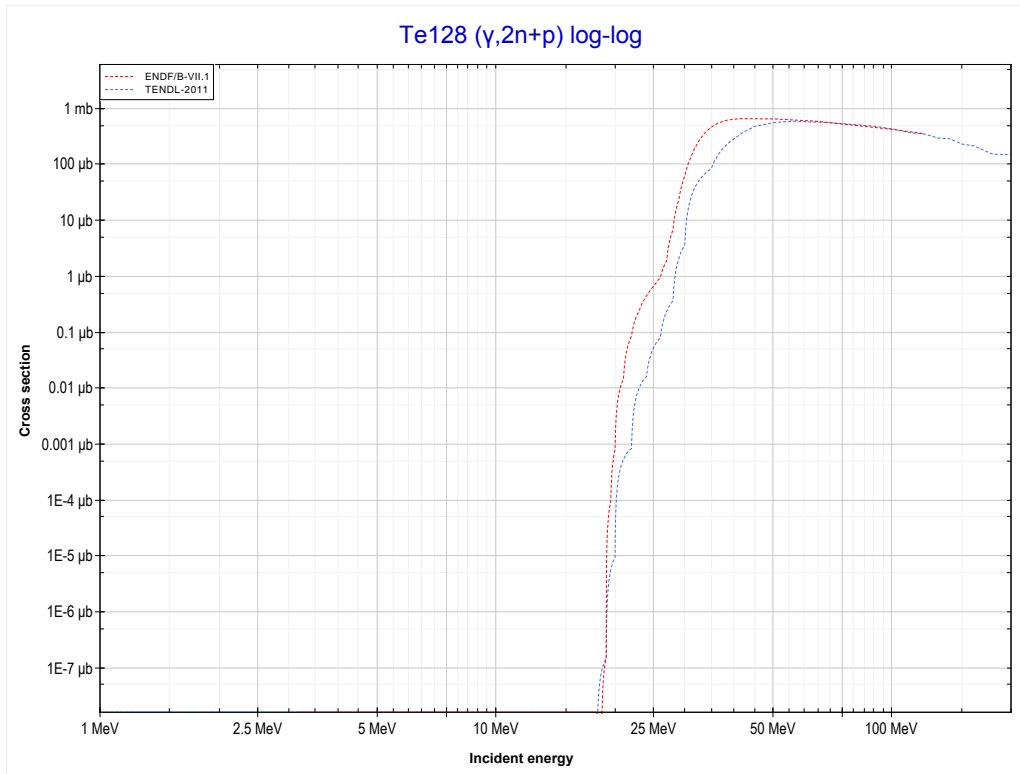
Reaction	Q-Value
Te128($\gamma,2n$)Te126	-15070.13 keV

<< 52-Te-126	52-Te-128	52-Te-130 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Sb126 production)	MT41 ($\gamma,2n+p$) >>



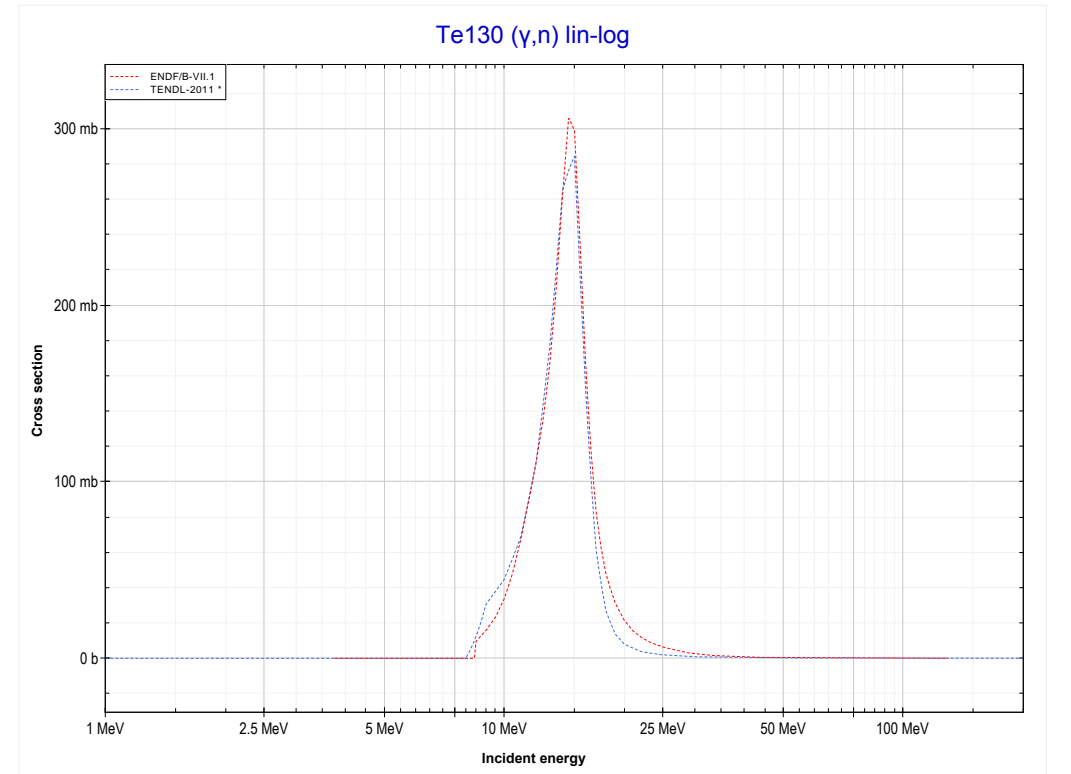
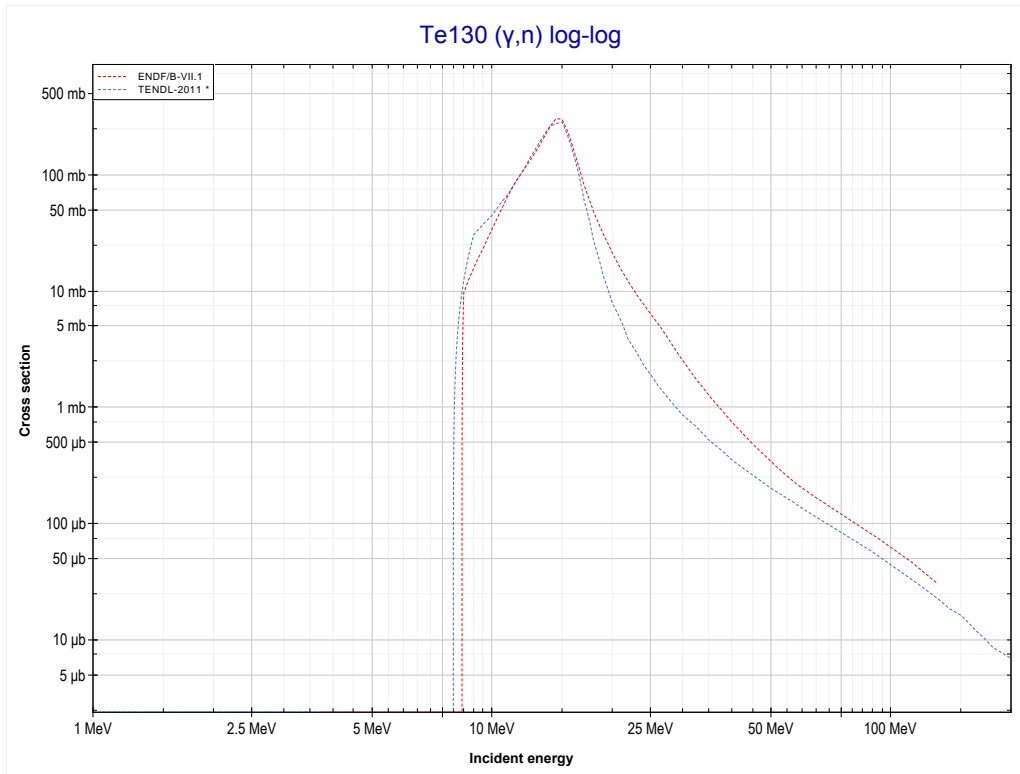
Reaction	Q-Value
Te128(γ,d)Sb126	-15727.82 keV
Te128($\gamma,n+p$)Sb126	-17952.39 keV

<< 52-Te-126	52-Te-128	52-Te-130 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Sb125 production)	MT4 (γ, n) >>



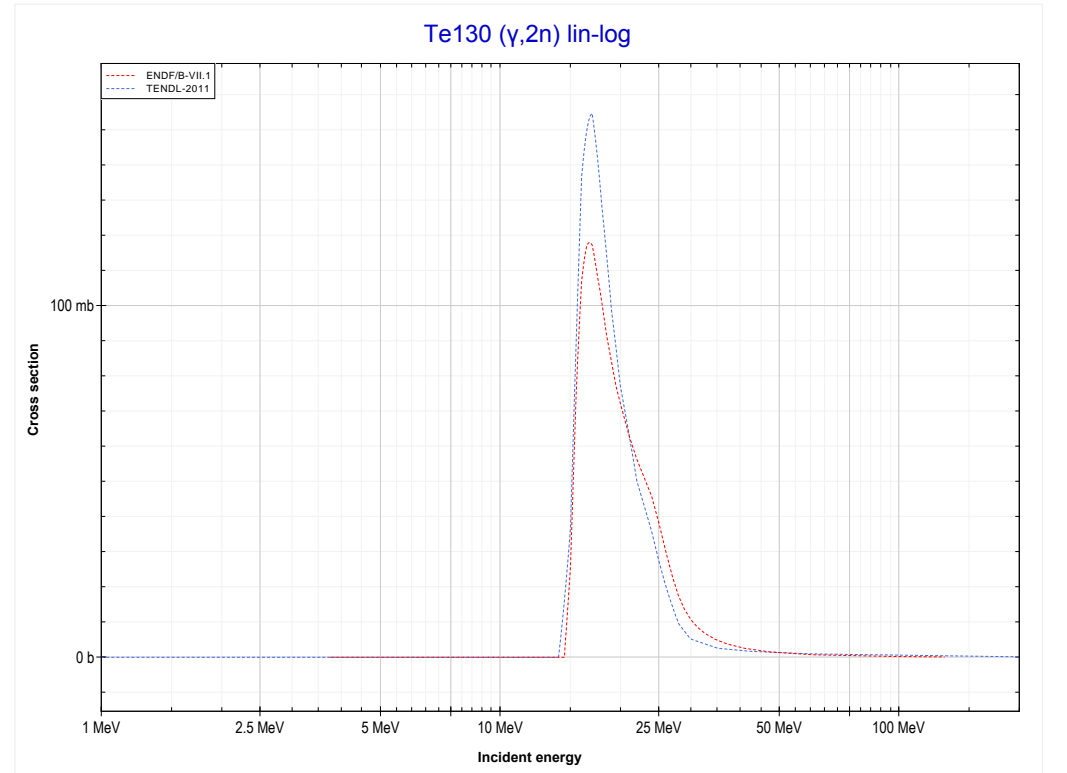
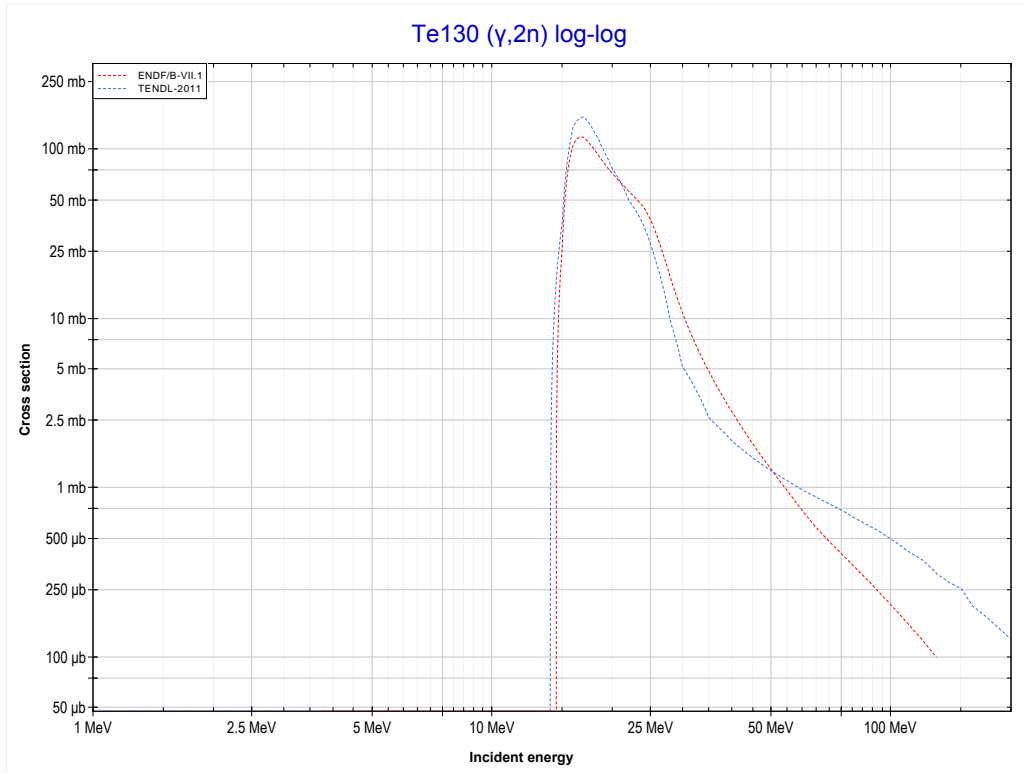
Reaction	Q-Value
Te128(γ, t)Sb125	-15686.41 keV
Te128($\gamma, n+d$)Sb125	-21943.64 keV
Te128($\gamma, 2n+p$)Sb125	-24168.20 keV

<< 52-Te-128	52-Te-130	53-I-127 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Te129 production)	MT16 ($\gamma,2n$) >>



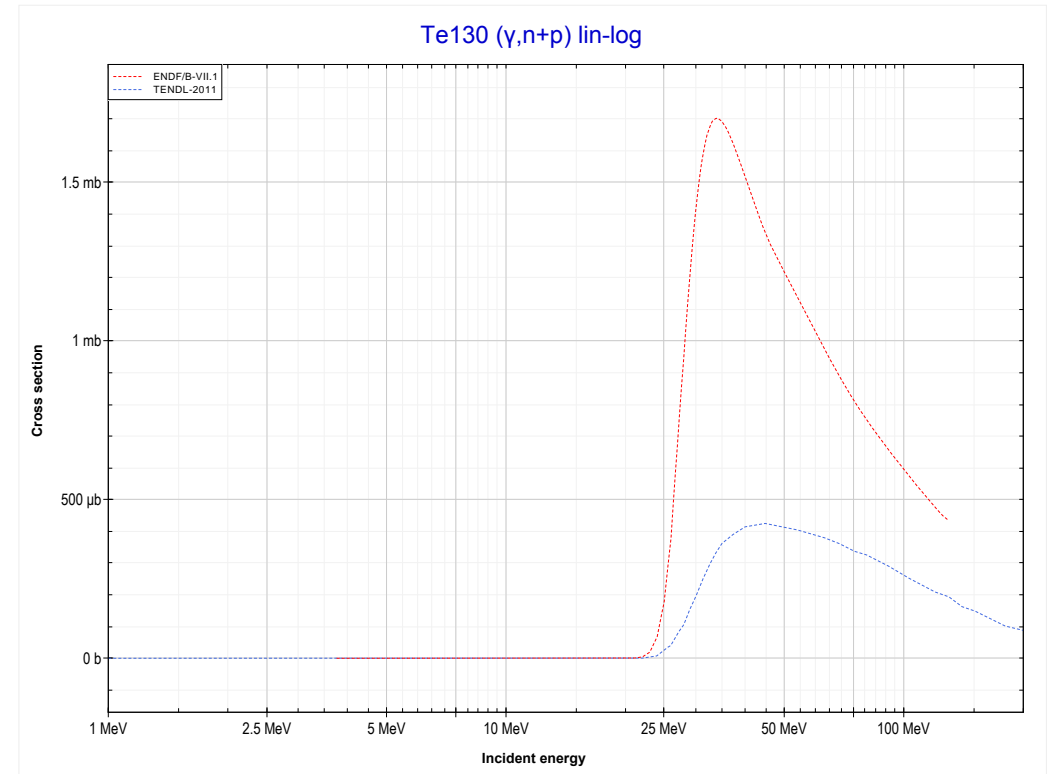
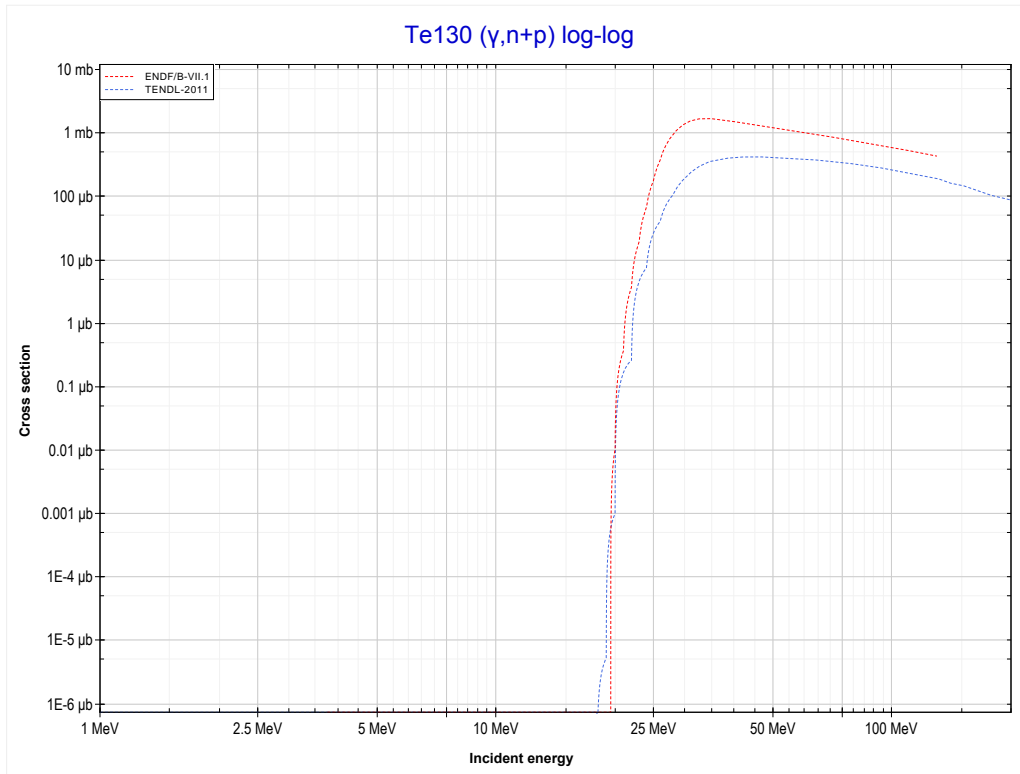
Reaction	Q-Value
Te130(γ,n)Te129	-8419.52 keV

<< 52-Te-128	52-Te-130	53-I-127 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Te128 production)	MT28 ($\gamma,n+p$) >>



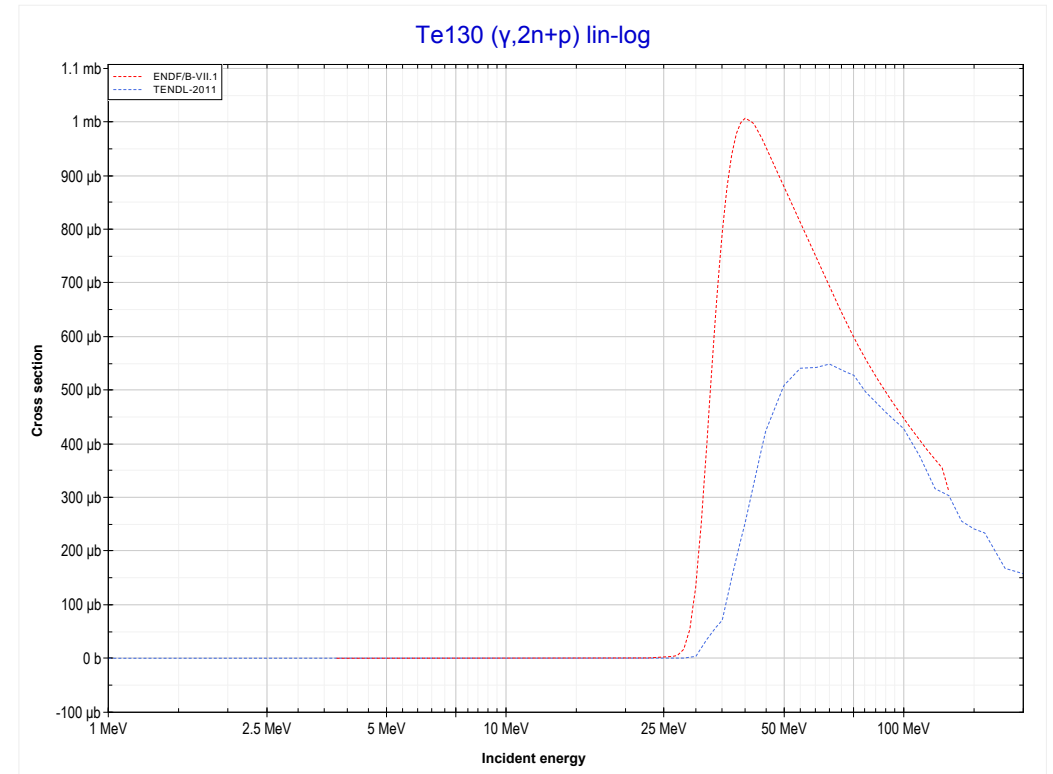
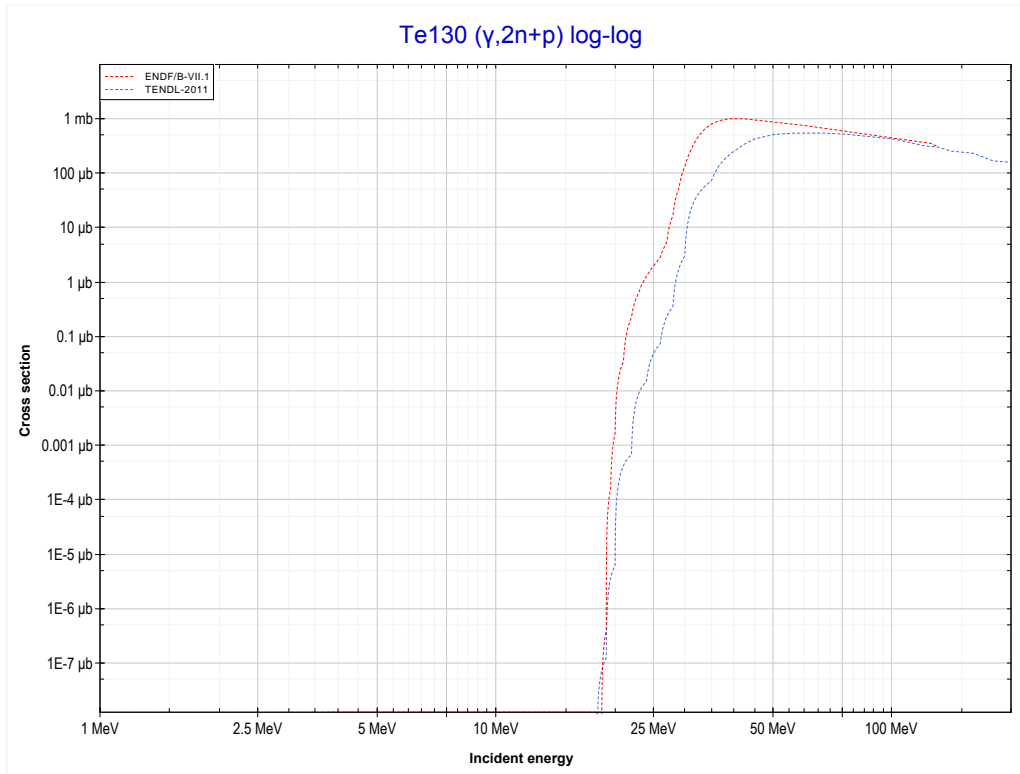
Reaction	Q-Value
Te130($\gamma,2n$)Te128	-14501.93 keV

<< 52-Te-128	52-Te-130	53-I-127 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Sb128 production)	MT41 ($\gamma,2n+p$) >>



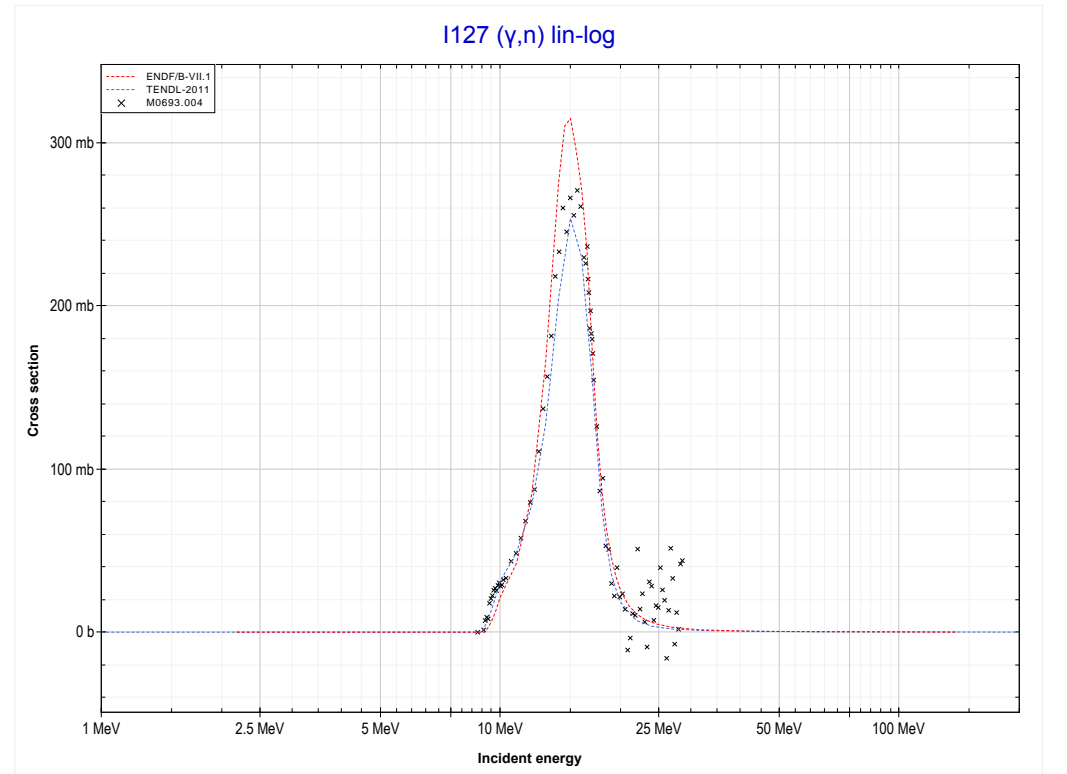
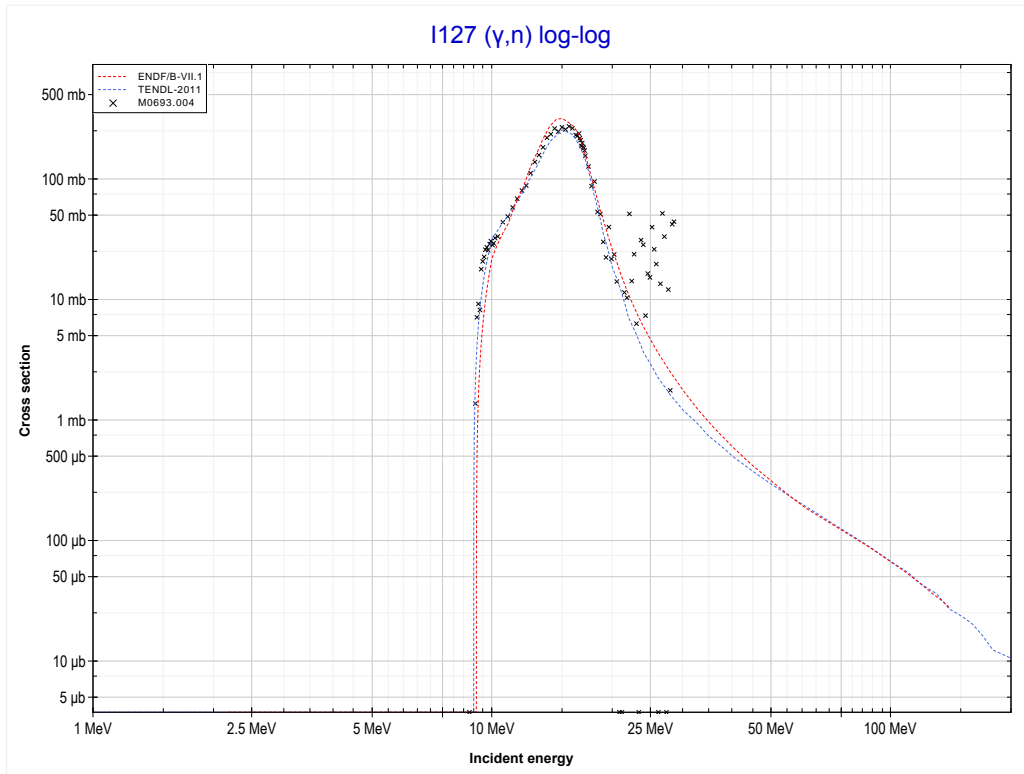
Reaction	Q-Value
Te130(γ,d)Sb128	-15878.12 keV
Te130($\gamma,n+p$)Sb128	-18102.69 keV

<< 52-Te-128	52-Te-130	53-I-127 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Sb127 production)	MT4 (γ, n) >>



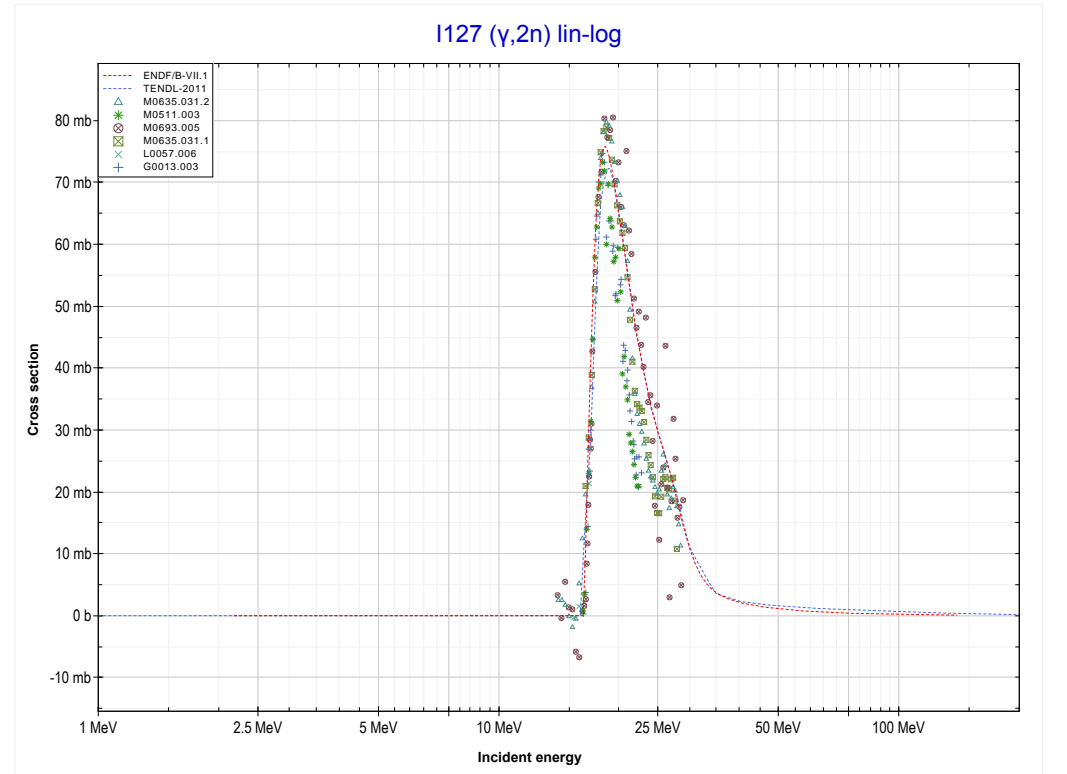
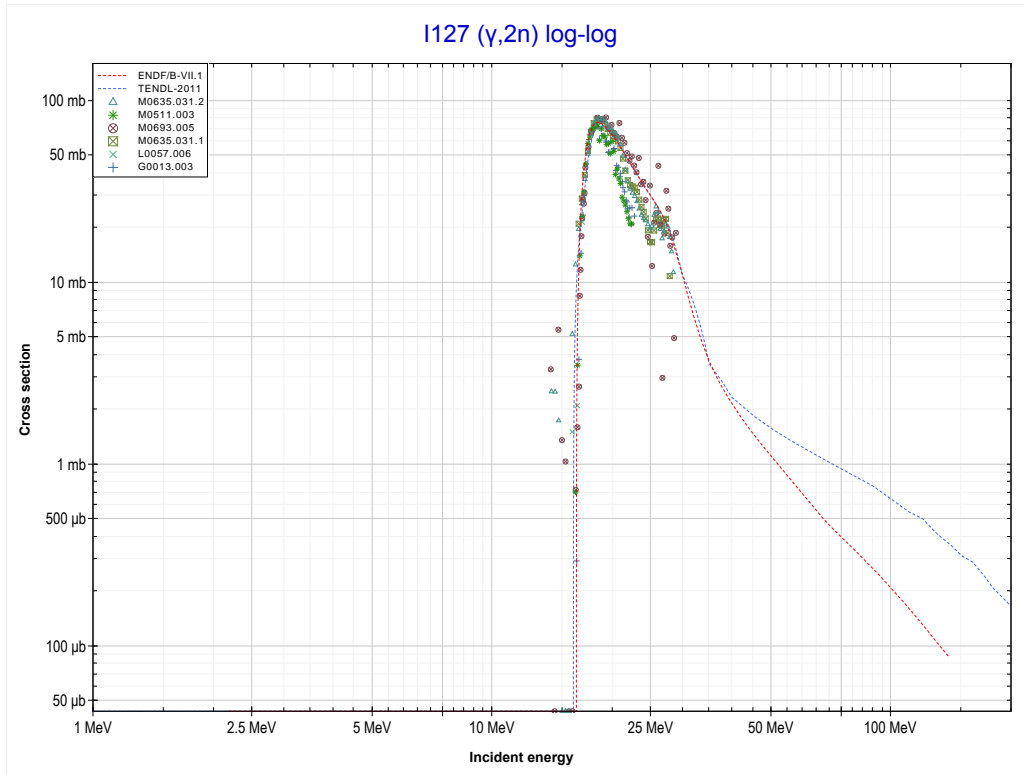
Reaction	Q-Value
Te130(γ, t)Sb127	-15601.21 keV
Te130($\gamma, n+d$)Sb127	-21858.44 keV
Te130($\gamma, 2n+p$)Sb127	-24083.00 keV

<< 52-Te-130	53-I-127	53-I-129 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (I126 production)	MT16 ($\gamma,2n$) >>



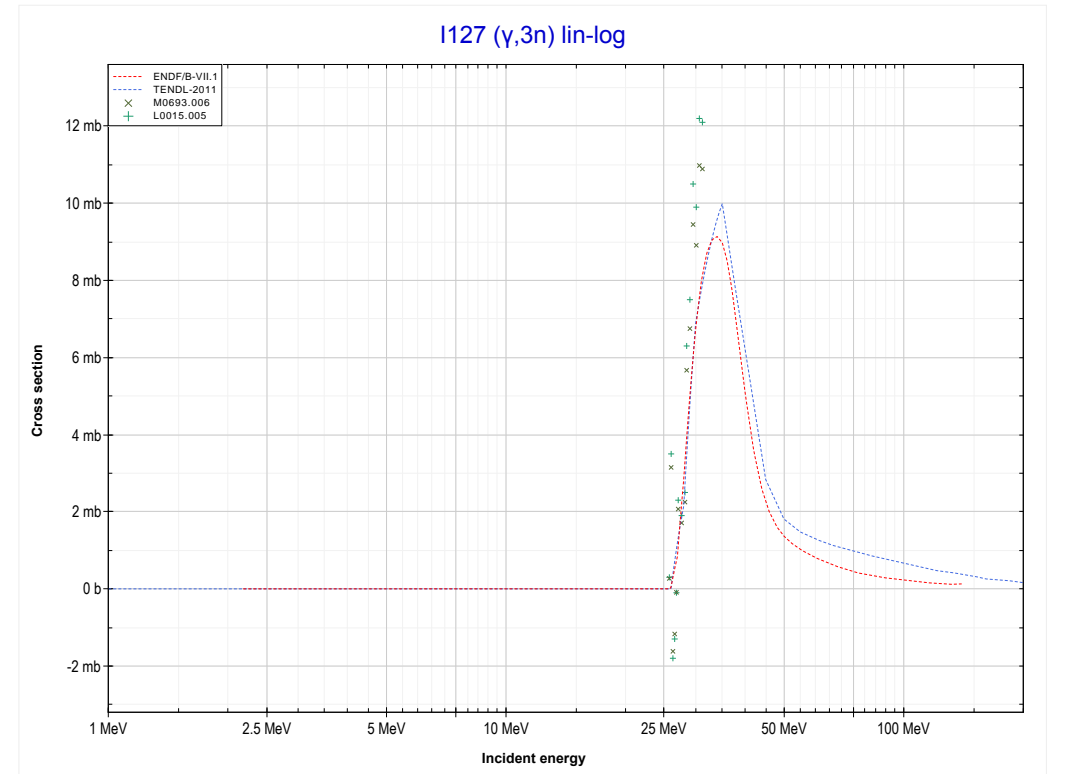
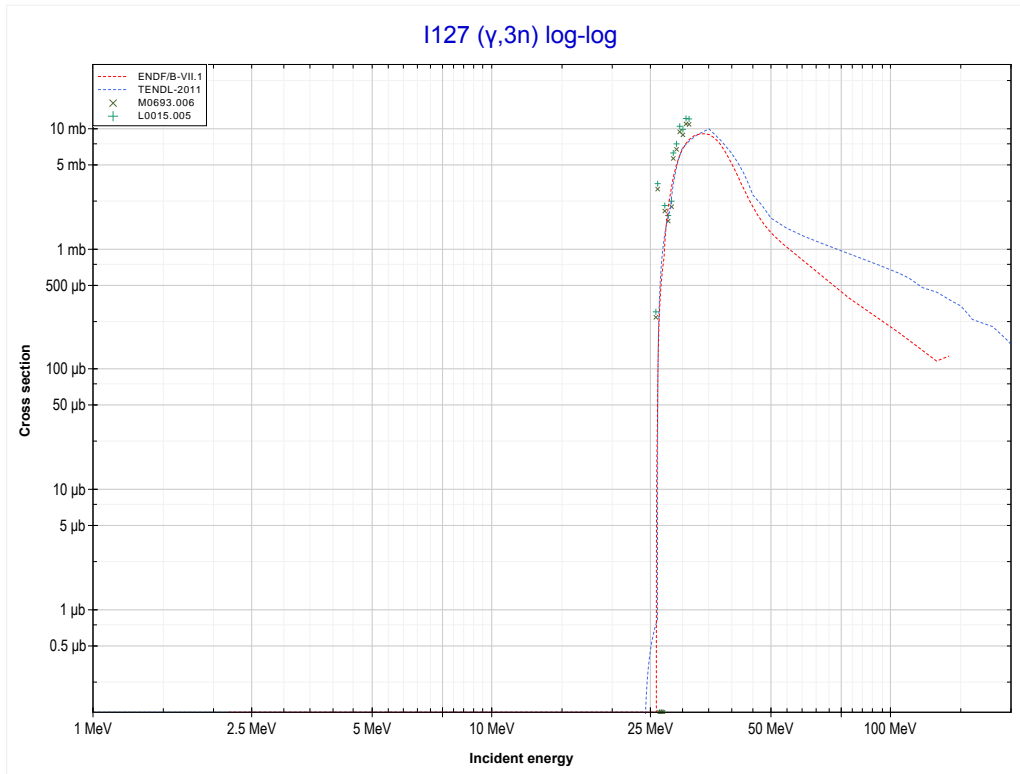
Reaction	Q-Value
I127(γ,n)I126	-9143.32 keV

<< 52-Te-130	53-I-127	55-Cs-133 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (I125 production)	MT17 ($\gamma,3n$) >>



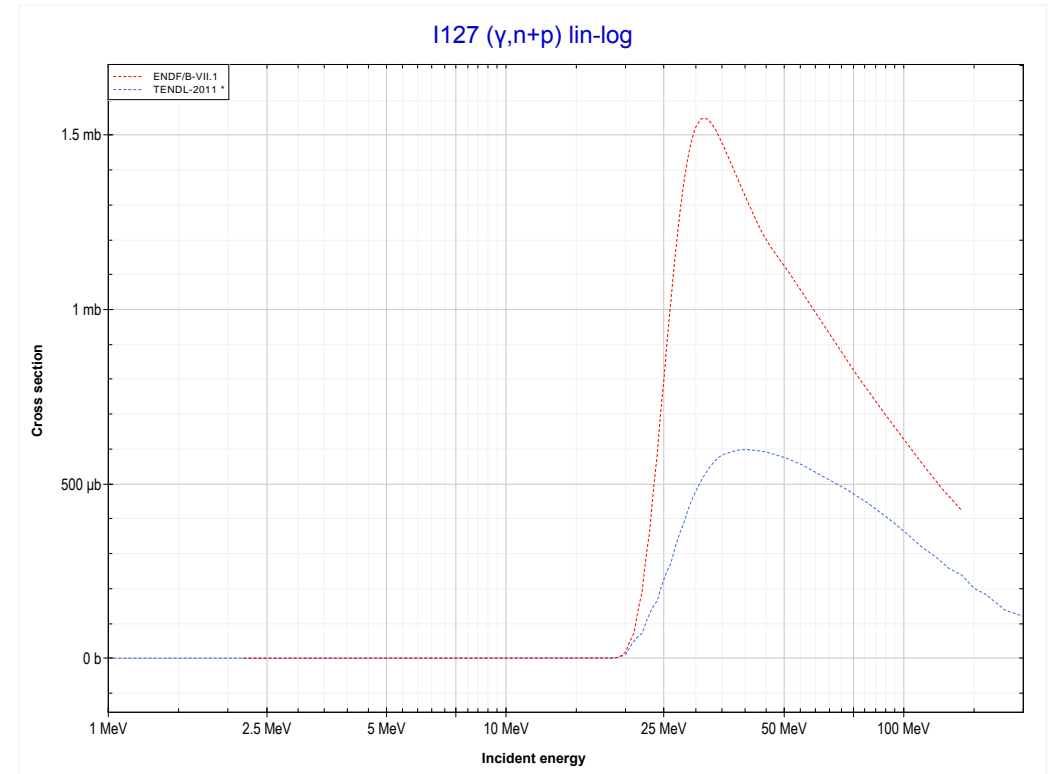
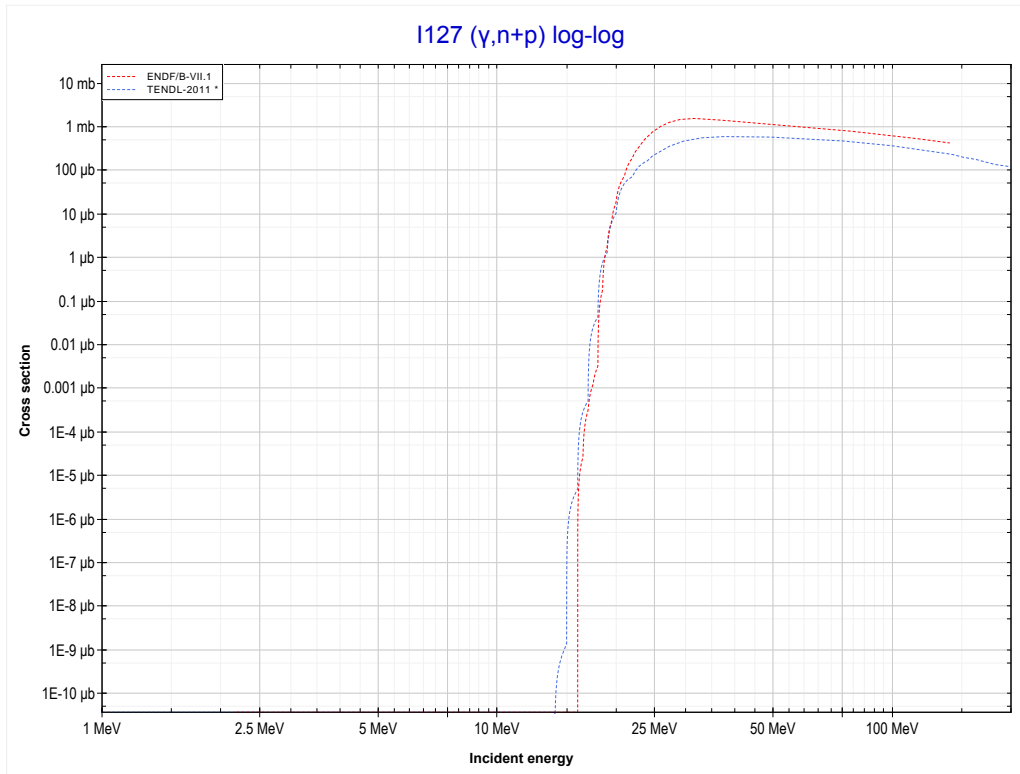
Reaction	Q-Value
I127($\gamma,2n$)I125	-16289.23 keV

<< 50-Sn-124	53-I-127	55-Cs-133 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (I124 production)	MT28 ($\gamma,n+p$) >>



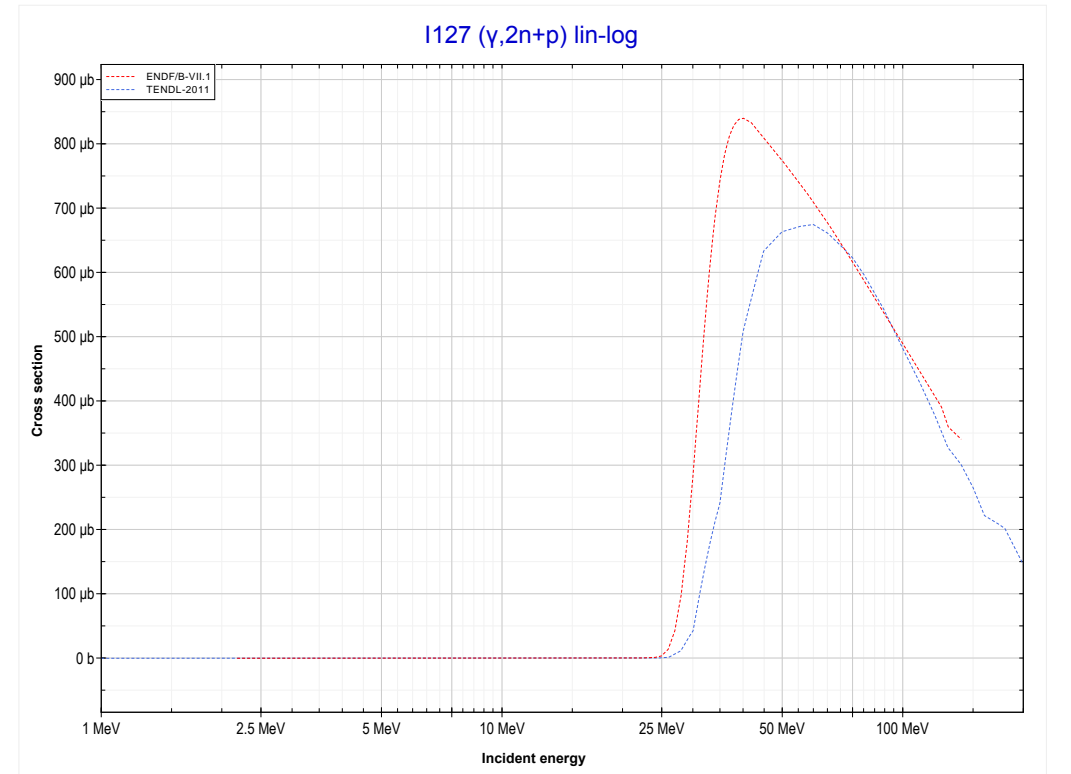
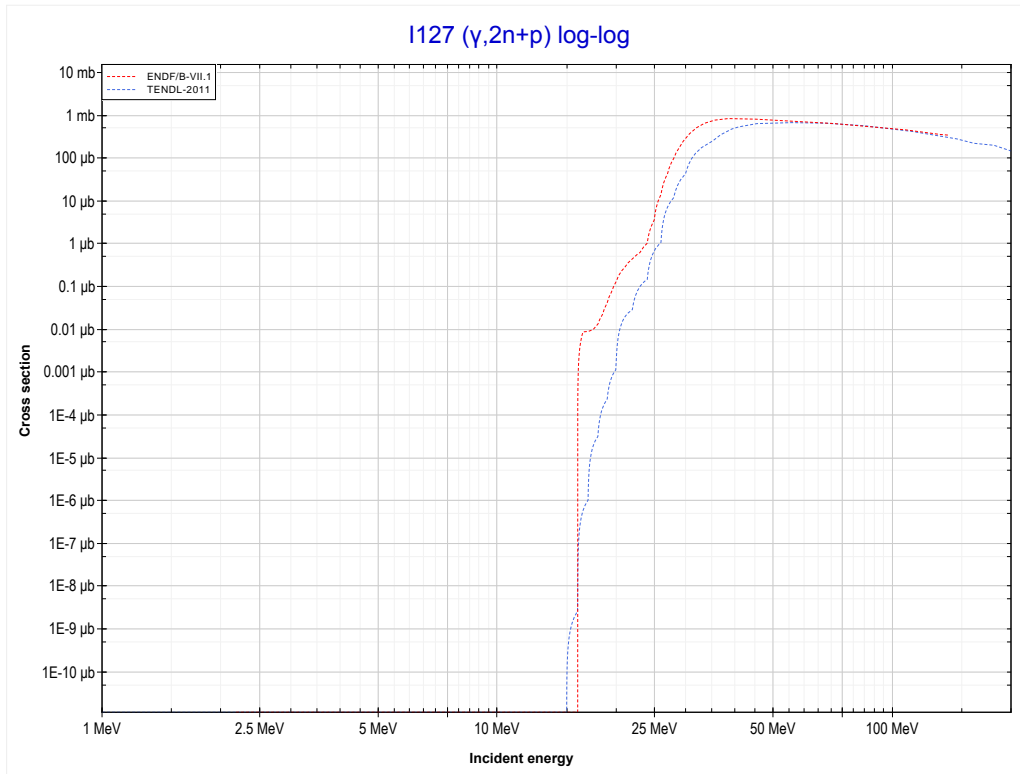
Reaction	Q-Value
I127($\gamma,3n$)I124	-25831.95 keV

<< 52-Te-130	53-I-127	55-Cs-133 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Te125 production)	MT41 ($\gamma,2n+p$) >>



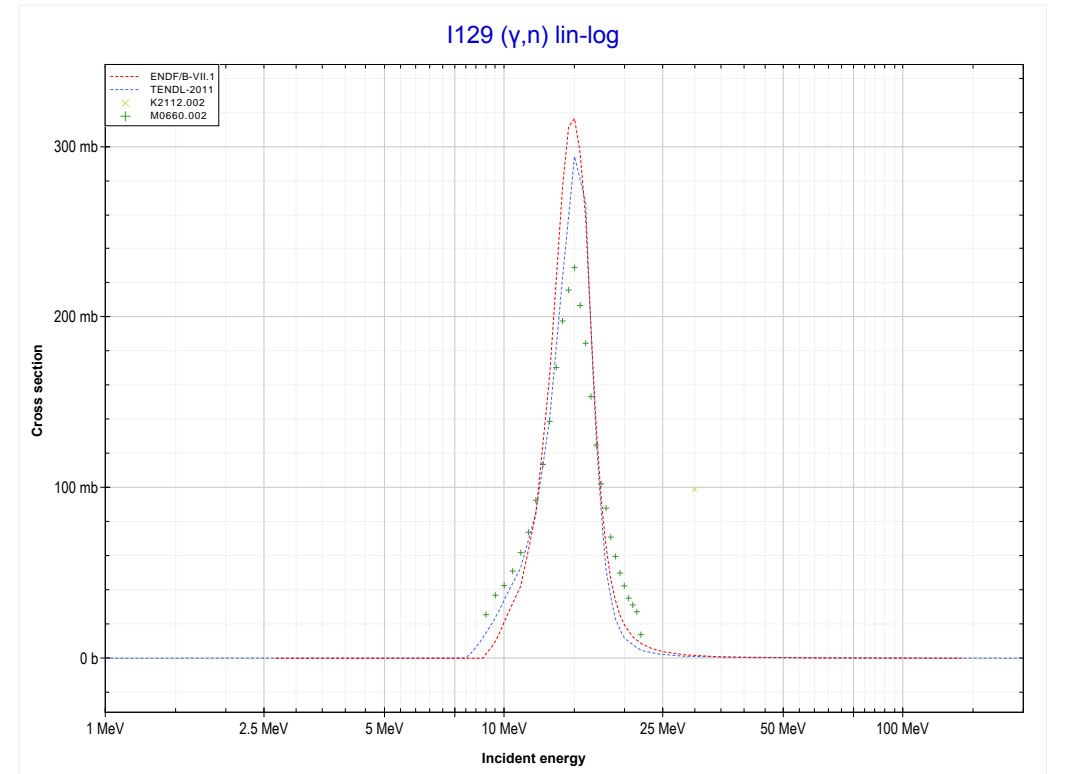
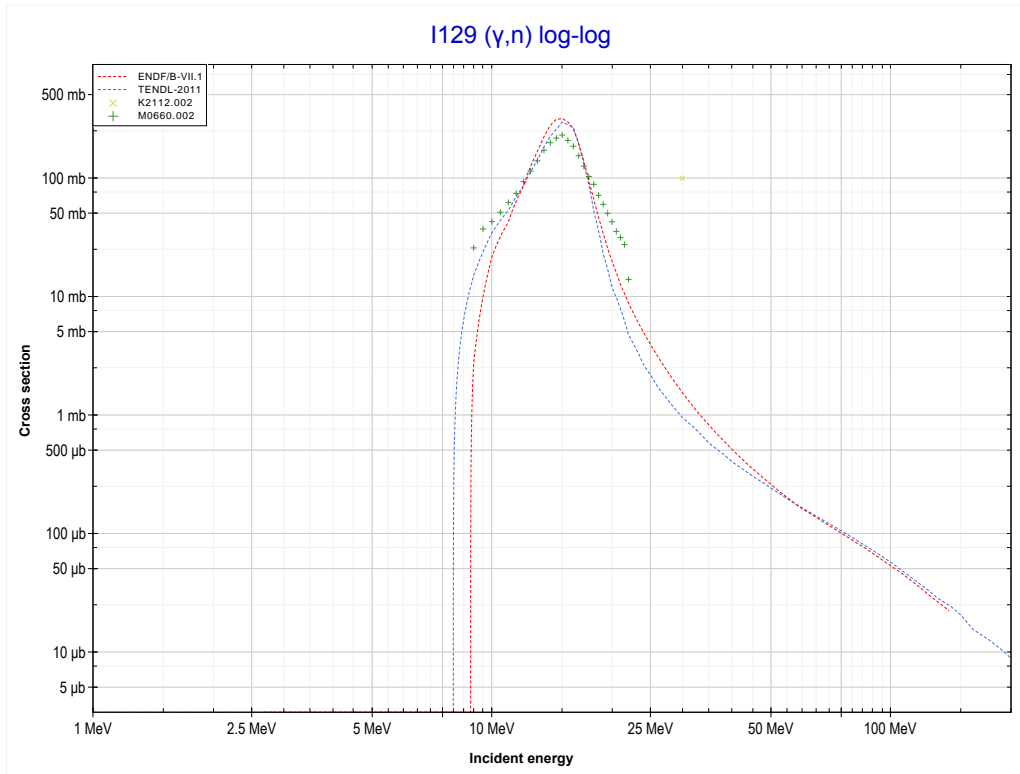
Reaction	Q-Value
I127(γ,d)Te125	-13096.52 keV
I127($\gamma,n+p$)Te125	-15321.09 keV

<< 52-Te-130	53-I-127	55-Cs-133 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Te124 production)	MT4 (γ, n) >>



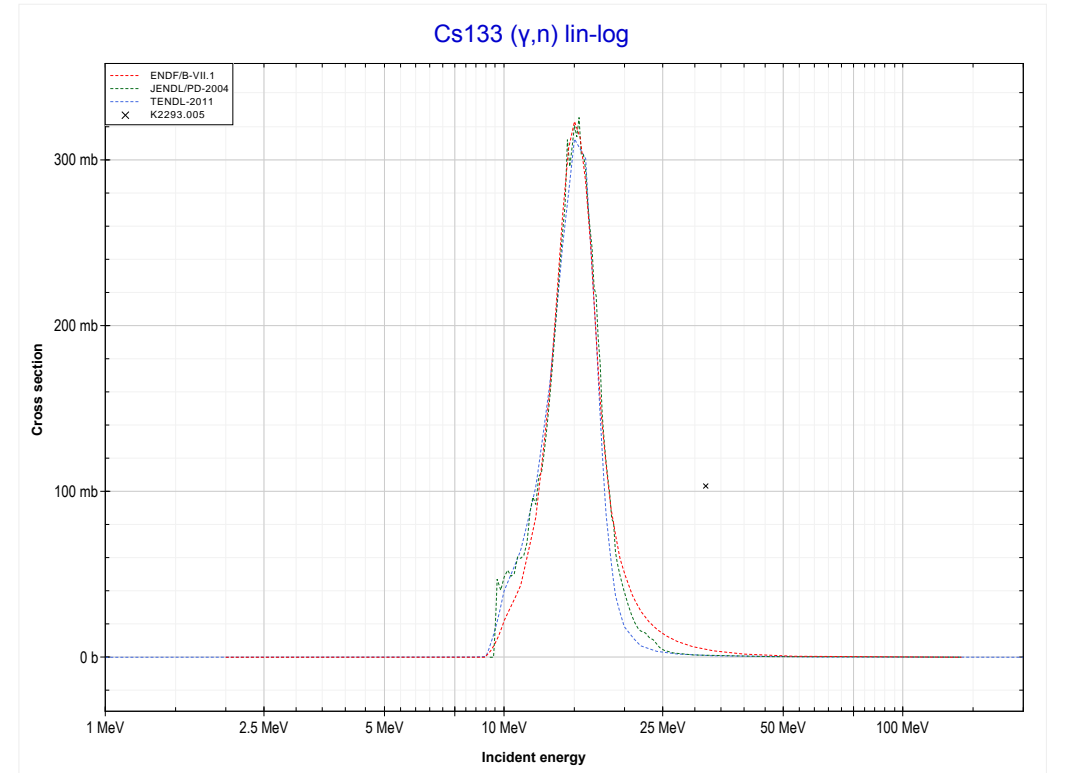
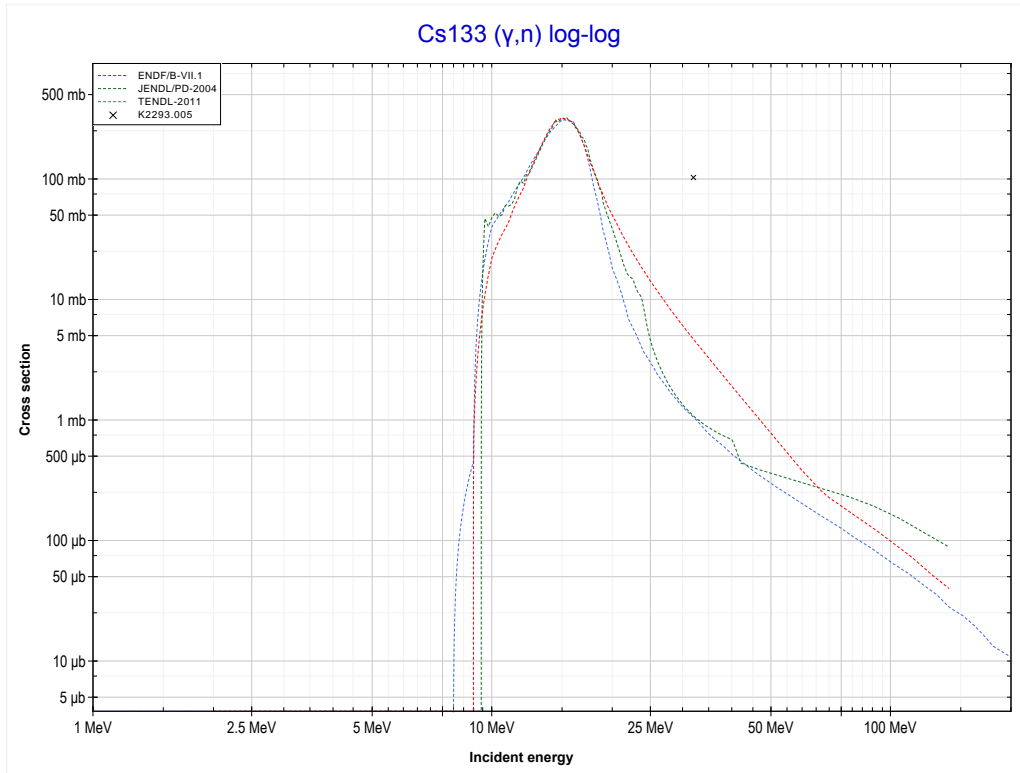
Reaction	Q-Value
I127(γ, t)Te124	-13408.31 keV
I127($\gamma, n+d$)Te124	-19665.54 keV
I127($\gamma, 2n+p$)Te124	-21890.10 keV

<< 53-I-127	53-I-129	55-Cs-133 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (I128 production)	MT4 (γ,n) >>



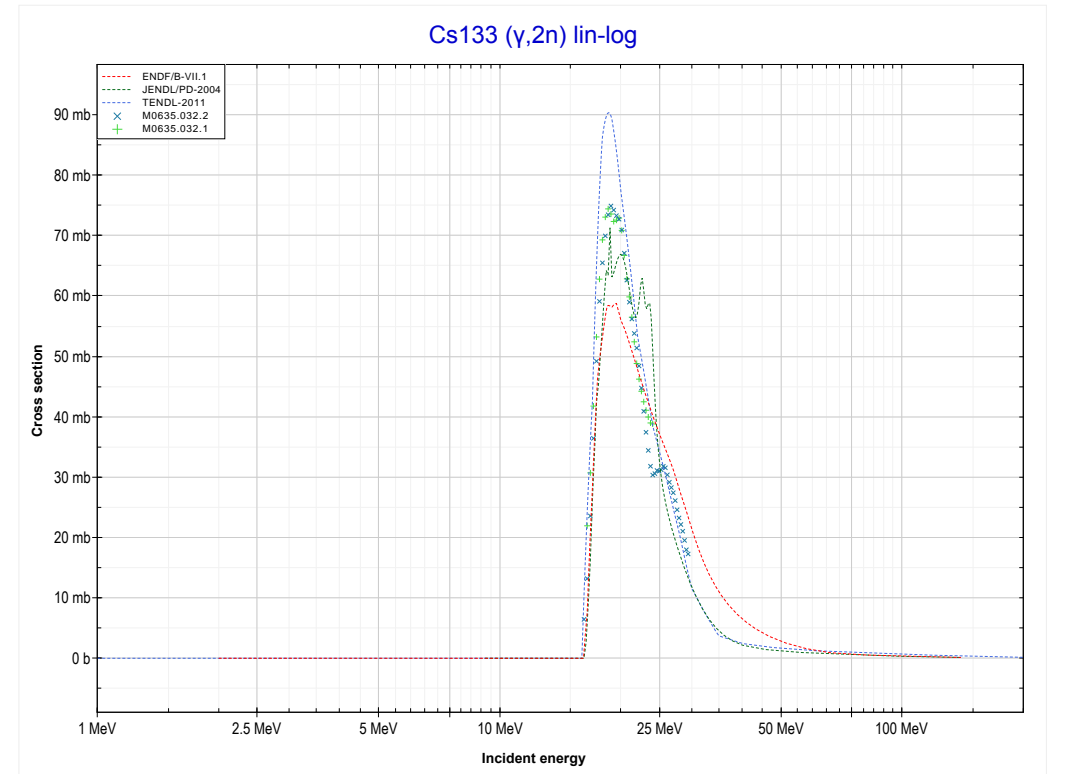
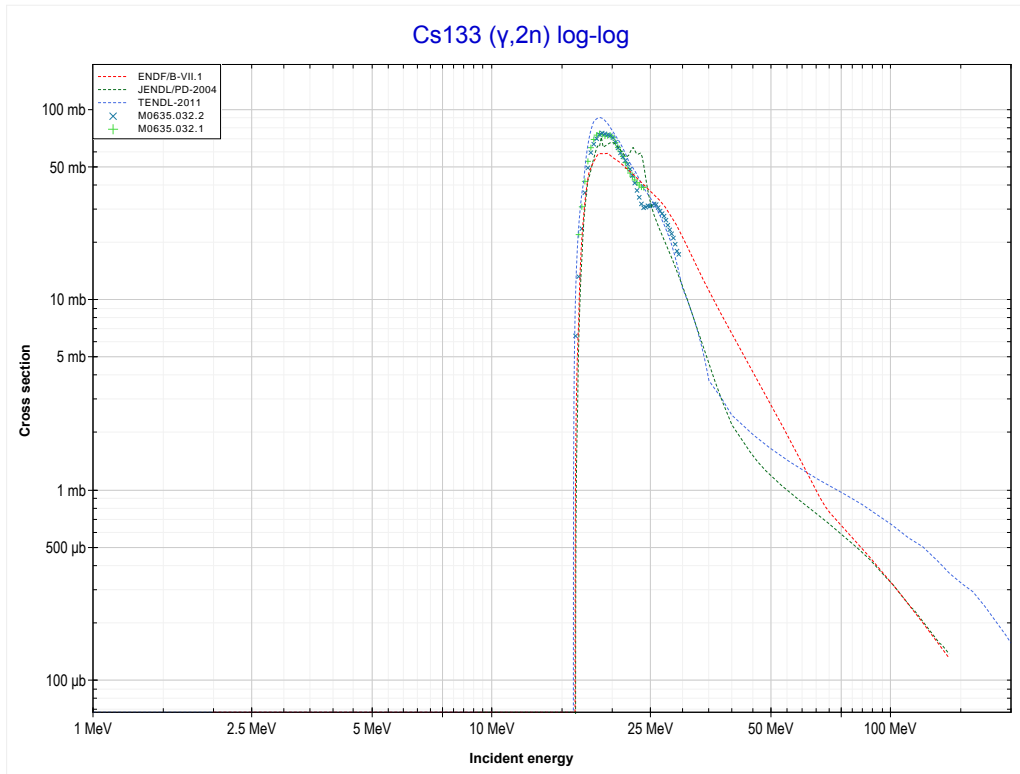
Reaction	Q-Value
I129(γ,n)I128	-8836.32 keV

<< 53-I-129	55-Cs-133	56-Ba-130 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Cs132 production)	MT16 ($\gamma,2n$) >>



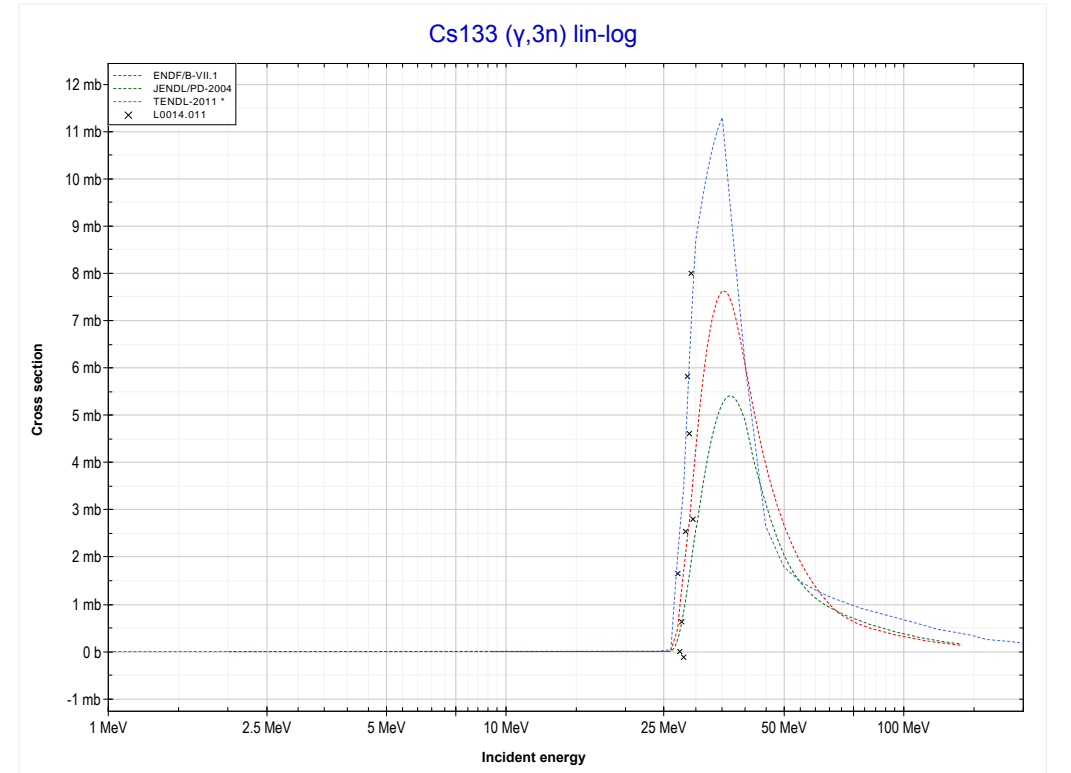
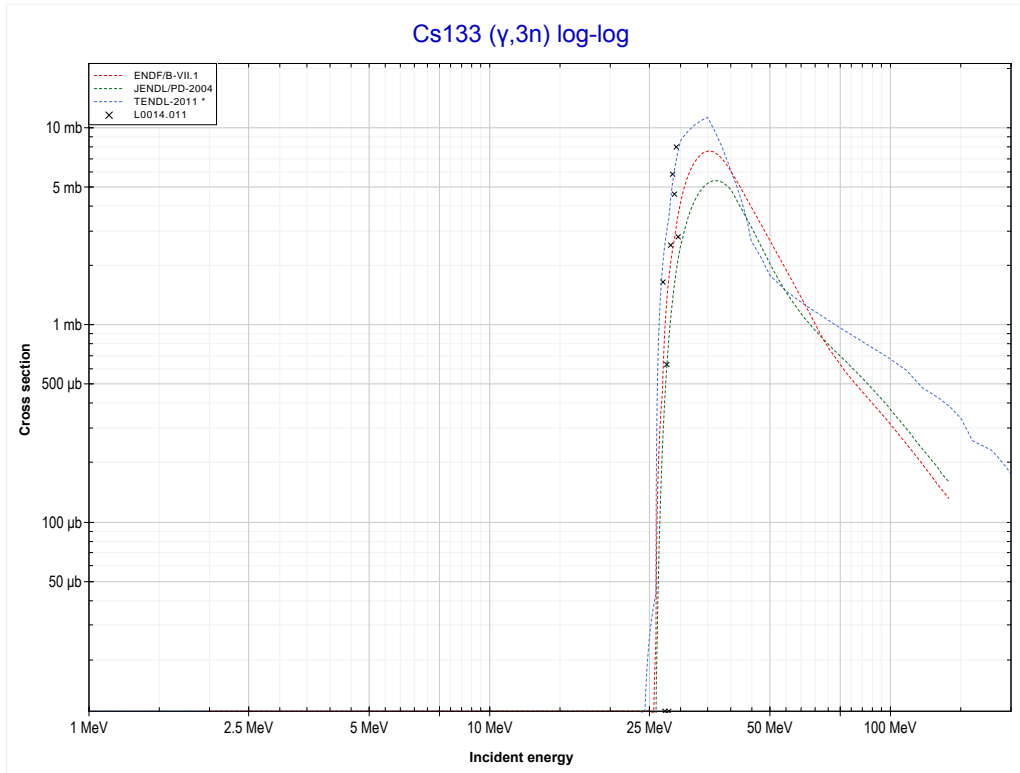
Reaction	Q-Value
Cs133(γ,n)Cs132	-8986.38 keV

<< 53-I-127	55-Cs-133	56-Ba-138 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Cs131 production)	MT17 ($\gamma,3n$) >>



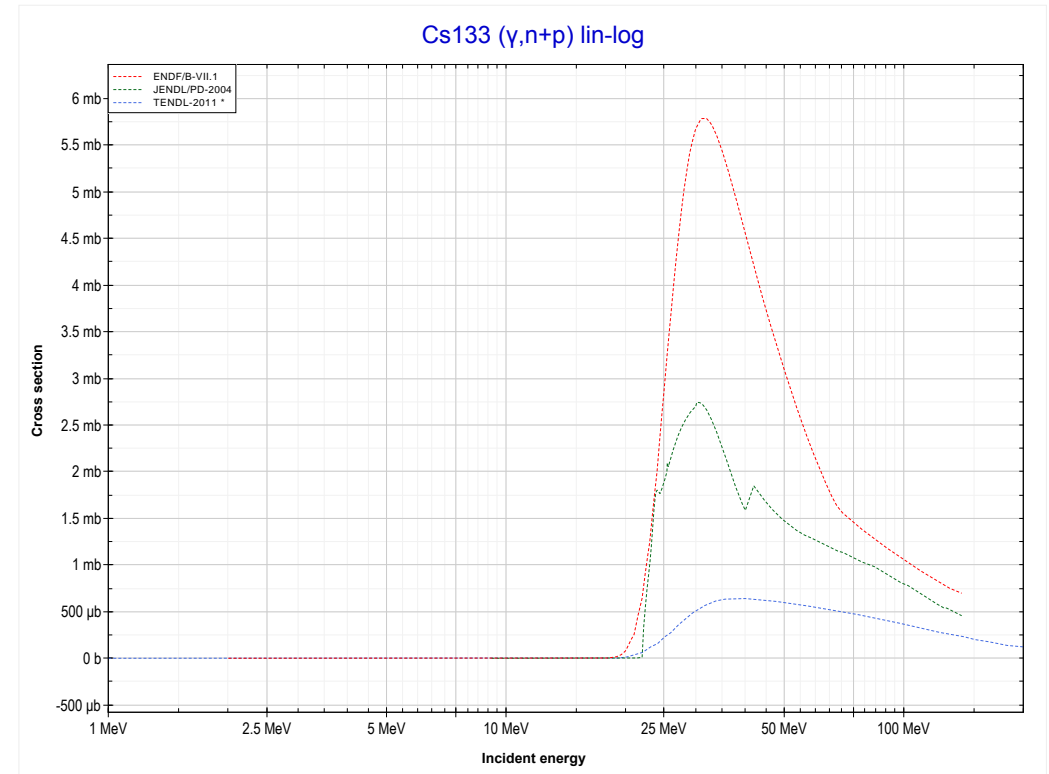
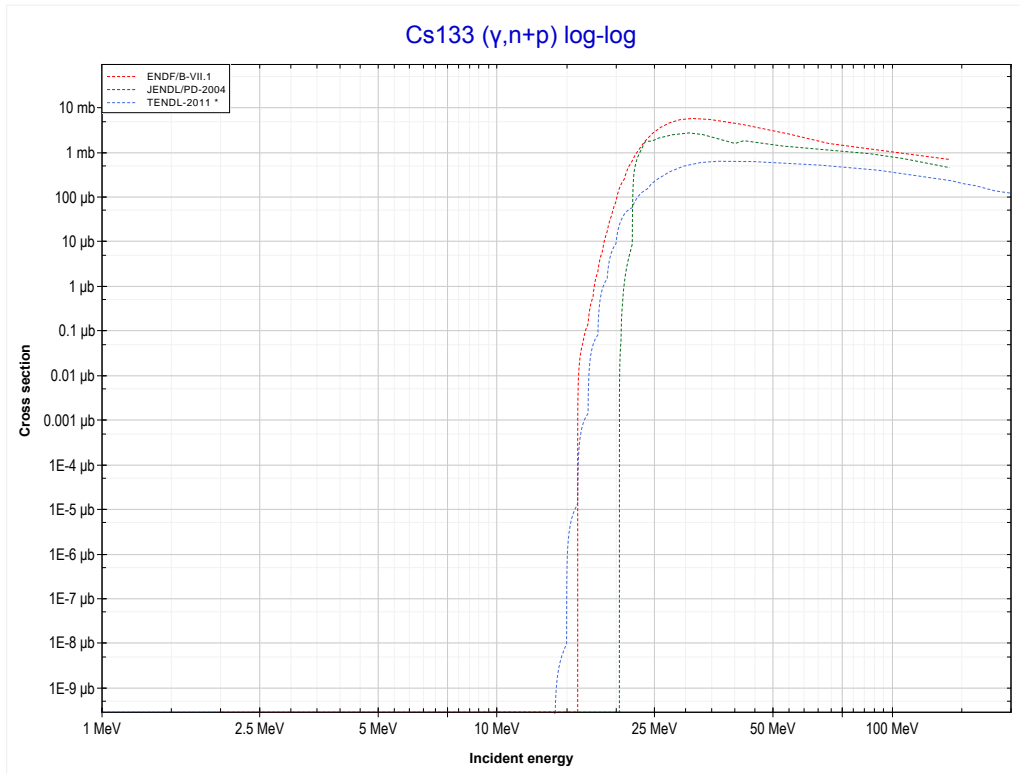
Reaction	Q-Value
Cs133($\gamma,2n$)Cs131	-16153.59 keV

<< 53-I-127	55-Cs-133	56-Ba-138 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Cs130 production)	MT28 ($\gamma,n+p$) >>



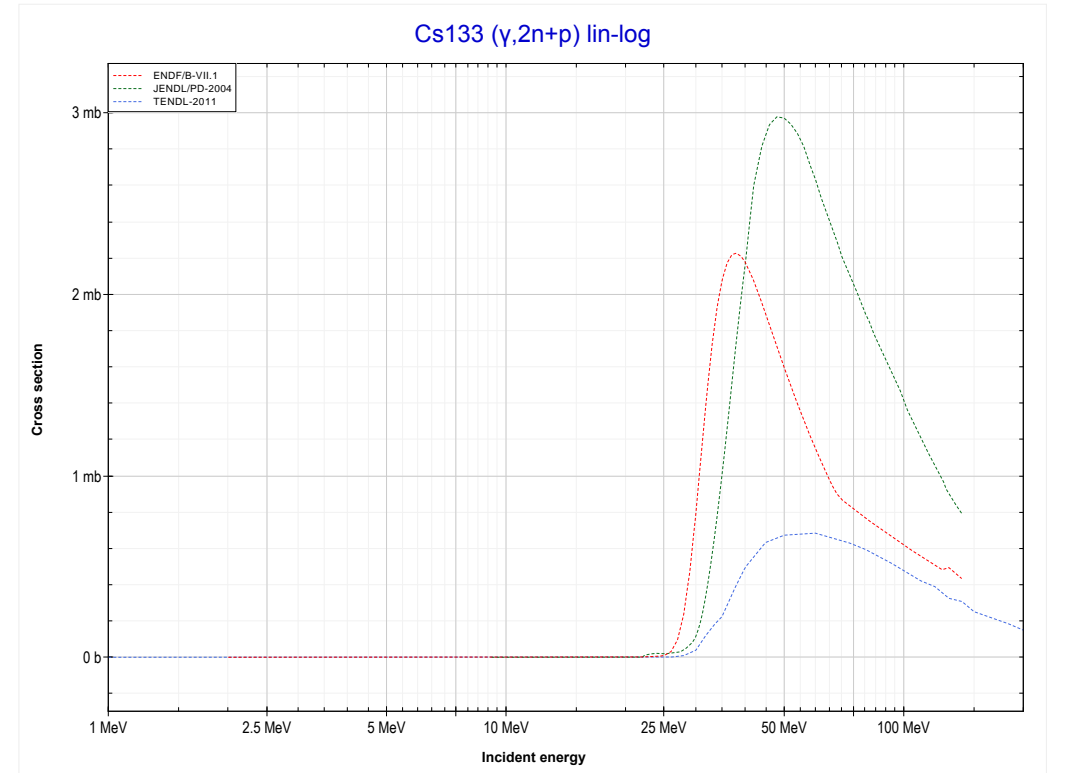
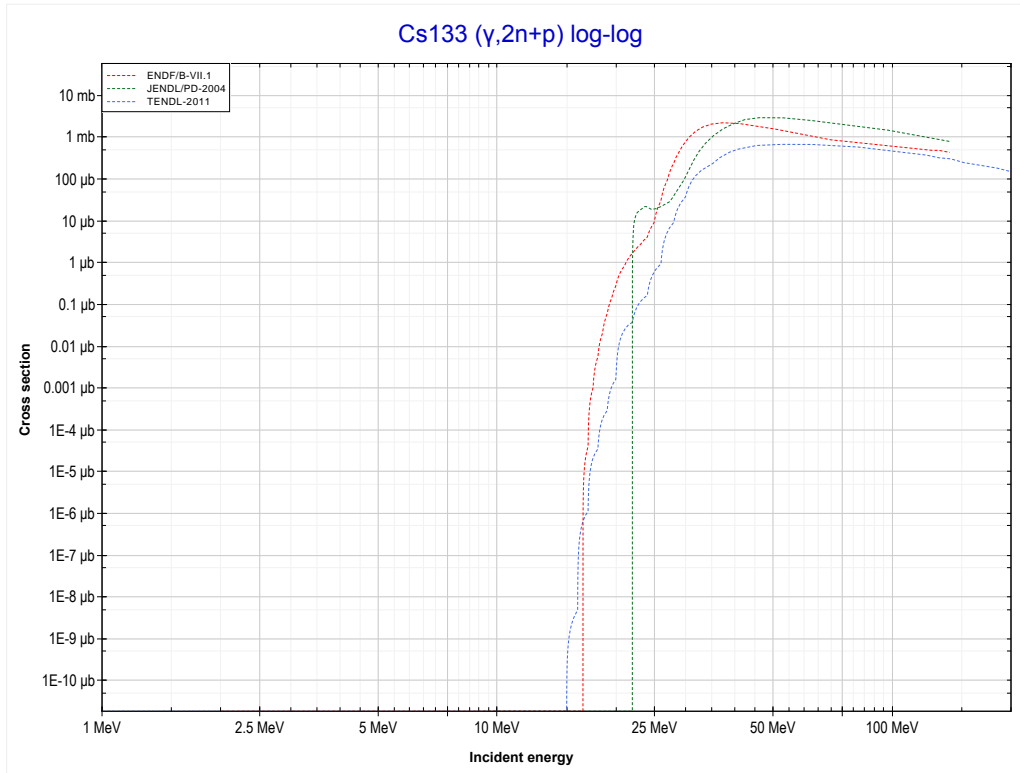
Reaction	Q-Value
Cs133($\gamma,3n$)Cs130	-25384.91 keV

<< 53-I-127	55-Cs-133	56-Ba-138 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Xe131 production)	MT41 ($\gamma,2n+p$) >>



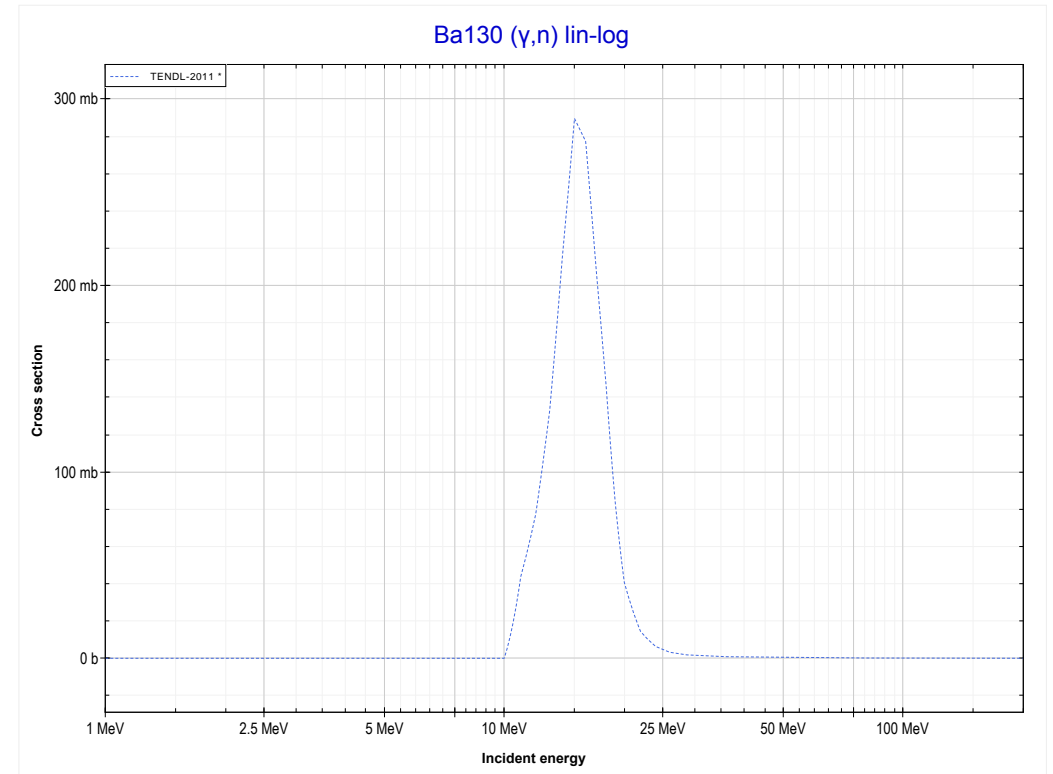
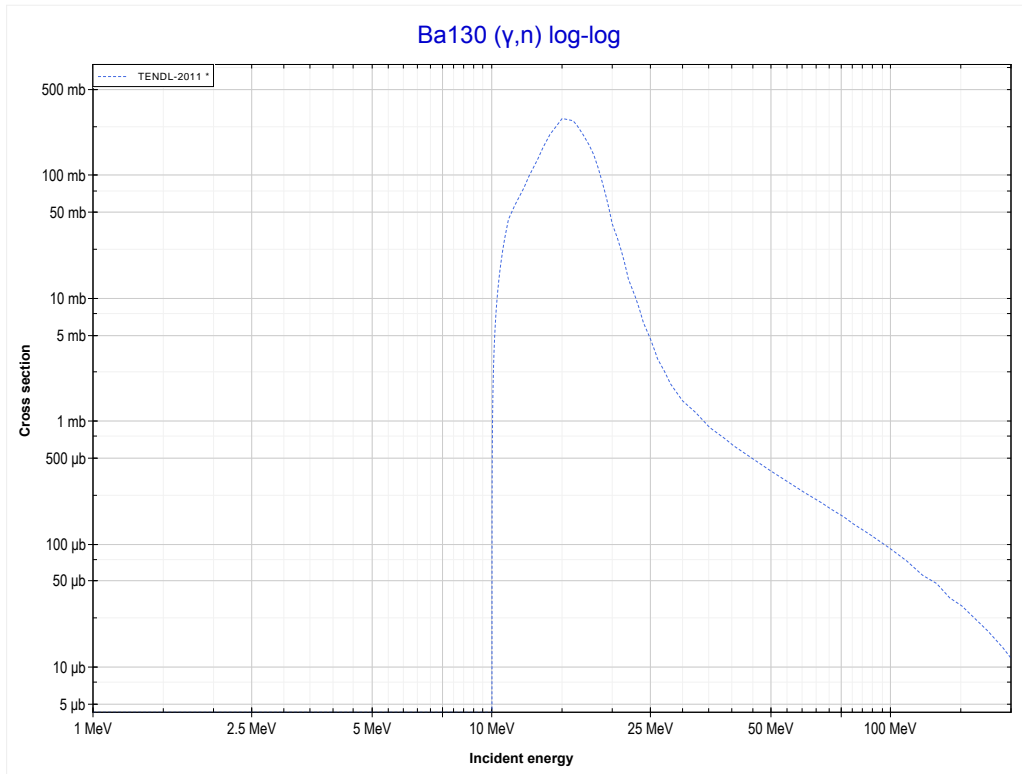
Reaction	Q-Value
Cs133(γ,d)Xe131	-12791.48 keV
Cs133($\gamma,n+p$)Xe131	-15016.05 keV

<< 53-I-127	55-Cs-133	56-Ba-138 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Xe130 production)	MT4 (γ, n) >>



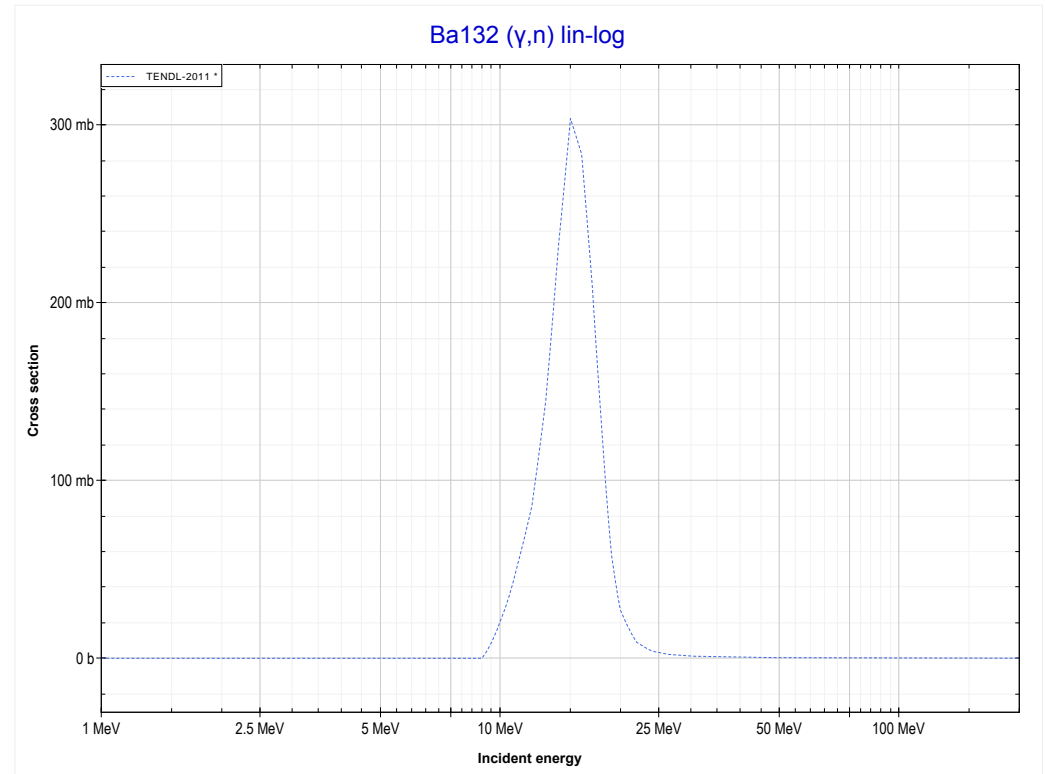
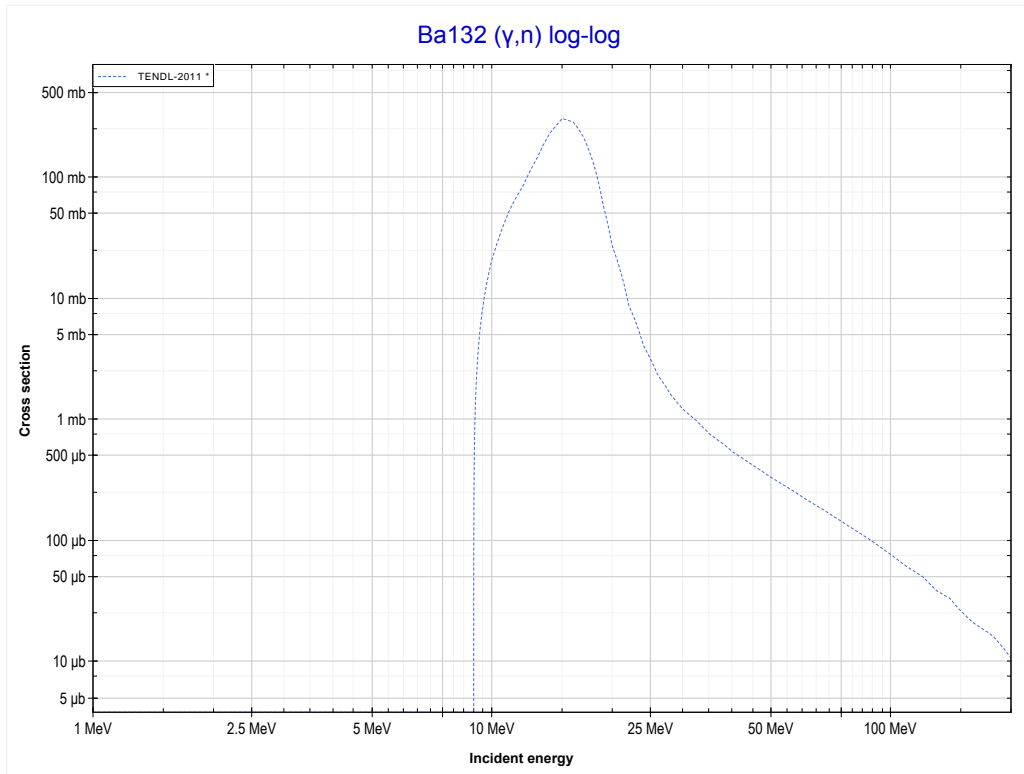
Reaction	Q-Value
Cs133(γ, t)Xe130	-13139.06 keV
Cs133($\gamma, n+d$)Xe130	-19396.30 keV
Cs133($\gamma, 2n+p$)Xe130	-21620.86 keV

<< 55-Cs-133	56-Ba-130	56-Ba-132 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Ba129 production)	MT4 (γ,n) >>



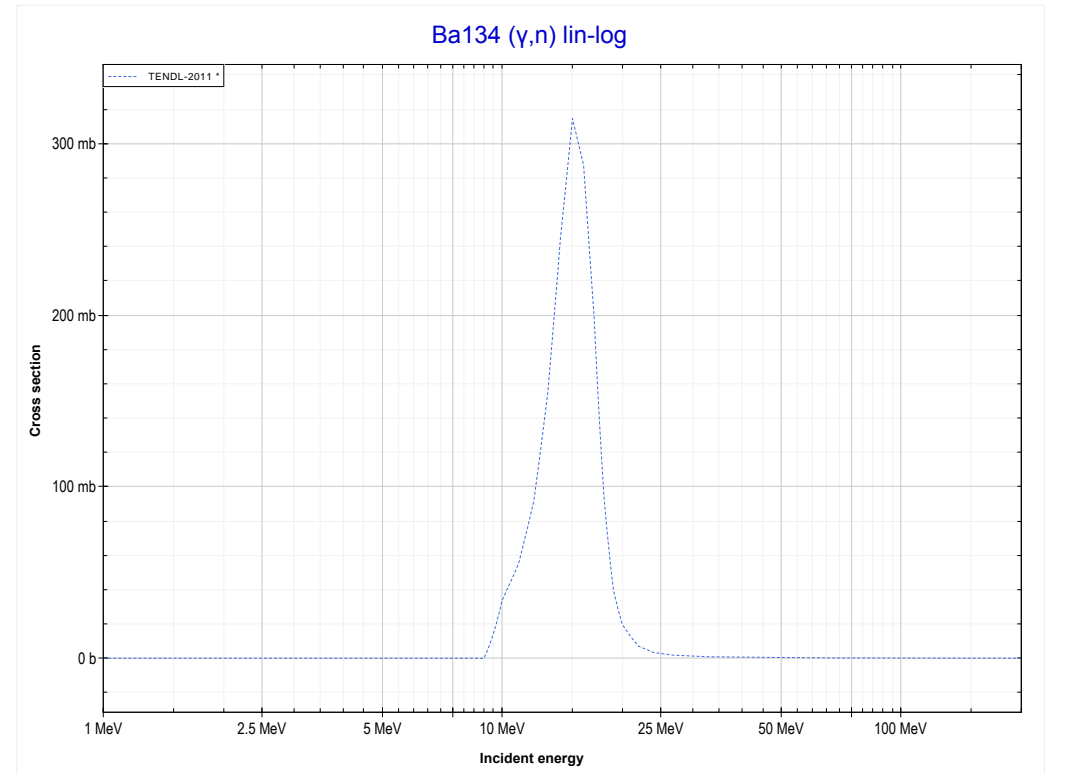
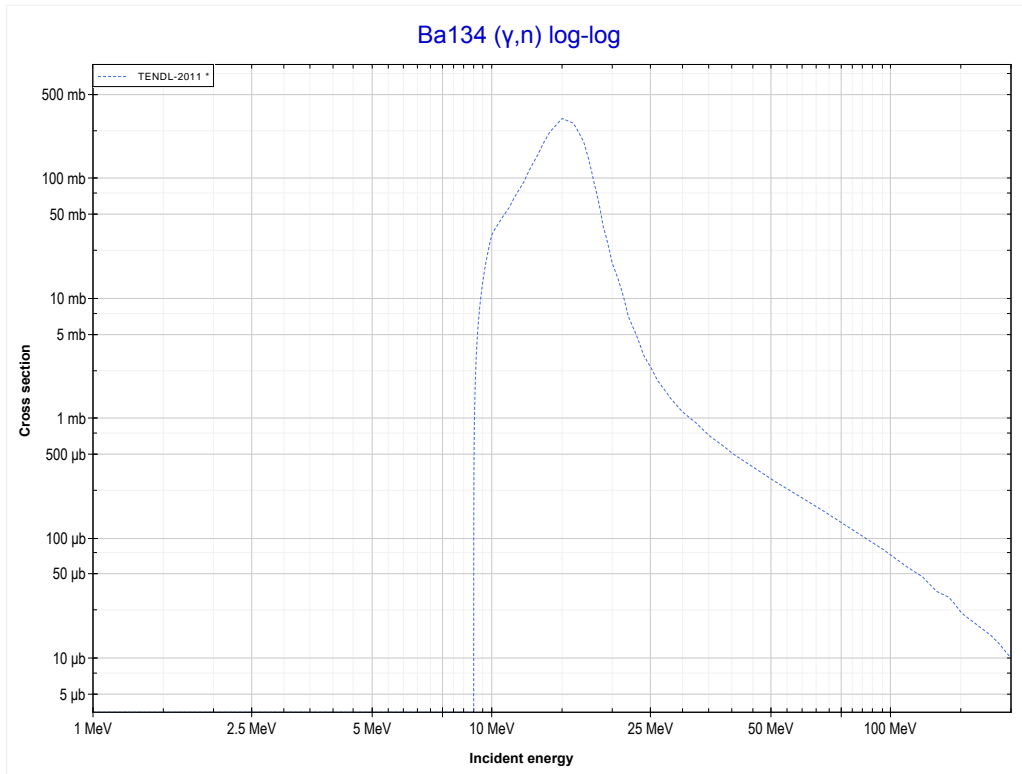
Reaction	Q-Value
Ba130(γ,n)Ba129	-10267.92 keV

<< 56-Ba-130	56-Ba-132	56-Ba-134 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ba131 production)	MT4 (γ,n) >>



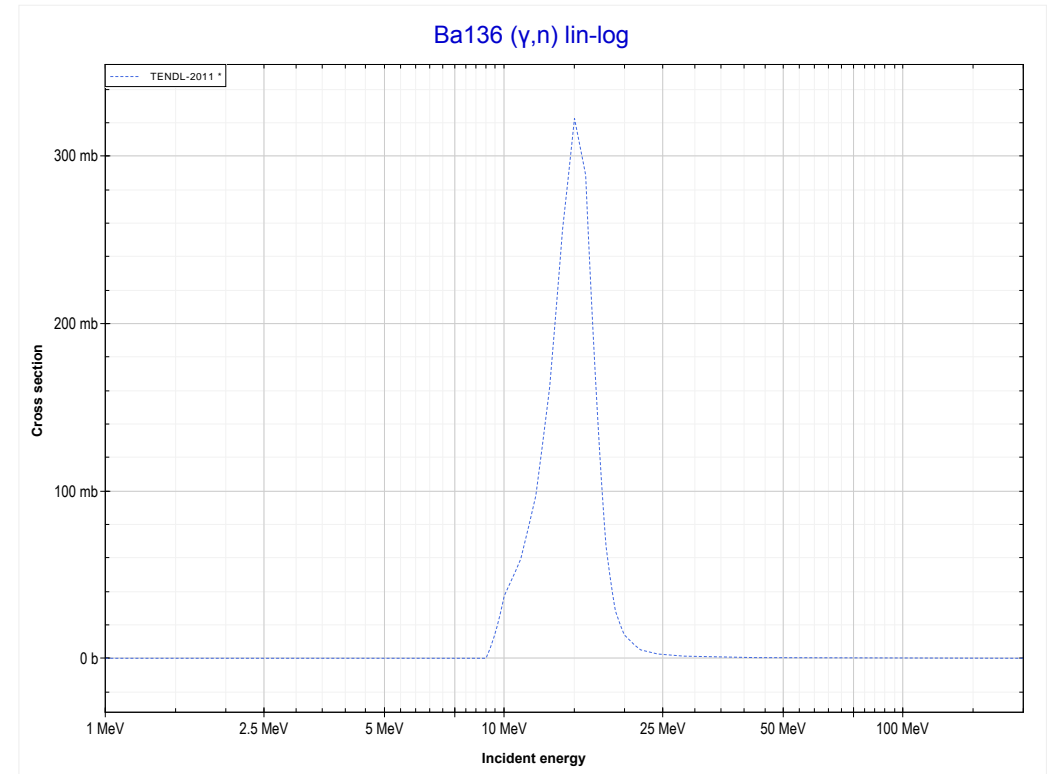
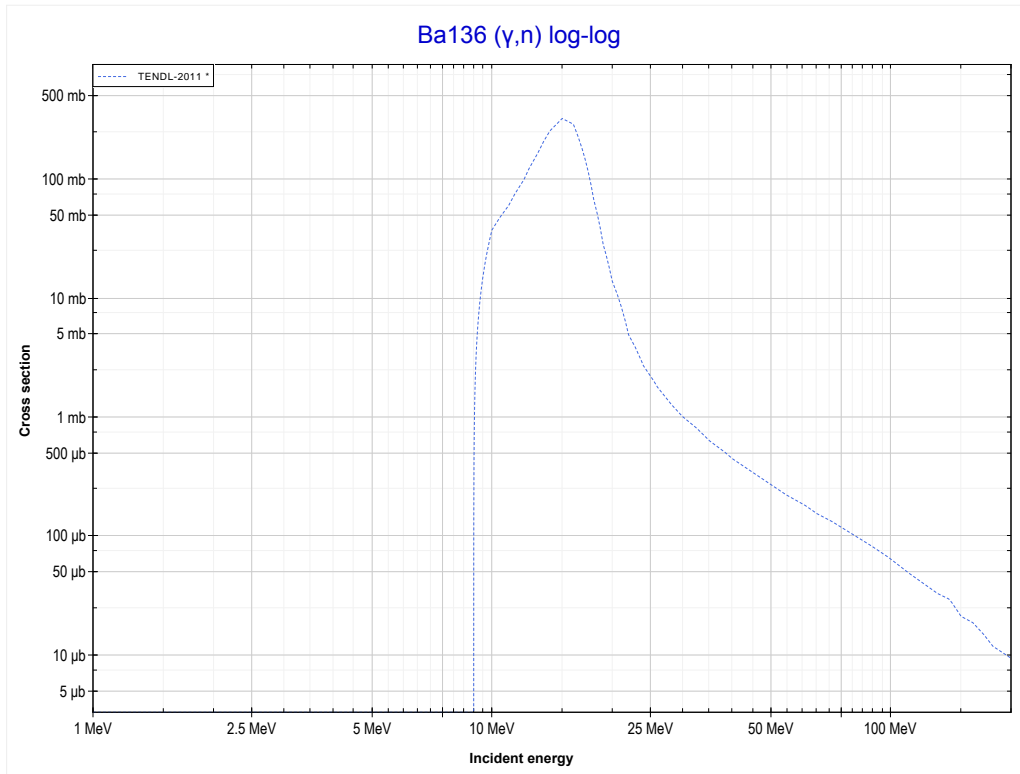
Reaction	Q-Value
Ba132(γ,n)Ba131	-9822.32 keV

<< 56-Ba-132	56-Ba-134	56-Ba-136 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ba133 production)	MT4 (γ,n) >>



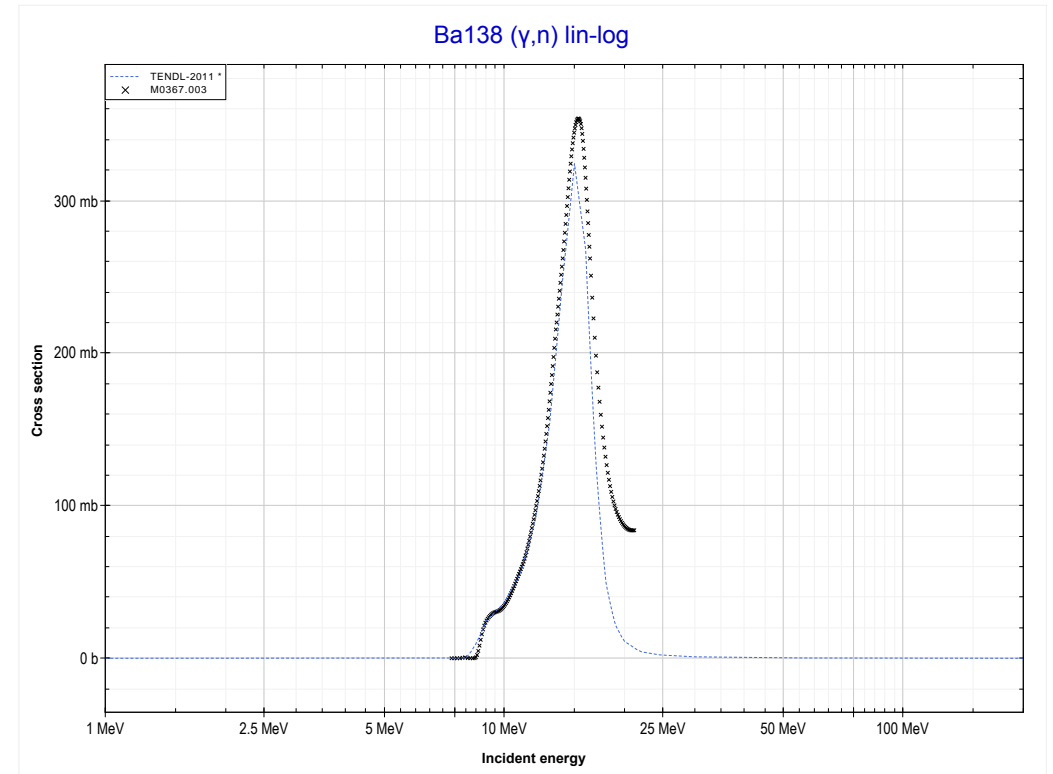
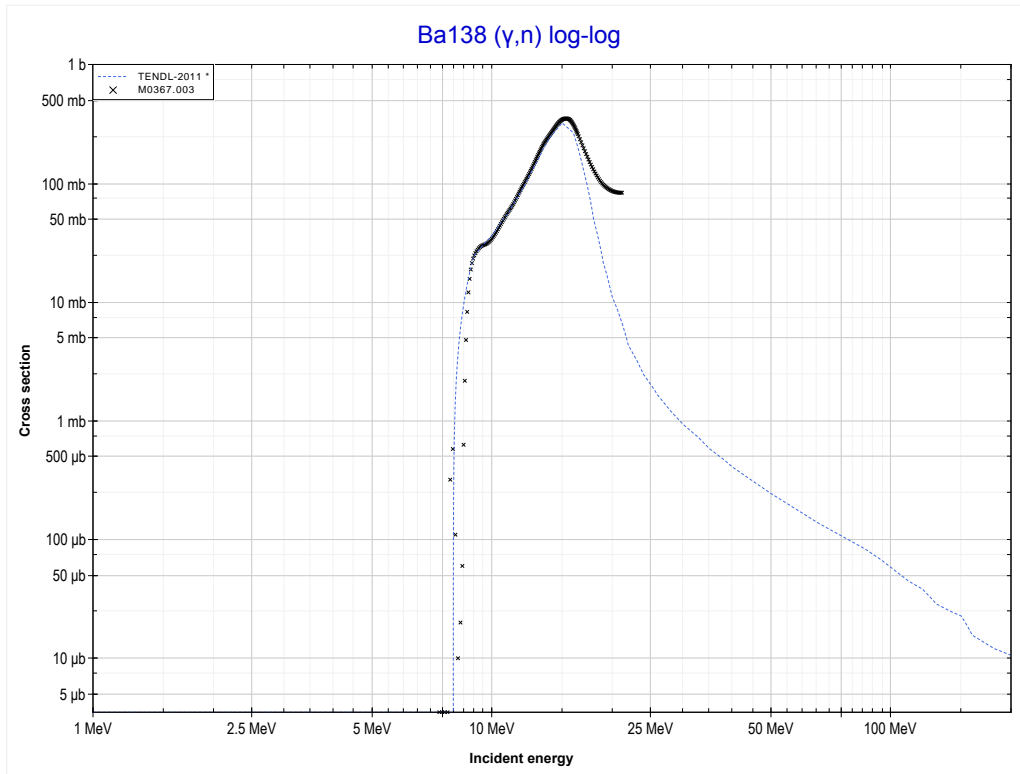
Reaction	Q-Value
Ba134(γ,n)Ba133	-9467.72 keV

<< 56-Ba-134	56-Ba-136	56-Ba-138 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ba135 production)	MT4 (γ,n) >>



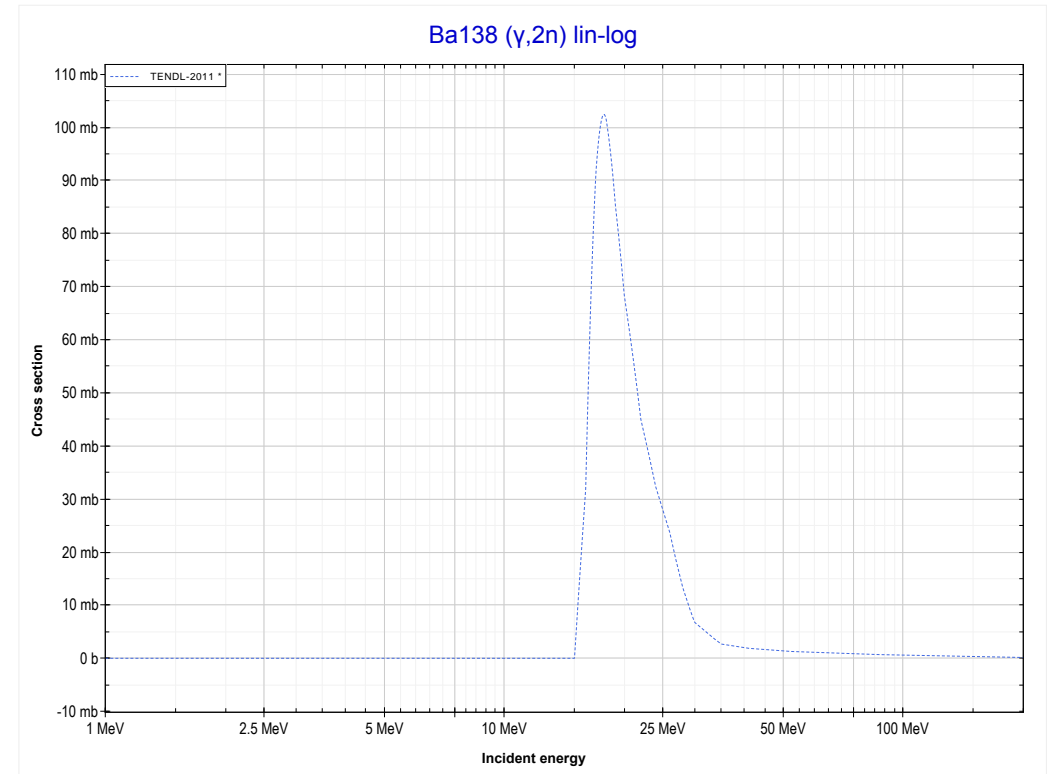
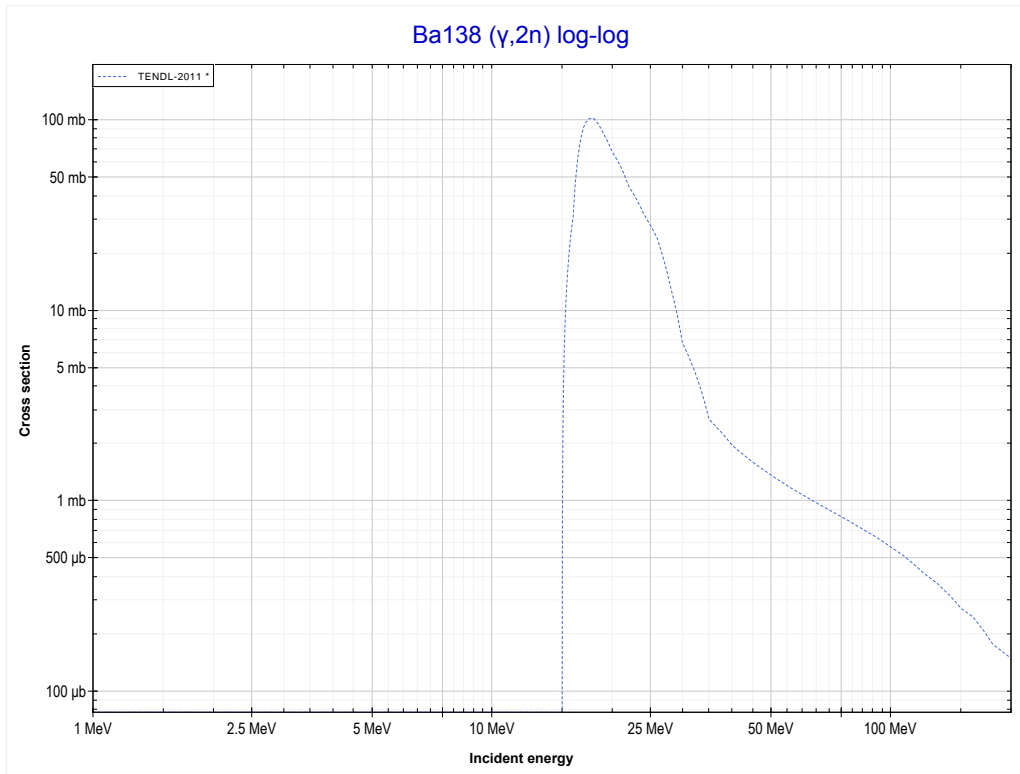
Reaction	Q-Value
Ba136(γ,n)Ba135	-9107.72 keV

<< 56-Ba-136	56-Ba-138	57-La-139 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Ba137 production)	MT16 ($\gamma,2n$) >>



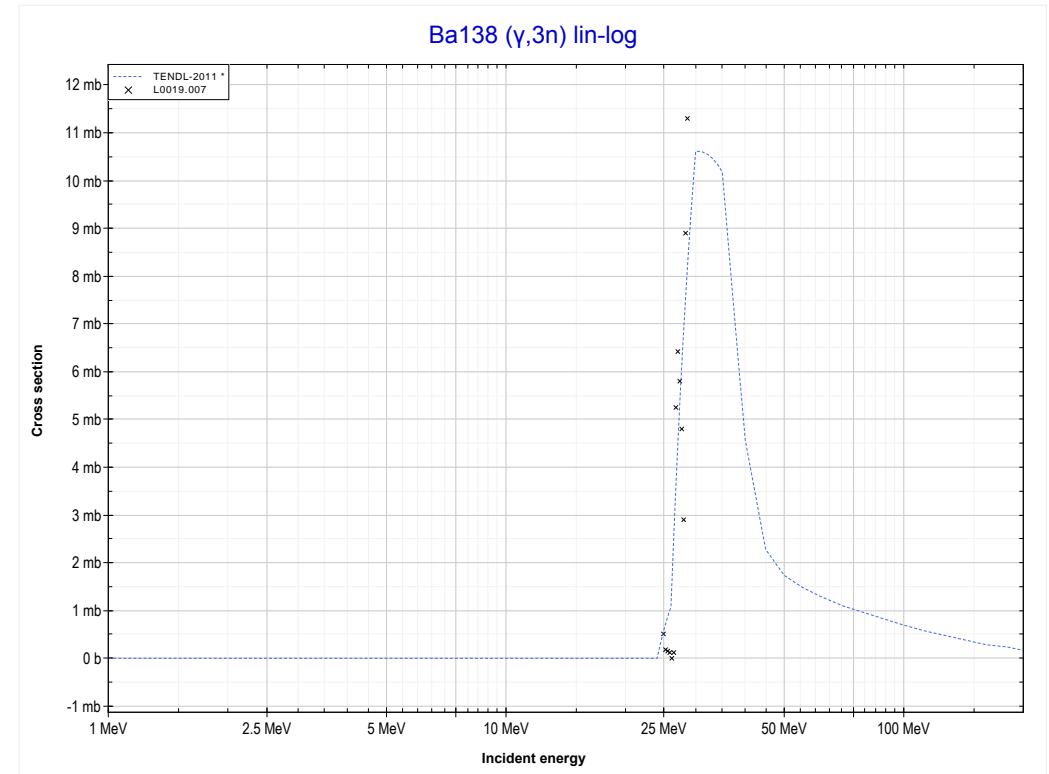
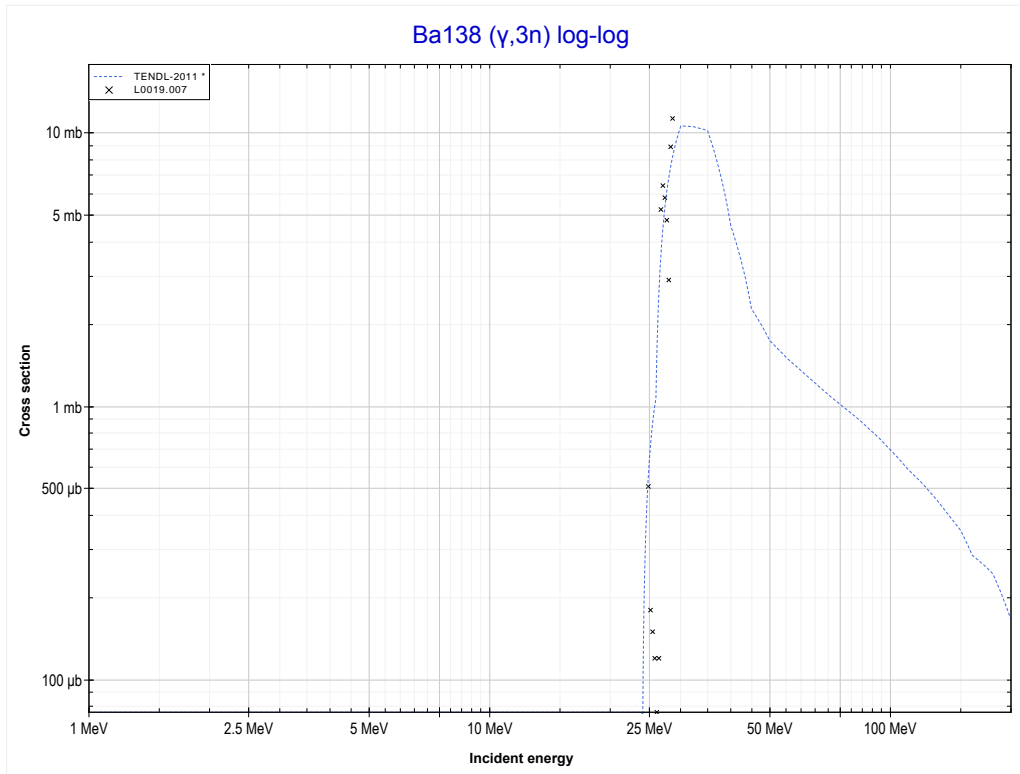
Reaction	Q-Value
Ba138(γ,n)Ba137	-8611.72 keV

<< 55-Cs-133	56-Ba-138	57-La-139 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ba136 production)	MT17 ($\gamma,3n$) >>



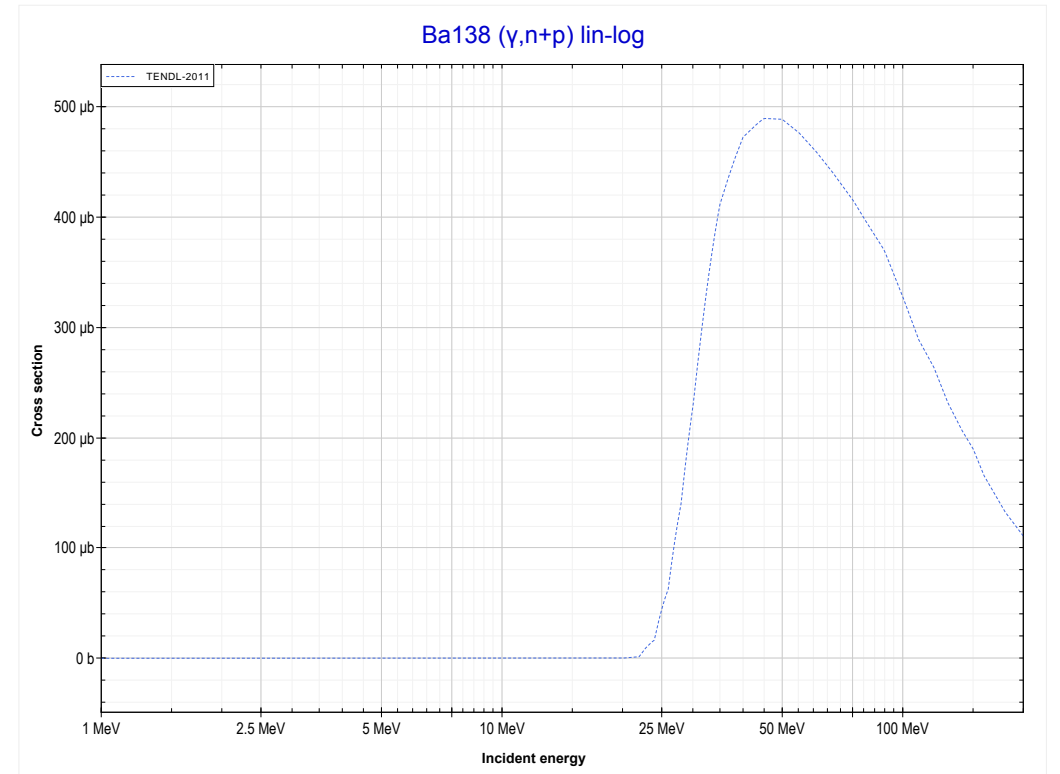
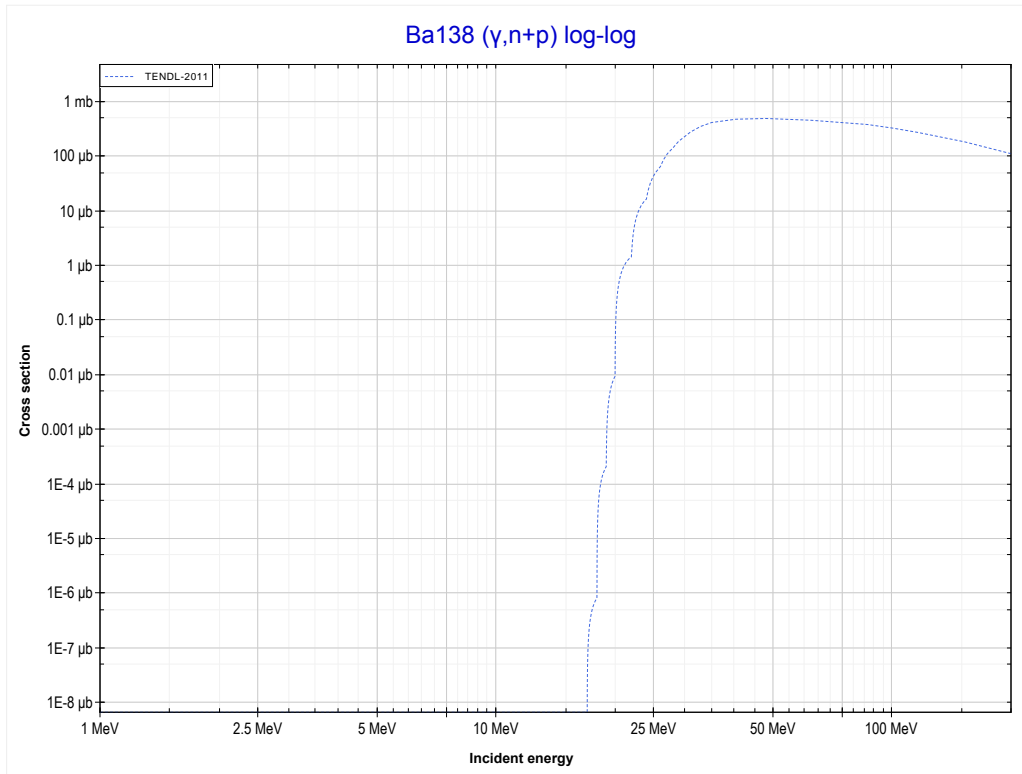
Reaction	Q-Value
Ba138($\gamma,2n$)Ba136	-15517.33 keV

<< 55-Cs-133	56-Ba-138	57-La-139 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Ba135 production)	MT28 ($\gamma,n+p$) >>



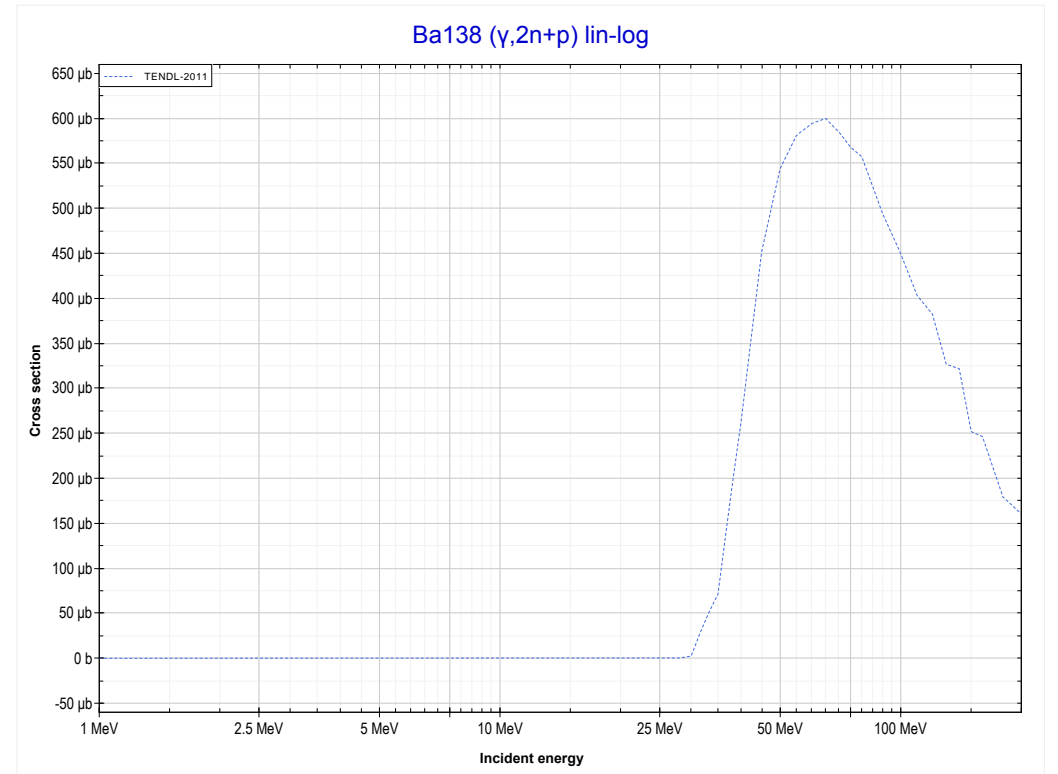
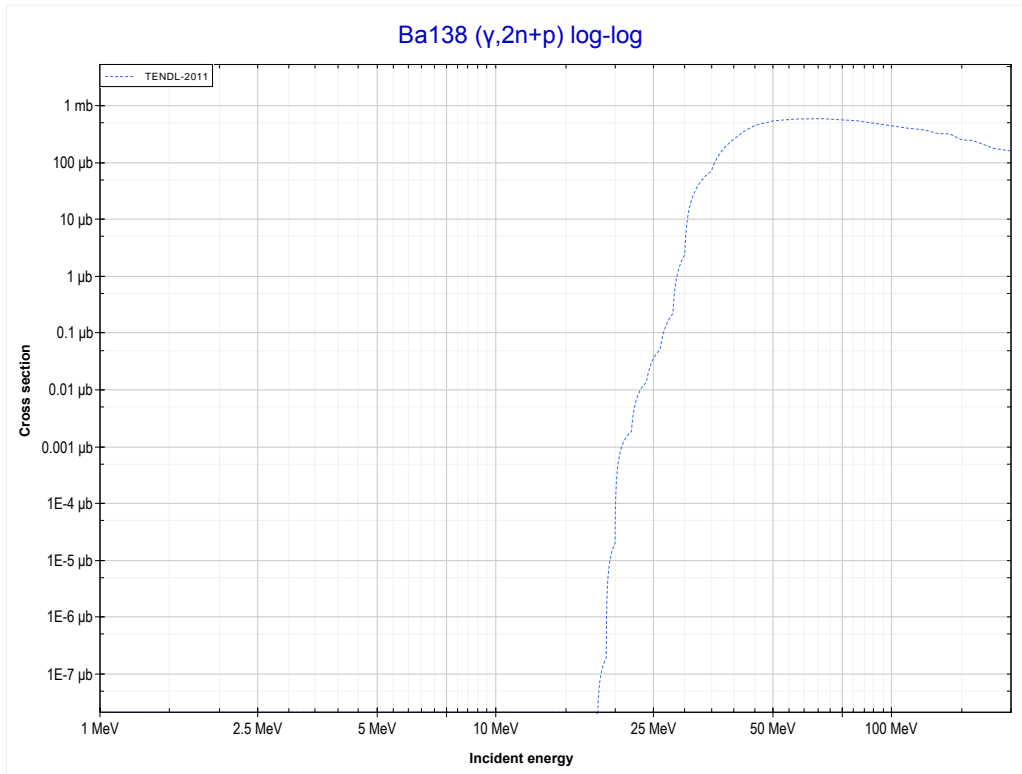
Reaction	Q-Value
Ba138($\gamma,3n$)Ba135	-24625.05 keV

<< 55-Cs-133	56-Ba-138	57-La-139 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Cs136 production)	MT41 ($\gamma,2n+p$) >>



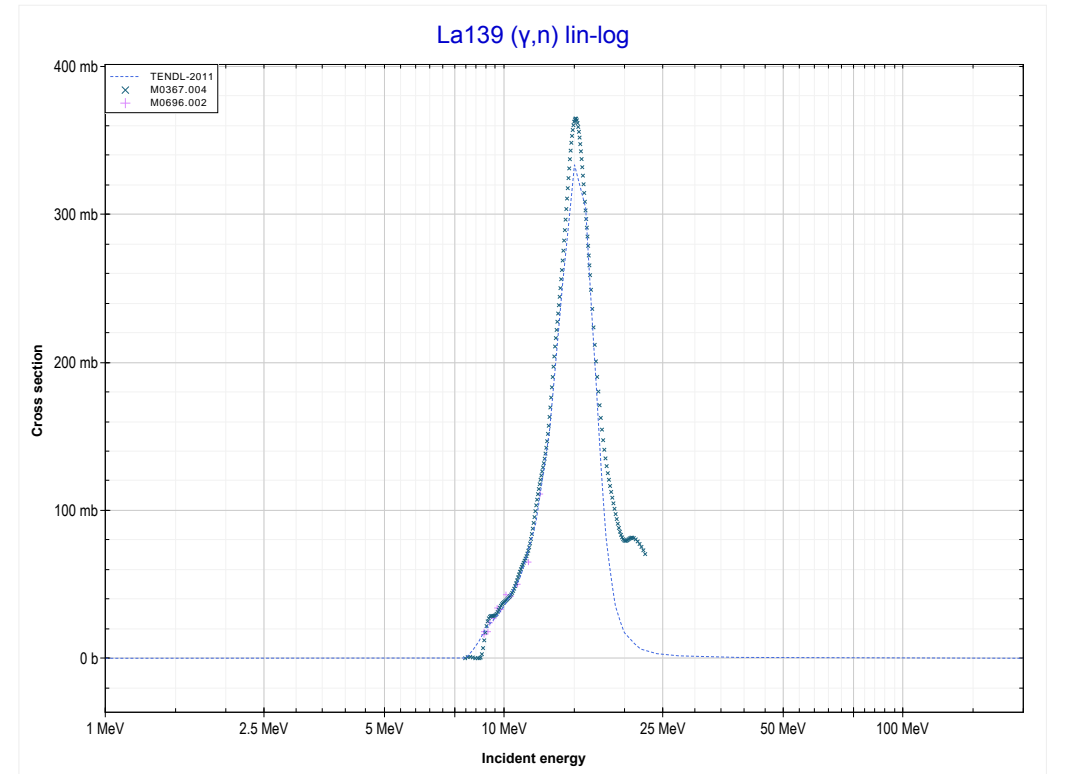
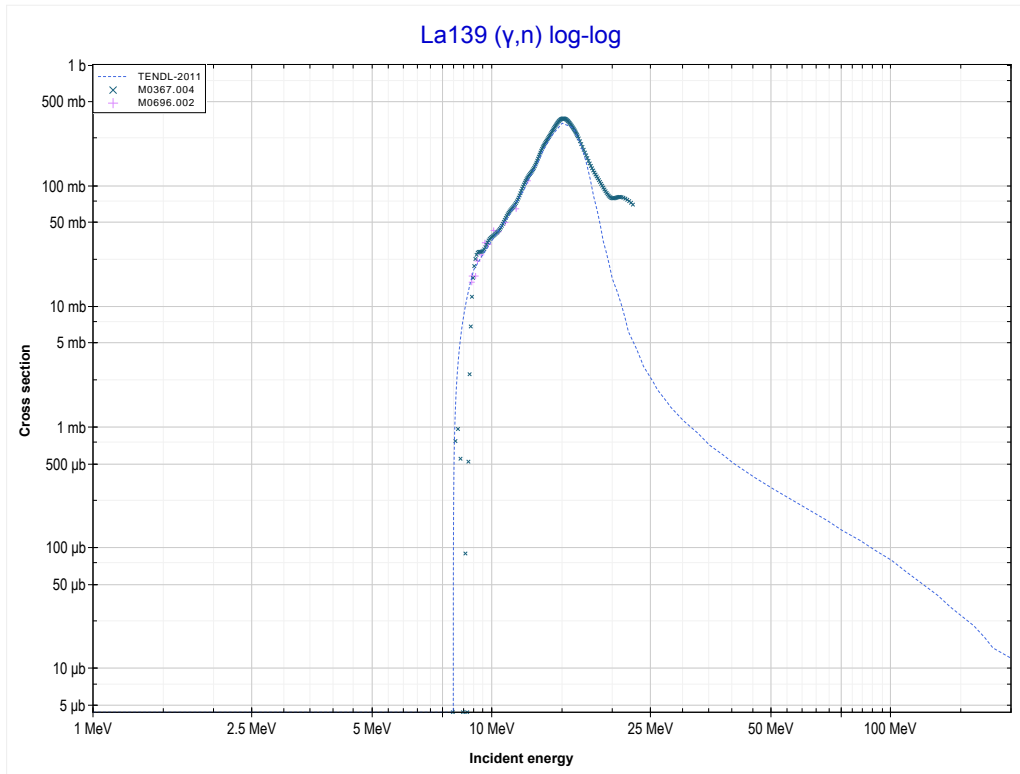
Reaction	Q-Value
Ba138(γ,d)Cs136	-15058.62 keV
Ba138($\gamma,n+p$)Cs136	-17283.19 keV

<< 55-Cs-133	56-Ba-138	57-La-139 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Cs135 production)	MT4 (γ, n) >>



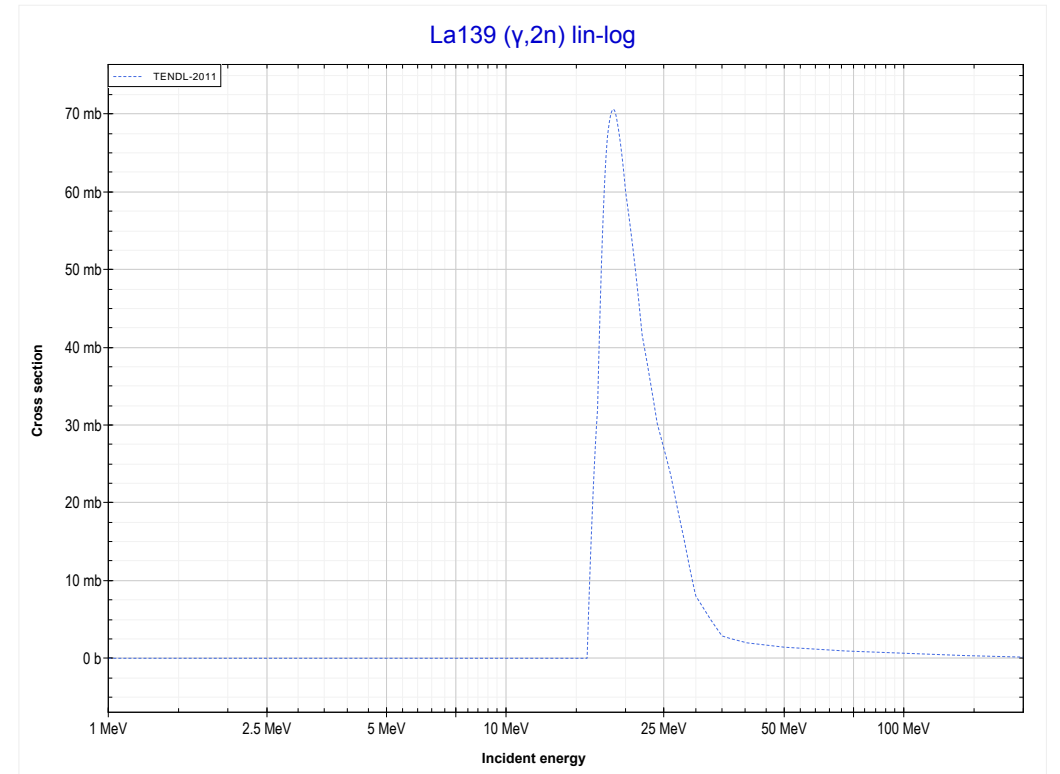
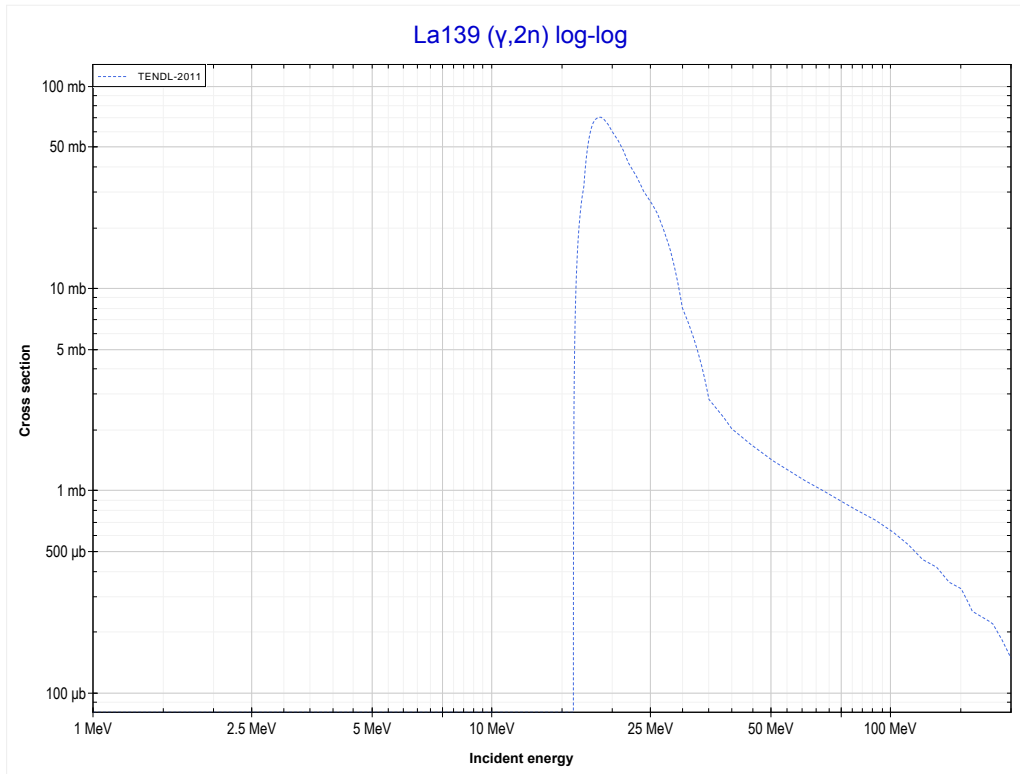
Reaction	Q-Value
Ba138(γ, t)Cs135	-15629.51 keV
Ba138($\gamma, n+d$)Cs135	-21886.74 keV
Ba138($\gamma, 2n+p$)Cs135	-24111.30 keV

<< 56-Ba-138	57-La-139	58-Ce-140 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (La138 production)	MT16 ($\gamma,2n$) >>



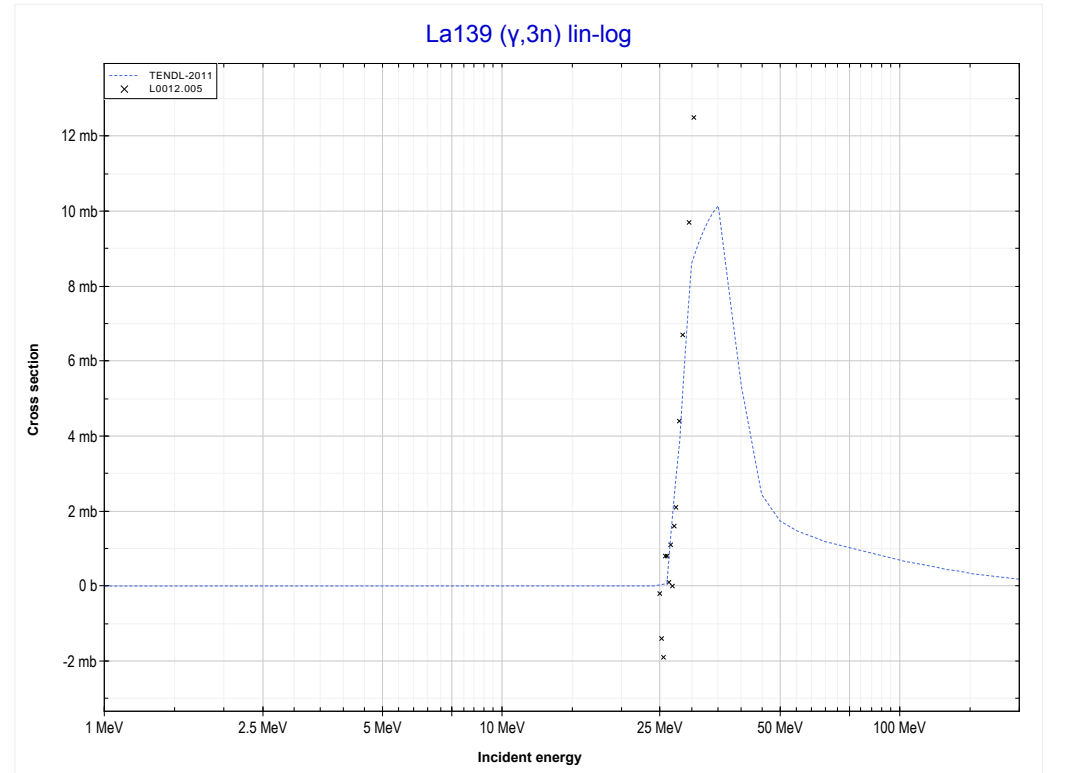
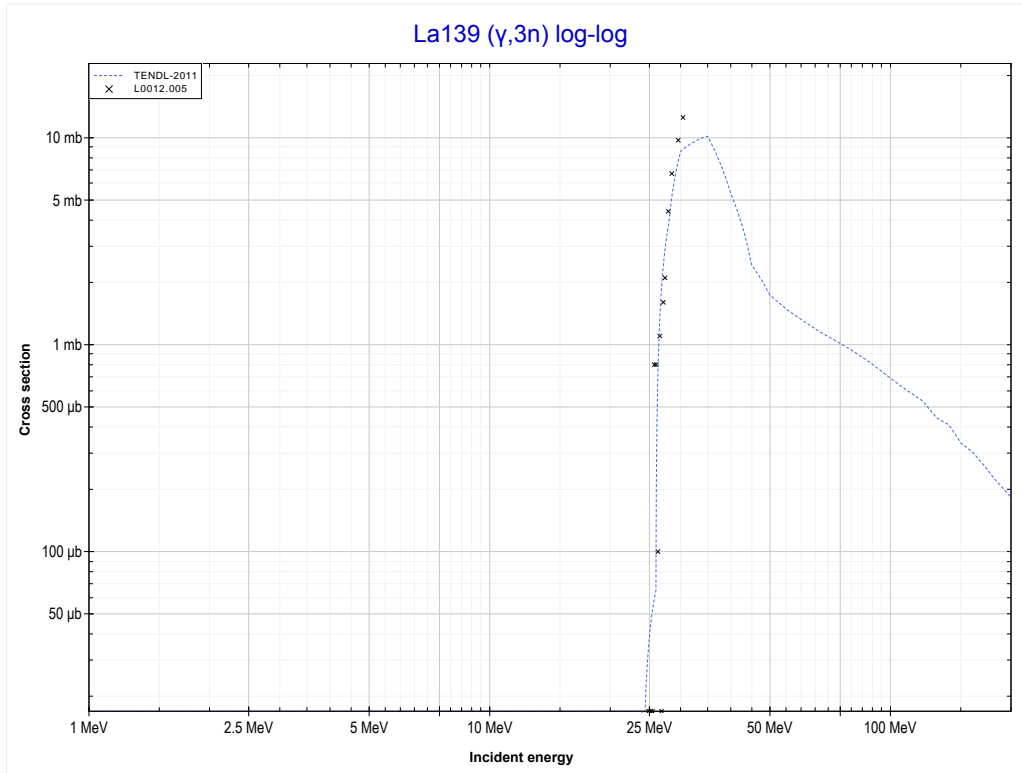
Reaction	Q-Value
La139(γ,n)La138	-8777.72 keV

<< 56-Ba-138	57-La-139	58-Ce-140 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (La137 production)	MT17 ($\gamma,3n$) >>



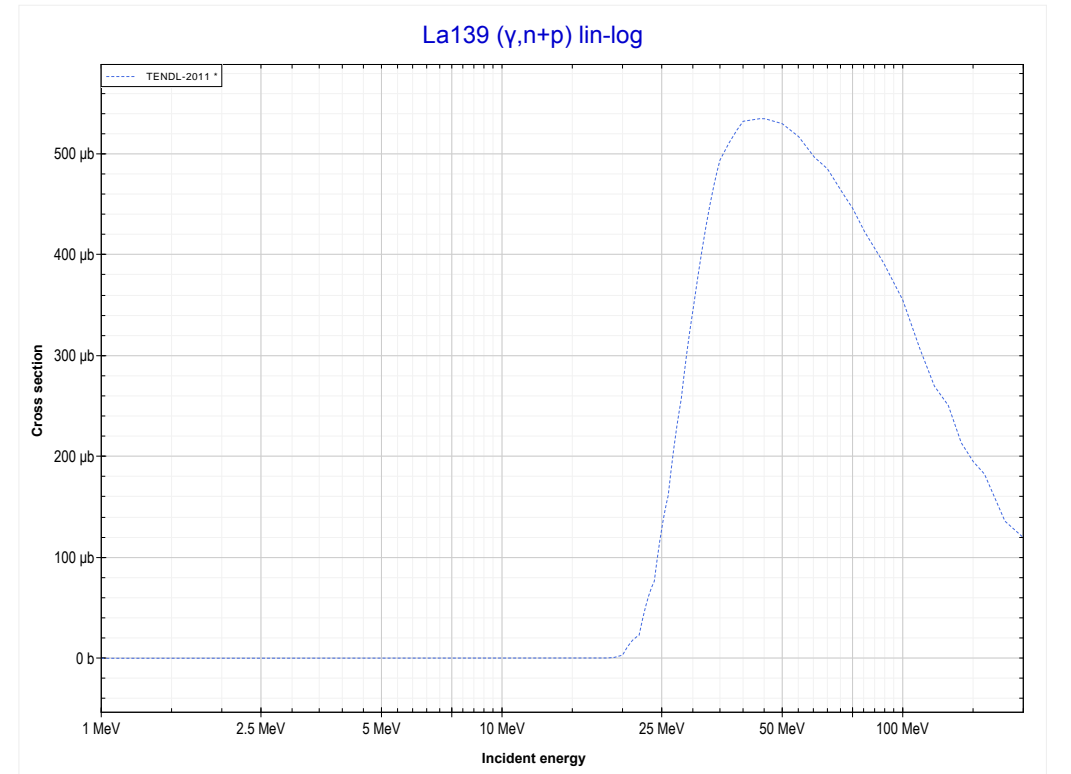
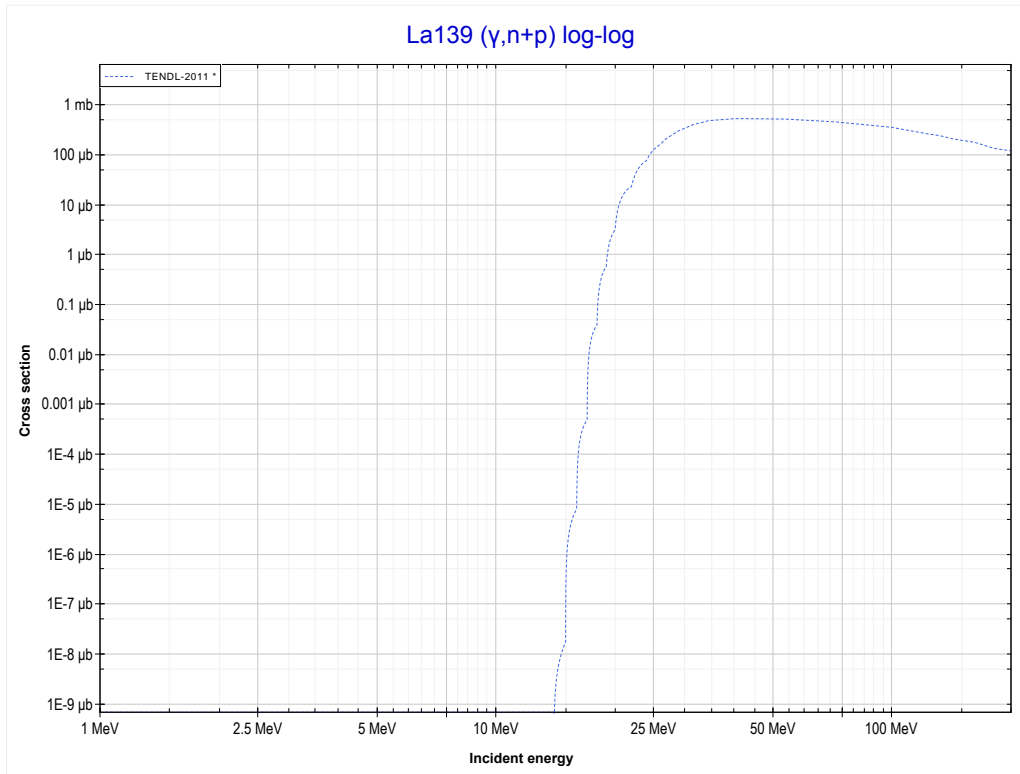
Reaction	Q-Value
La139($\gamma,2n$)La137	-16273.03 keV

<< 56-Ba-138	57-La-139	59-Pr-141 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (La136 production)	MT28 ($\gamma,n+p$) >>



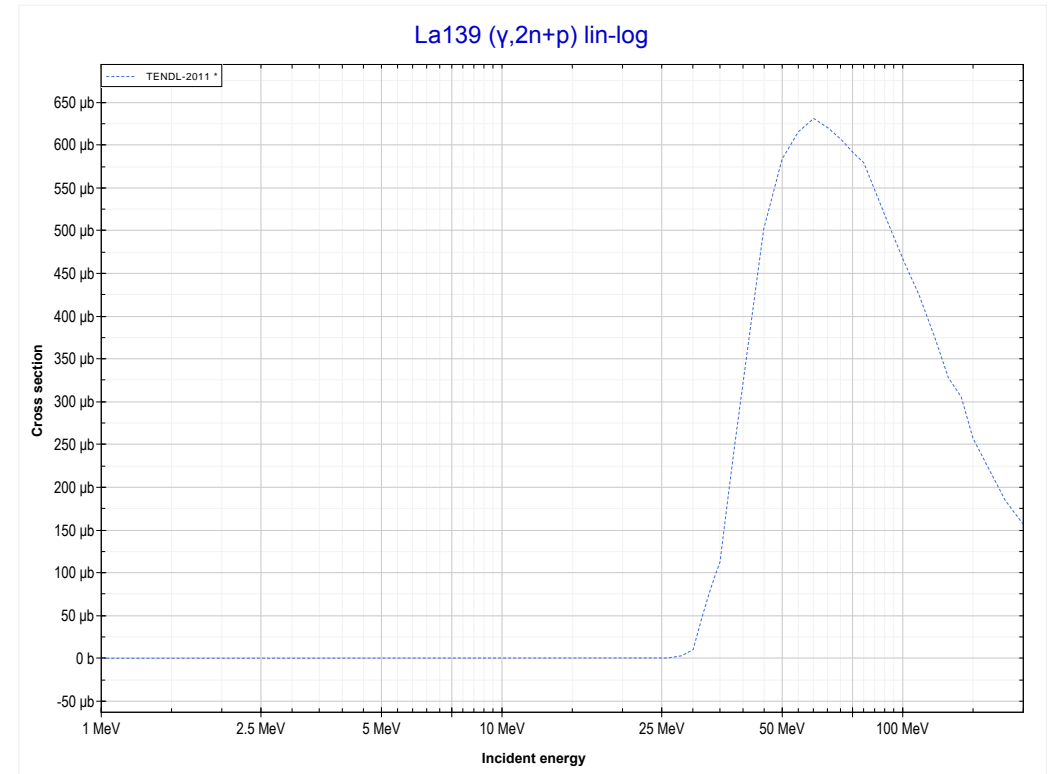
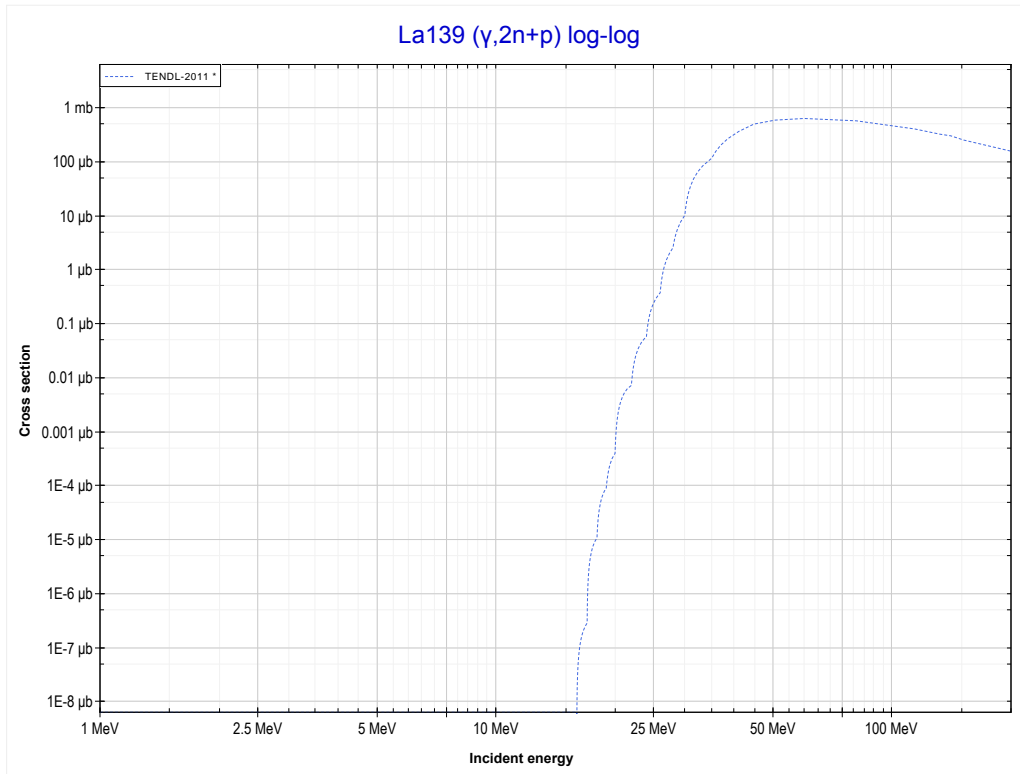
Reaction	Q-Value
La139($\gamma,3n$)La136	-25405.35 keV

<< 56-Ba-138	57-La-139	58-Ce-140 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Ba137 production)	MT41 ($\gamma,2n+p$) >>



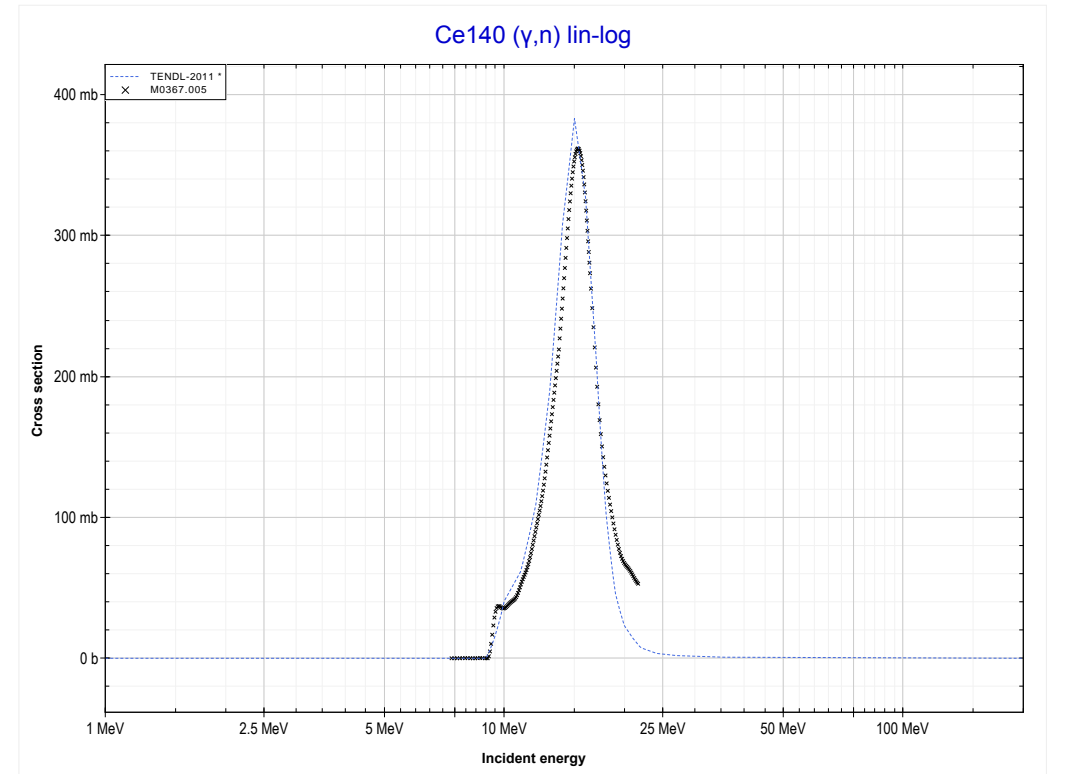
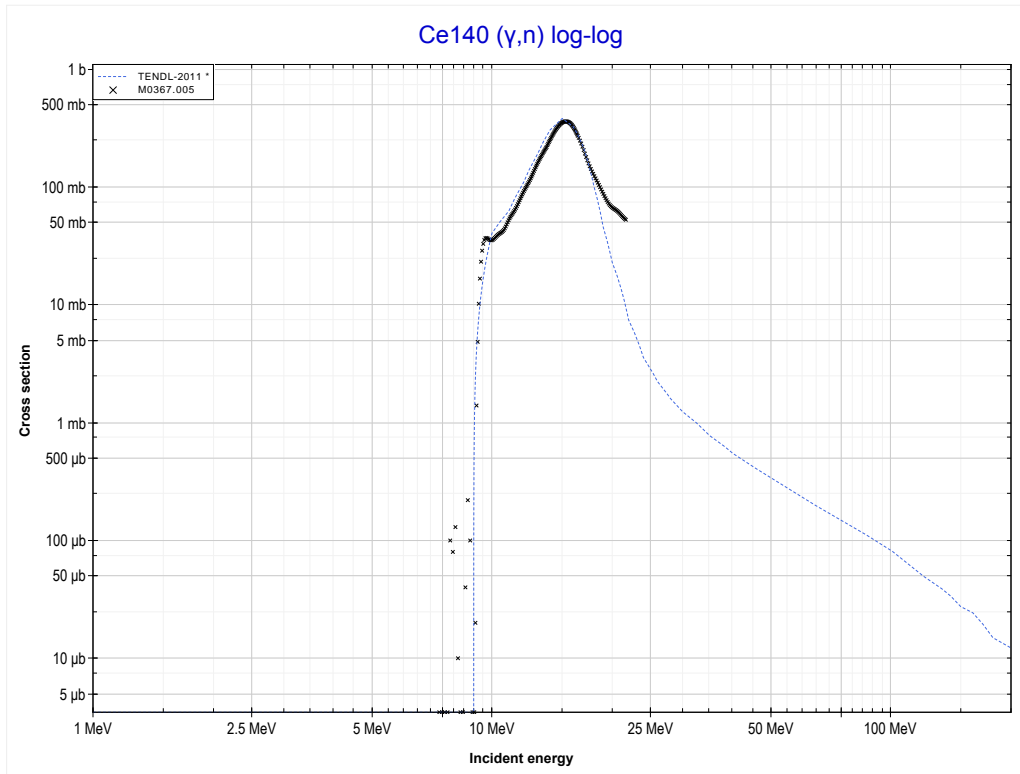
Reaction	Q-Value
La139(γ,d)Ba137	-12645.92 keV
La139($\gamma,n+p$)Ba137	-14870.49 keV

<< 56-Ba-138	57-La-139	58-Ce-140 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ba136 production)	MT4 (γ, n) >>



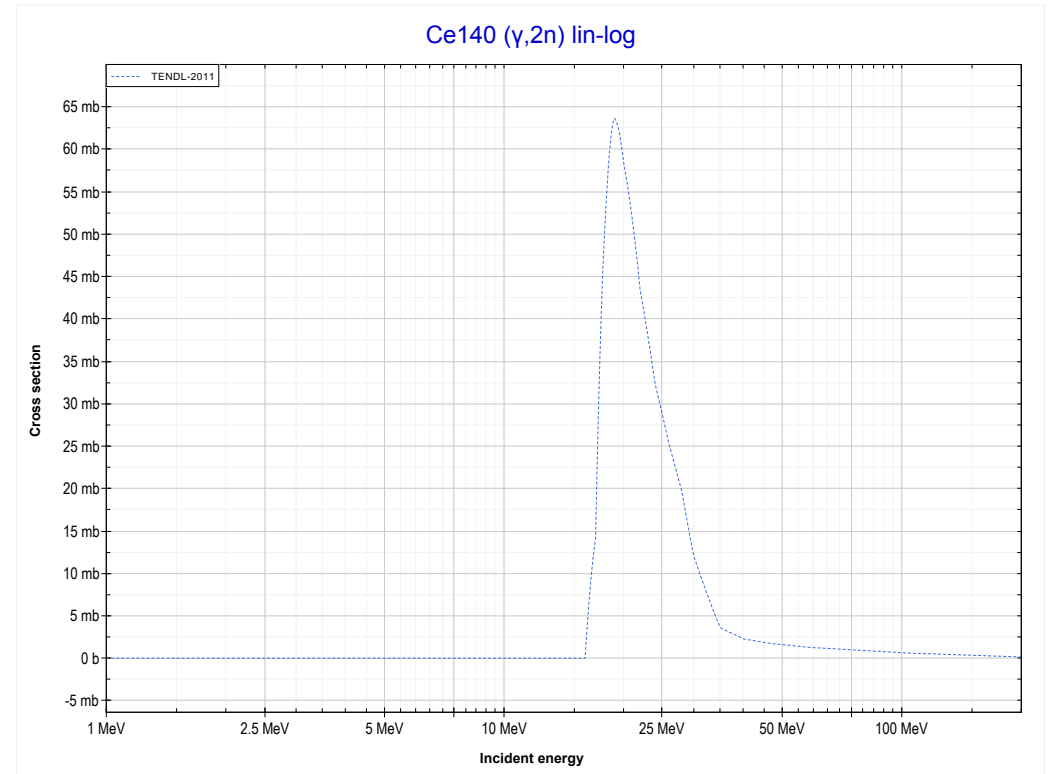
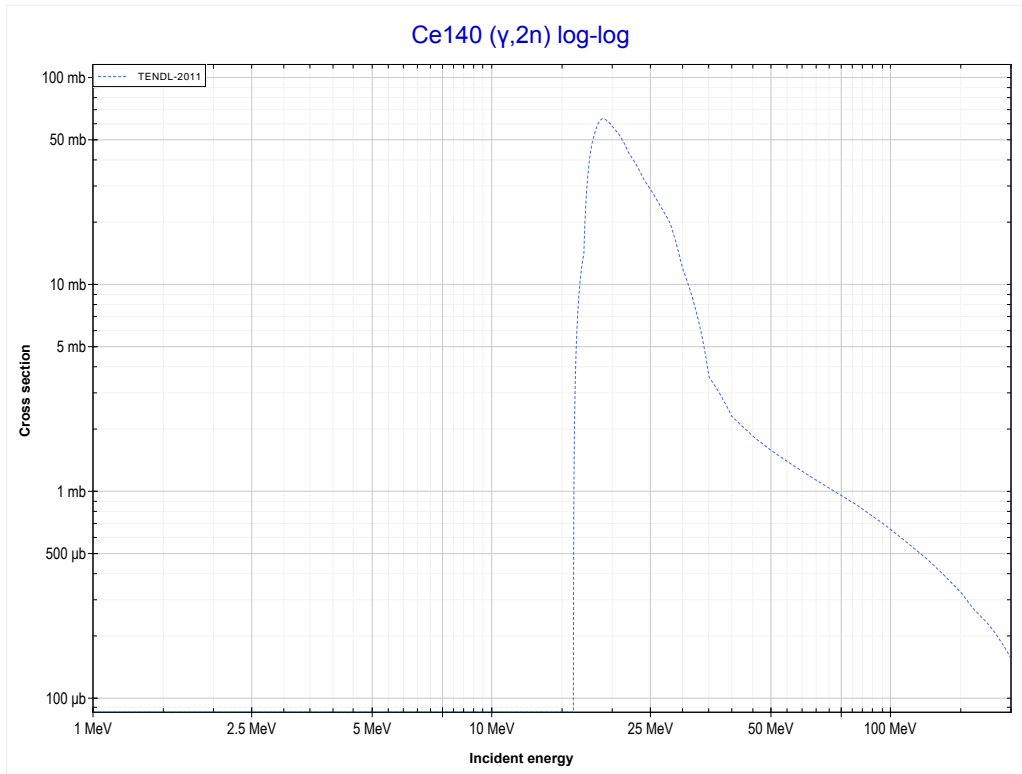
Reaction	Q-Value
La139(γ, t)Ba136	-13294.31 keV
La139($\gamma, n+d$)Ba136	-19551.54 keV
La139($\gamma, 2n+p$)Ba136	-21776.10 keV

<< 57-La-139	58-Ce-140	58-Ce-142 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Ce139 production)	MT16 ($\gamma,2n$) >>



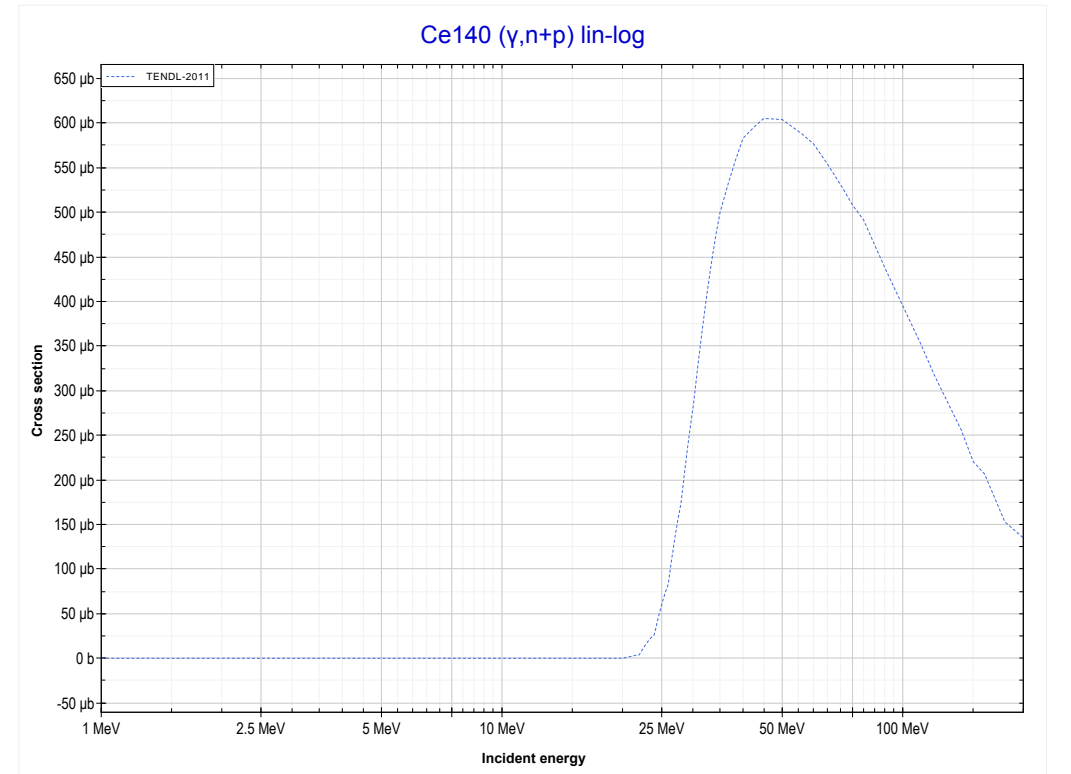
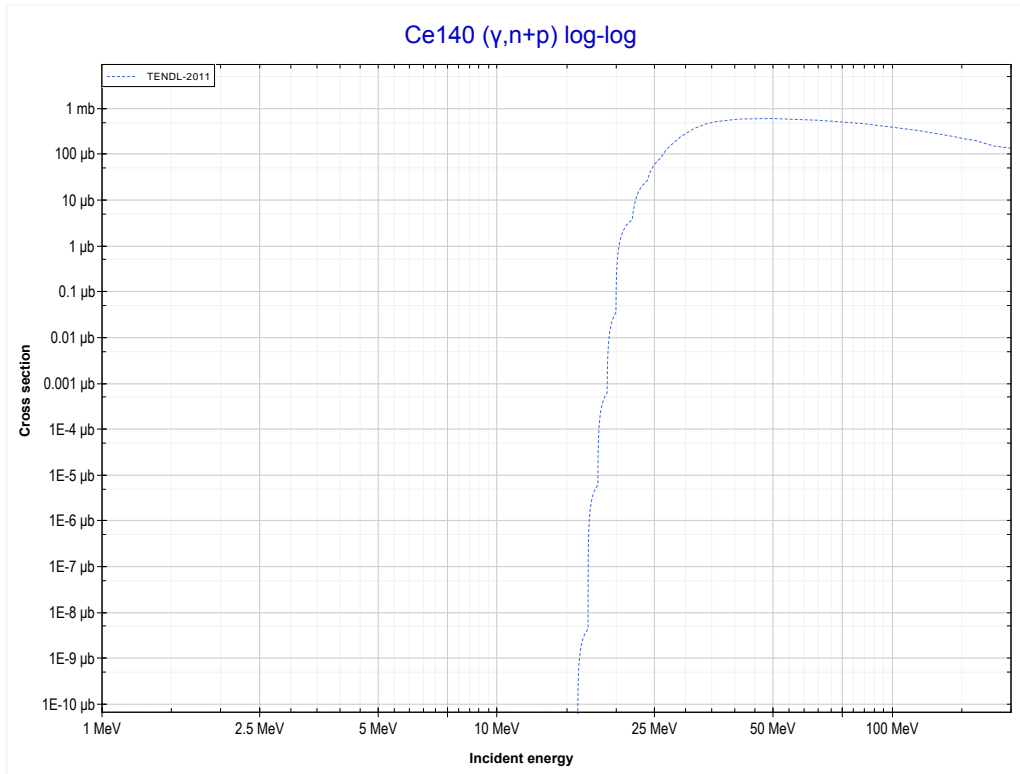
Reaction	Q-Value
Ce140(γ,n)Ce139	-9202.62 keV

<< 57-La-139	58-Ce-140	58-Ce-142 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ce138 production)	MT28 ($\gamma,n+p$) >>



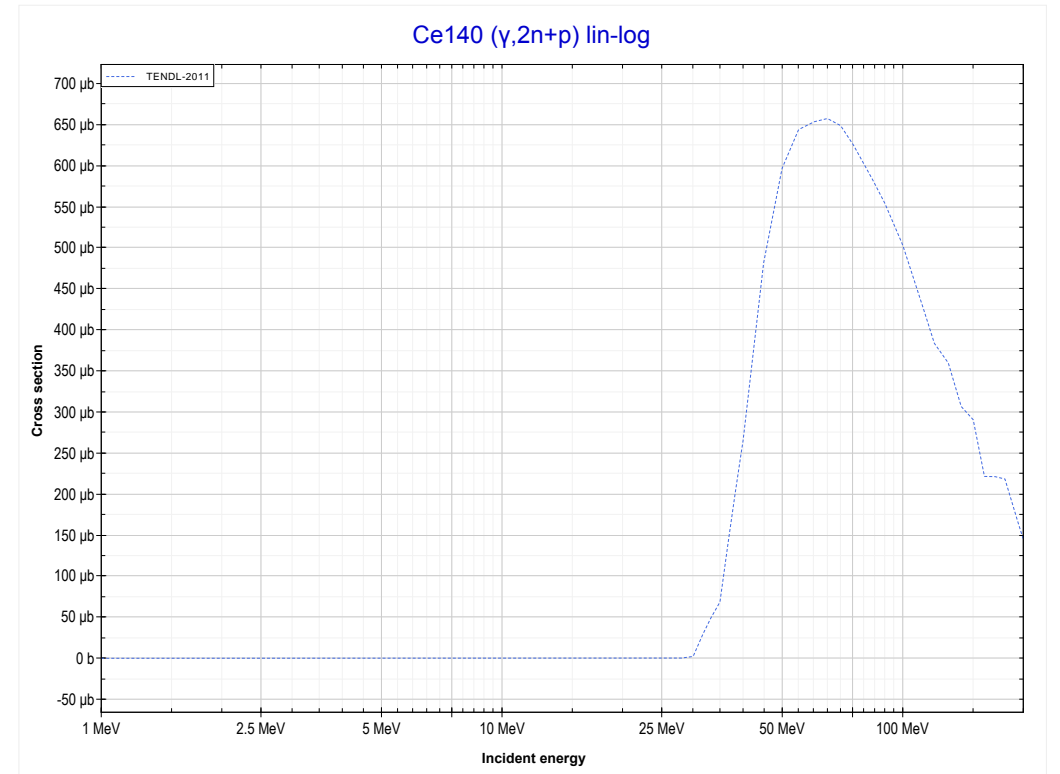
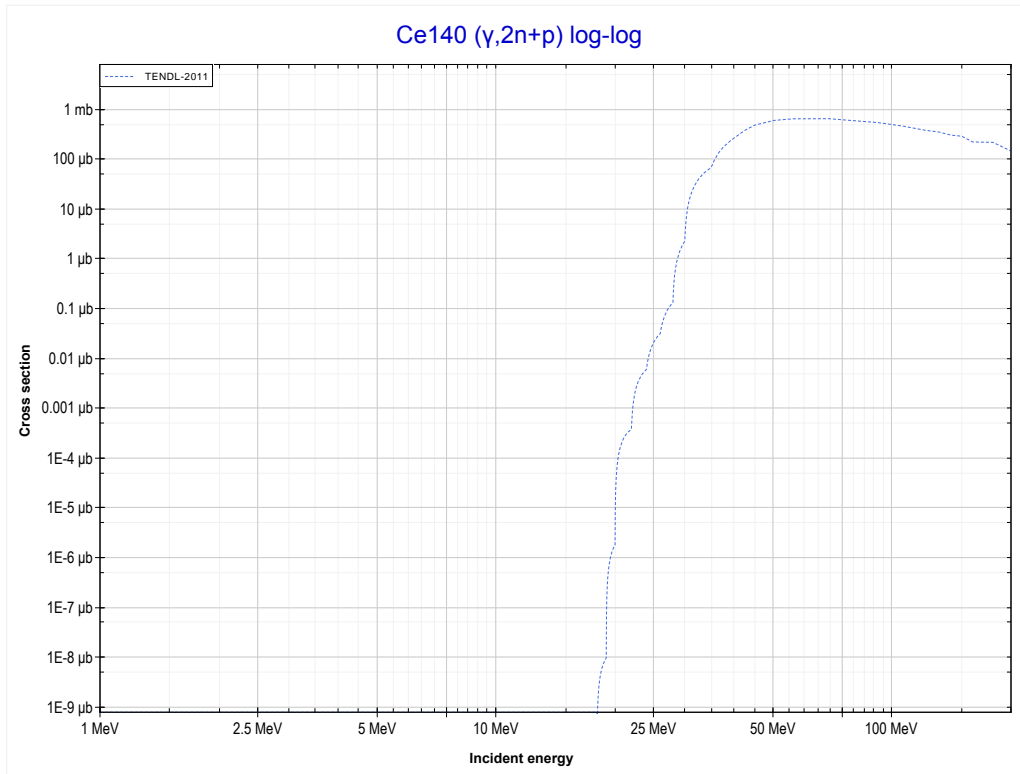
Reaction	Q-Value
Ce140($\gamma,2n$)Ce138	-16656.93 keV

<< 57-La-139	58-Ce-140	58-Ce-142 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (La138 production)	MT41 ($\gamma,2n+p$) >>



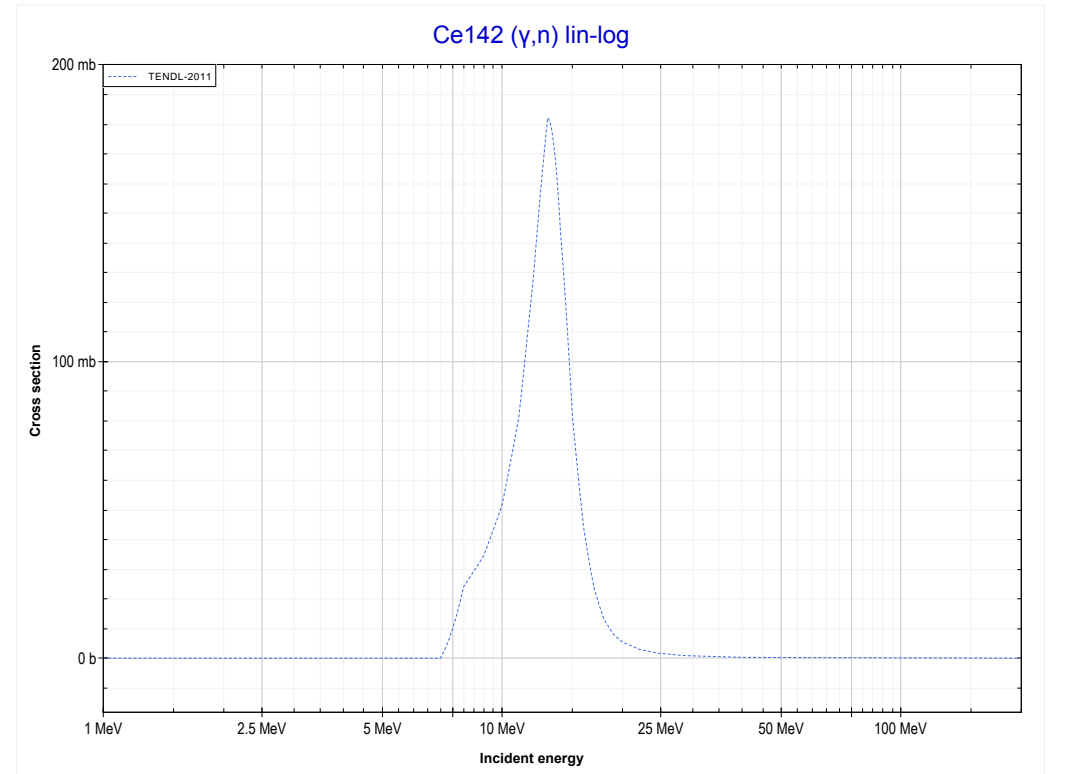
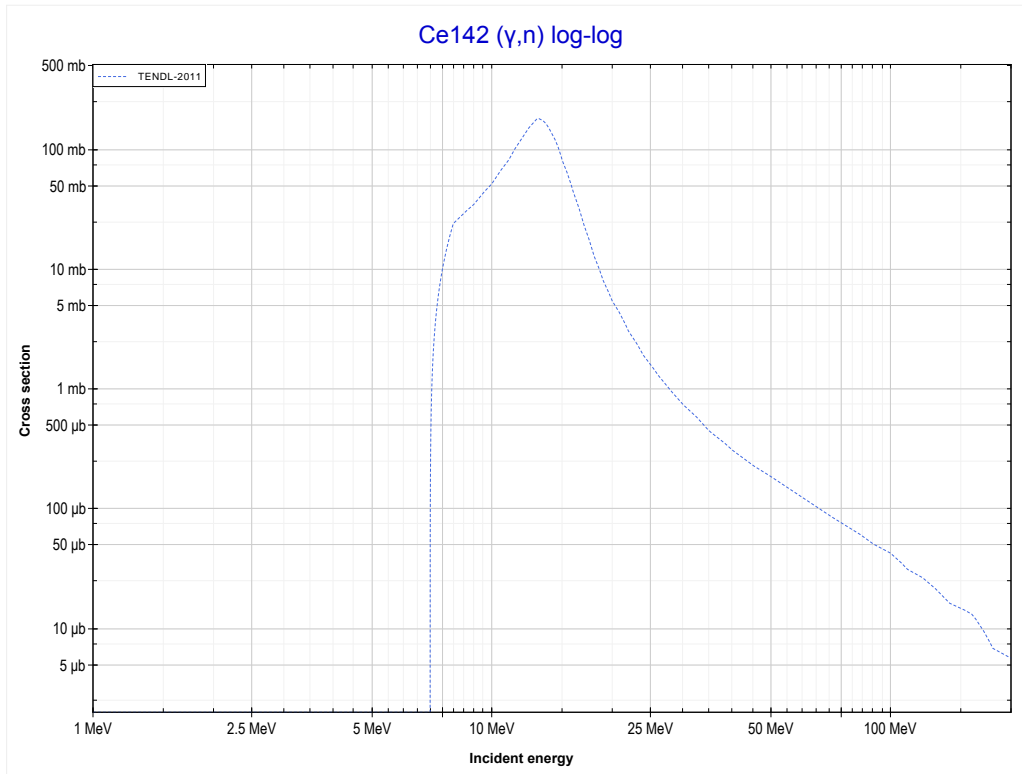
Reaction	Q-Value
Ce140(γ,d)La138	-14694.02 keV
Ce140($\gamma,n+p$)La138	-16918.59 keV

<< 57-La-139	58-Ce-140	58-Ce-142 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (La137 production)	MT4 (γ, n) >>



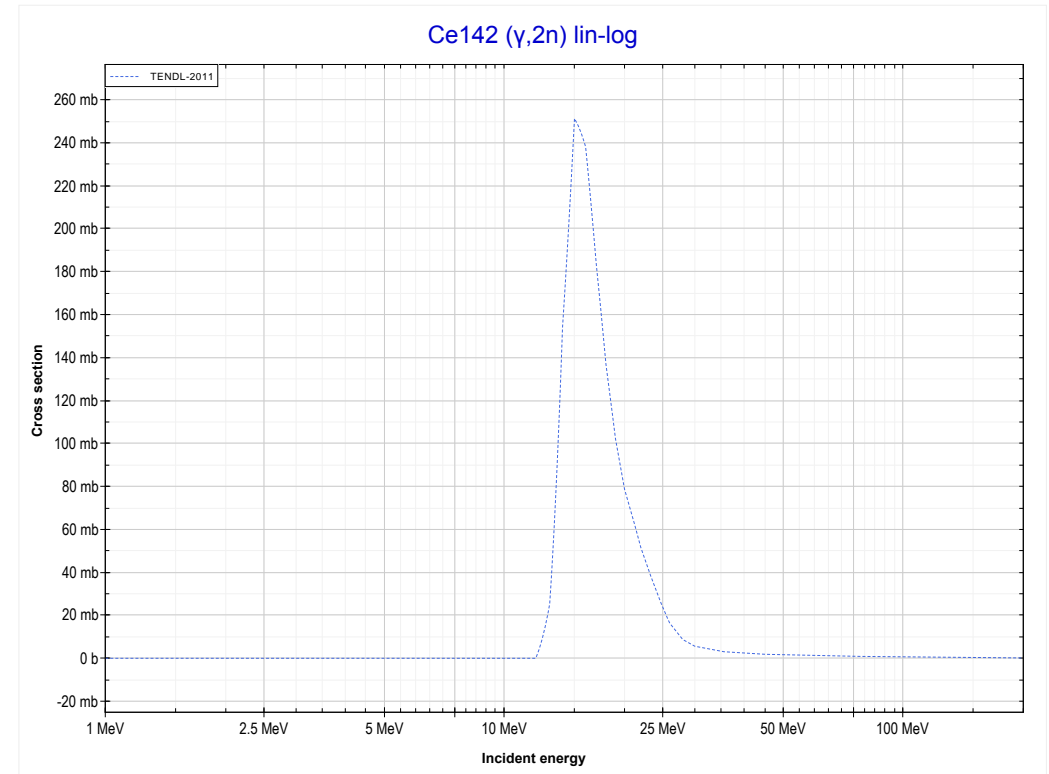
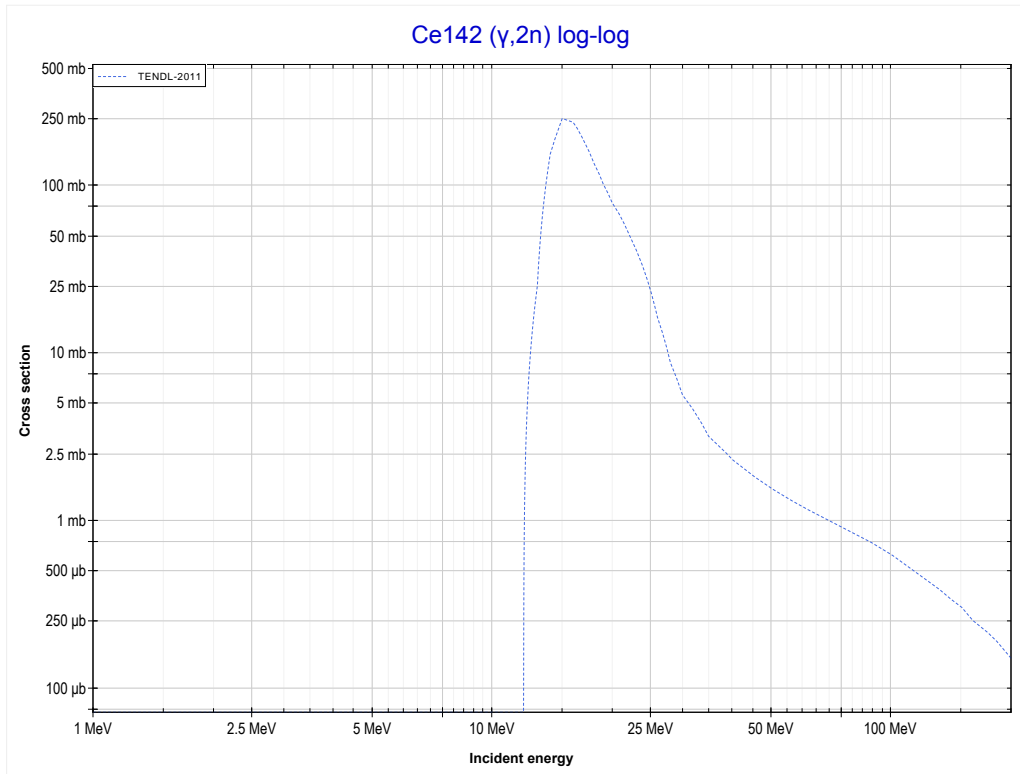
Reaction	Q-Value
Ce140(γ, t)La137	-15932.11 keV
Ce140($\gamma, n+d$)La137	-22189.34 keV
Ce140($\gamma, 2n+p$)La137	-24413.90 keV

<< 58-Ce-140	58-Ce-142	59-Pr-141 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Ce141 production)	MT16 ($\gamma,2n$) >>



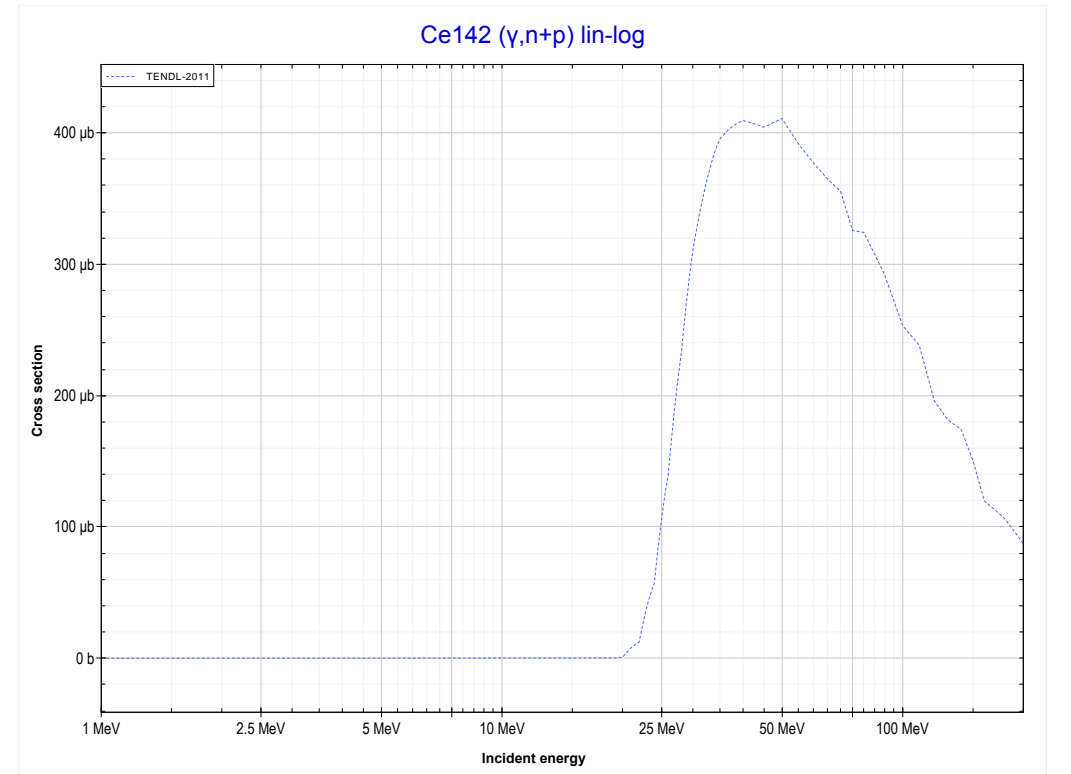
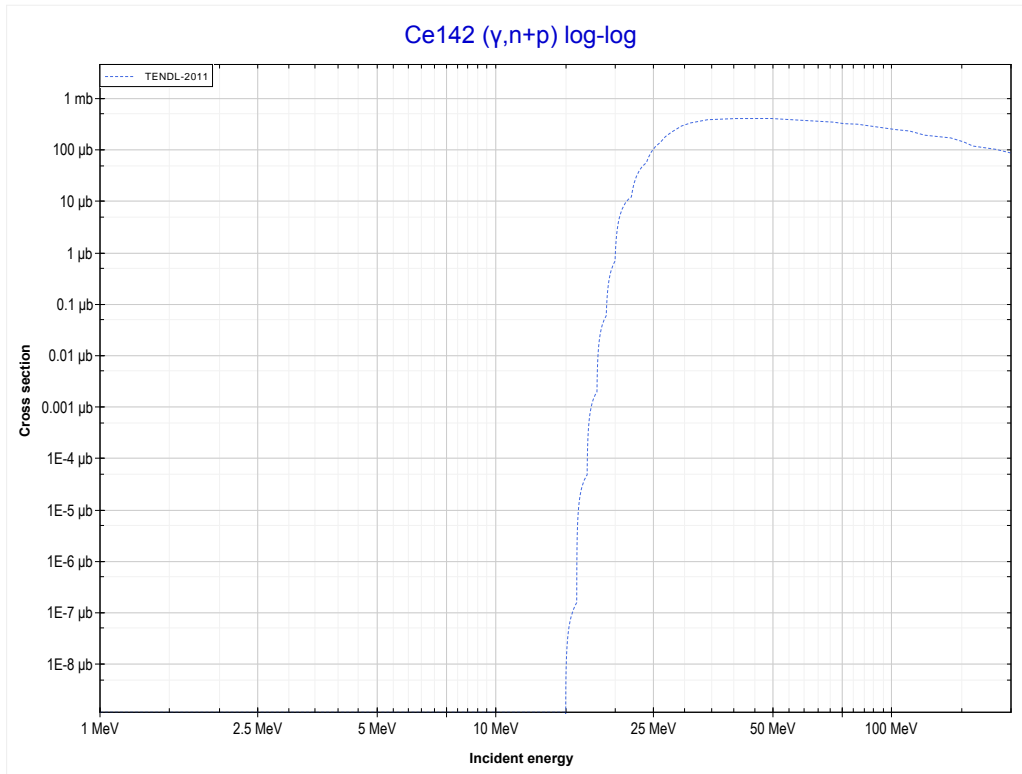
Reaction	Q-Value
Ce142(γ,n)Ce141	-7169.72 keV

<< 58-Ce-140	58-Ce-142	59-Pr-141 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ce140 production)	MT28 ($\gamma,n+p$) >>



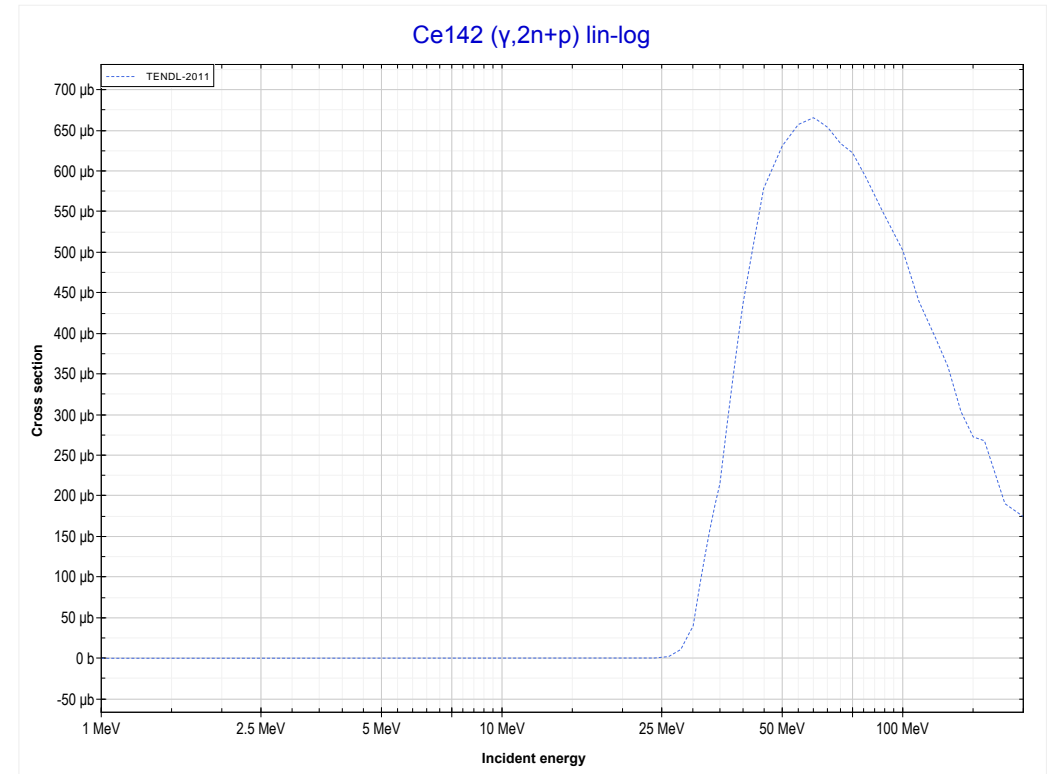
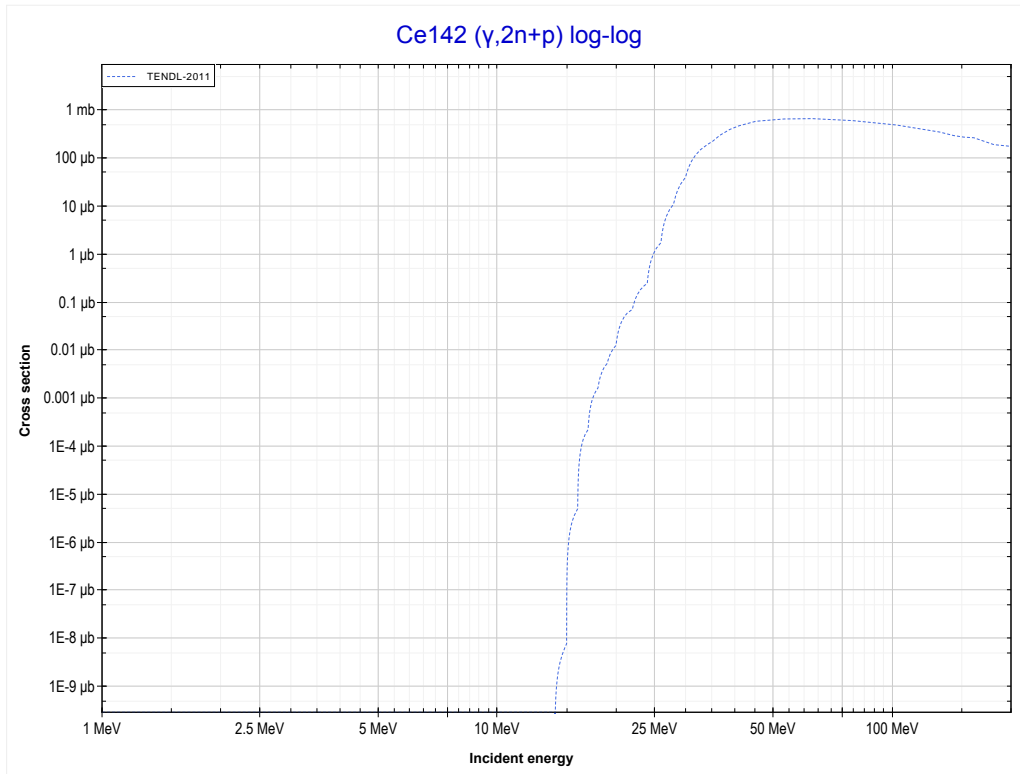
Reaction	Q-Value
Ce142($\gamma,2n$)Ce140	-12597.83 keV

<< 58-Ce-140	58-Ce-142	59-Pr-141 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (La140 production)	MT41 ($\gamma,2n+p$) >>



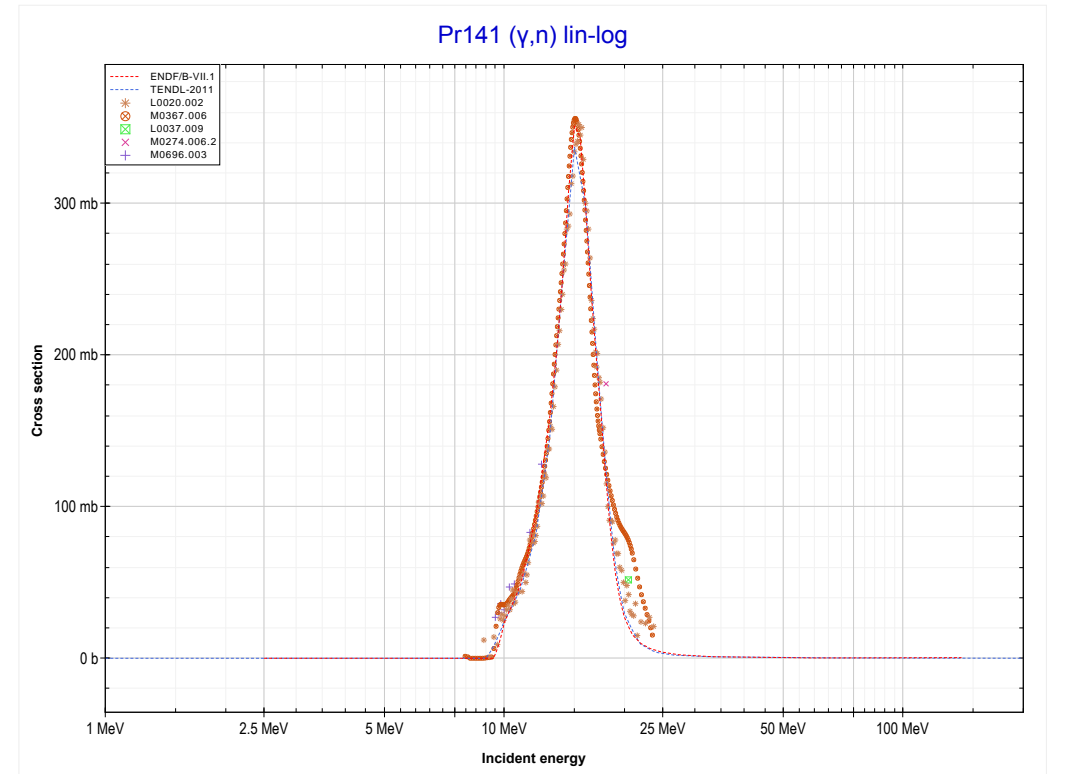
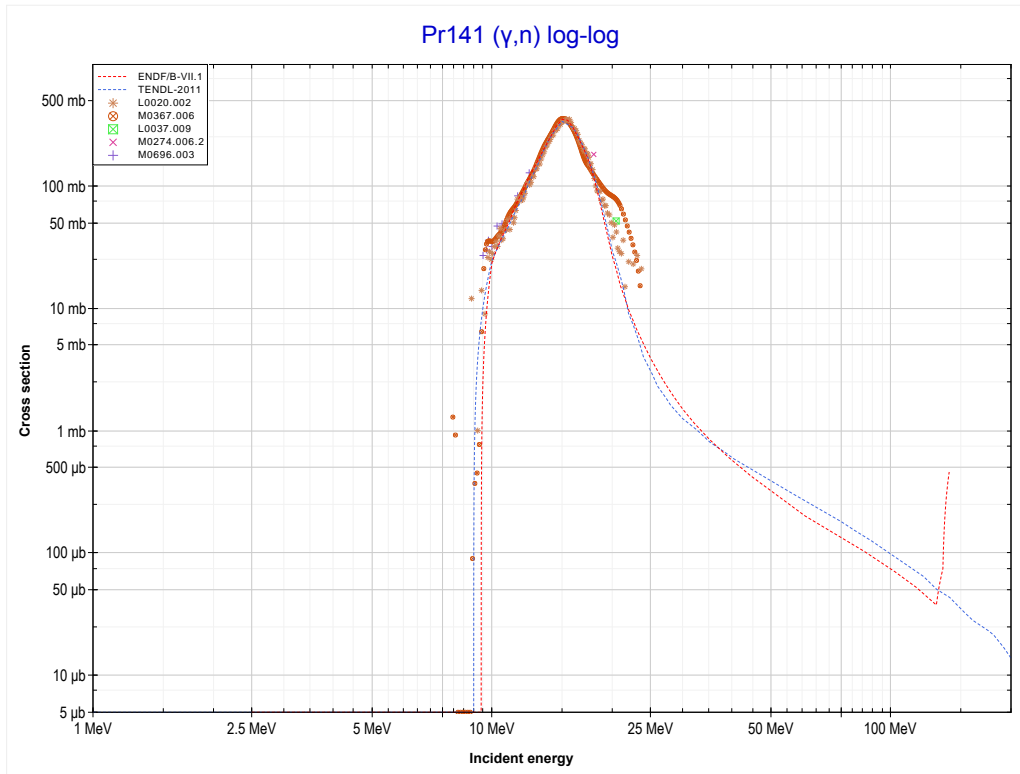
Reaction	Q-Value
Ce142(γ,d)La140	-13353.22 keV
Ce142($\gamma,n+p$)La140	-15577.79 keV

<< 58-Ce-140	58-Ce-142	59-Pr-141 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (La139 production)	MT4 (γ, n) >>



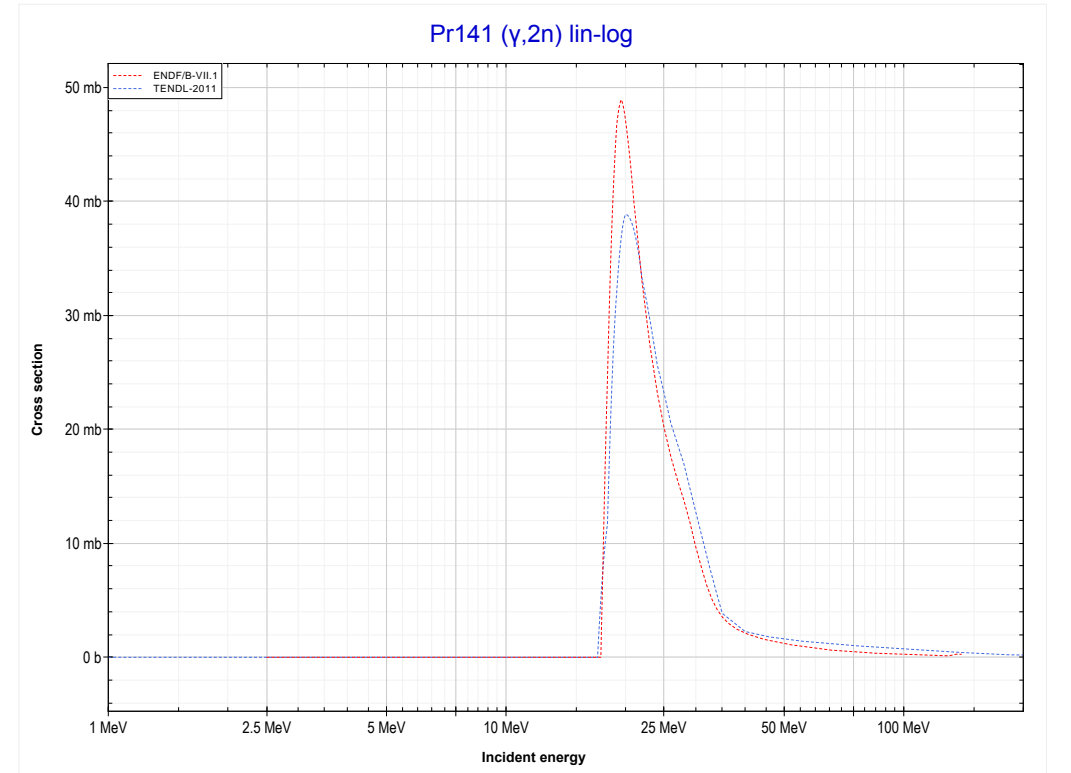
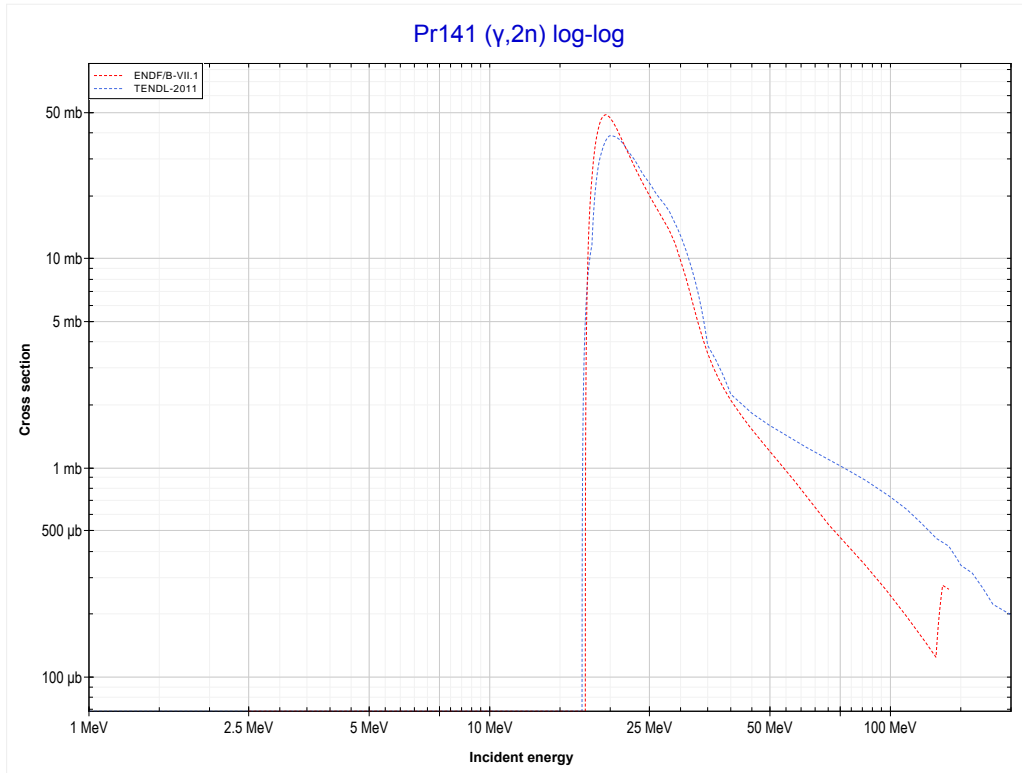
Reaction	Q-Value
Ce142(γ, t)La139	-12256.91 keV
Ce142($\gamma, n+d$)La139	-18514.14 keV
Ce142($\gamma, 2n+p$)La139	-20738.70 keV

<< 58-Ce-142	59-Pr-141	60-Nd-142 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Pr140 production)	MT16 ($\gamma,2n$) >>



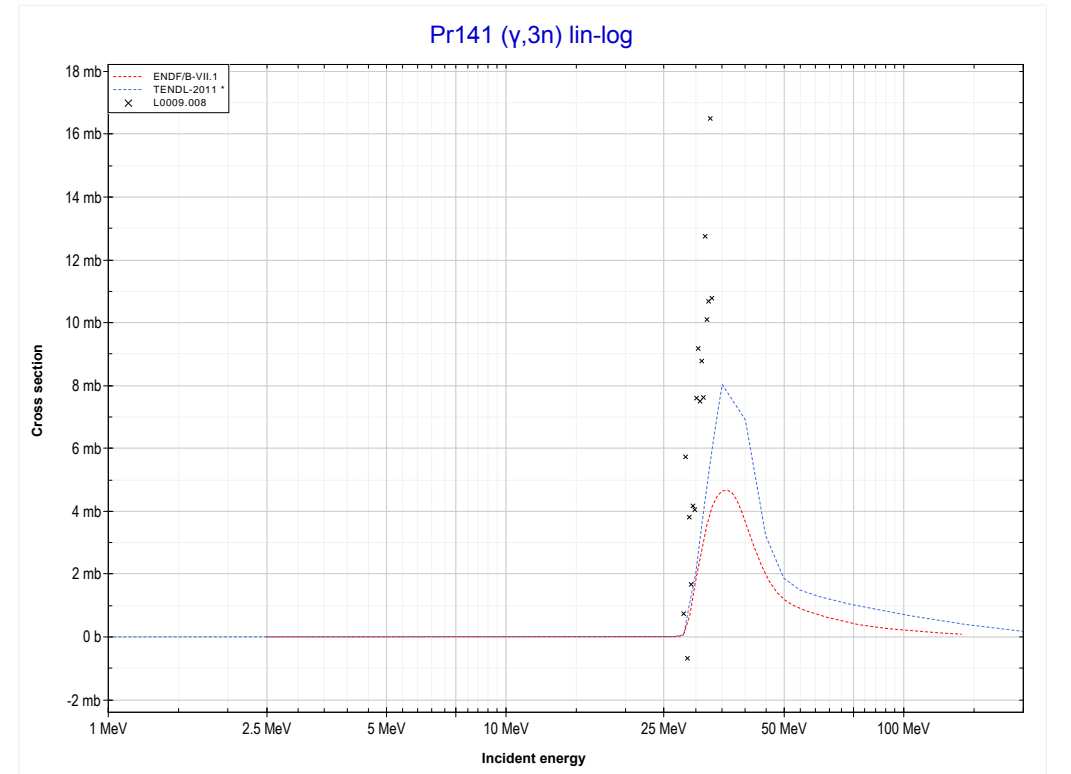
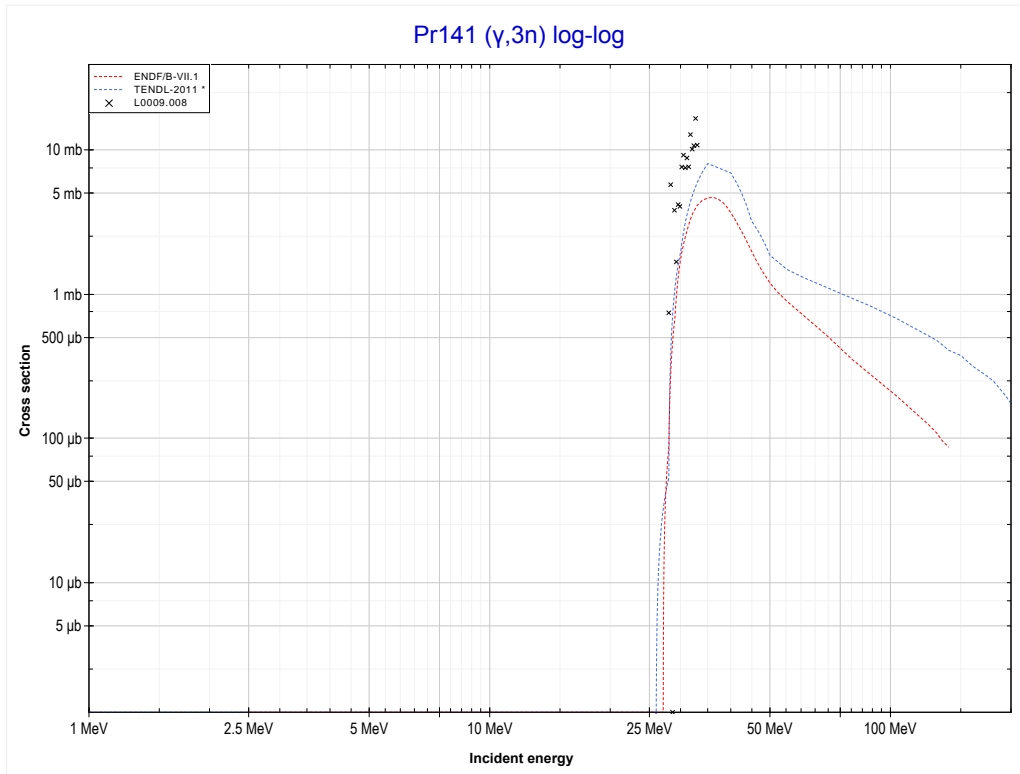
Reaction	Q-Value
Pr141(γ,n)Pr140	-9397.22 keV

<< 58-Ce-142	59-Pr-141	60-Nd-142 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Pr139 production)	MT17 ($\gamma, 3n$) >>



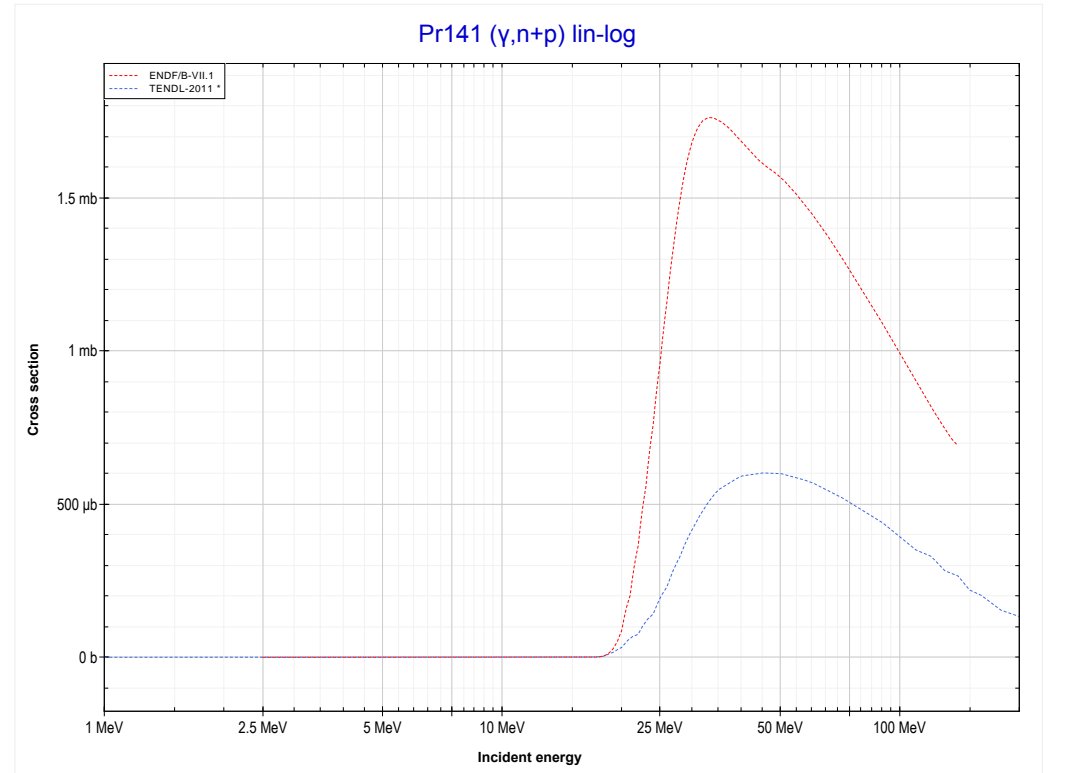
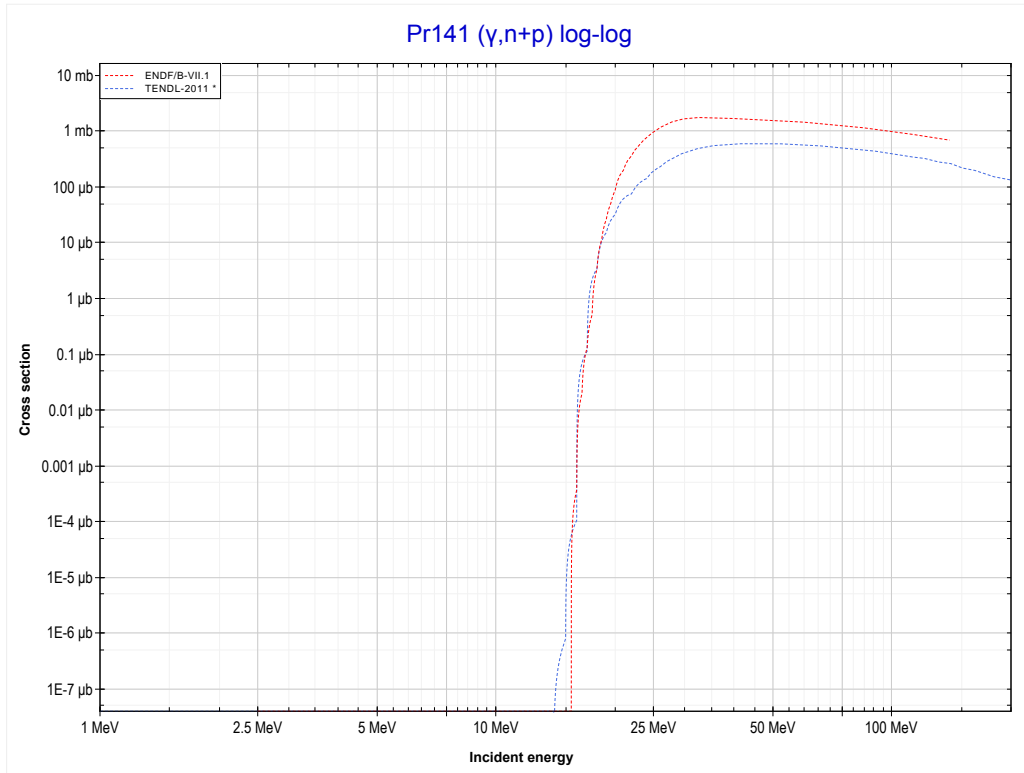
Reaction	Q-Value
Pr141($\gamma, 2n$)Pr139	-17340.53 keV

<< 57-La-139	59-Pr-141	63-Eu-153 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Pr138 production)	MT28 ($\gamma,n+p$) >>



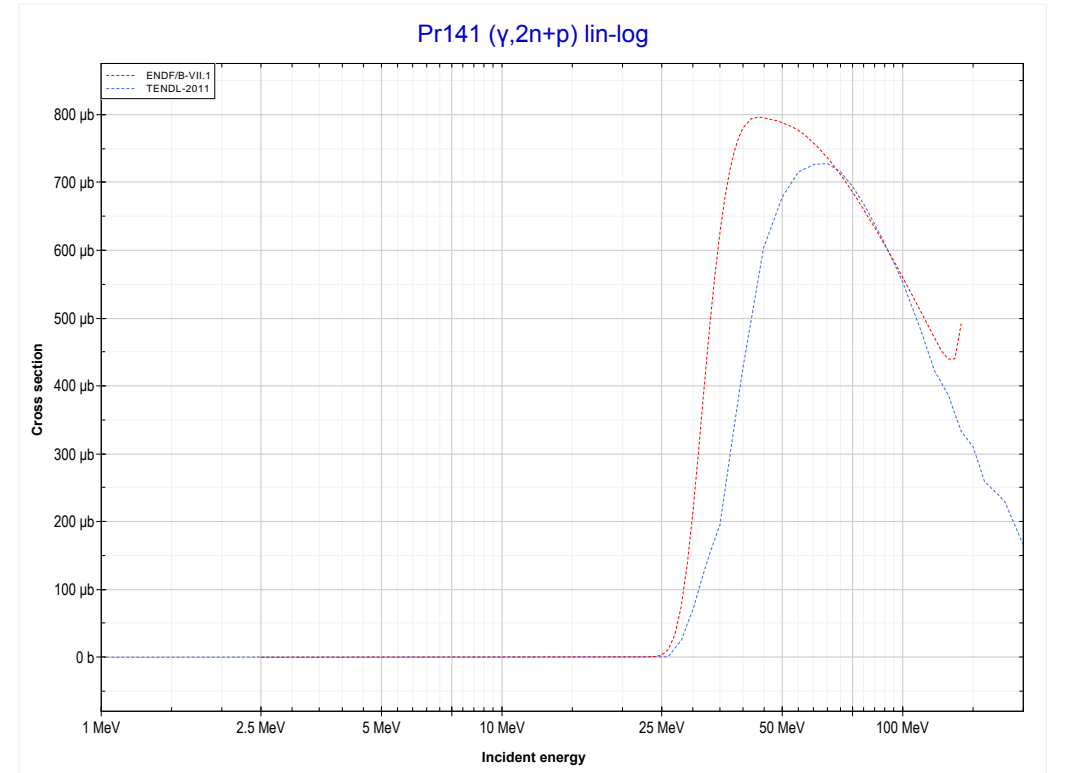
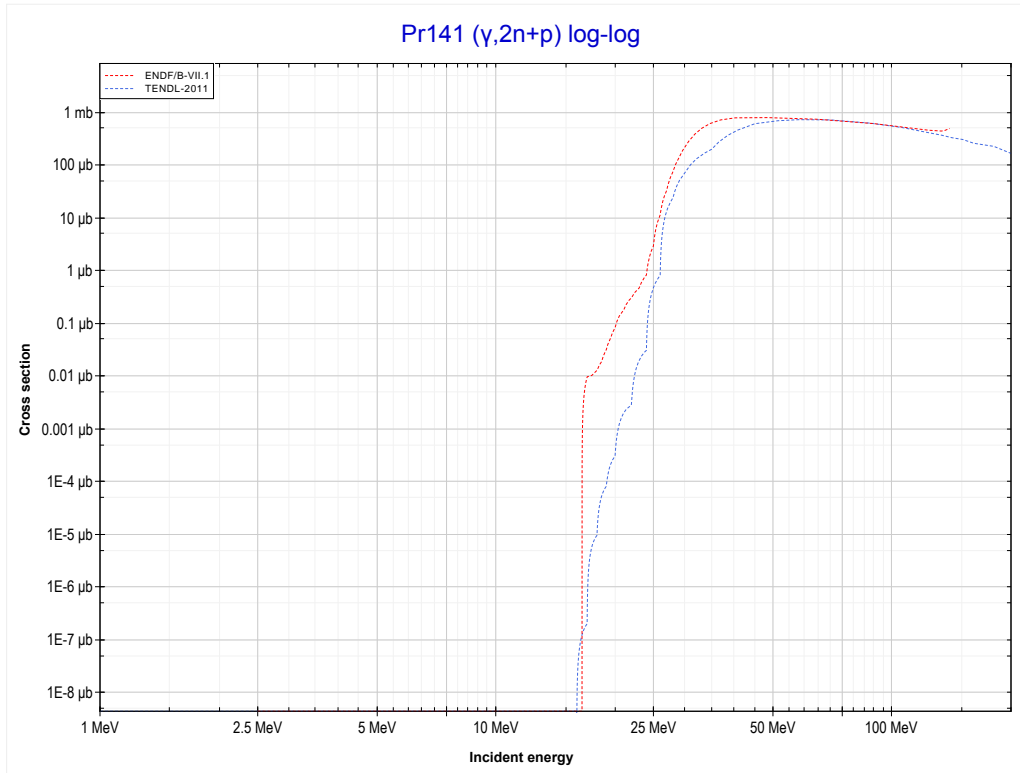
Reaction	Q-Value
Pr141($\gamma,3n$)Pr138	-27102.85 keV

<< 58-Ce-142	59-Pr-141	60-Nd-142 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Ce139 production)	MT41 ($\gamma,2n+p$) >>



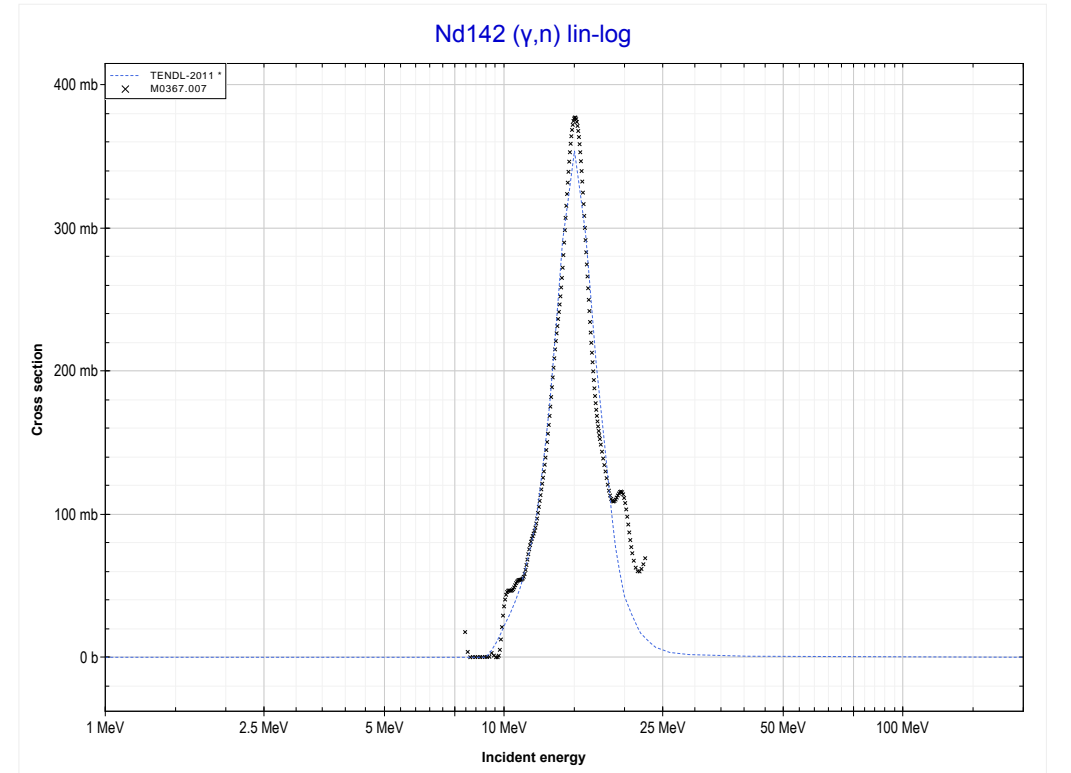
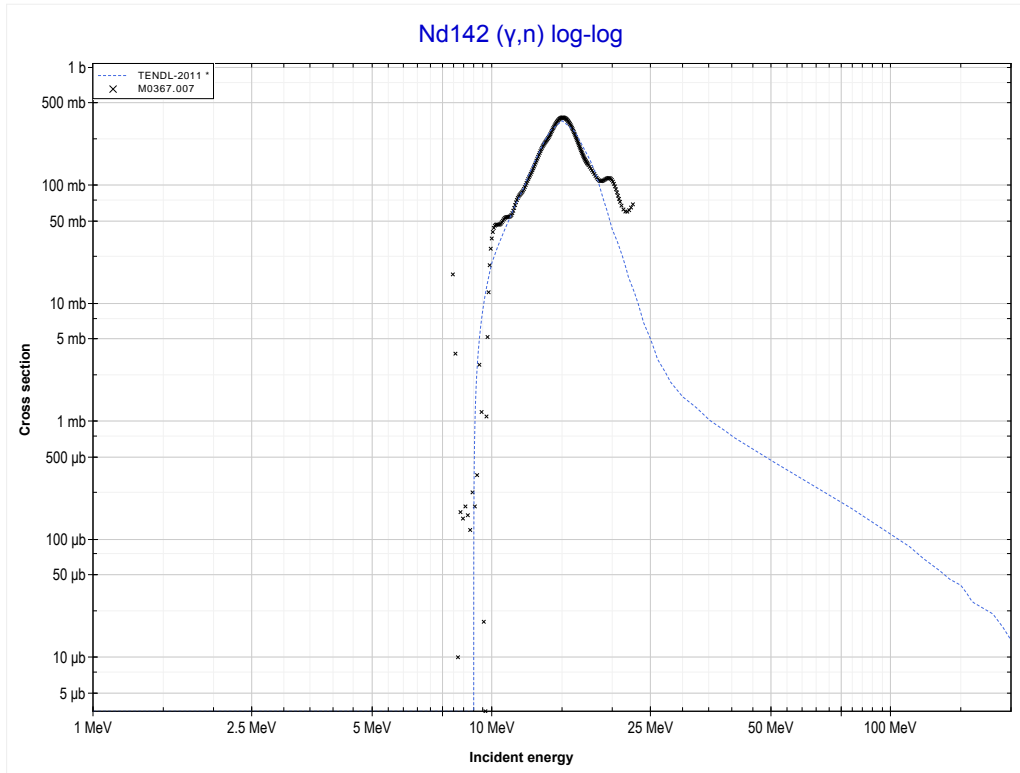
Reaction	Q-Value
Pr141(γ,d)Ce139	-12204.62 keV
Pr141($\gamma,n+p$)Ce139	-14429.19 keV

<< 58-Ce-142	59-Pr-141	63-Eu-153 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ce138 production)	MT4 (γ, n) >>



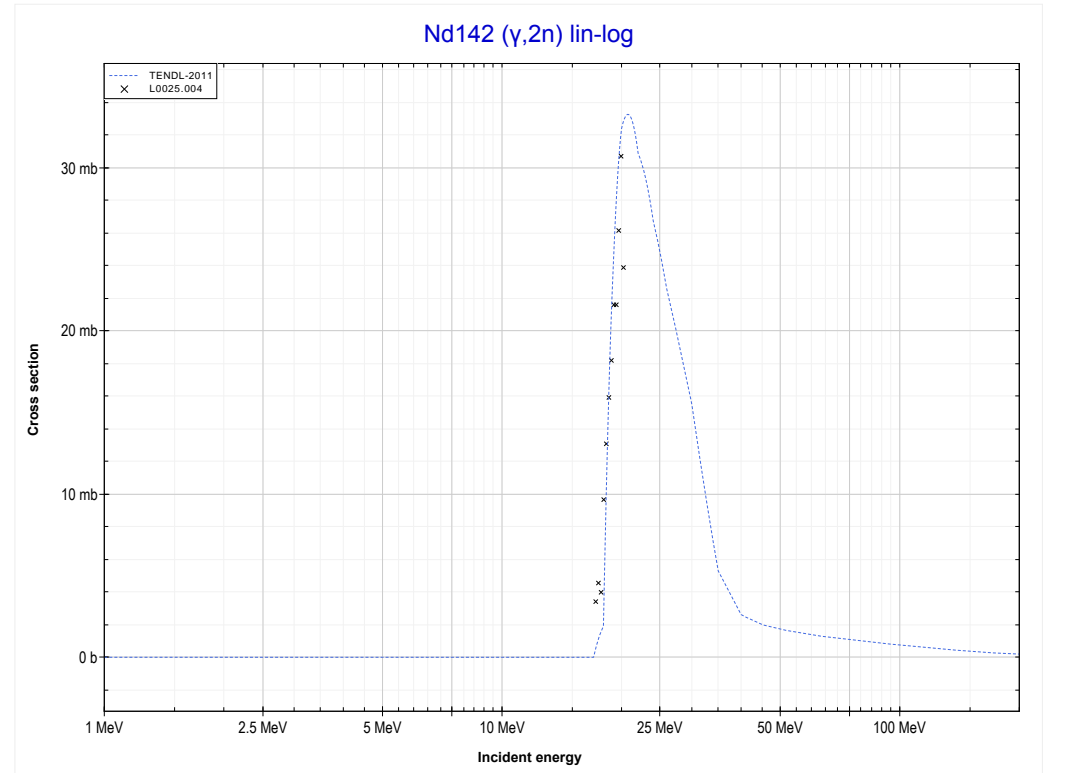
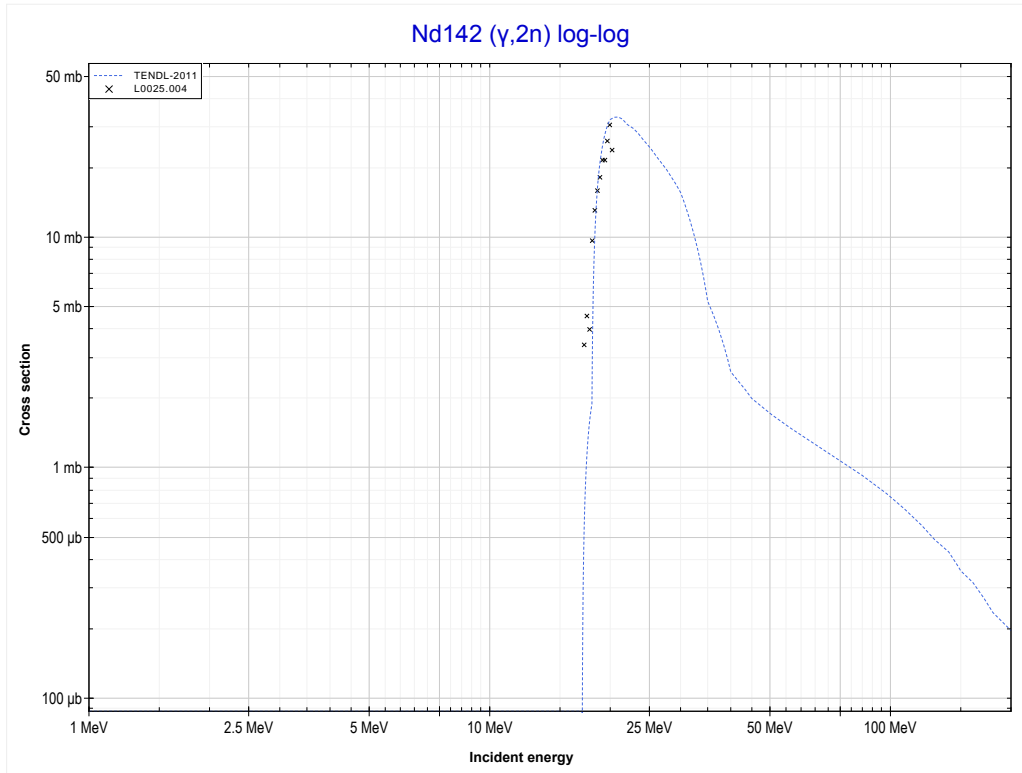
Reaction	Q-Value
Pr141(γ, t)Ce138	-13401.71 keV
Pr141($\gamma, n+d$)Ce138	-19658.94 keV
Pr141($\gamma, 2n+p$)Ce138	-21883.50 keV

<< 59-Pr-141	60-Nd-142	60-Nd-143 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Nd141 production)	MT16 ($\gamma, 2n$) >>



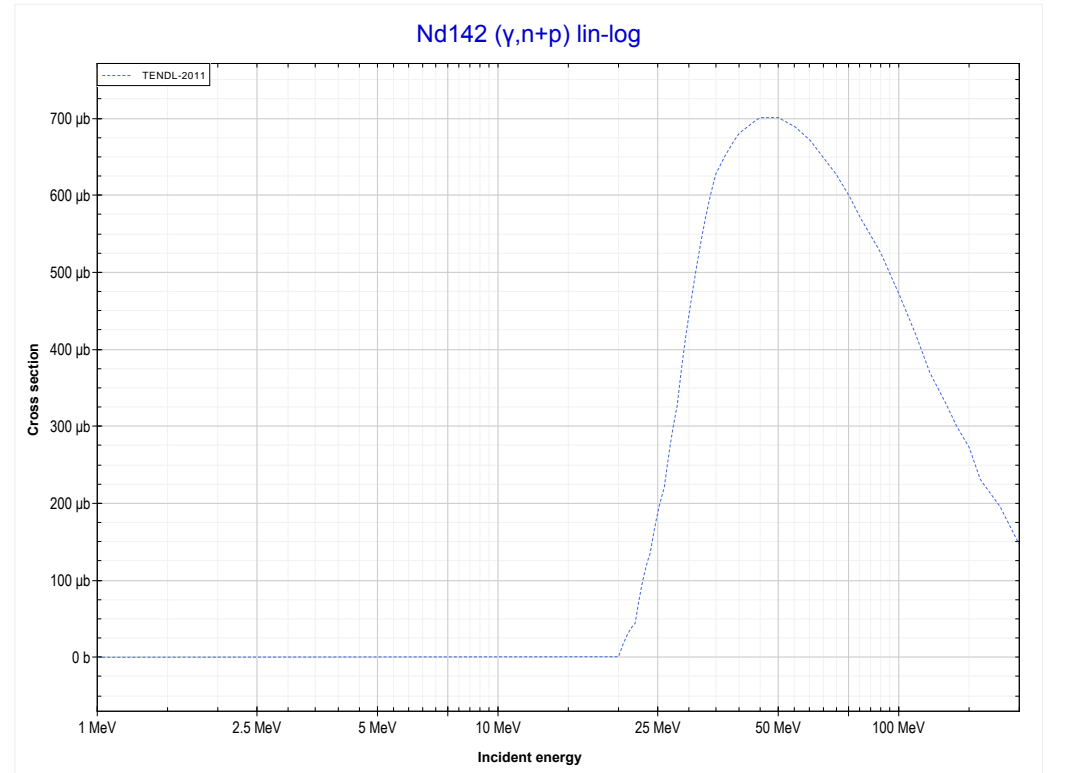
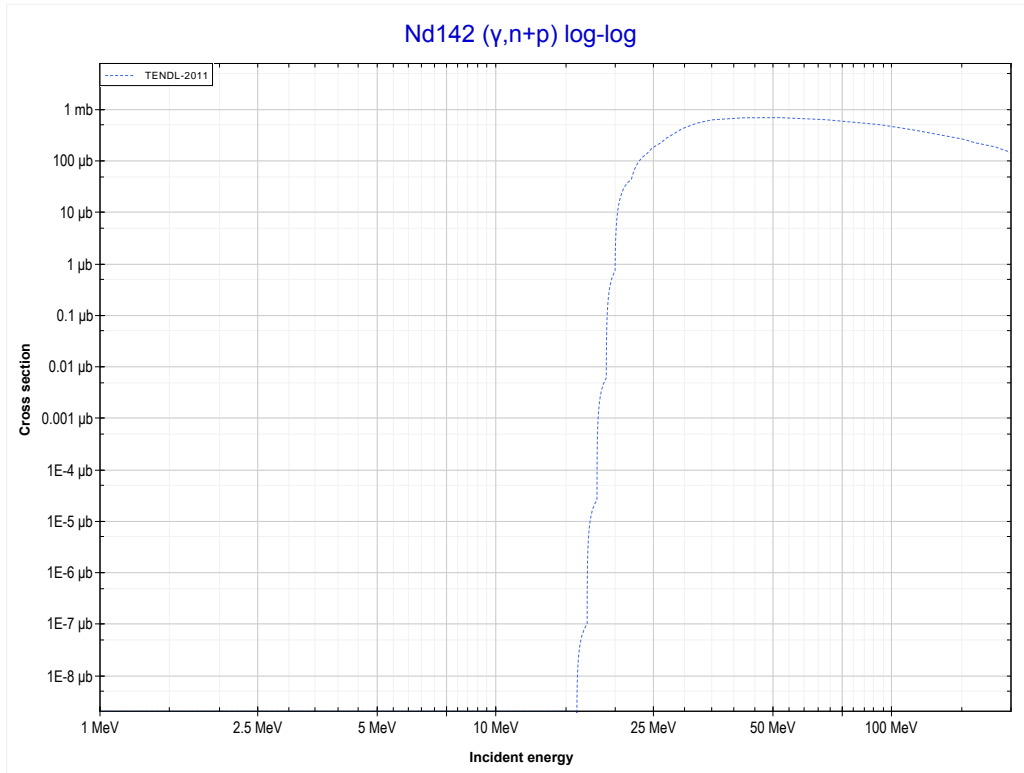
Reaction	Q-Value
Nd142(γ, n)Nd141	-9828.52 keV

<< 59-Pr-141	60-Nd-142	60-Nd-143 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Nd140 production)	MT28 ($\gamma, n+p$) >>



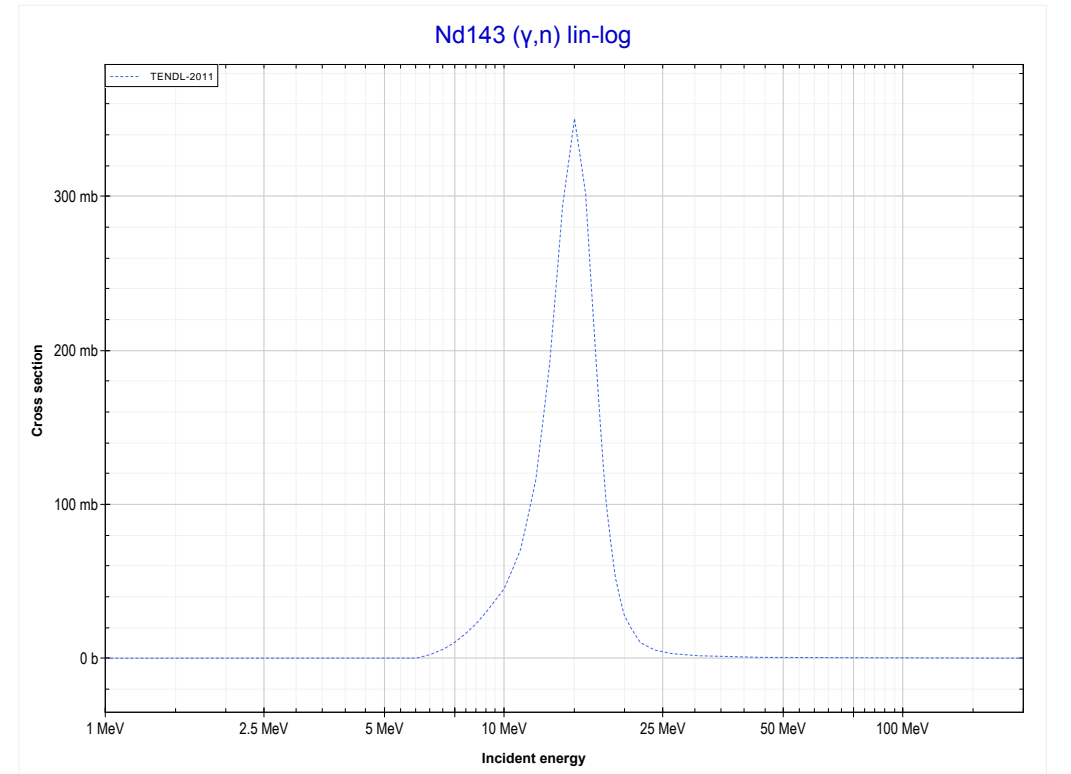
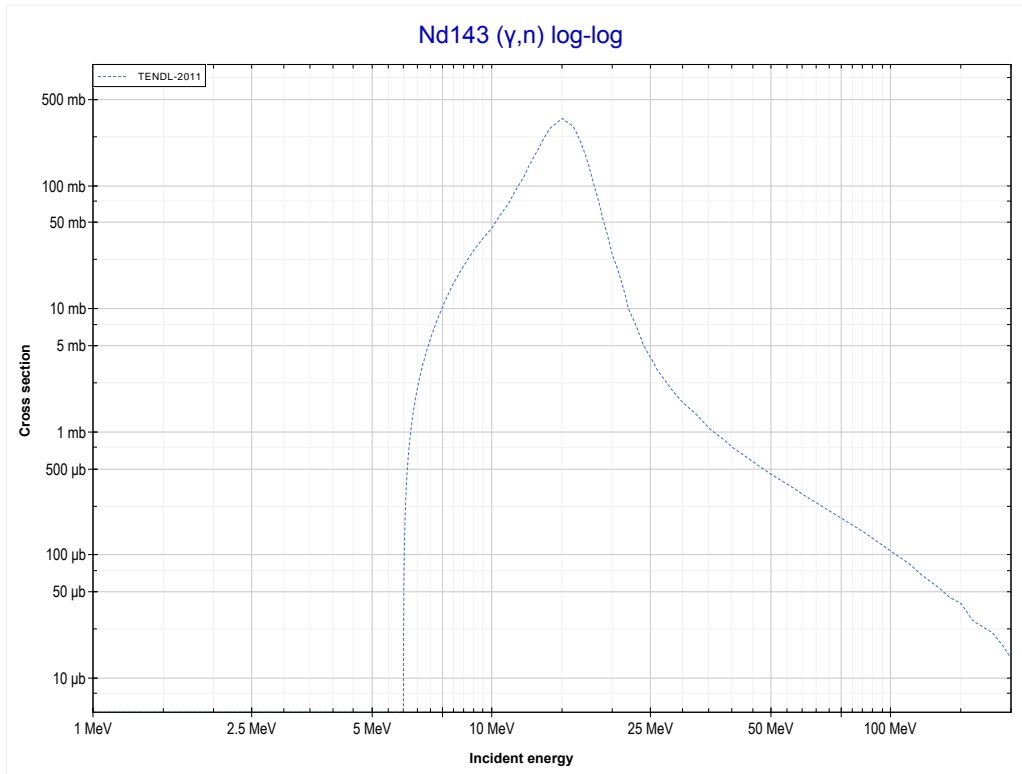
Reaction	Q-Value
Nd142($\gamma, 2n$)Nd140	-17845.83 keV

<< 59-Pr-141	60-Nd-142	60-Nd-143 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr140 production)	MT4 (γ,n) >>



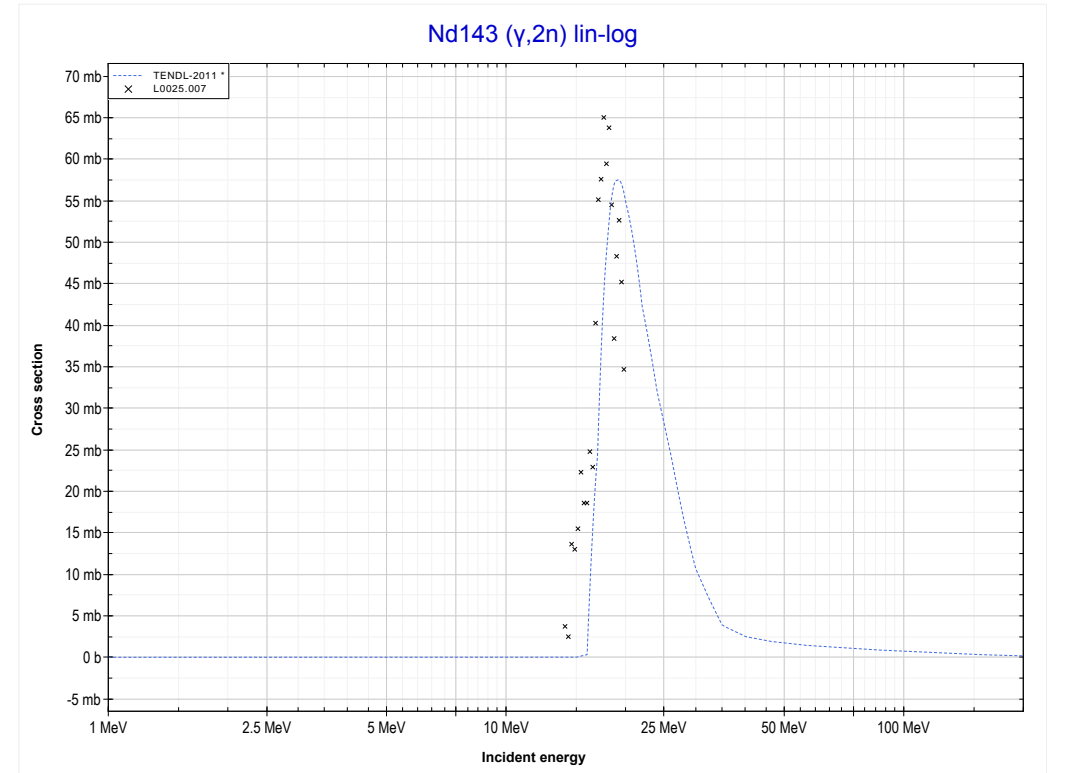
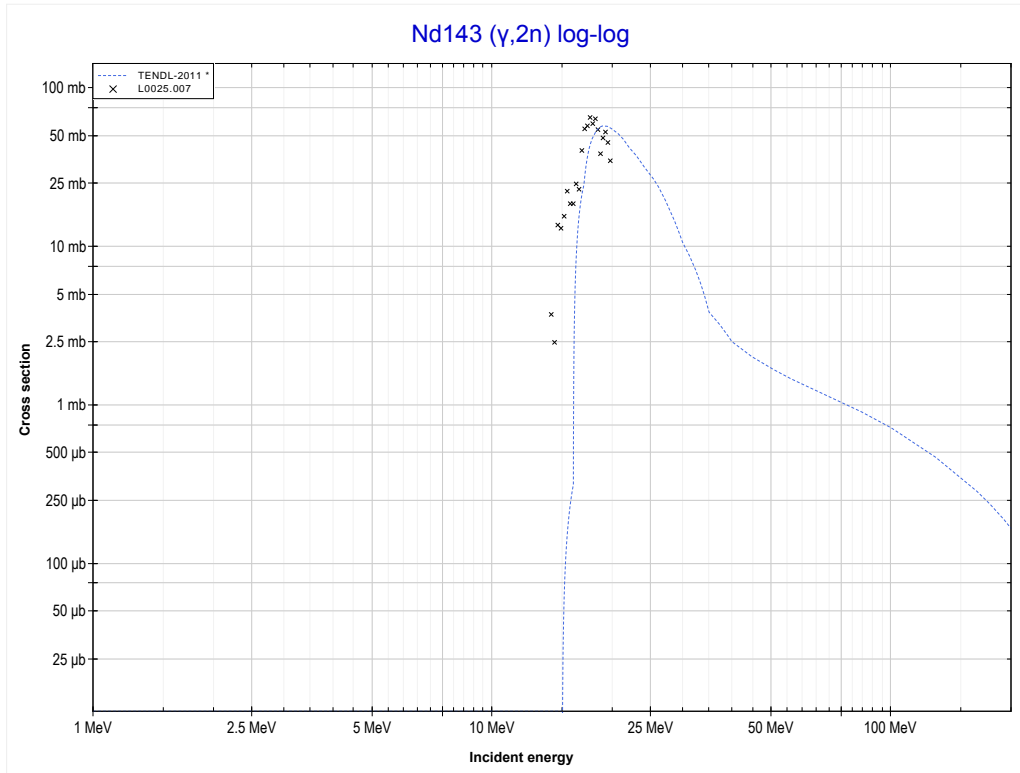
Reaction	Q-Value
Nd142(γ,d)Pr140	-14395.92 keV
Nd142($\gamma,n+p$)Pr140	-16620.49 keV

<< 60-Nd-142	60-Nd-143	60-Nd-144 >>
<< MT28 ($\gamma,n+p$)	MT4 (γ,n) or MT5 (Nd142 production)	MT16 ($\gamma,2n$) >>



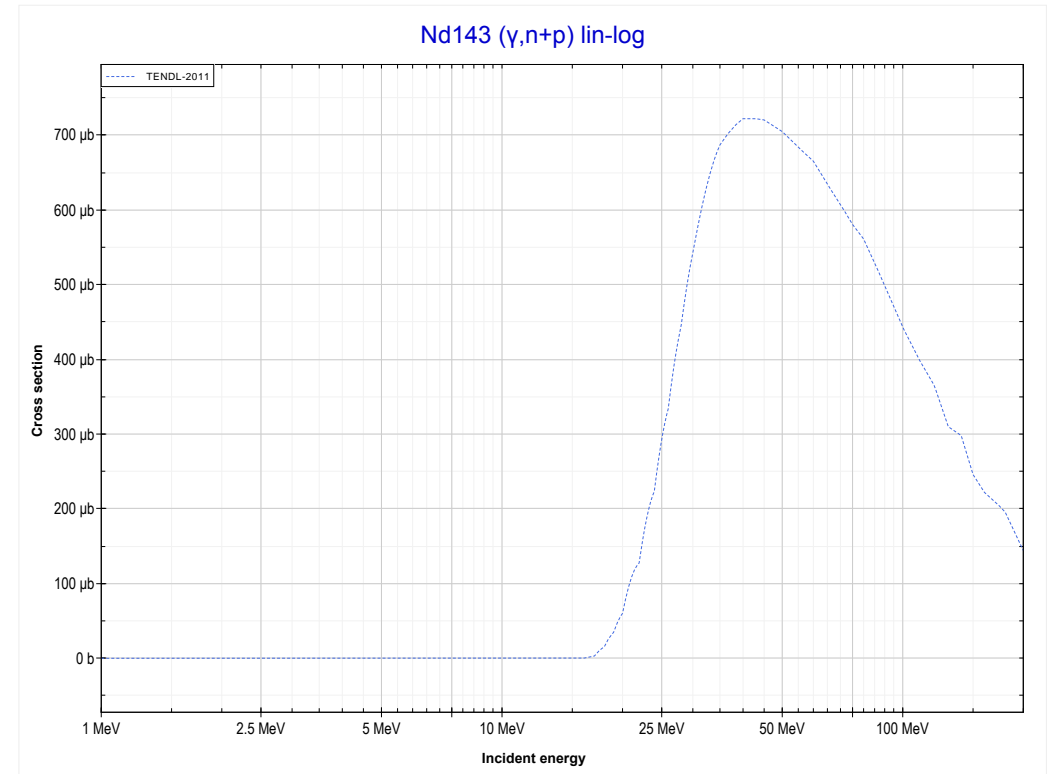
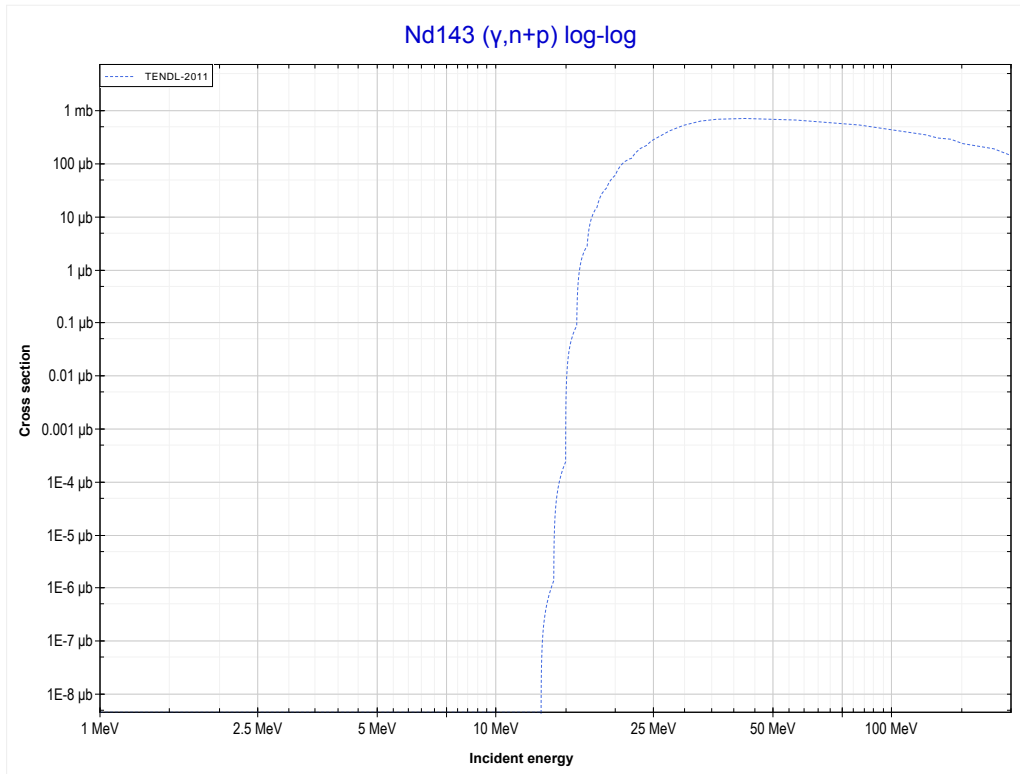
Reaction	Q-Value
Nd143(γ,n)Nd142	-6123.52 keV

<< 60-Nd-142	60-Nd-143	60-Nd-144 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Nd141 production)	MT28 ($\gamma, n+p$) >>



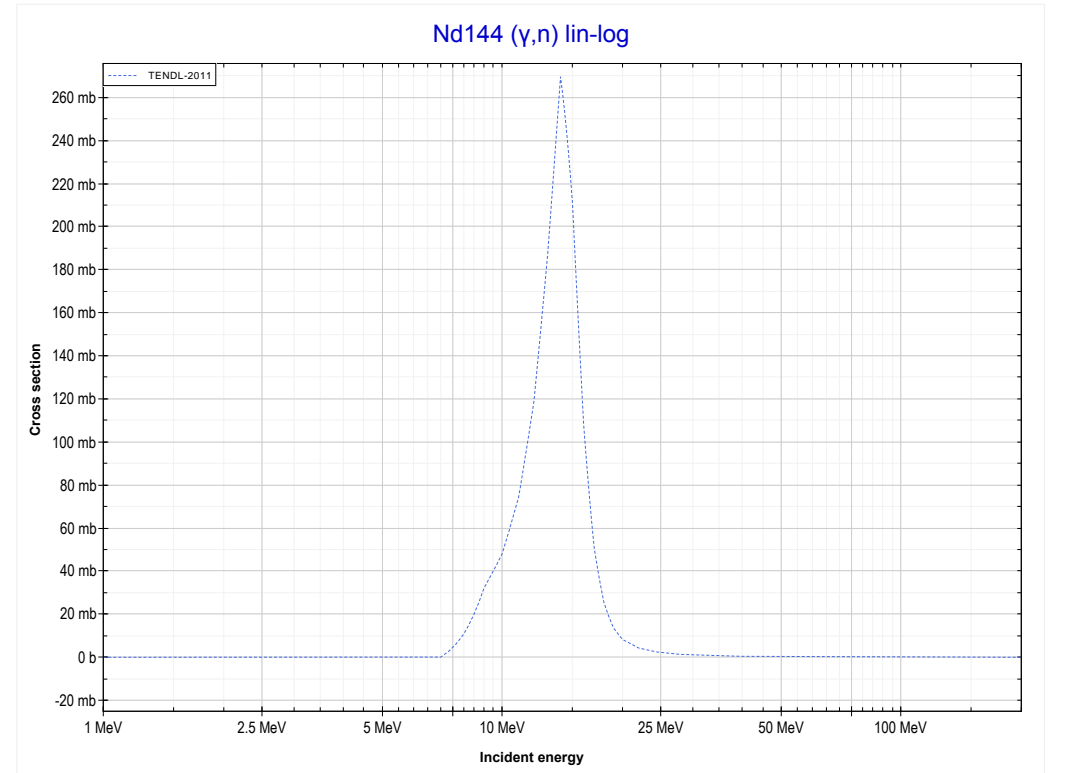
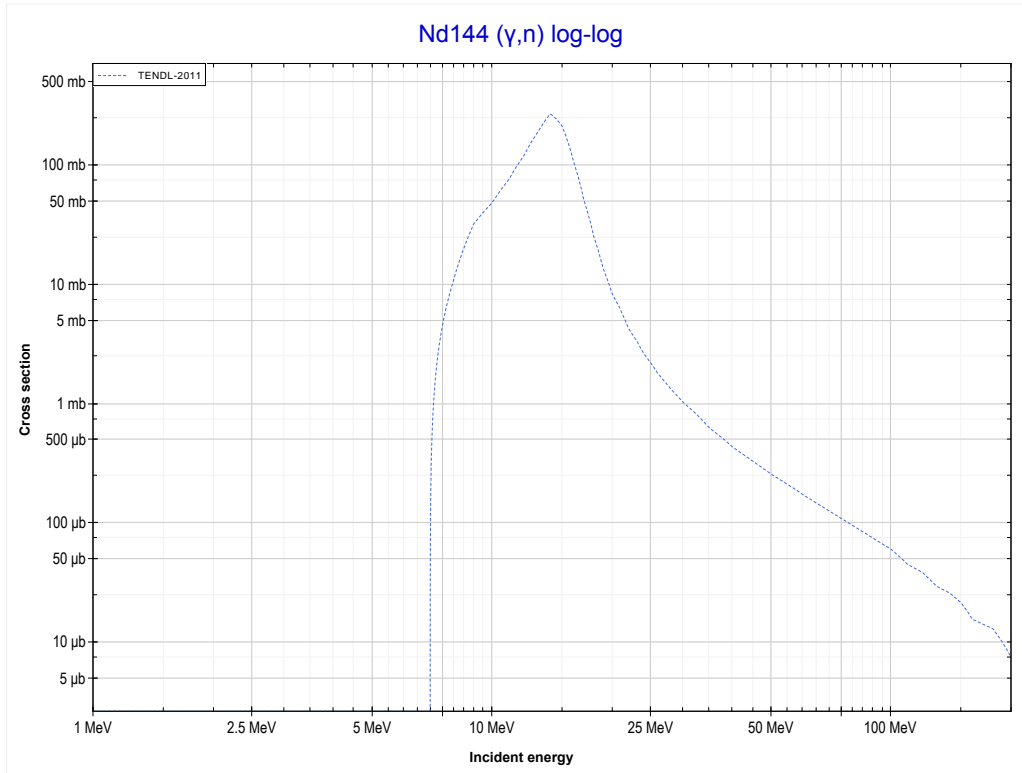
Reaction	Q-Value
Nd143($\gamma, 2n$)Nd141	-15952.03 keV

<< 60-Nd-142	60-Nd-143	60-Nd-144 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr141 production)	MT4 (γ,n) >>



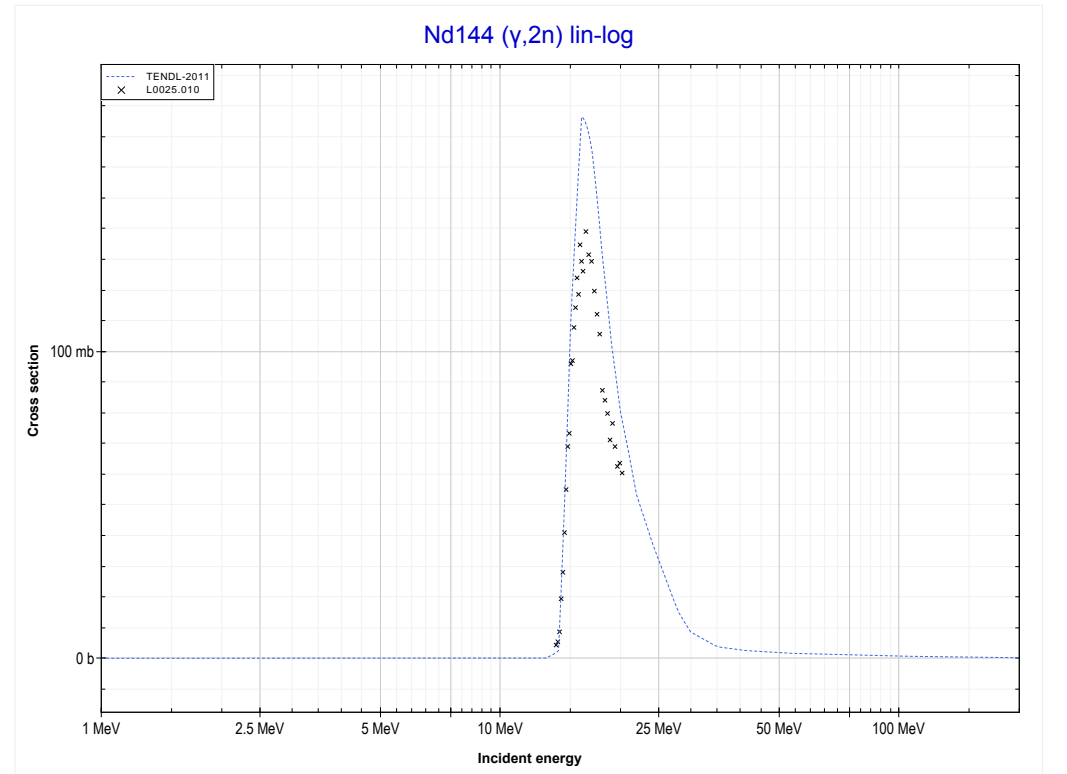
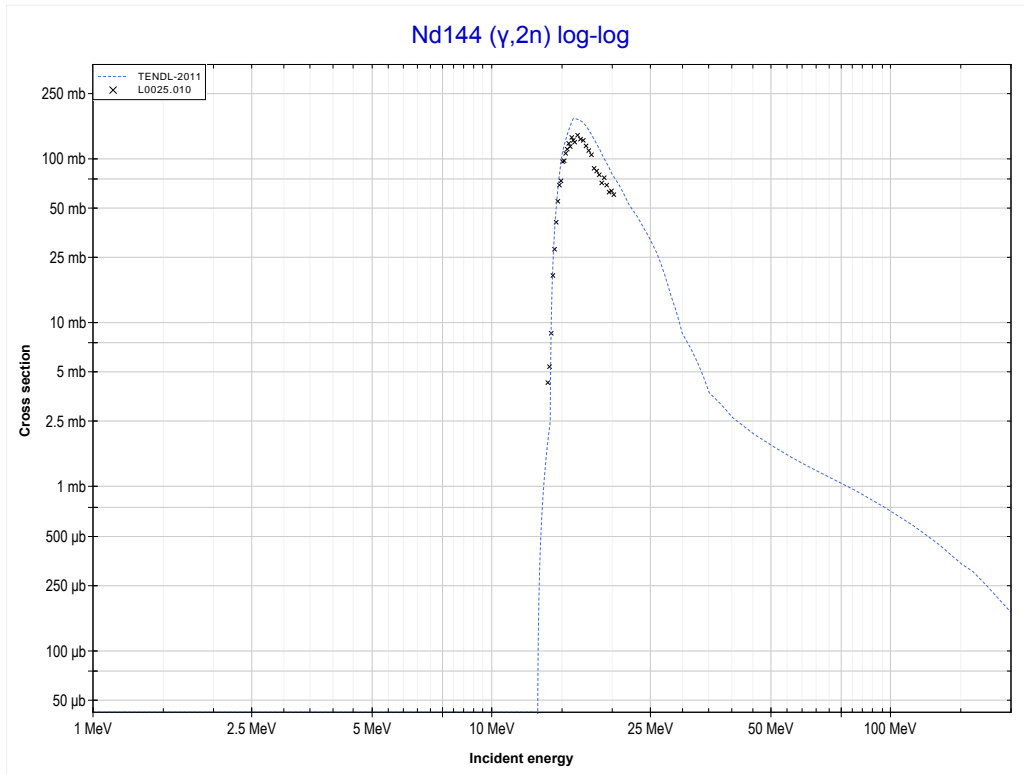
Reaction	Q-Value
Nd143(γ,d)Pr141	-11122.22 keV
Nd143($\gamma,n+p$)Pr141	-13346.79 keV

<< 60-Nd-143	60-Nd-144	60-Nd-145 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Nd143 production)	MT16 ($\gamma, 2n$) >>



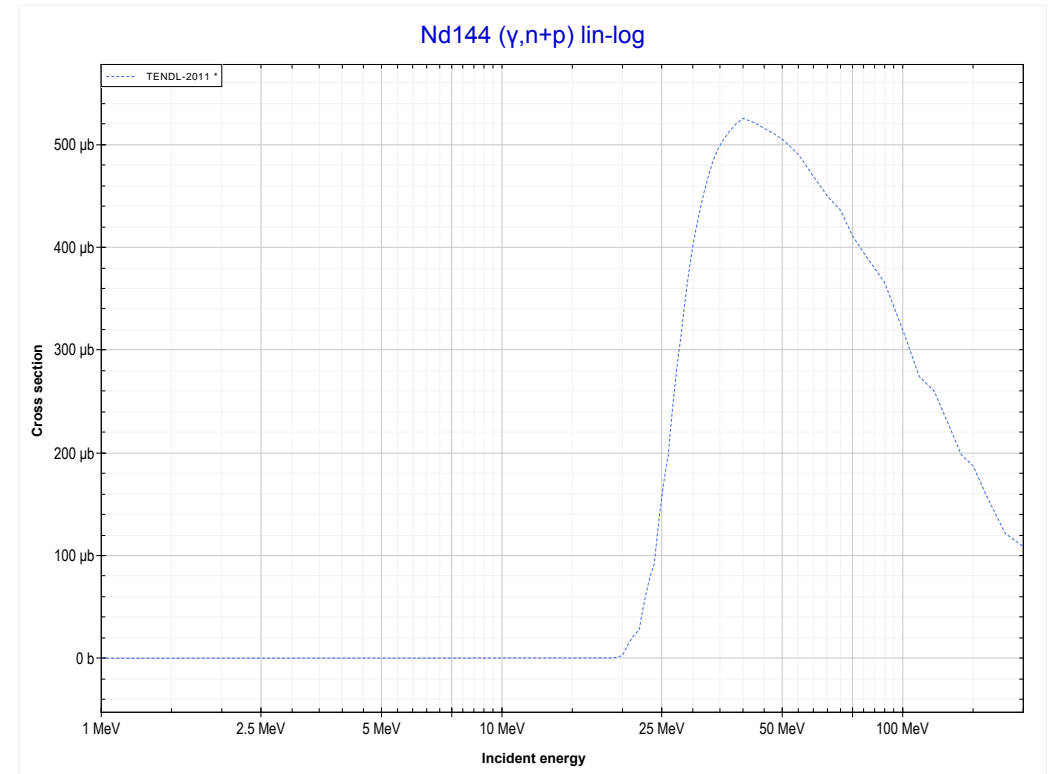
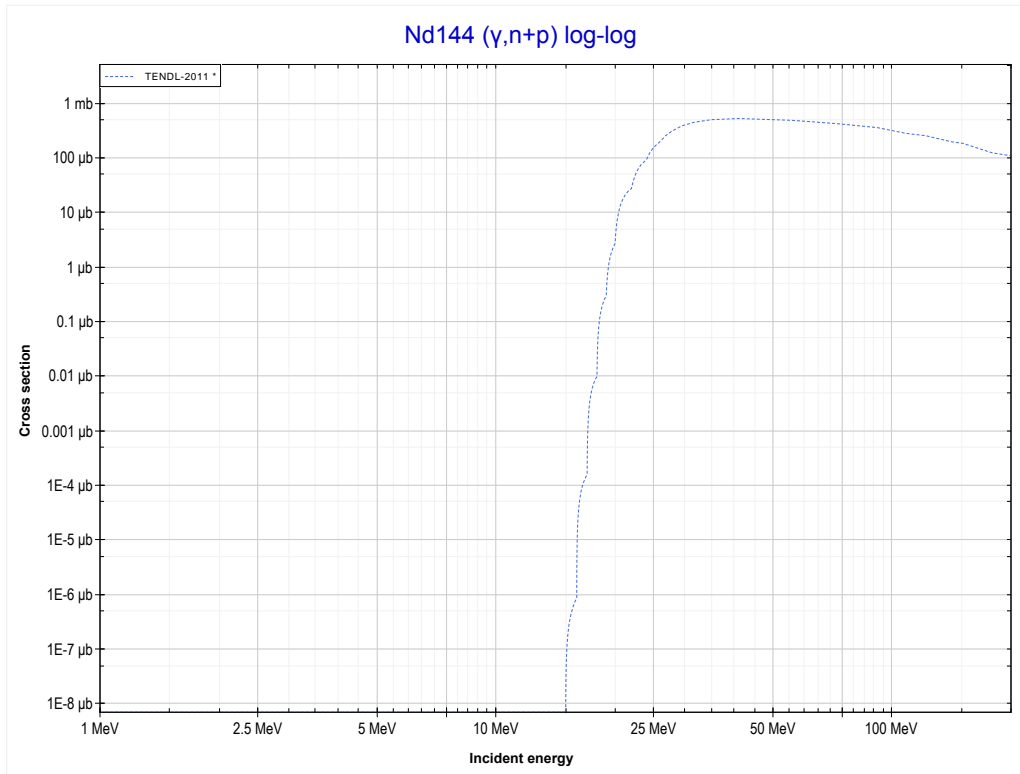
Reaction	Q-Value
Nd144(γ, n)Nd143	-7817.12 keV

<< 60-Nd-143	60-Nd-144	60-Nd-145 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Nd142 production)	MT28 ($\gamma,n+p$) >>



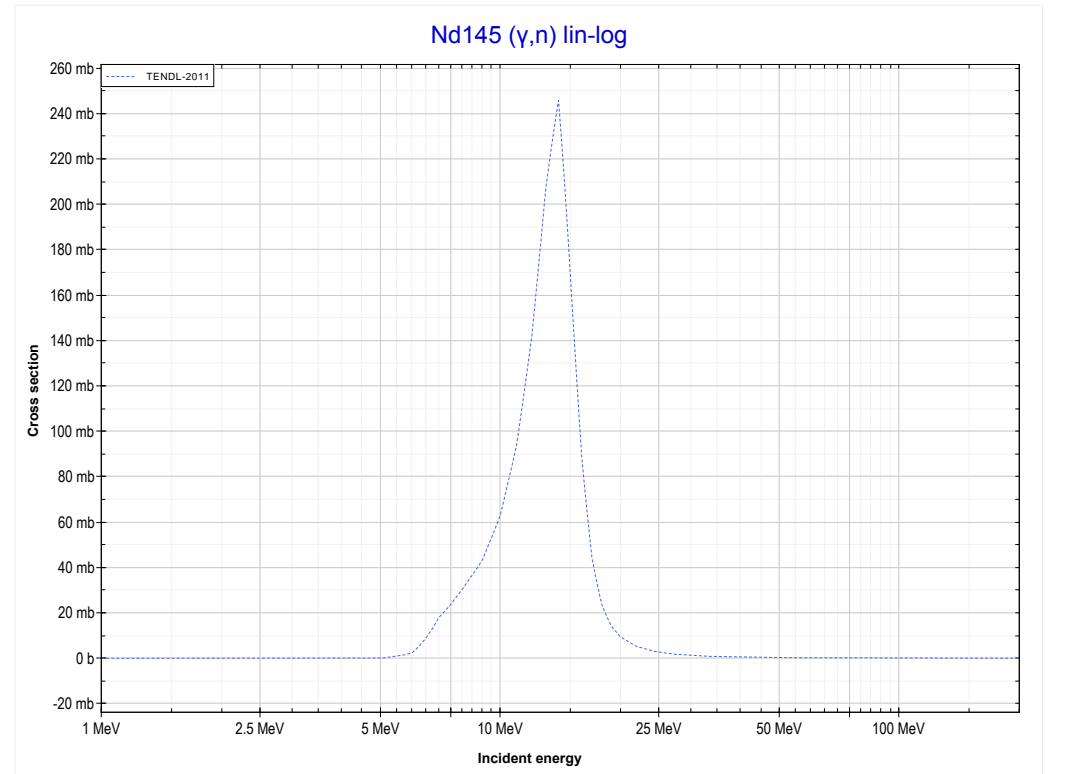
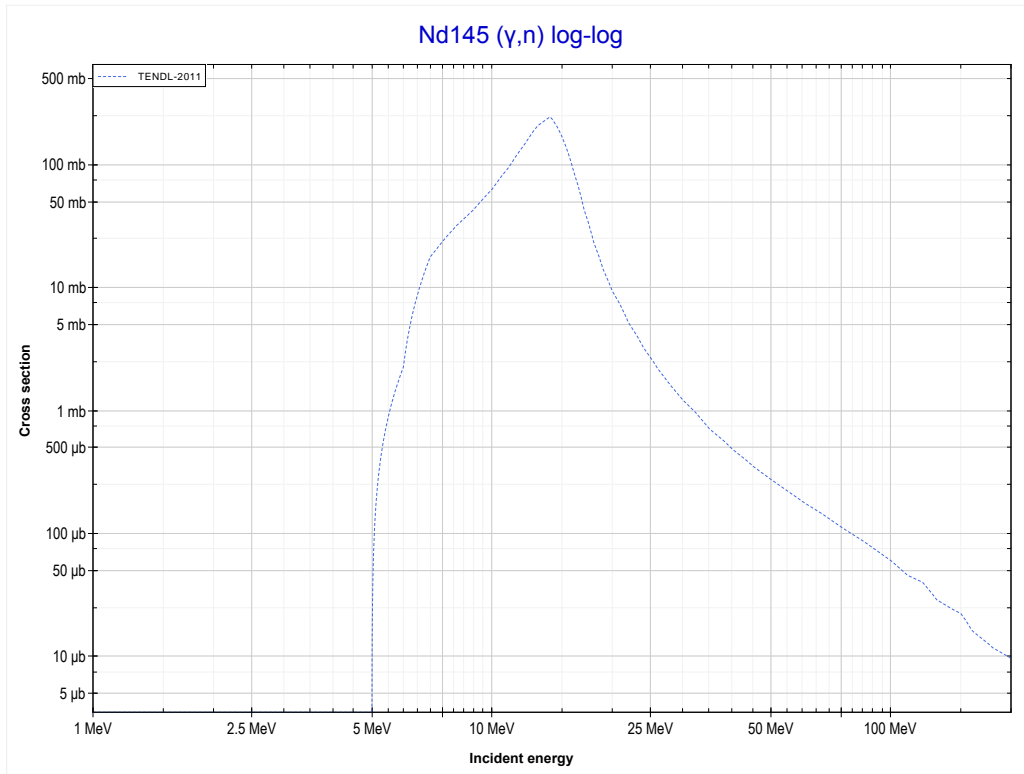
Reaction	Q-Value
Nd144($\gamma,2n$)Nd142	-13940.63 keV

<< 60-Nd-143	60-Nd-144	60-Nd-145 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr142 production)	MT4 (γ,n) >>



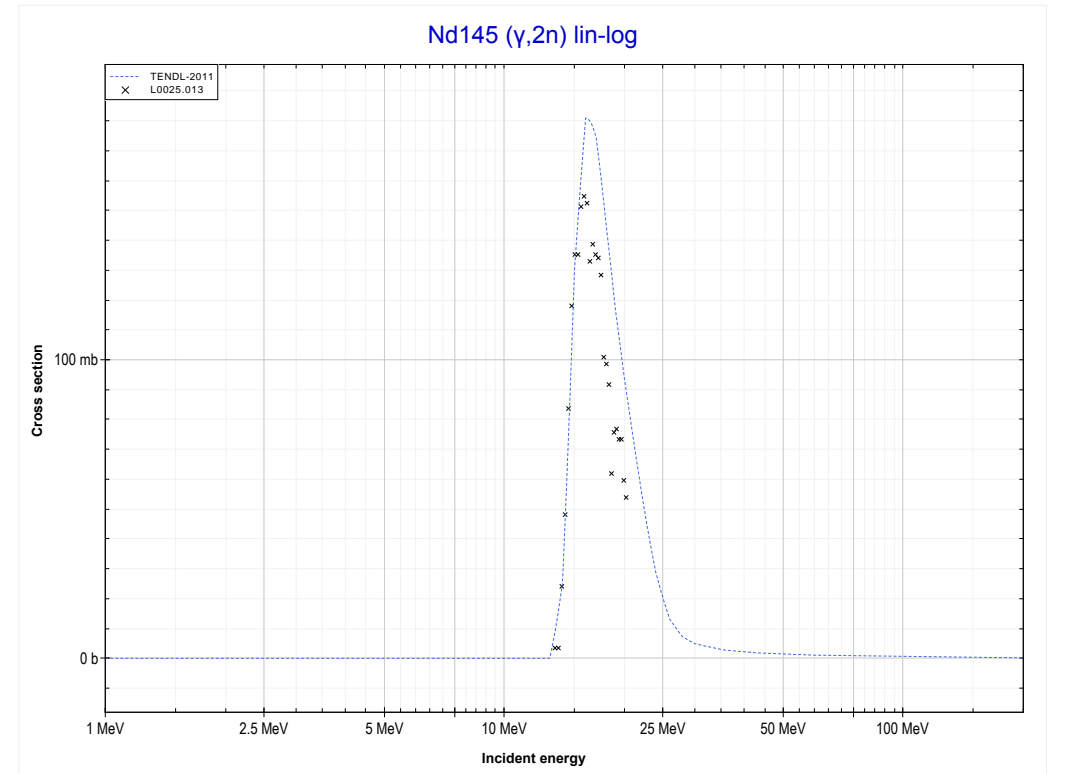
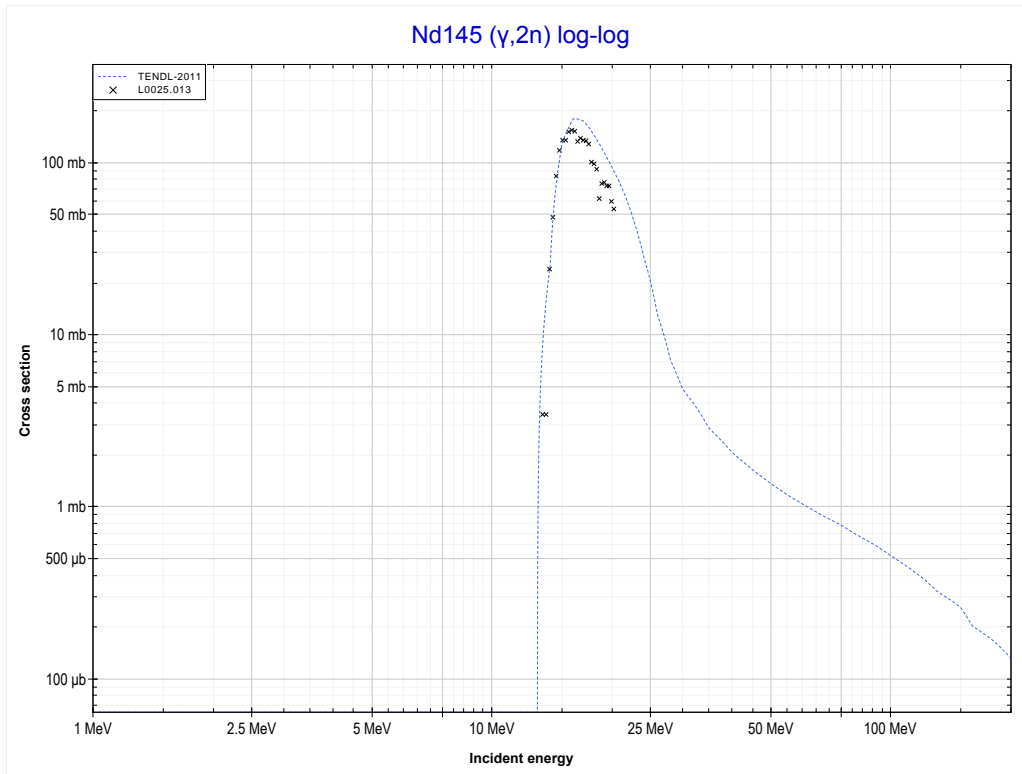
Reaction	Q-Value
Nd144(γ,d)Pr142	-13096.22 keV
Nd144($\gamma,n+p$)Pr142	-15320.79 keV

<< 60-Nd-144	60-Nd-145	60-Nd-146 >>
<< MT28 ($\gamma,n+p$)	MT4 (γ,n) or MT5 (Nd144 production)	MT16 ($\gamma,2n$) >>



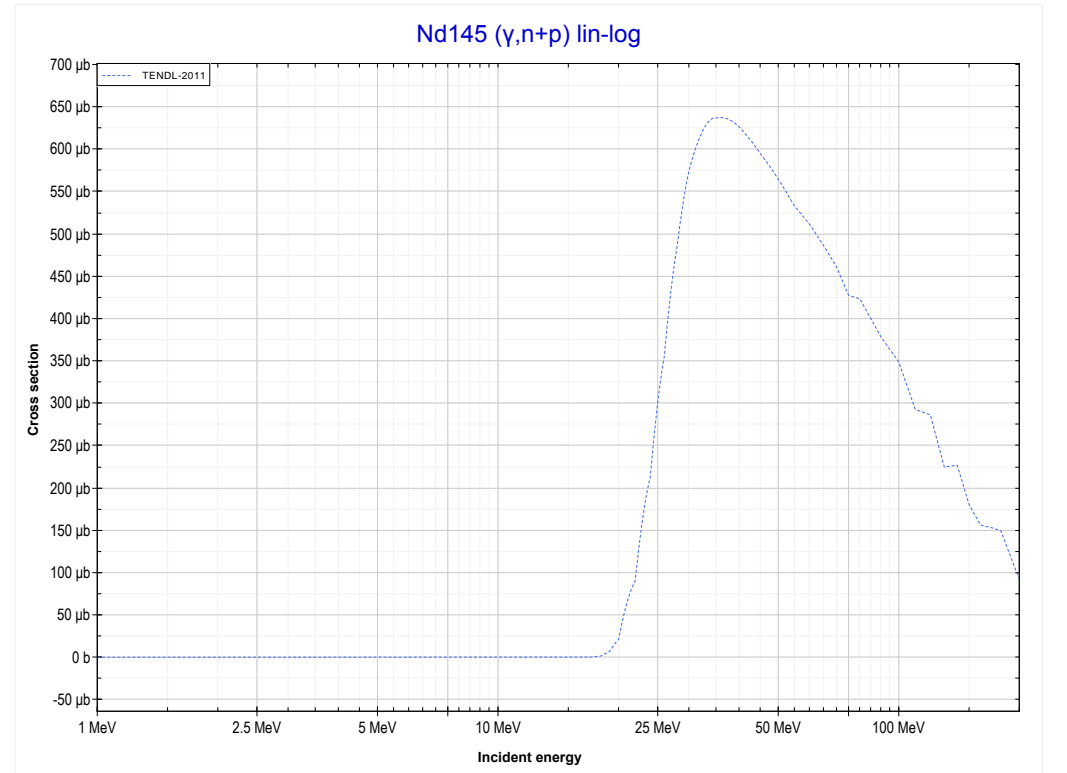
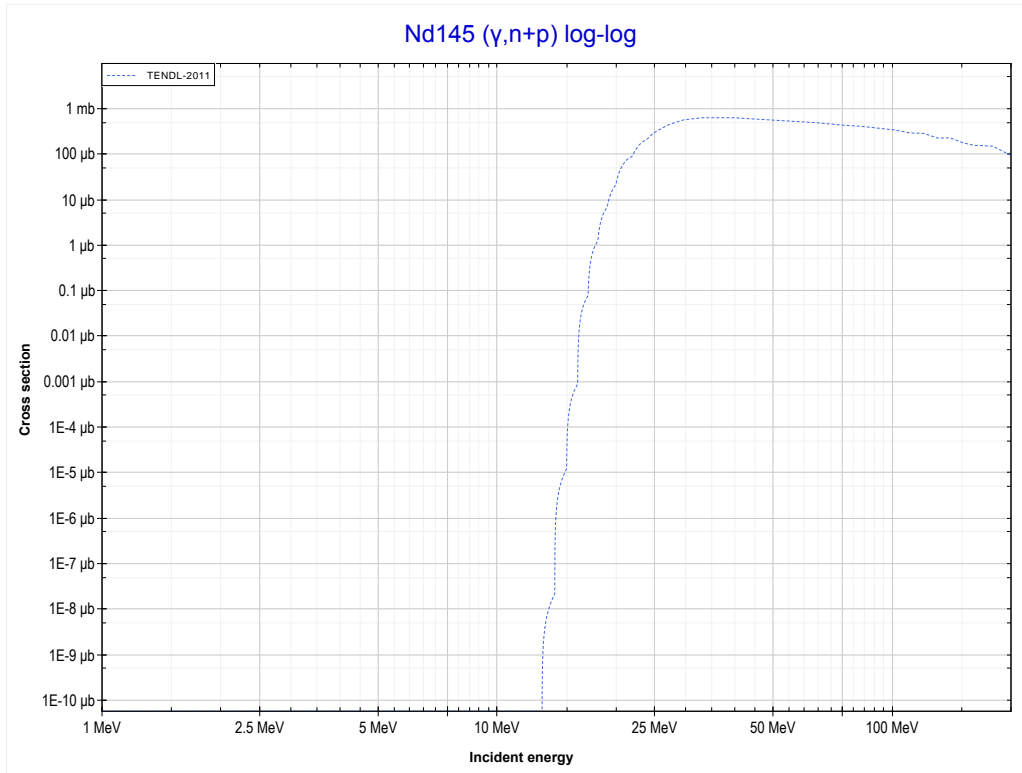
Reaction	Q-Value
Nd145(γ,n)Nd144	-5755.22 keV

<< 60-Nd-144	60-Nd-145	60-Nd-146 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Nd143 production)	MT28 ($\gamma,n+p$) >>



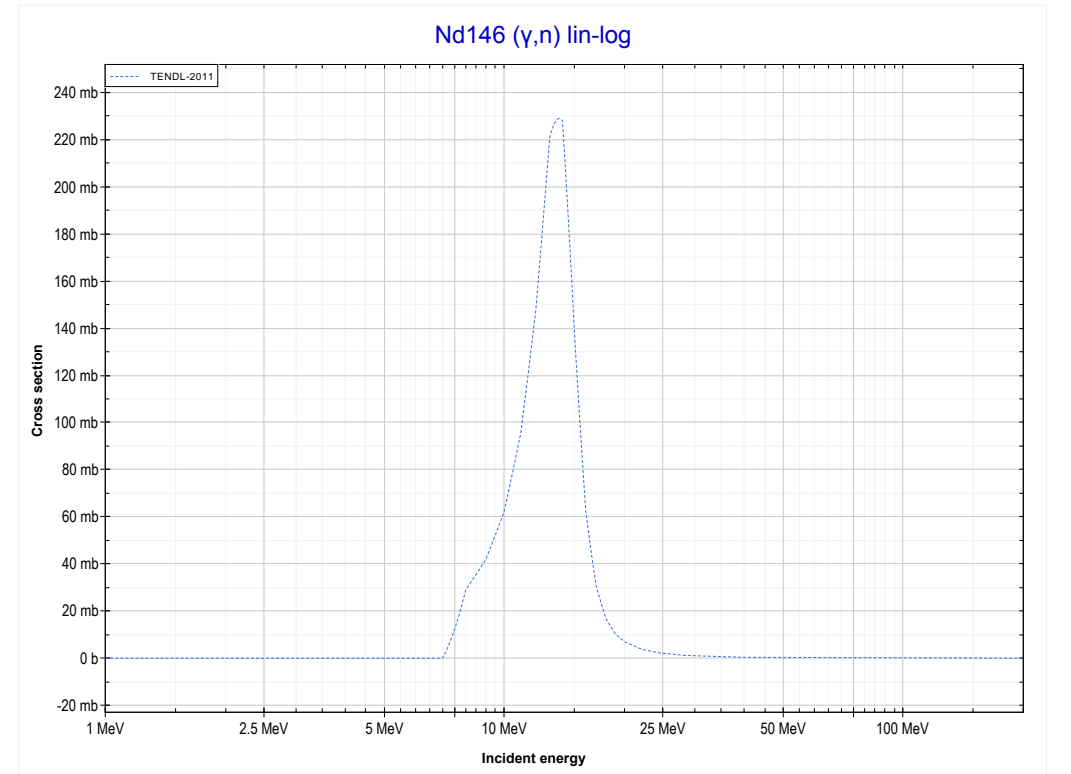
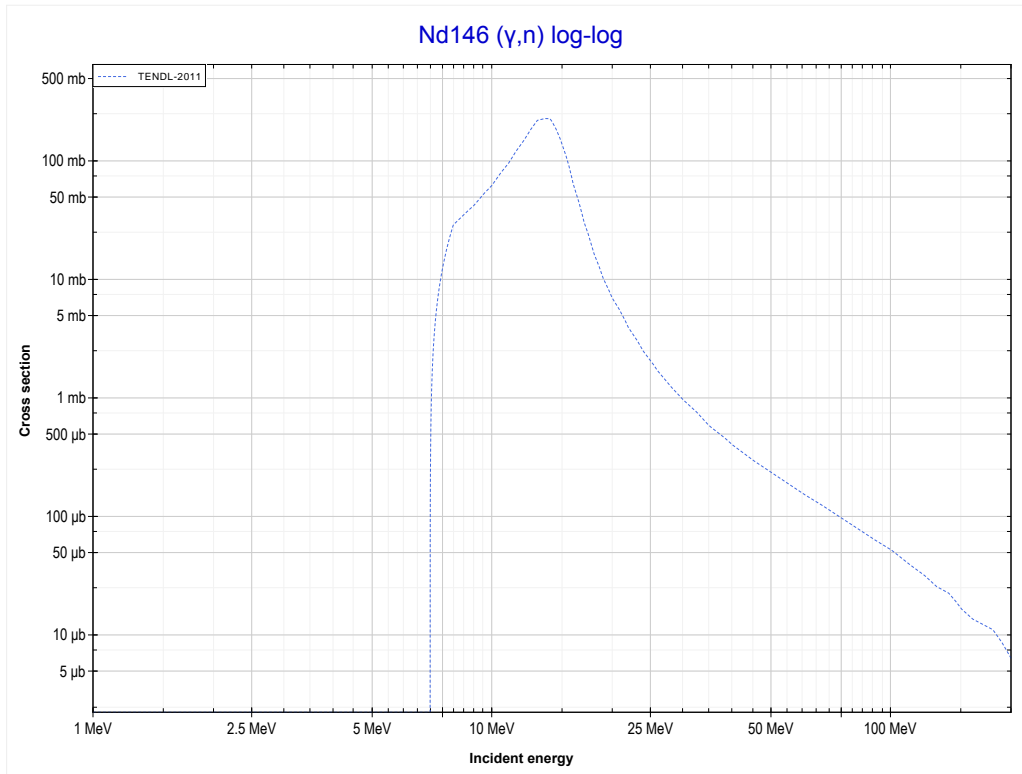
Reaction	Q-Value
Nd145($\gamma,2n$)Nd143	-13572.33 keV

<< 60-Nd-144	60-Nd-145	60-Nd-146 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr143 production)	MT4 (γ,n) >>



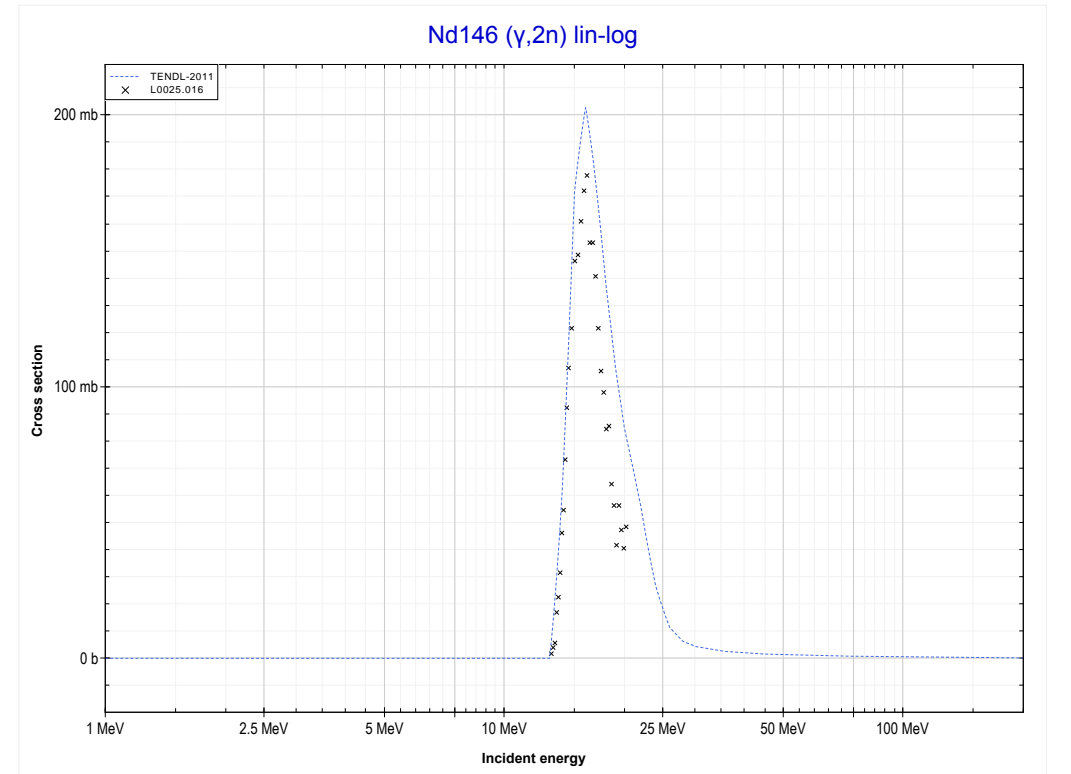
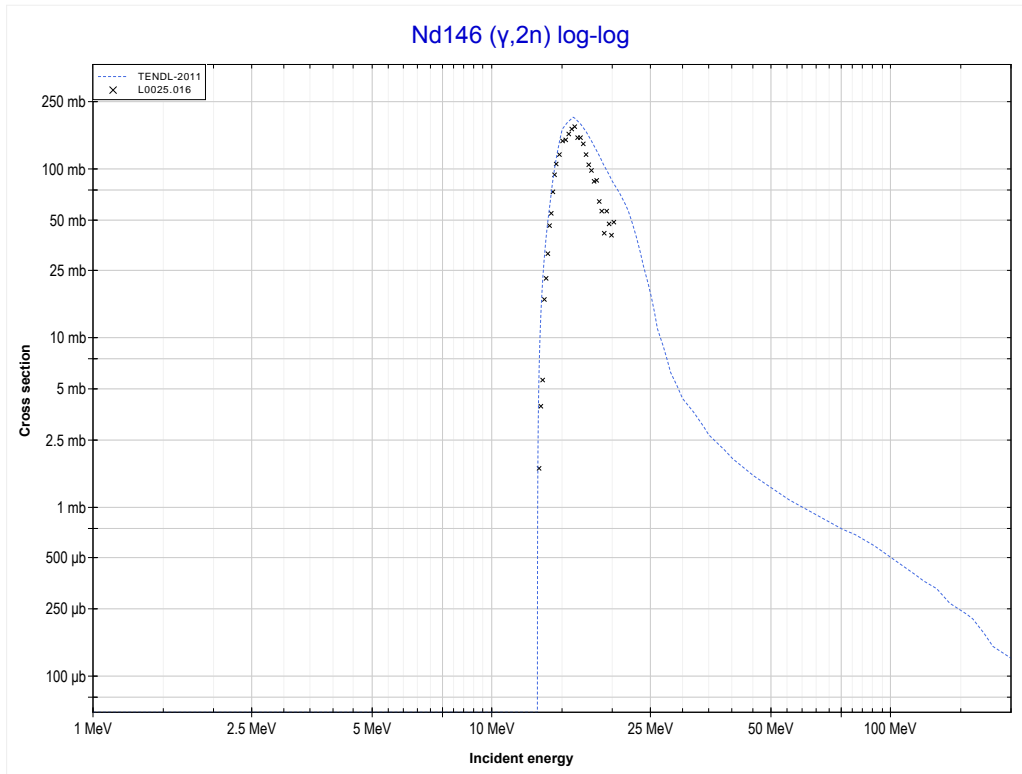
Reaction	Q-Value
Nd145(γ,d)Pr143	-11499.32 keV
Nd145($\gamma,n+p$)Pr143	-13723.89 keV

<< 60-Nd-145	60-Nd-146	60-Nd-148 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Nd145 production)	MT16 ($\gamma, 2n$) >>



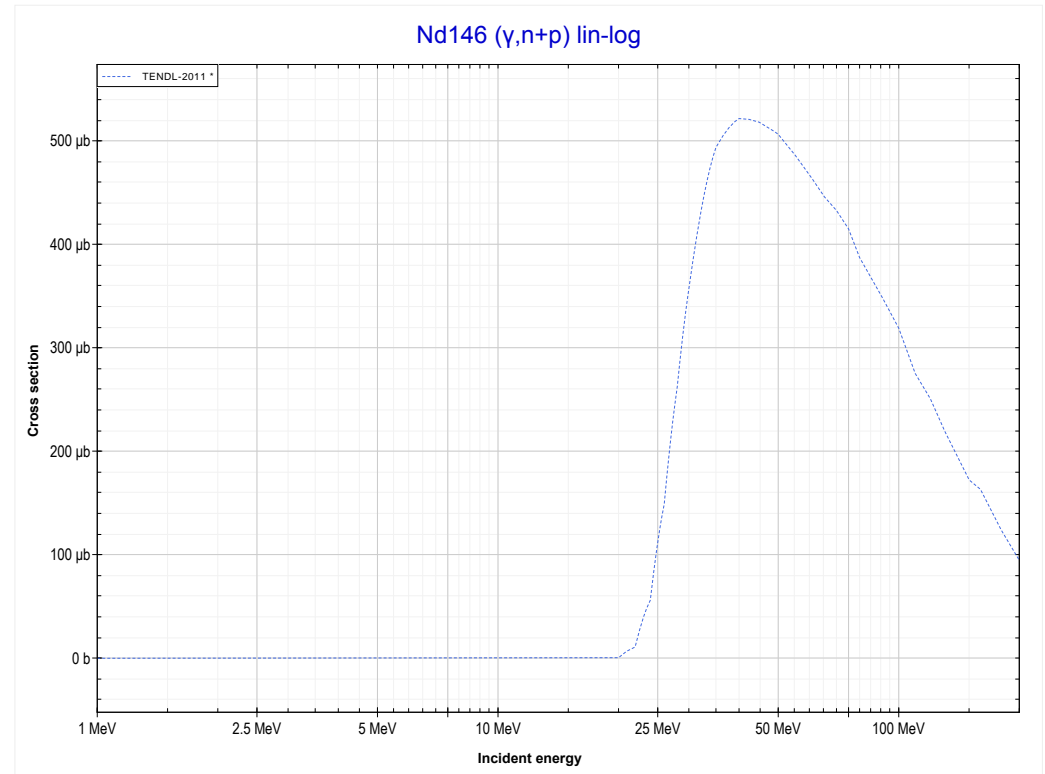
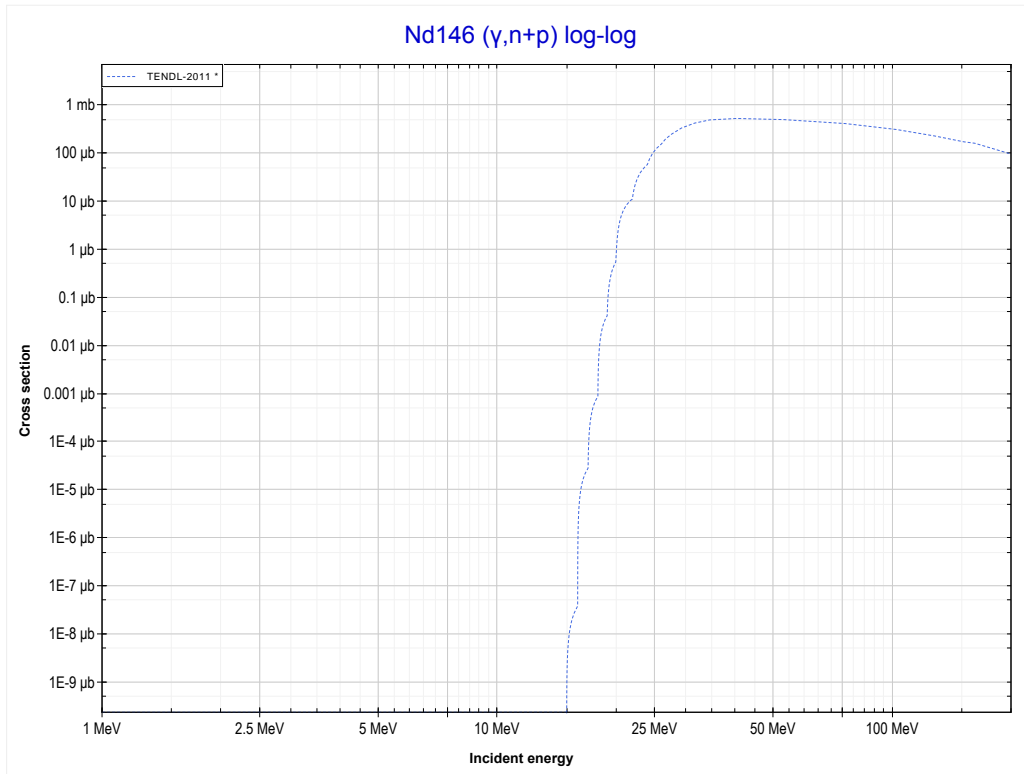
Reaction	Q-Value
Nd146(γ, n)Nd145	-7565.32 keV

<< 60-Nd-145	60-Nd-146	60-Nd-148 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Nd144 production)	MT28 ($\gamma, n+p$) >>



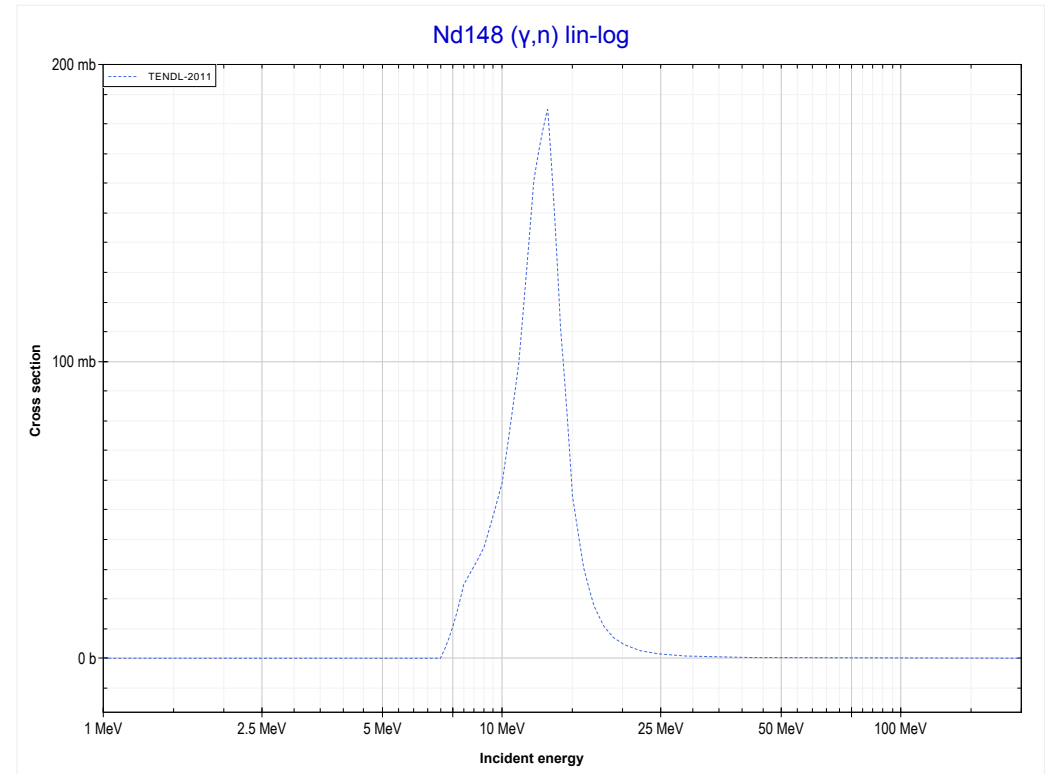
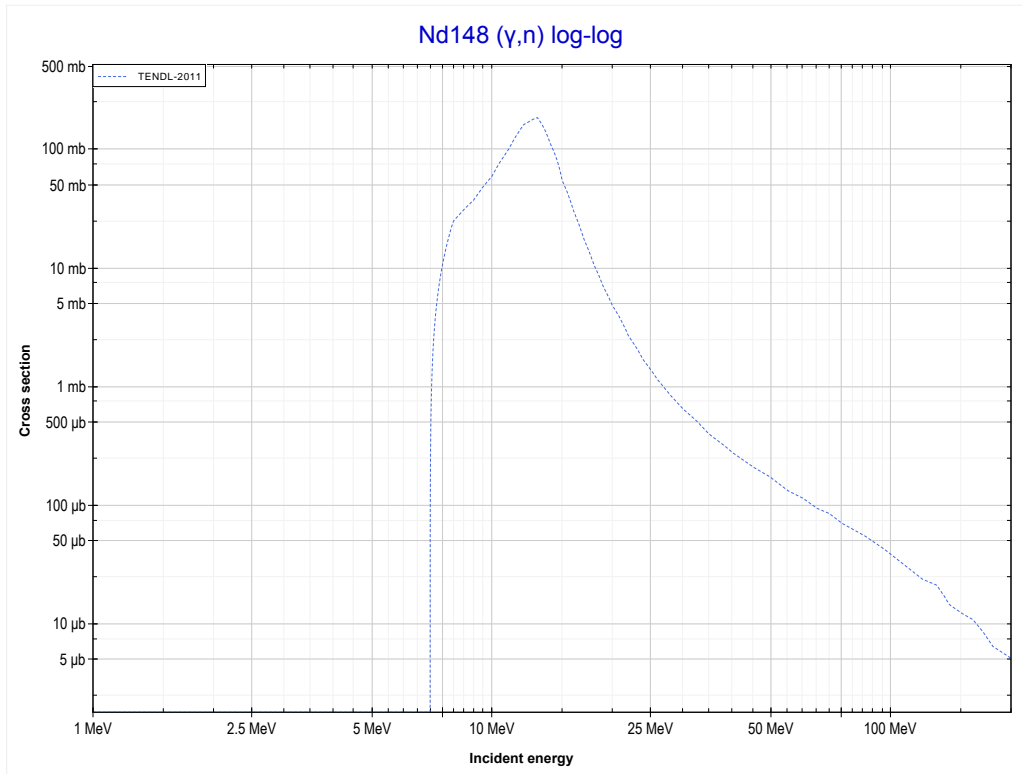
Reaction	Q-Value
Nd146($\gamma, 2n$)Nd144	-13320.53 keV

<< 60-Nd-145	60-Nd-146	60-Nd-148 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr144 production)	MT4 (γ,n) >>



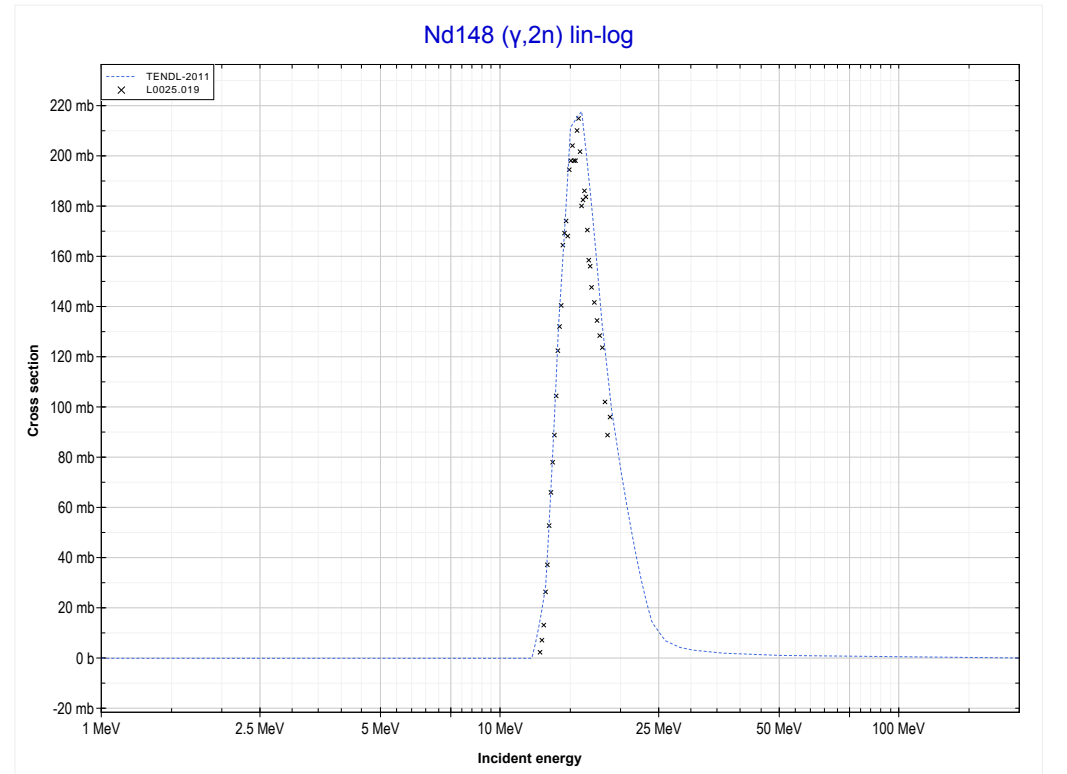
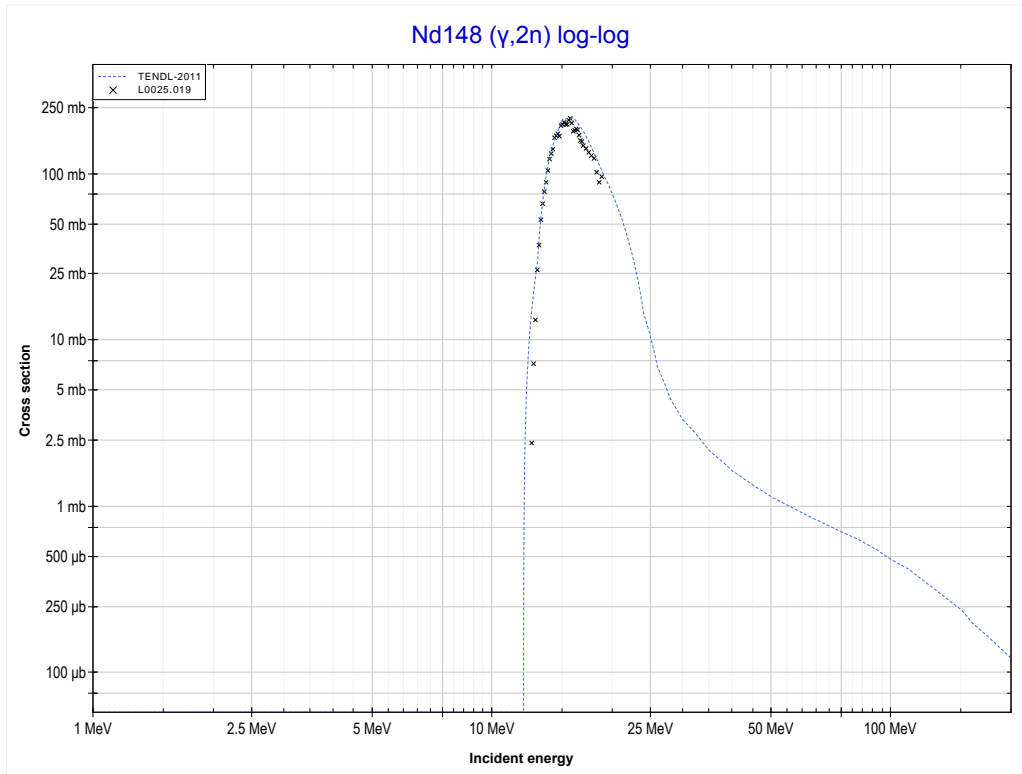
Reaction	Q-Value
Nd146(γ,d)Pr144	-13310.82 keV
Nd146($\gamma,n+p$)Pr144	-15535.39 keV

<< 60-Nd-146	60-Nd-148	60-Nd-150 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Nd147 production)	MT16 ($\gamma, 2n$) >>



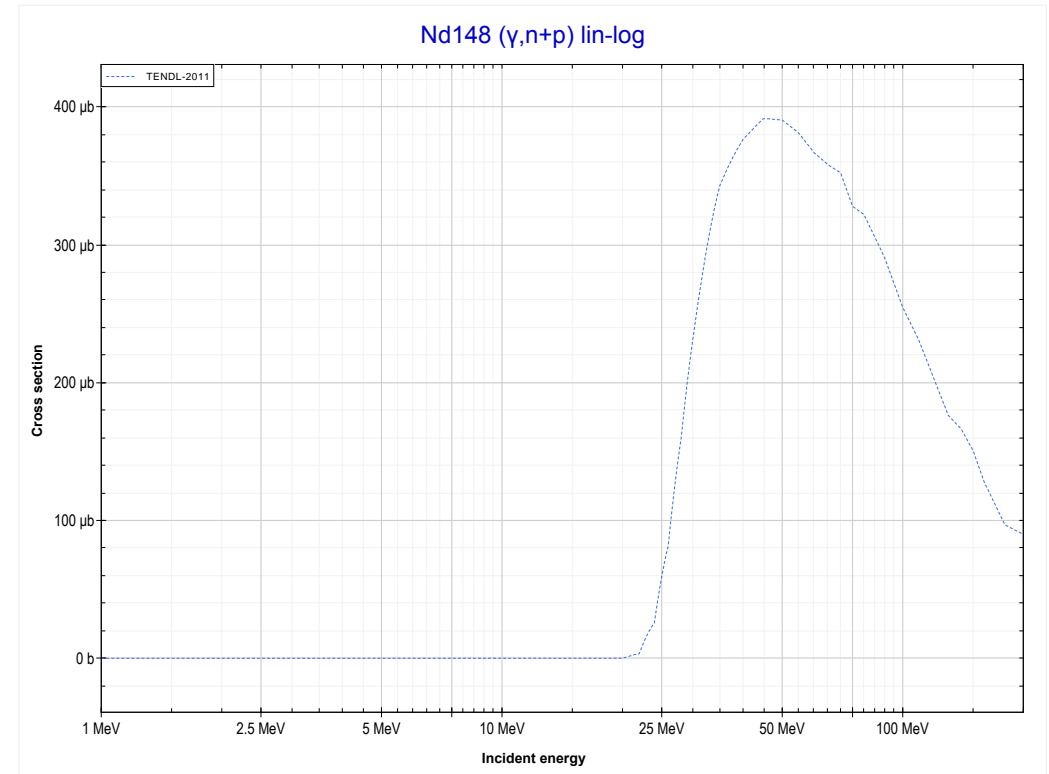
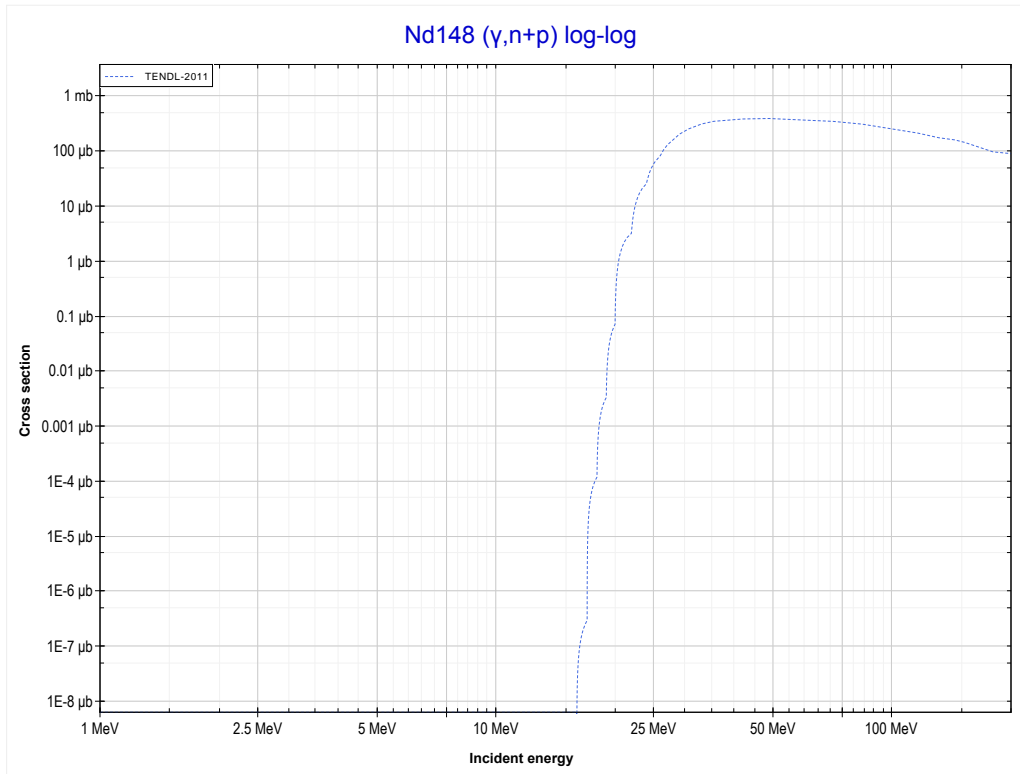
Reaction	Q-Value
Nd148(γ, n)Nd147	-7332.82 keV

<< 60-Nd-146	60-Nd-148	60-Nd-150 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Nd146 production)	MT28 ($\gamma, n+p$) >>



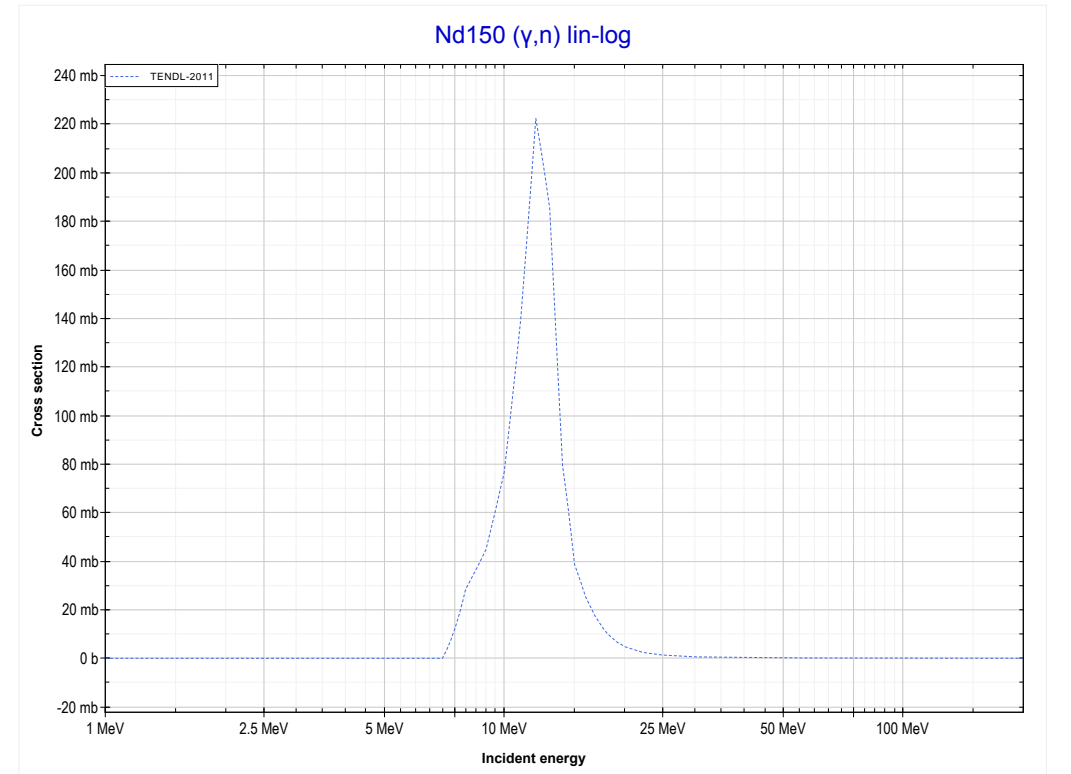
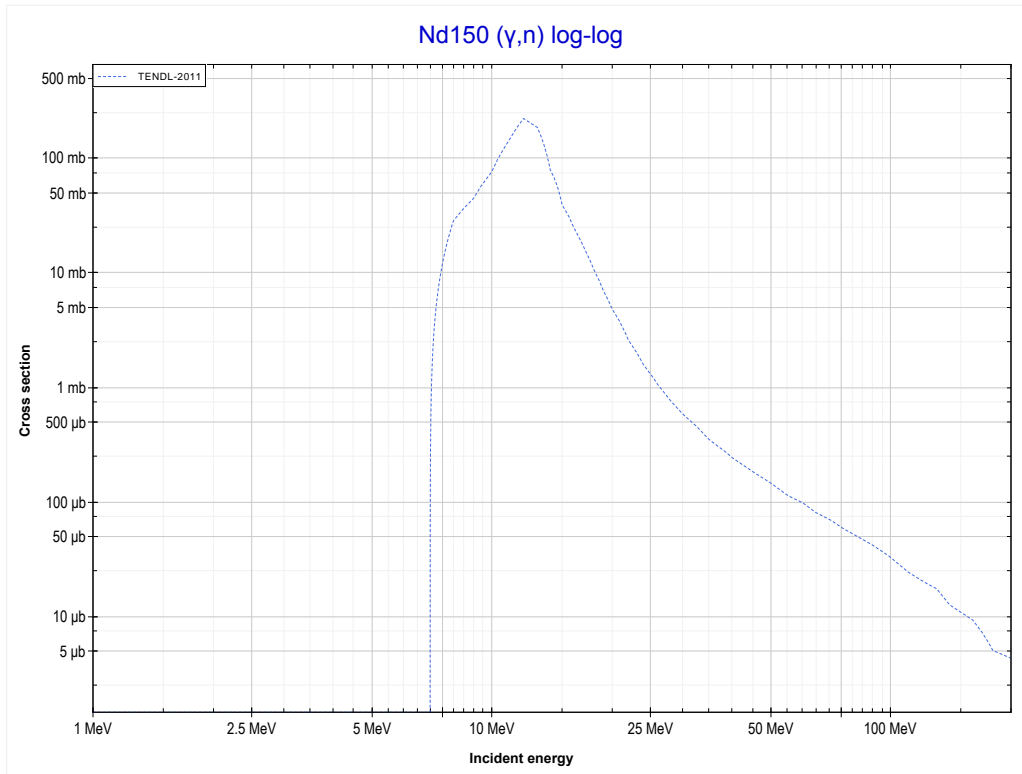
Reaction	Q-Value
Nd148($\gamma, 2n$)Nd146	-12624.93 keV

<< 60-Nd-146	60-Nd-148	60-Nd-150 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr146 production)	MT4 (γ,n) >>



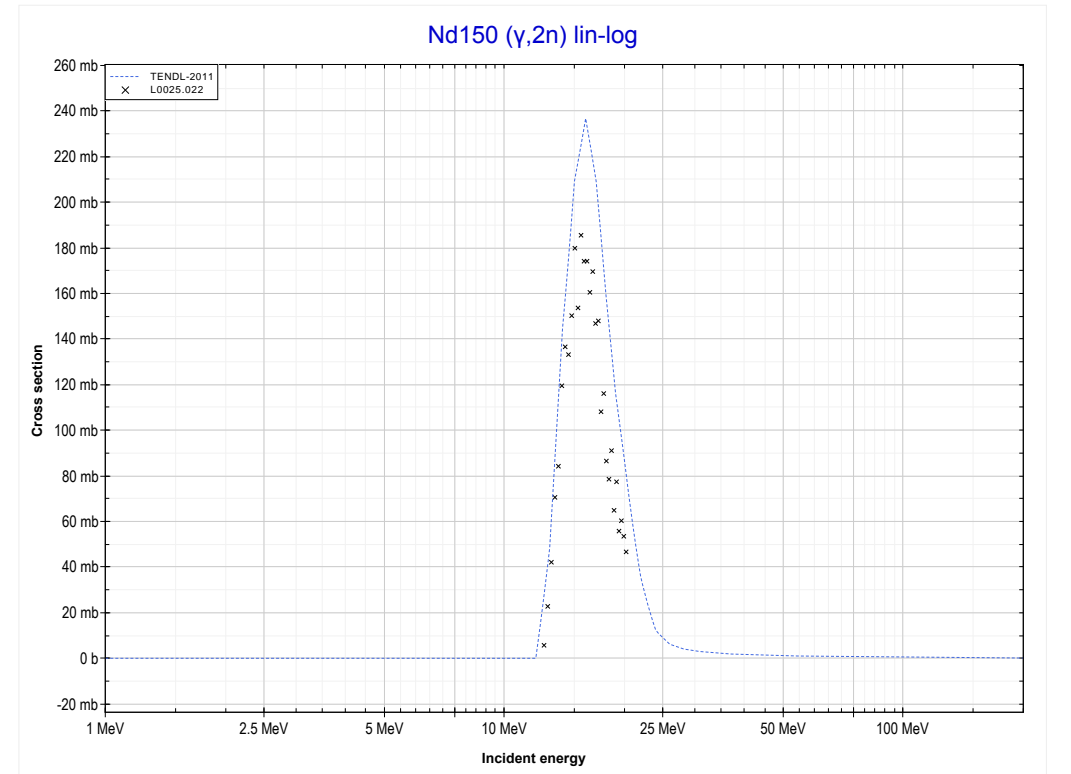
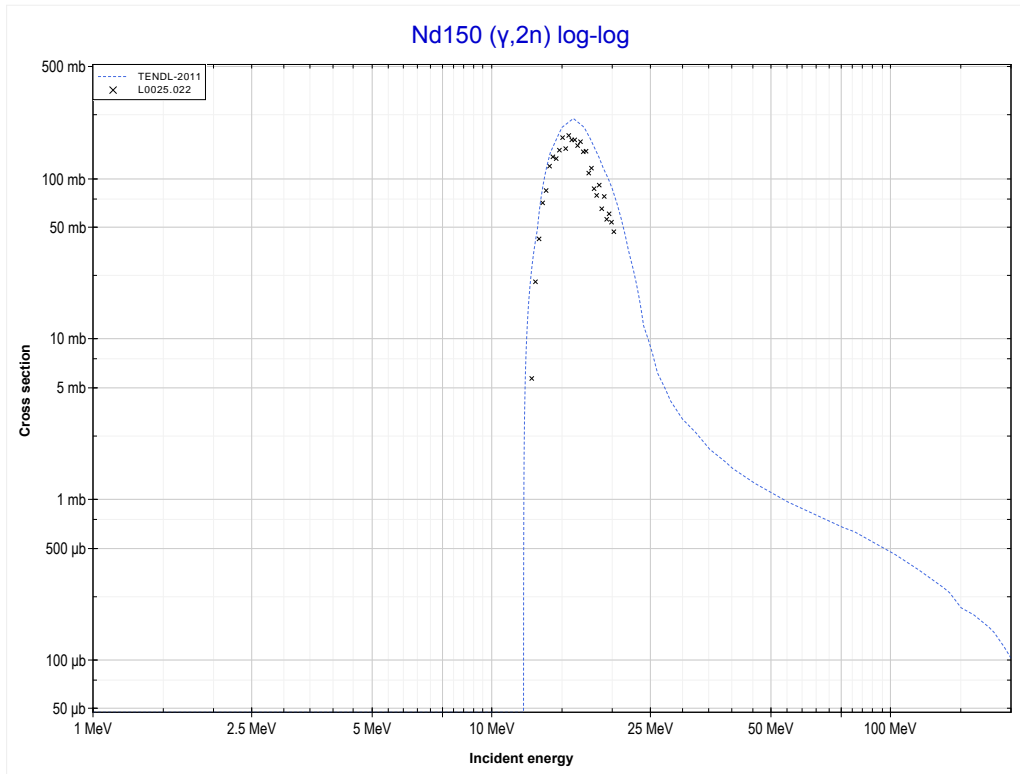
Reaction	Q-Value
Nd148(γ,d)Pr146	-13839.12 keV
Nd148($\gamma,n+p$)Pr146	-16063.69 keV

<< 60-Nd-148	60-Nd-150	62-Sm-144 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Nd149 production)	MT16 ($\gamma, 2n$) >>



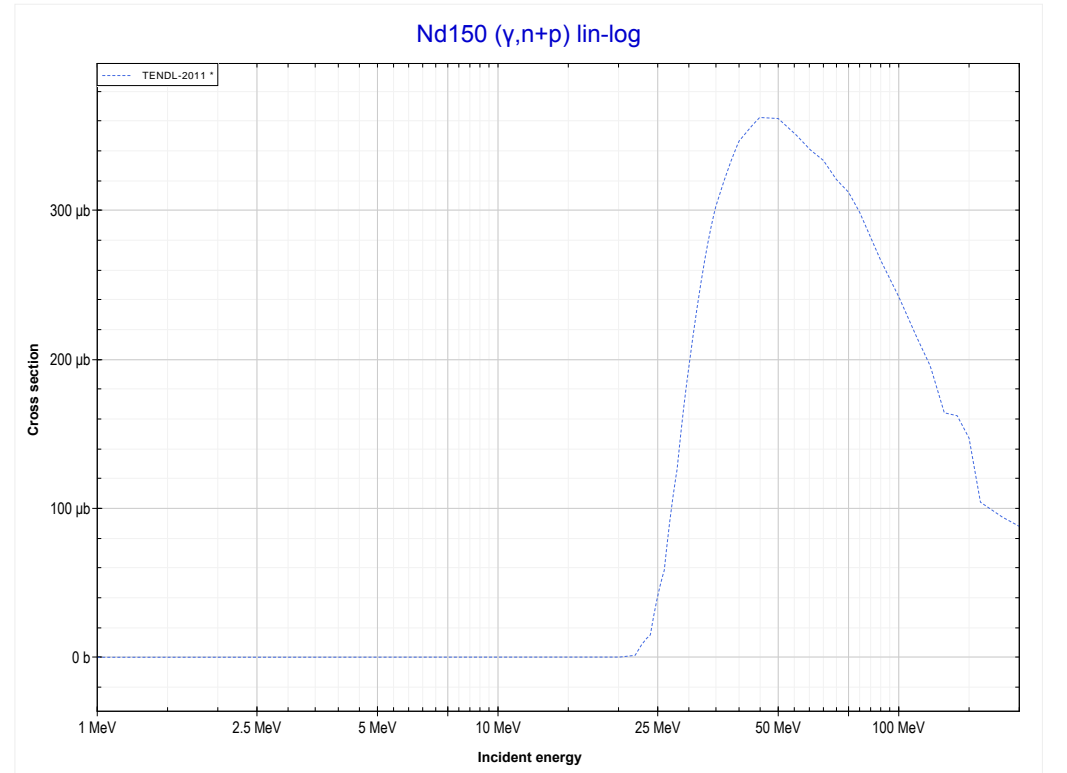
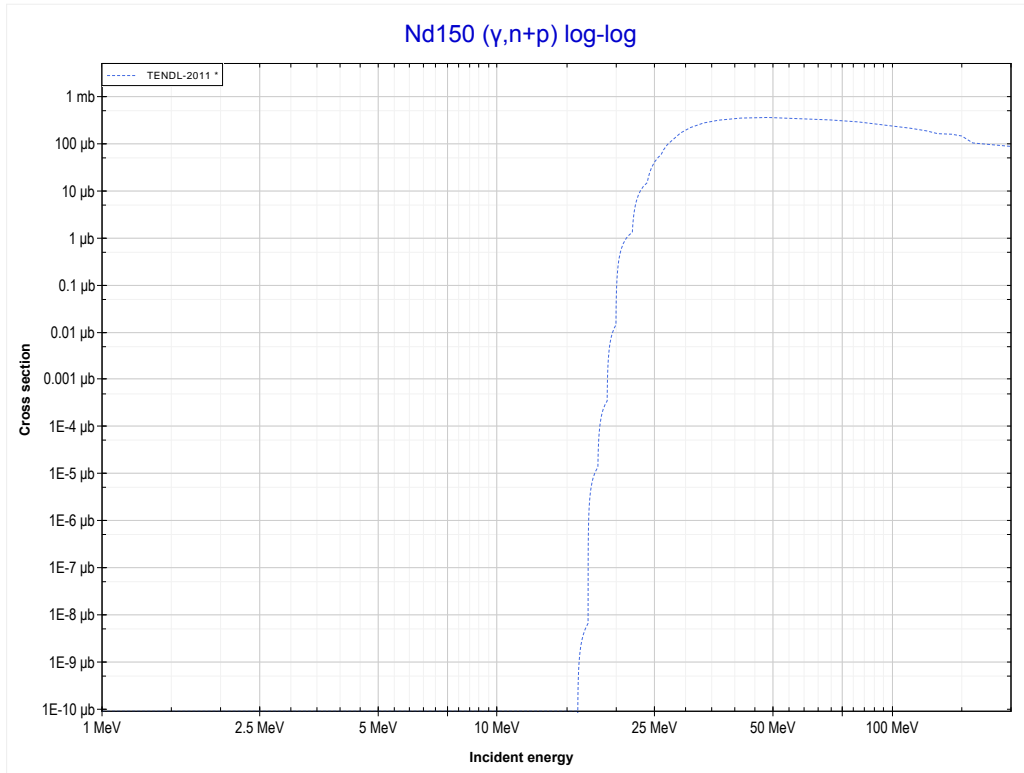
Reaction	Q-Value
Nd150(γ, n)Nd149	-7380.42 keV

<< 60-Nd-148	60-Nd-150	62-Sm-144 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Nd148 production)	MT28 ($\gamma,n+p$) >>



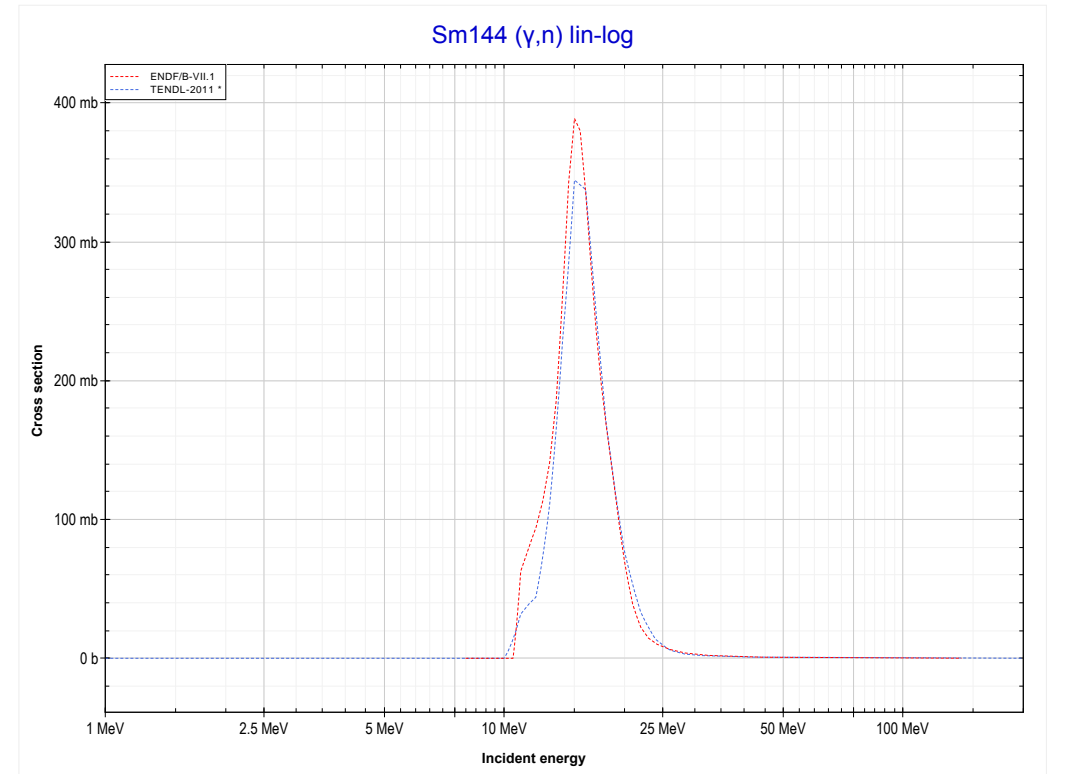
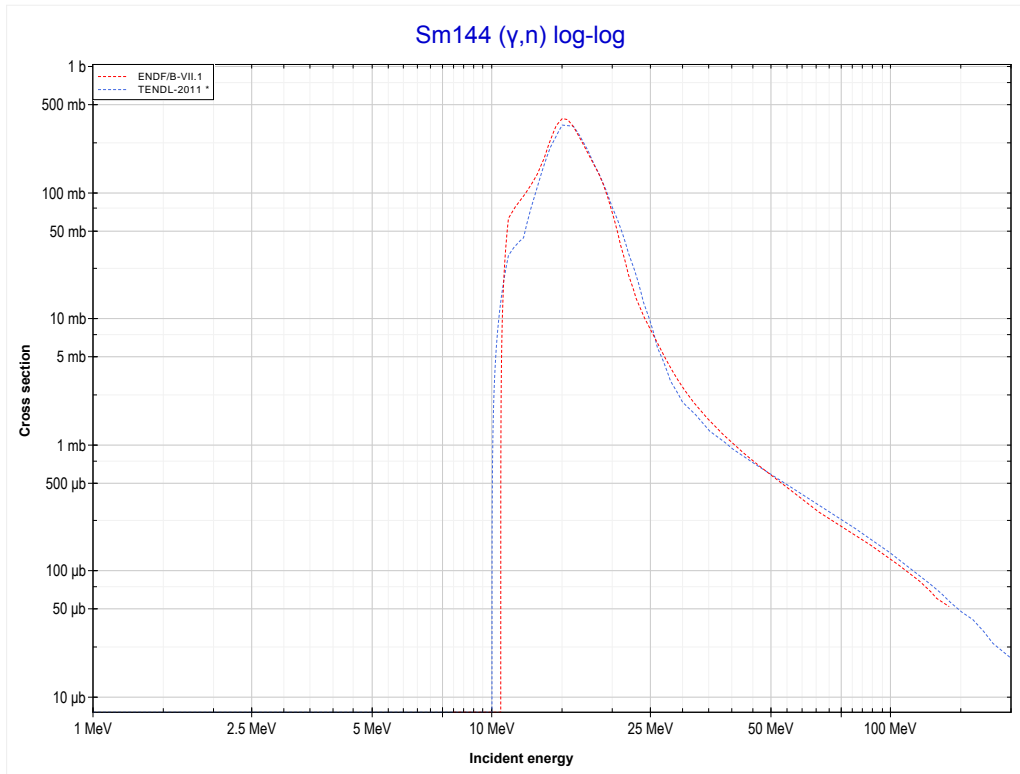
Reaction	Q-Value
Nd150($\gamma,2n$)Nd148	-12419.23 keV

<< 60-Nd-148	60-Nd-150	62-Sm-144 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pr148 production)	MT4 (γ,n) >>



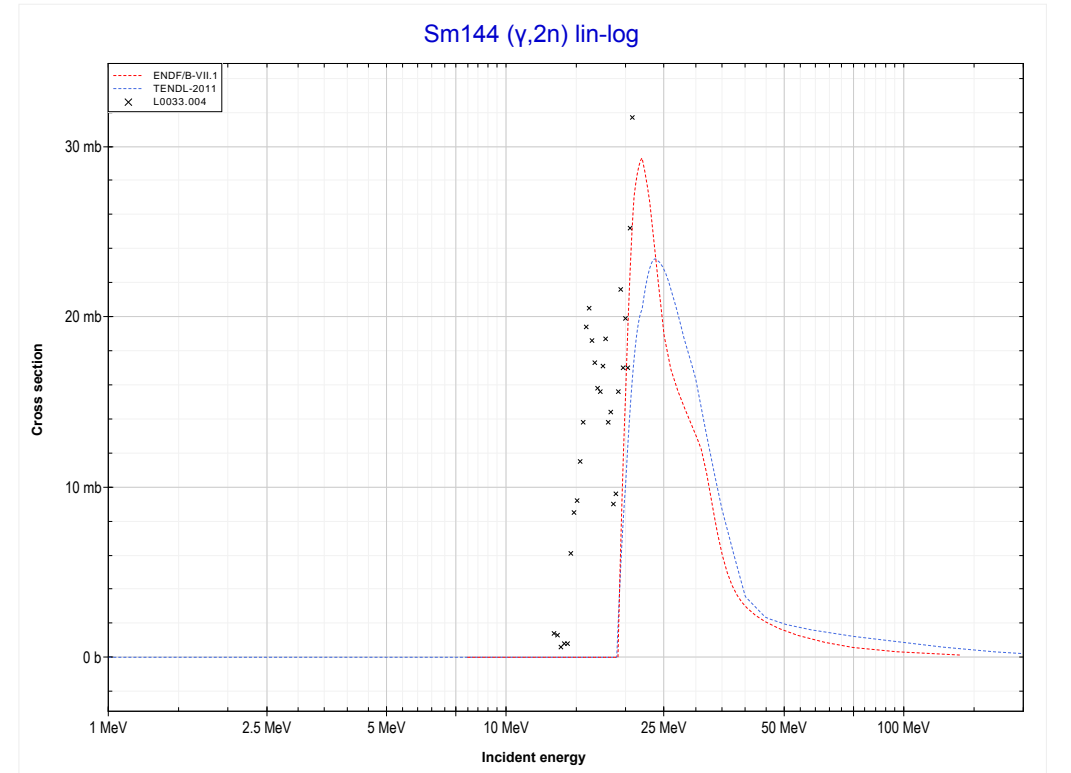
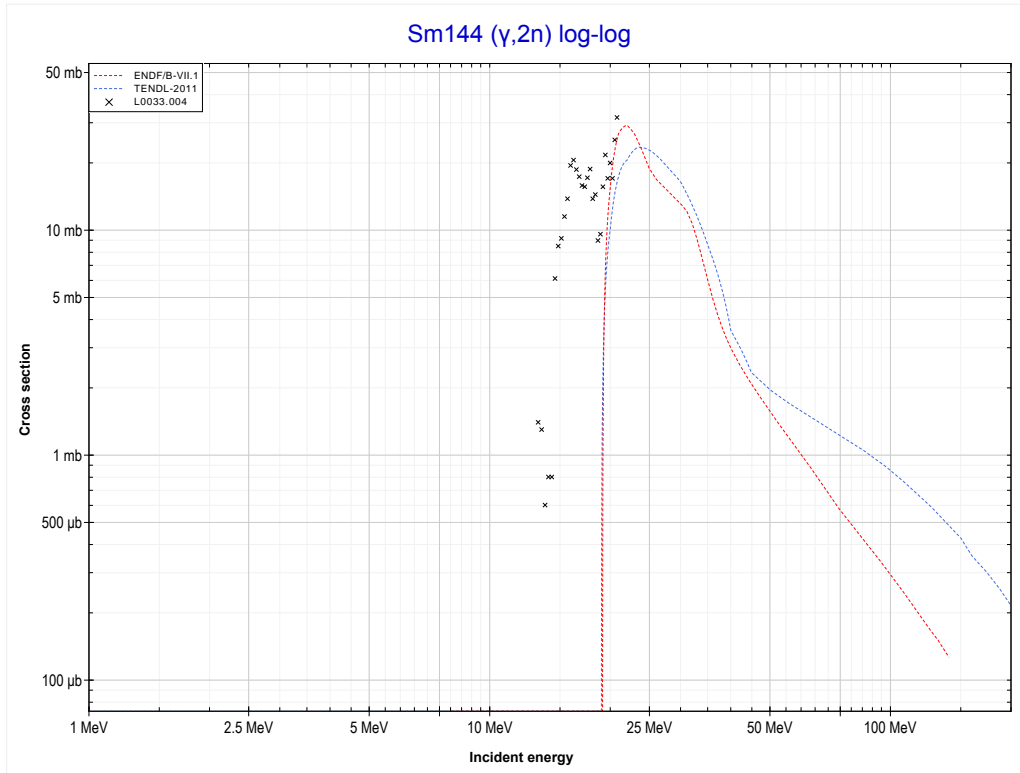
Reaction	Q-Value
Nd150(γ,d)Pr148	-14294.72 keV
Nd150($\gamma,n+p$)Pr148	-16519.29 keV

<< 60-Nd-150	62-Sm-144	62-Sm-148 >>
<< MT28 ($\gamma,n+p$)	MT4 (γ,n) or MT5 (Sm143 production)	MT16 ($\gamma,2n$) >>



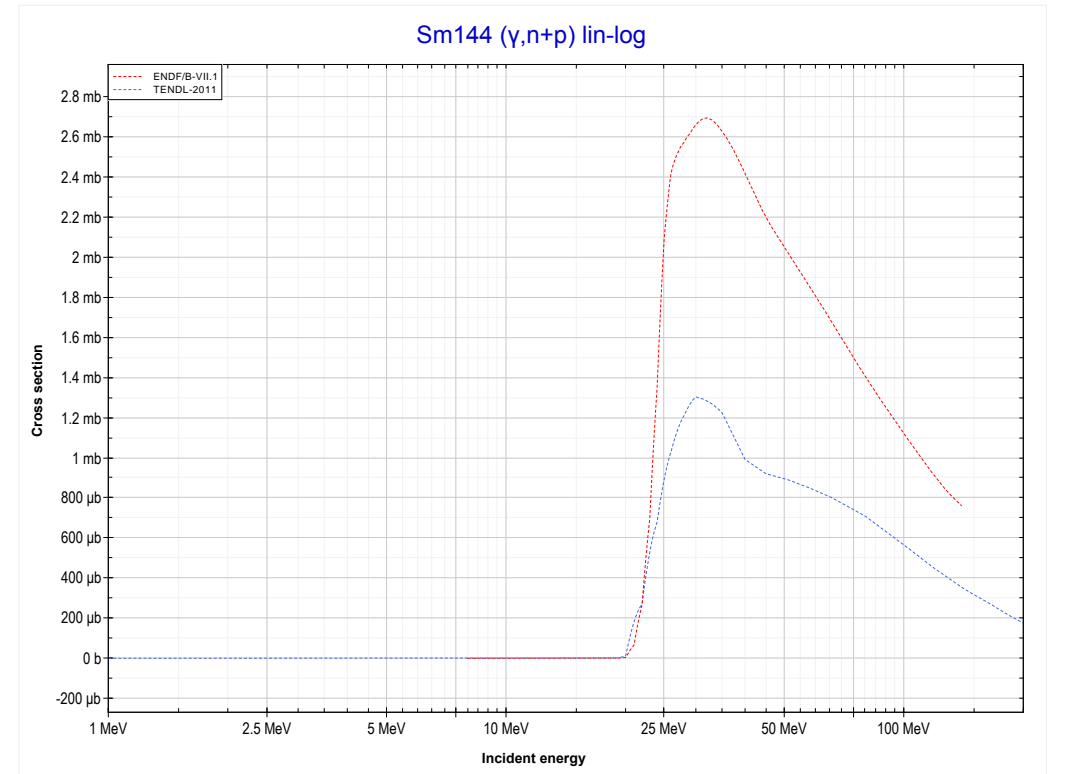
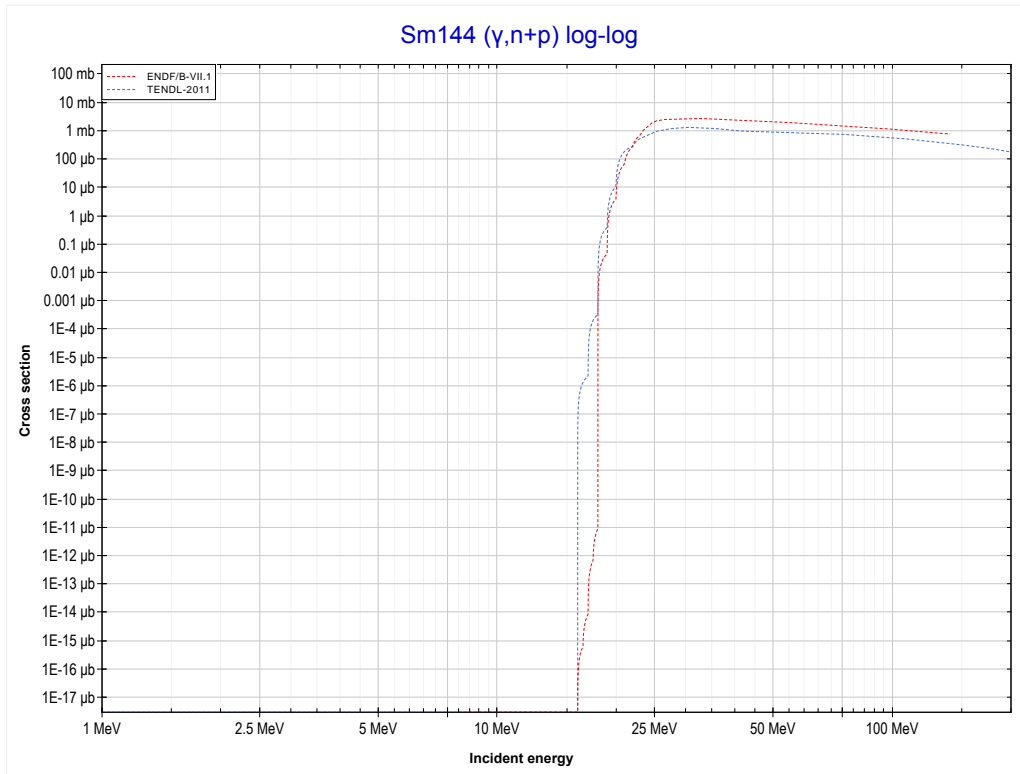
Reaction	Q-Value
Sm144(γ,n)Sm143	-10520.32 keV

<< 60-Nd-150	62-Sm-144	62-Sm-148 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Sm142 production)	MT28 ($\gamma, n+p$) >>



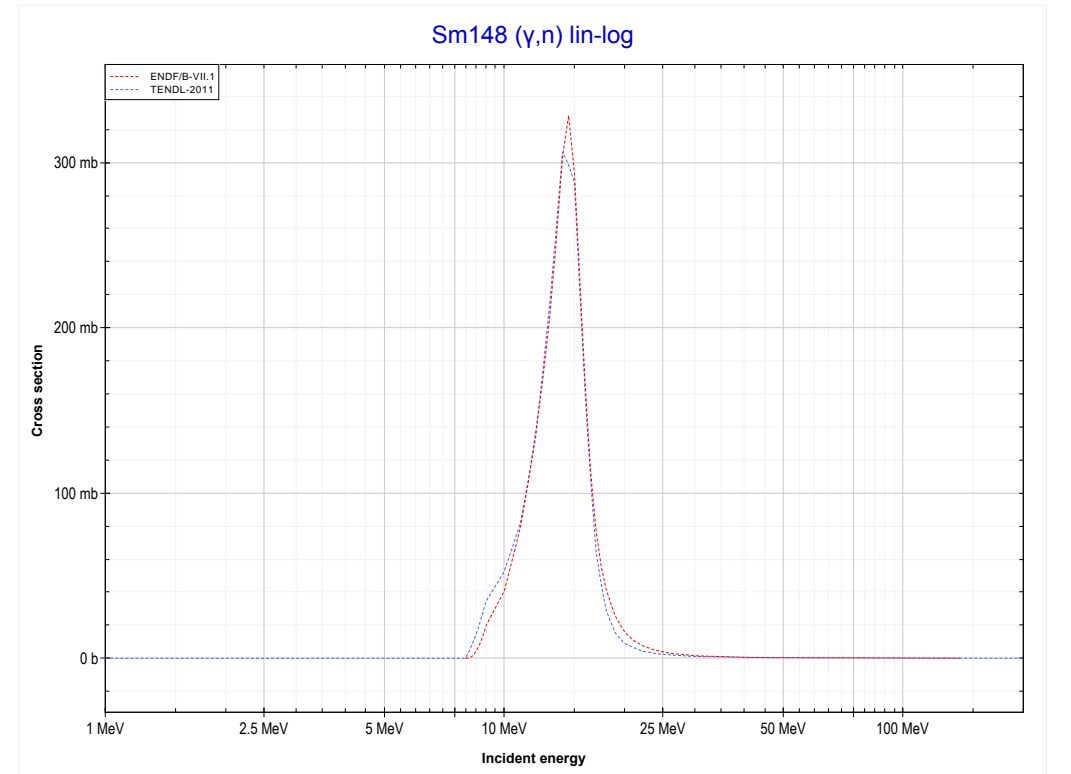
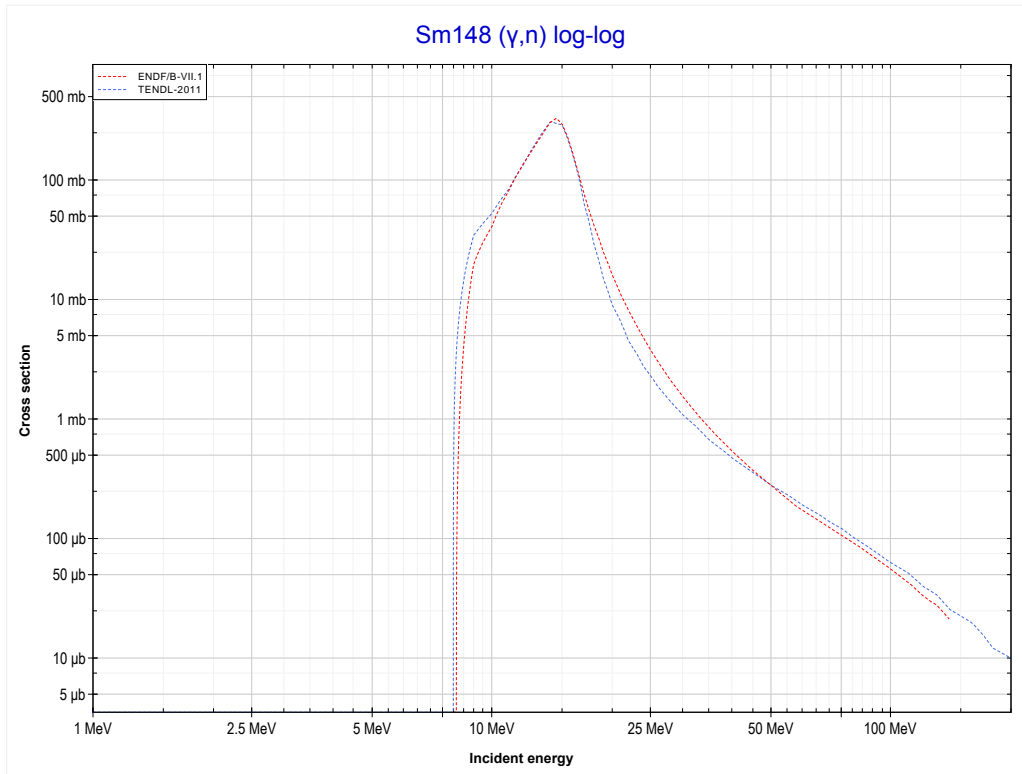
Reaction	Q-Value
Sm144($\gamma, 2n$)Sm142	-19121.63 keV

<< 60-Nd-150	62-Sm-144	62-Sm-148 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pm142 production)	MT4 (γ,n) >>



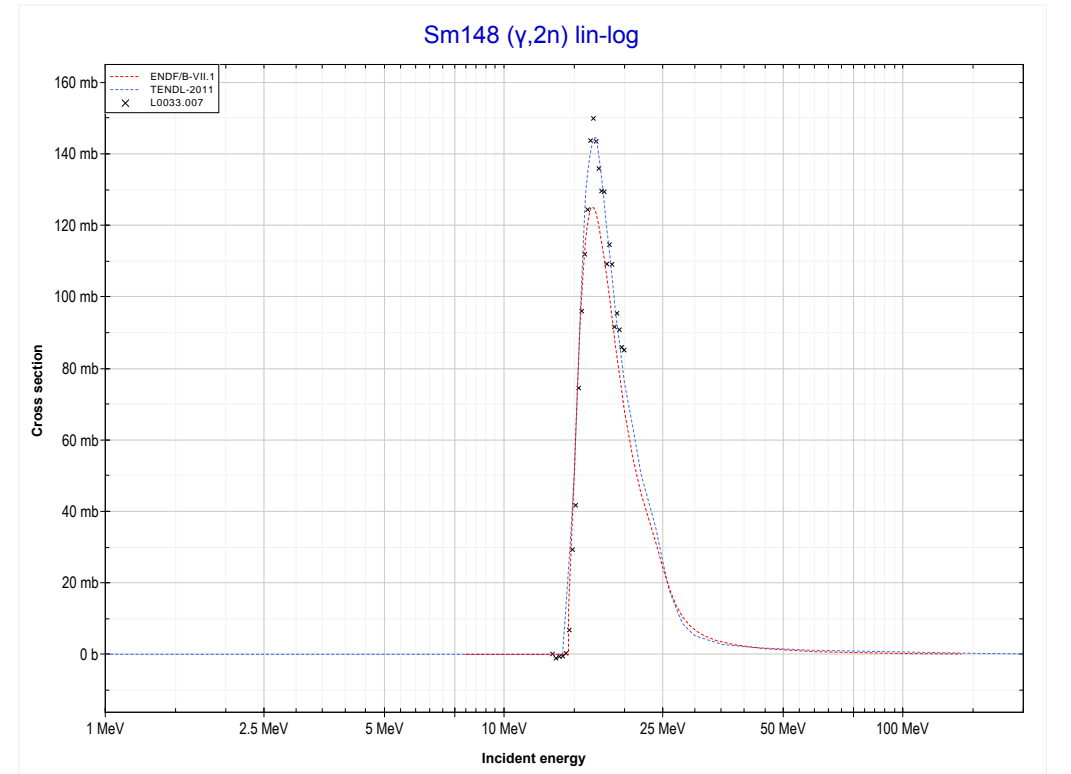
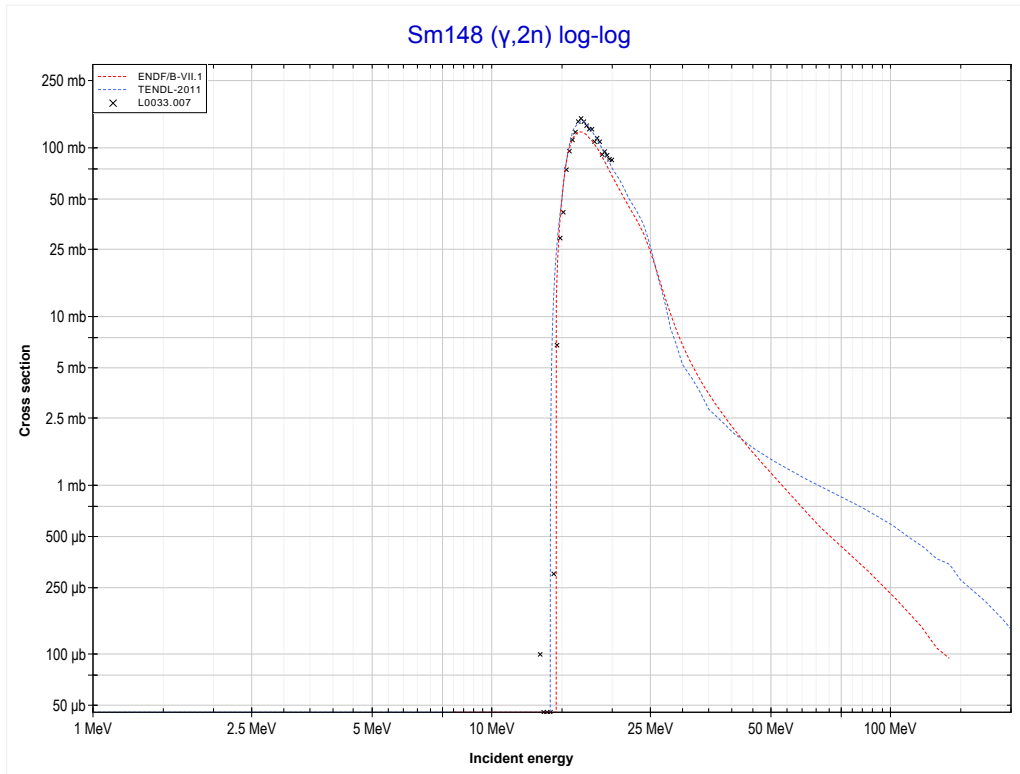
Reaction	Q-Value
Sm144(γ,d)Pm142	-13950.72 keV
Sm144($\gamma,n+p$)Pm142	-16175.29 keV

<< 62-Sm-144	62-Sm-148	62-Sm-150 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Sm147 production)	MT16 ($\gamma, 2n$) >>



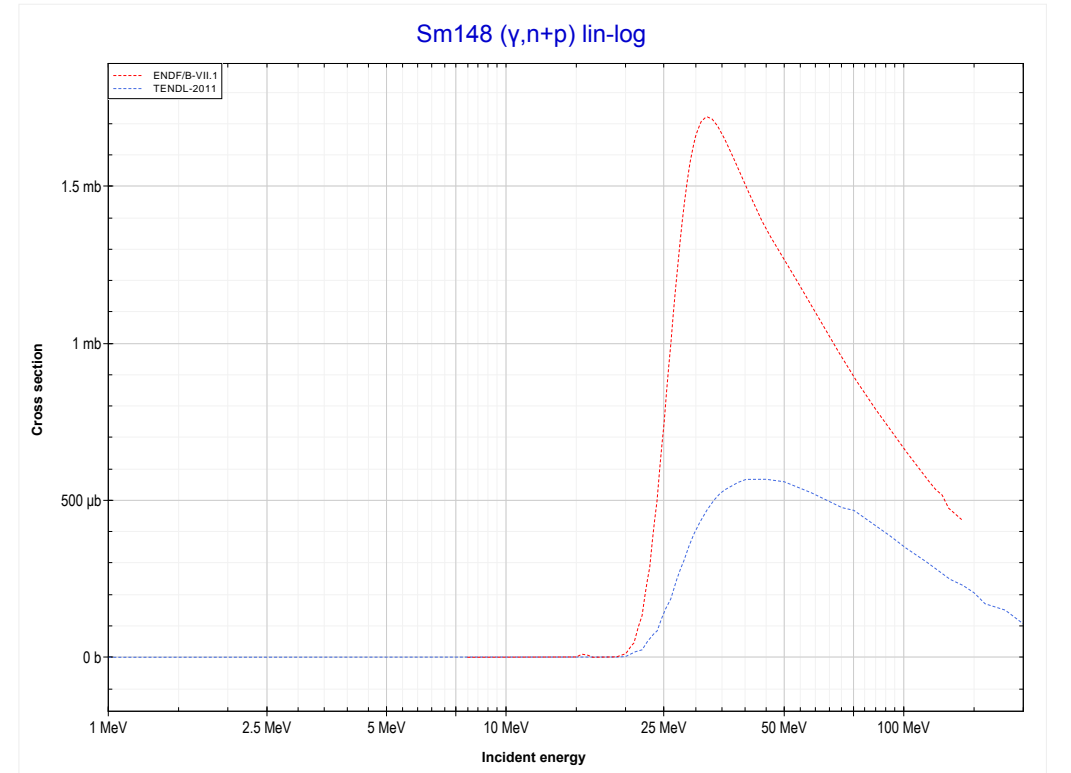
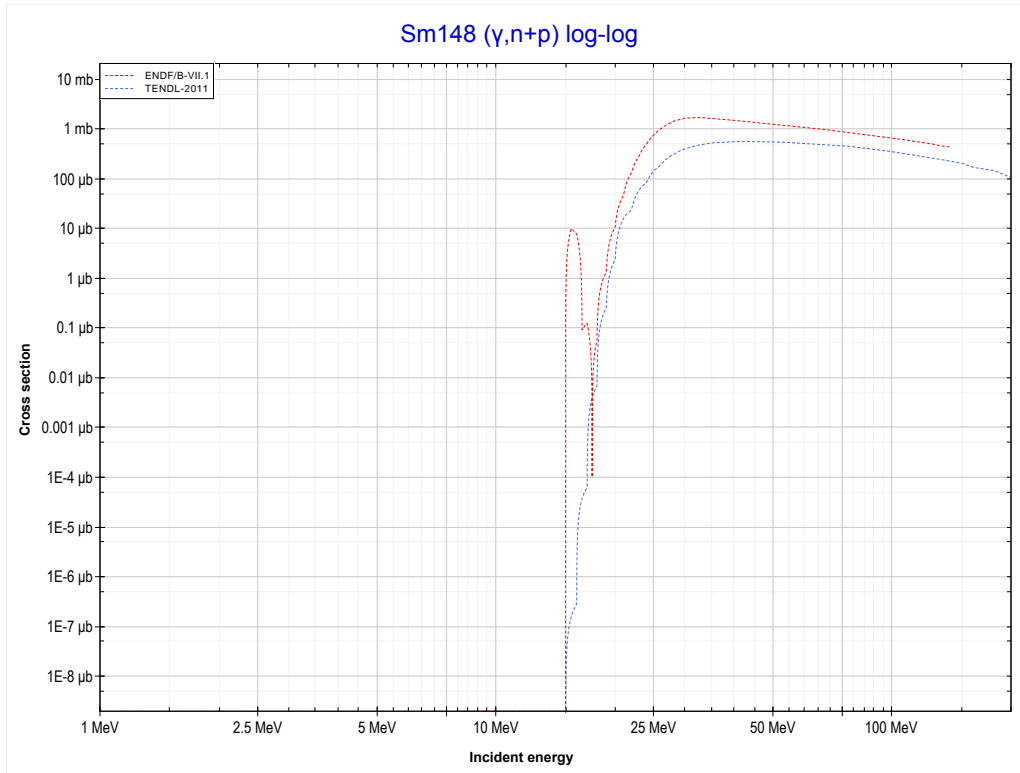
Reaction	Q-Value
Sm148(γ, n)Sm147	-8141.42 keV

<< 62-Sm-144	62-Sm-148	62-Sm-150 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Sm146 production)	MT28 ($\gamma, n+p$) >>



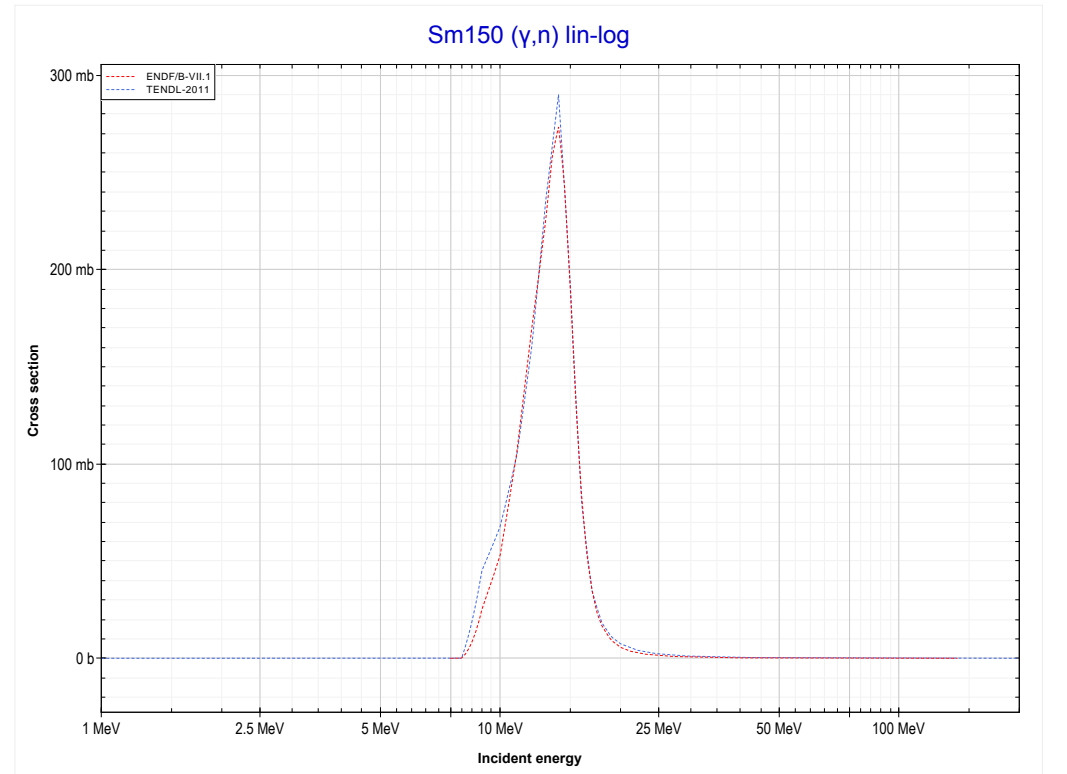
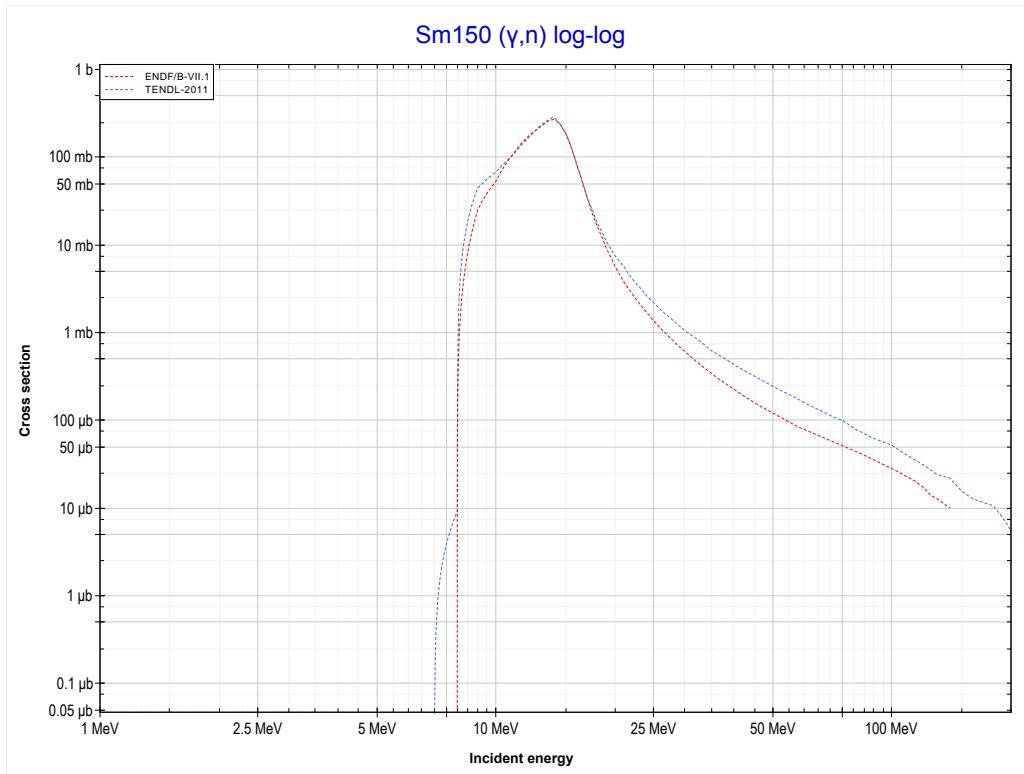
Reaction	Q-Value
Sm148($\gamma, 2n$)Sm146	-14482.83 keV

<< 62-Sm-144	62-Sm-148	62-Sm-150 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pm146 production)	MT4 (γ,n) >>



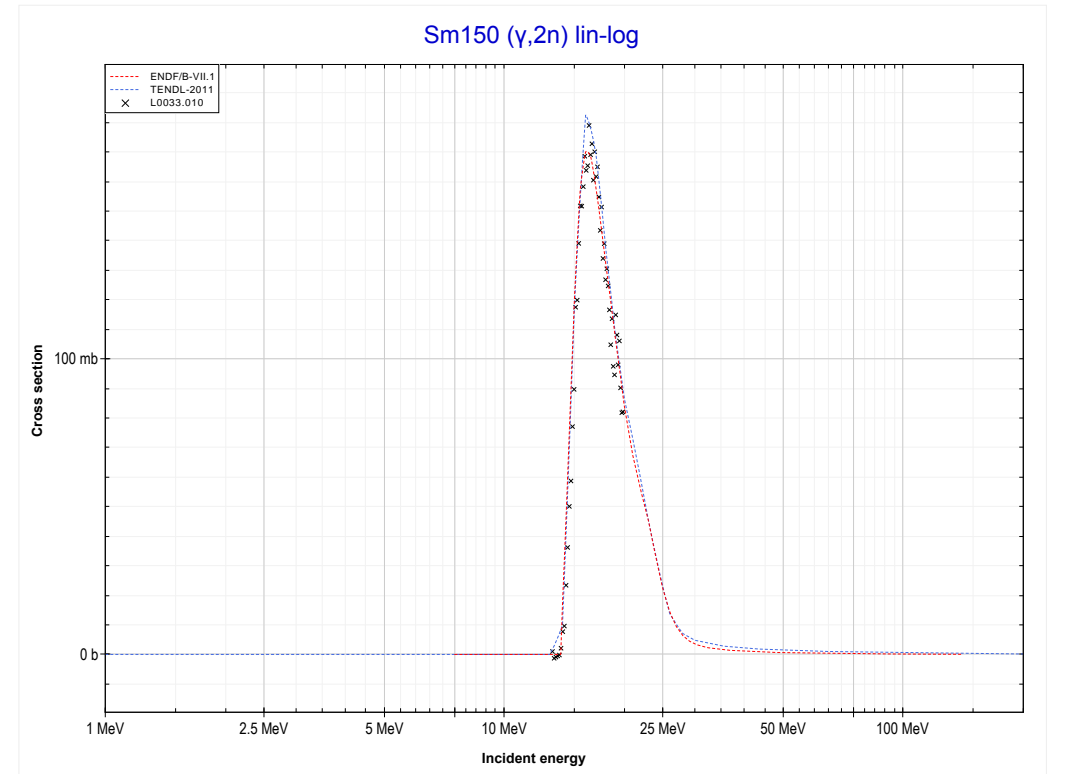
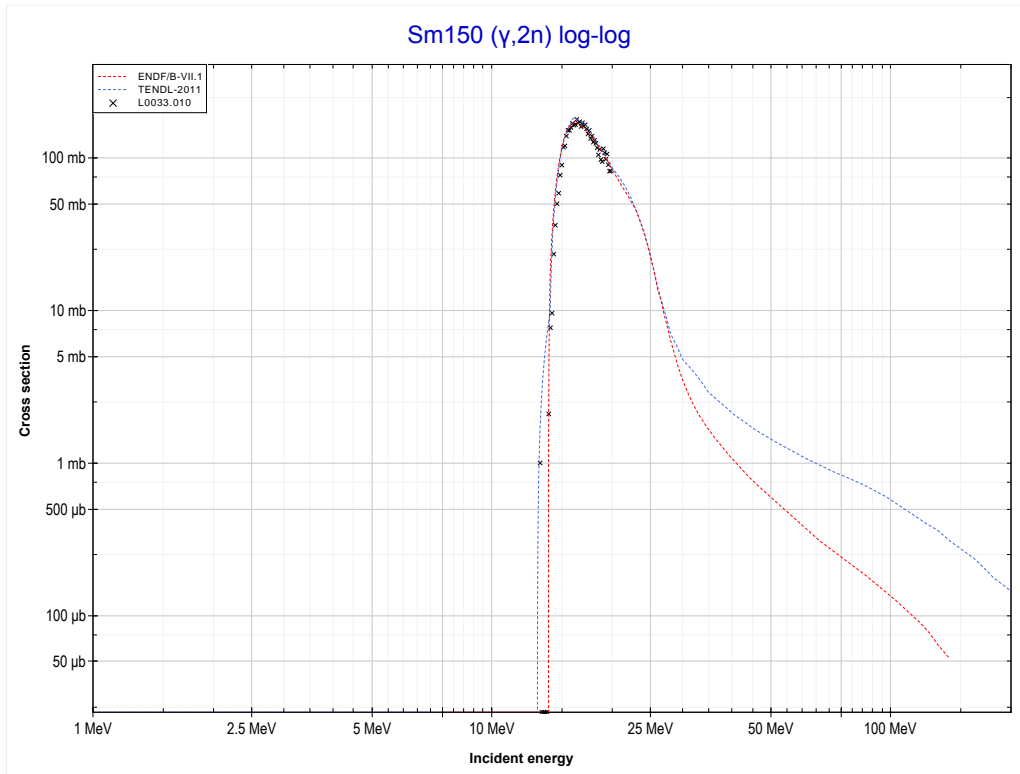
Reaction	Q-Value
Sm148(γ,d)Pm146	-13017.92 keV
Sm148($\gamma,n+p$)Pm146	-15242.49 keV

<< 62-Sm-148	62-Sm-150	62-Sm-152 >>
<< MT28 ($\gamma,n+p$)	MT4 (γ,n) or MT5 (Sm149 production)	MT16 ($\gamma,2n$) >>



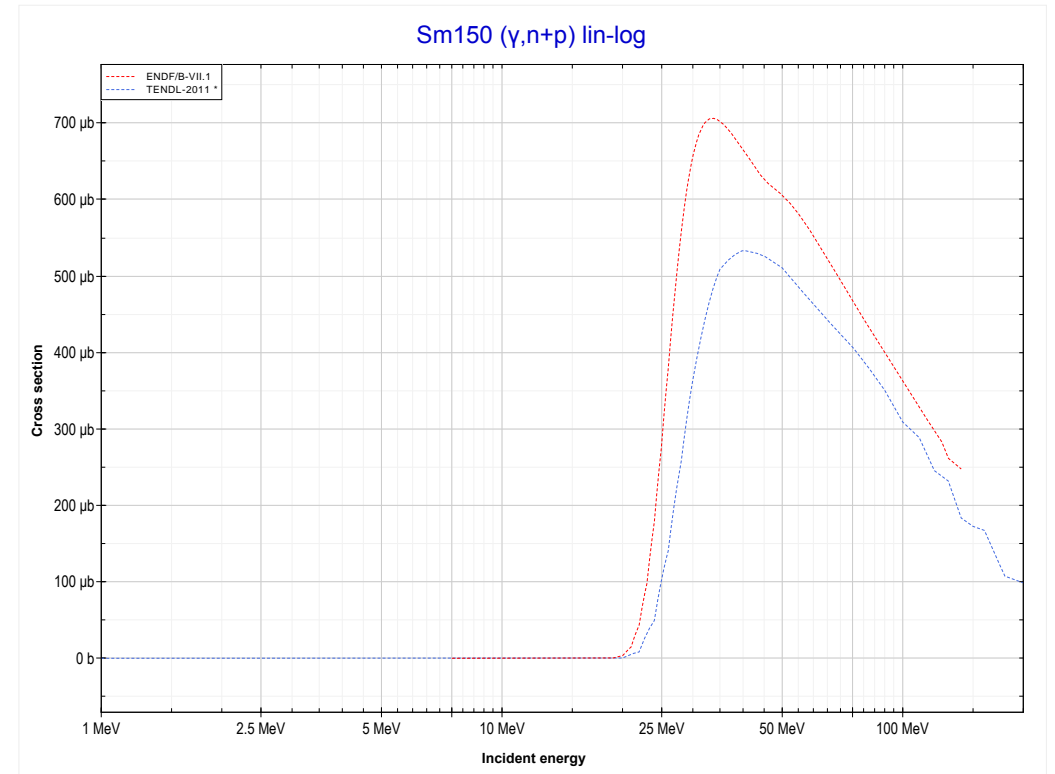
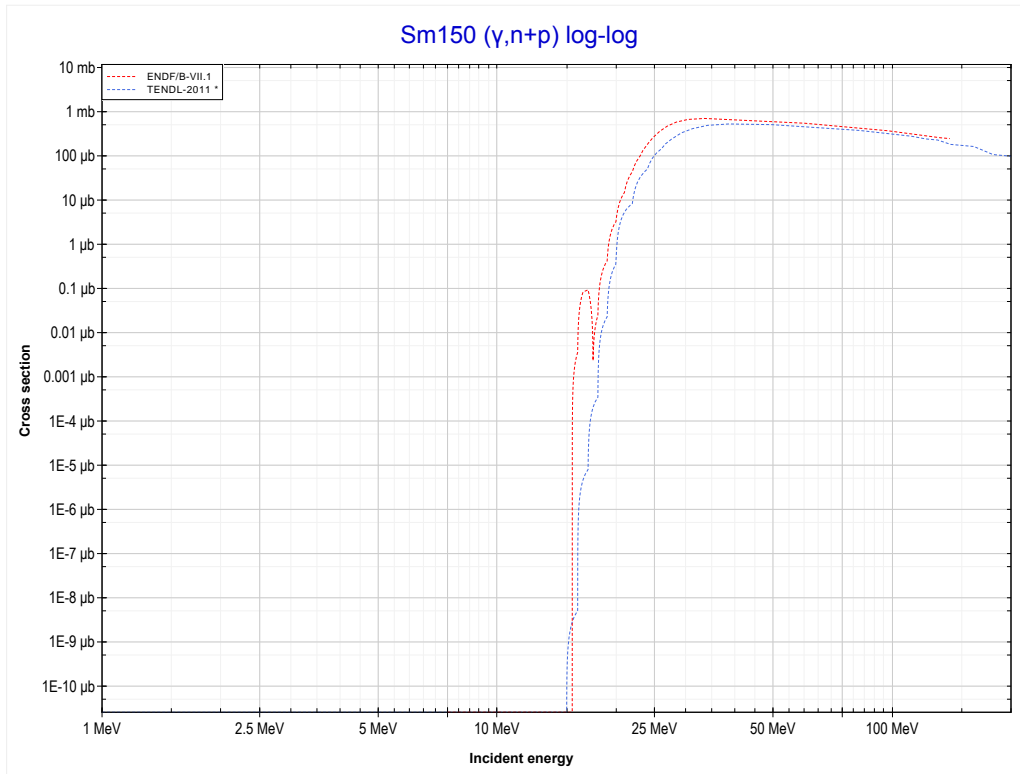
Reaction	Q-Value
Sm150(γ,n)Sm149	-7986.72 keV

<< 62-Sm-148	62-Sm-150	62-Sm-152 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Sm148 production)	MT28 ($\gamma, n+p$) >>



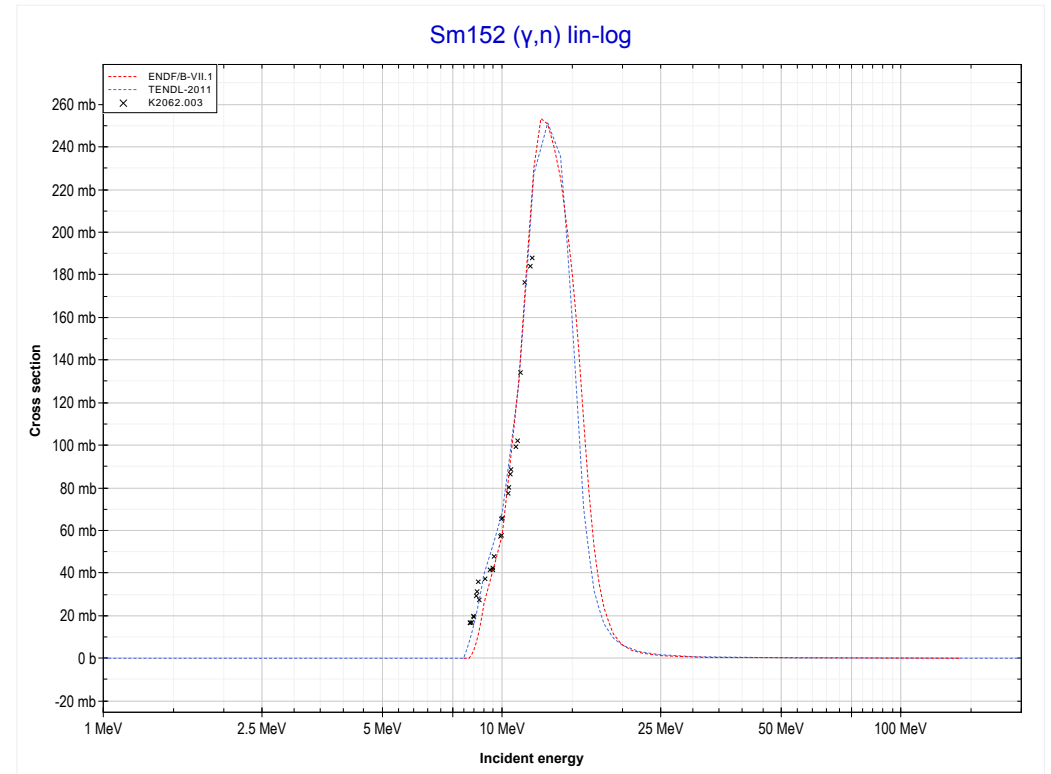
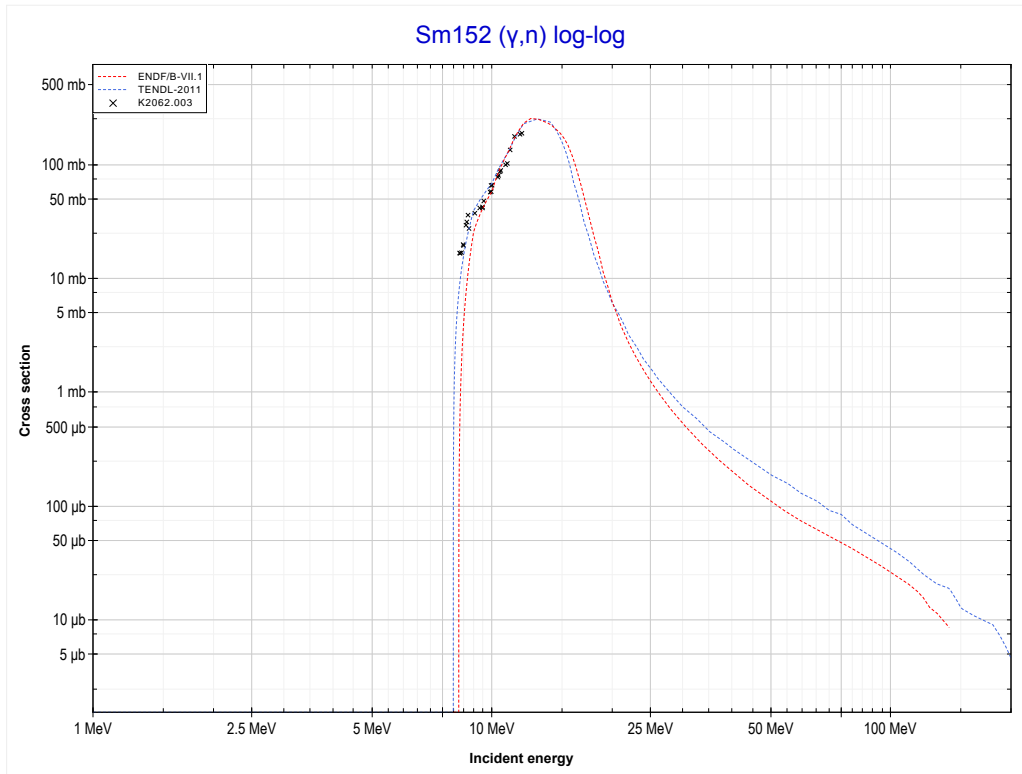
Reaction	Q-Value
Sm150($\gamma, 2n$)Sm148	-13857.73 keV

<< 62-Sm-148	62-Sm-150	62-Sm-152 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pm148 production)	MT4 (γ,n) >>



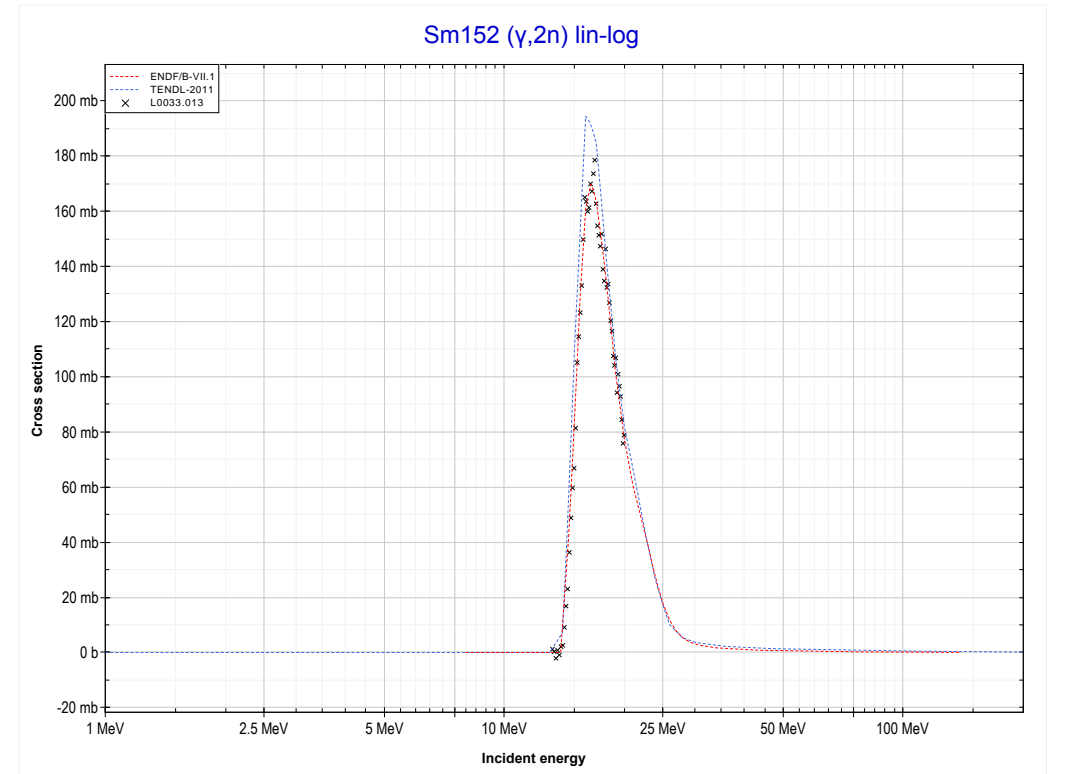
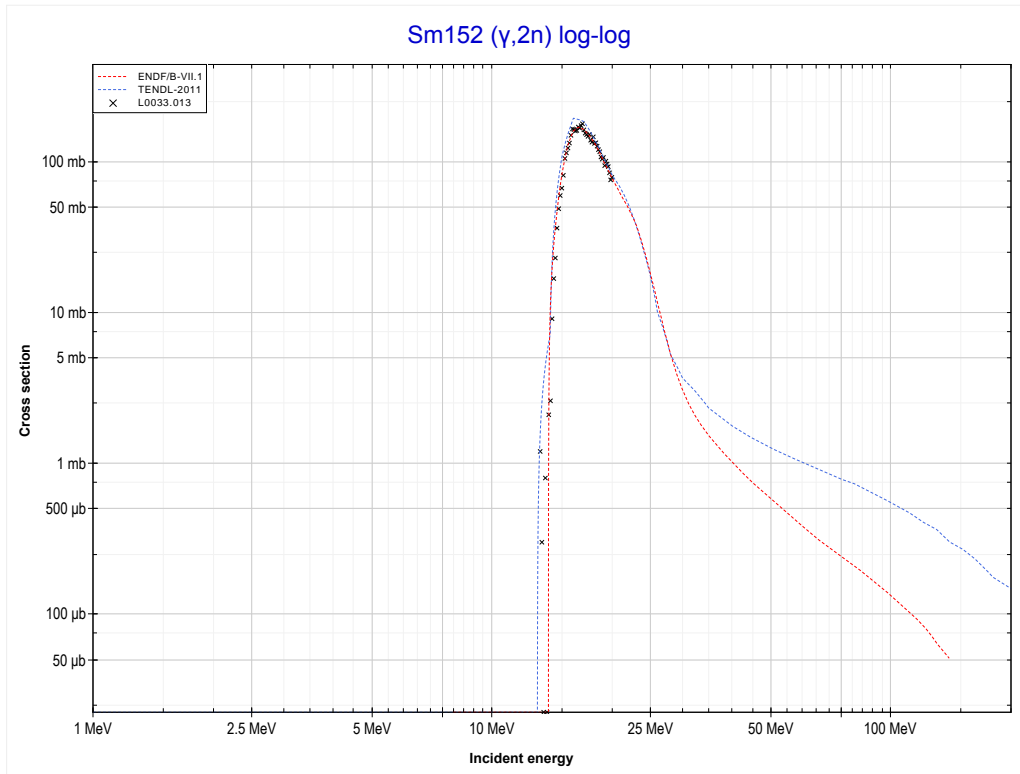
Reaction	Q-Value
Sm150(γ,d)Pm148	-13321.02 keV
Sm150($\gamma,n+p$)Pm148	-15545.59 keV

<< 62-Sm-150	62-Sm-152	62-Sm-154 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Sm151 production)	MT16 ($\gamma, 2n$) >>



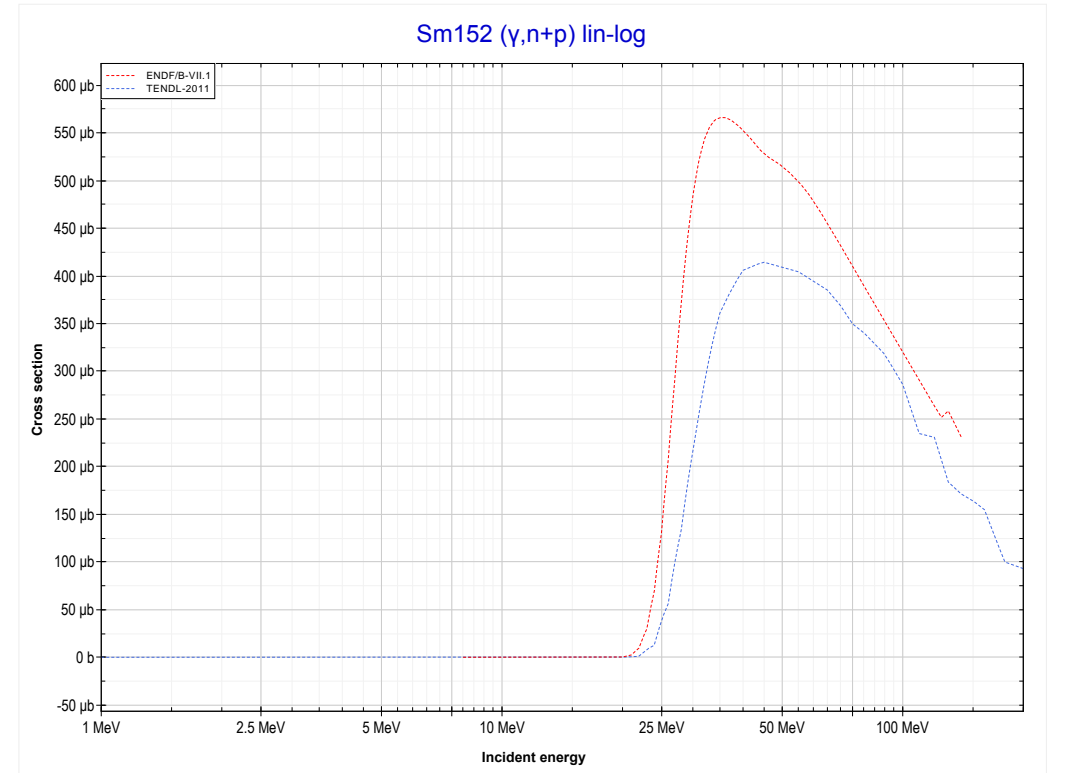
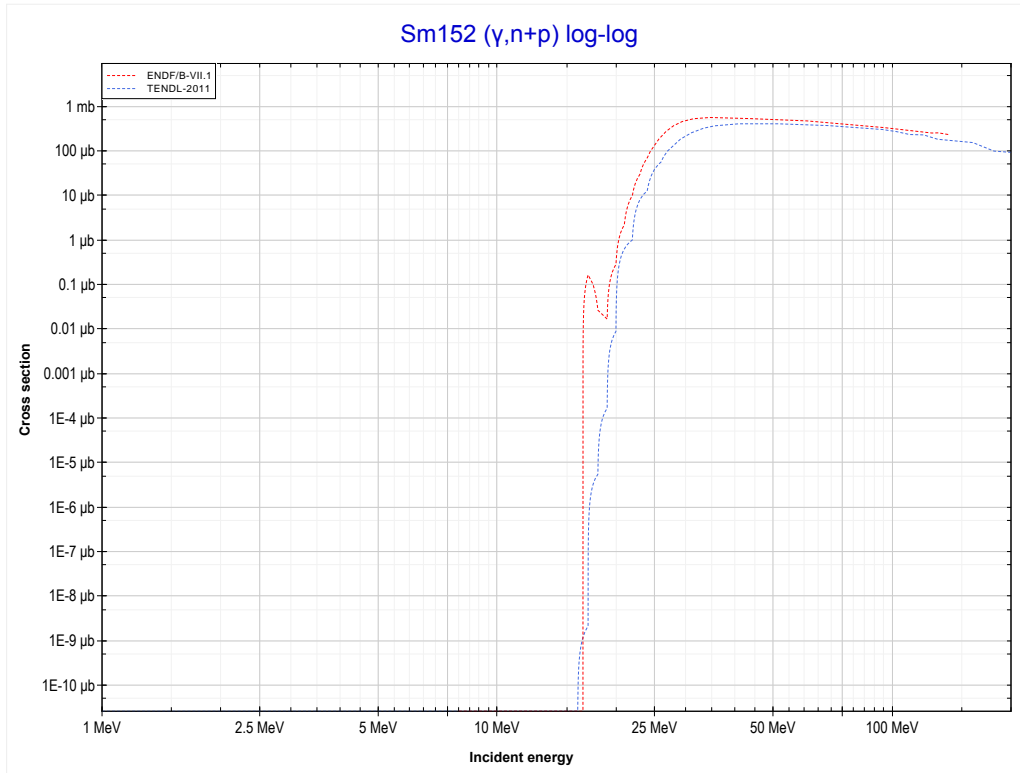
Reaction	Q-Value
Sm152(γ, n)Sm151	-8257.62 keV

<< 62-Sm-150	62-Sm-152	62-Sm-154 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Sm150 production)	MT28 ($\gamma, n+p$) >>



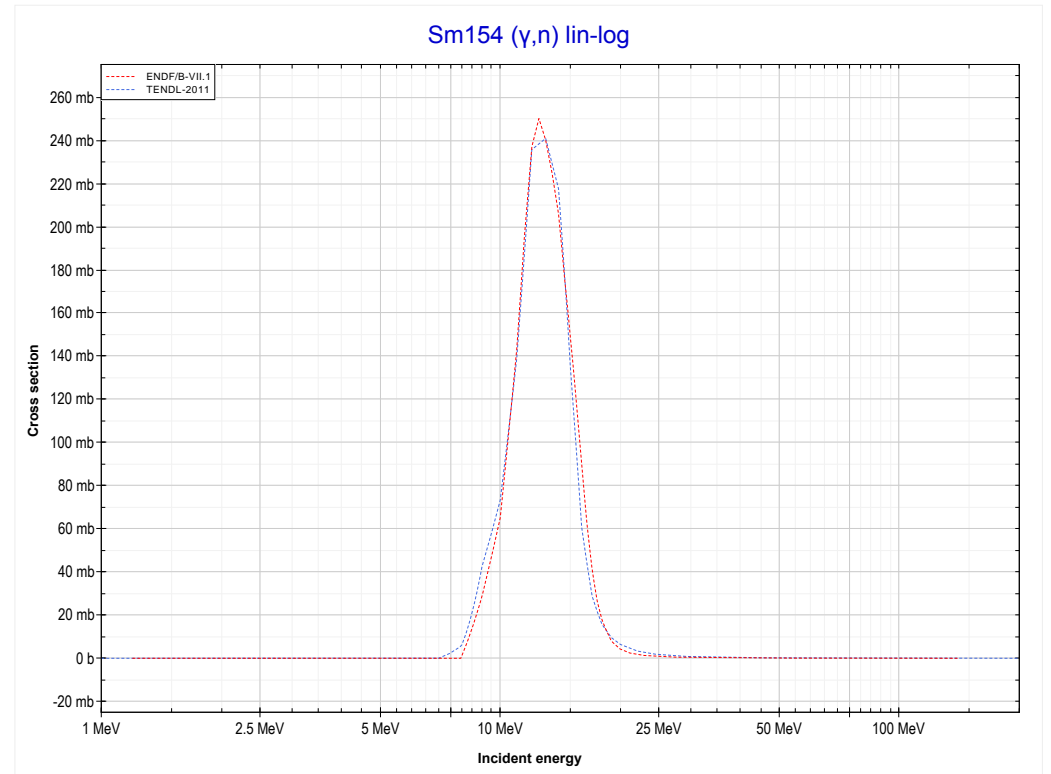
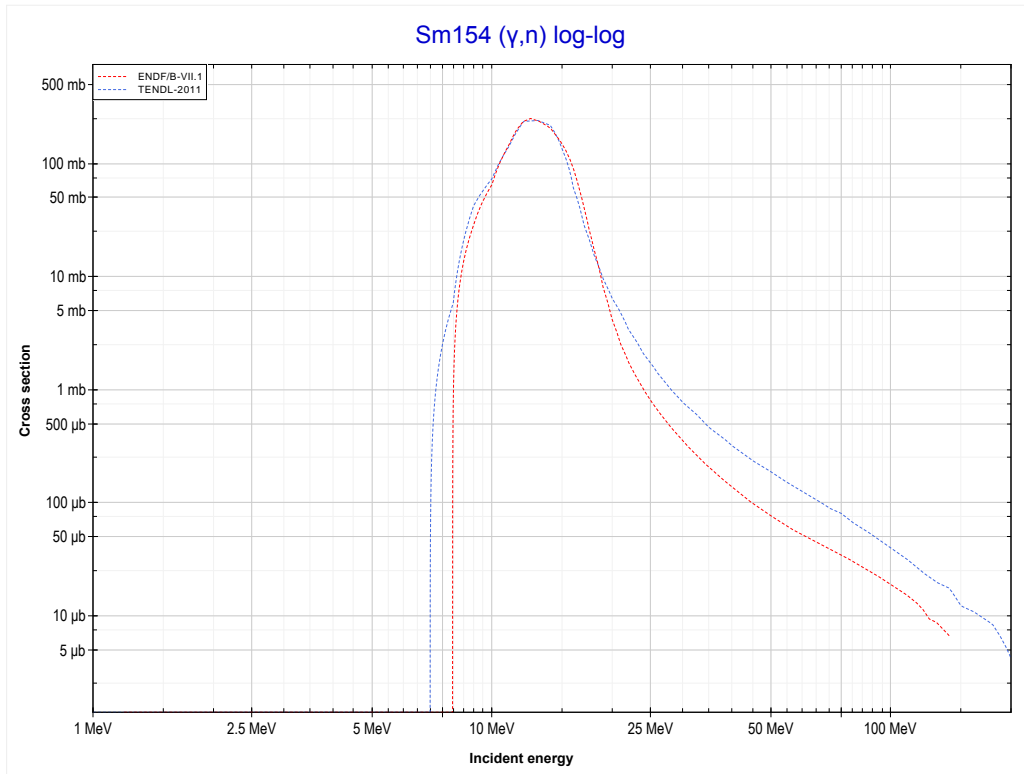
Reaction	Q-Value
Sm152($\gamma, 2n$)Sm150	-13854.13 keV

<< 62-Sm-150	62-Sm-152	62-Sm-154 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pm150 production)	MT4 (γ,n) >>



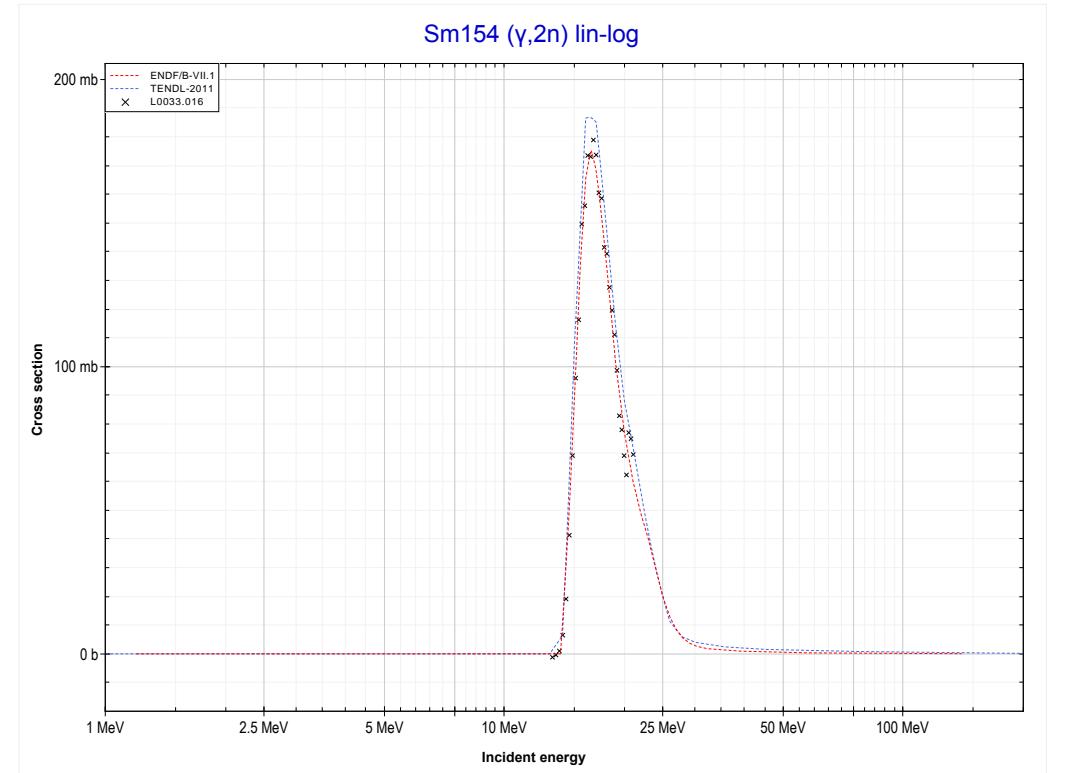
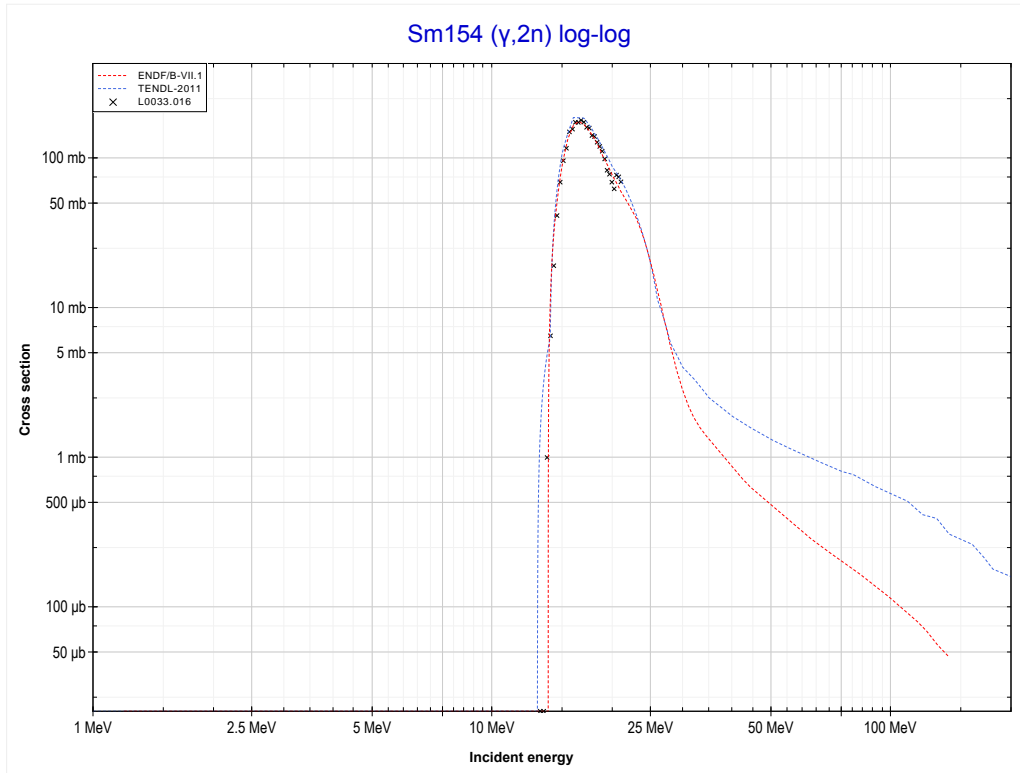
Reaction	Q-Value
Sm152(γ,d)Pm150	-14301.52 keV
Sm152($\gamma,n+p$)Pm150	-16526.09 keV

<< 62-Sm-152	62-Sm-154	63-Eu-153 >>
<< MT28 ($\gamma,n+p$)	MT4 (γ,n) or MT5 (Sm153 production)	MT16 ($\gamma,2n$) >>



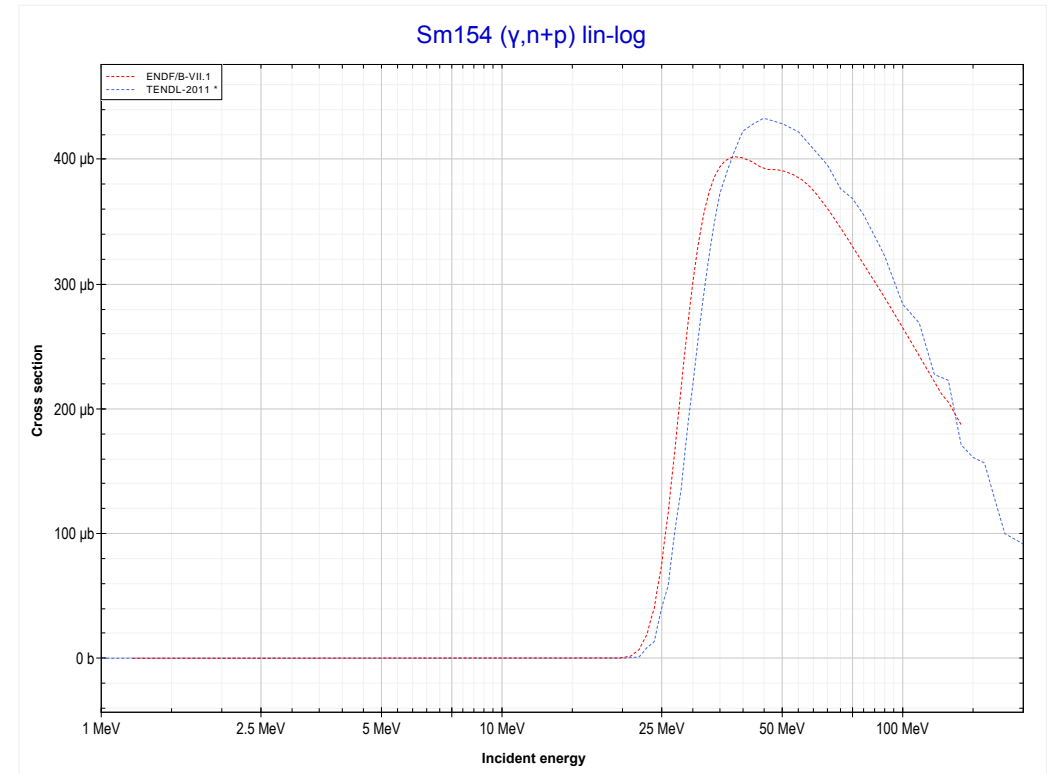
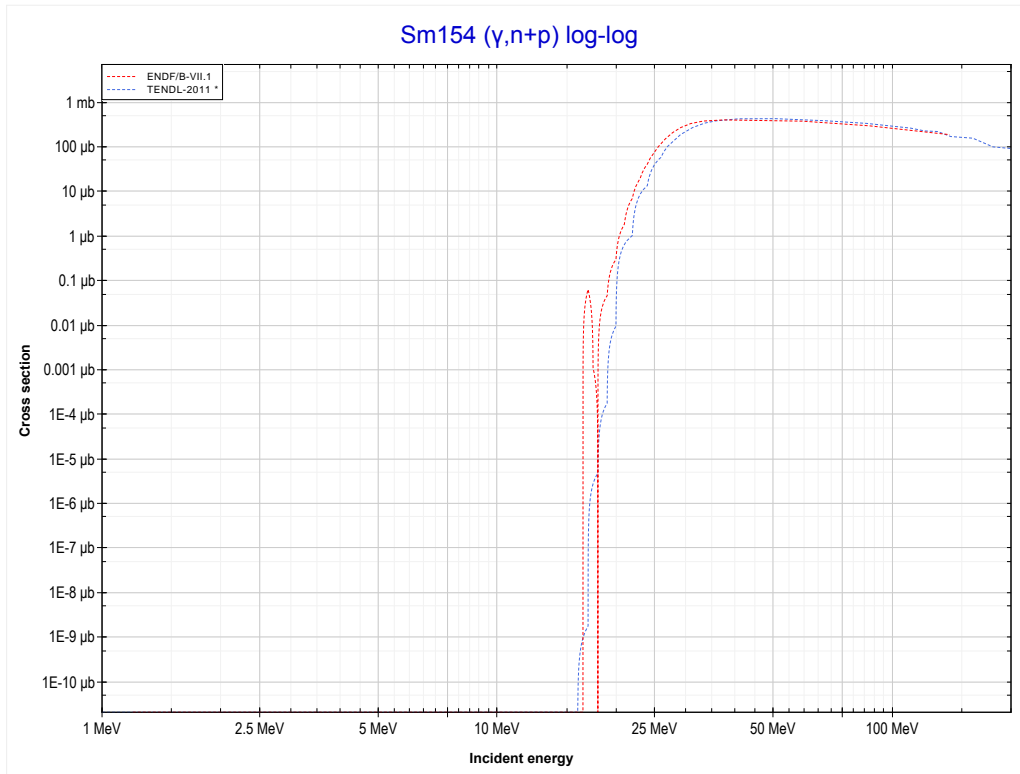
Reaction	Q-Value
Sm154(γ,n)Sm153	-7967.12 keV

<< 62-Sm-152	62-Sm-154	63-Eu-153 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Sm152 production)	MT28 ($\gamma,n+p$) >>



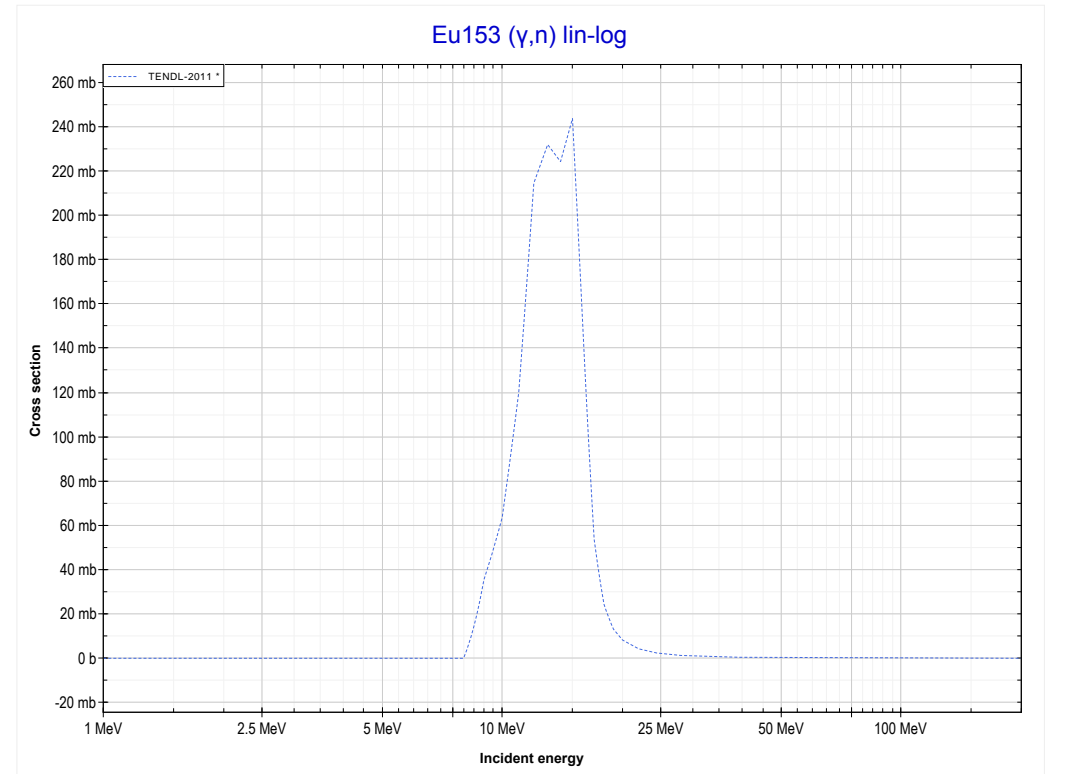
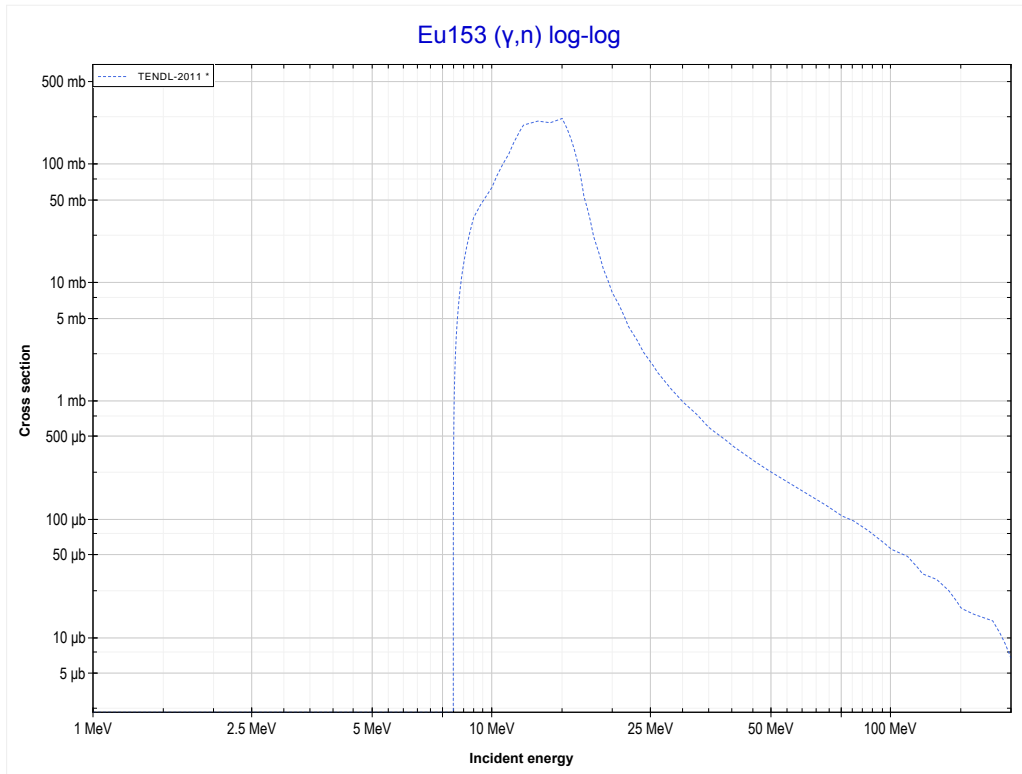
Reaction	Q-Value
Sm154($\gamma,2n$)Sm152	-13835.43 keV

<< 62-Sm-152	62-Sm-154	63-Eu-153 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Pm152 production)	MT4 (γ,n) >>



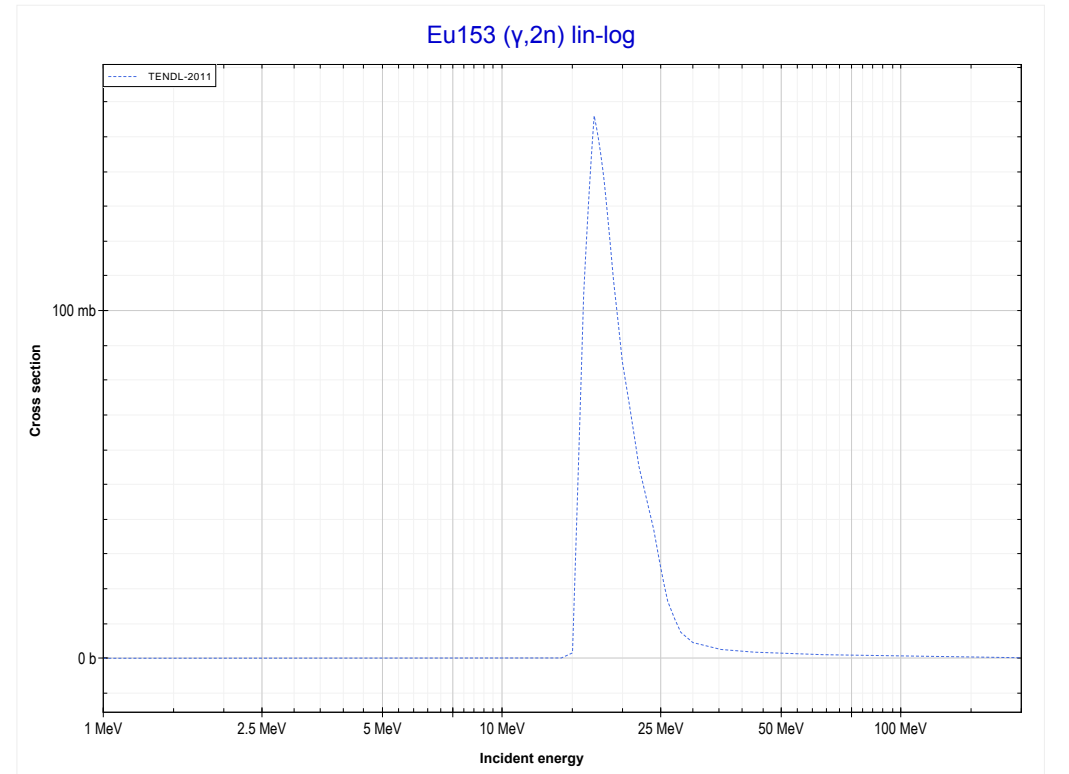
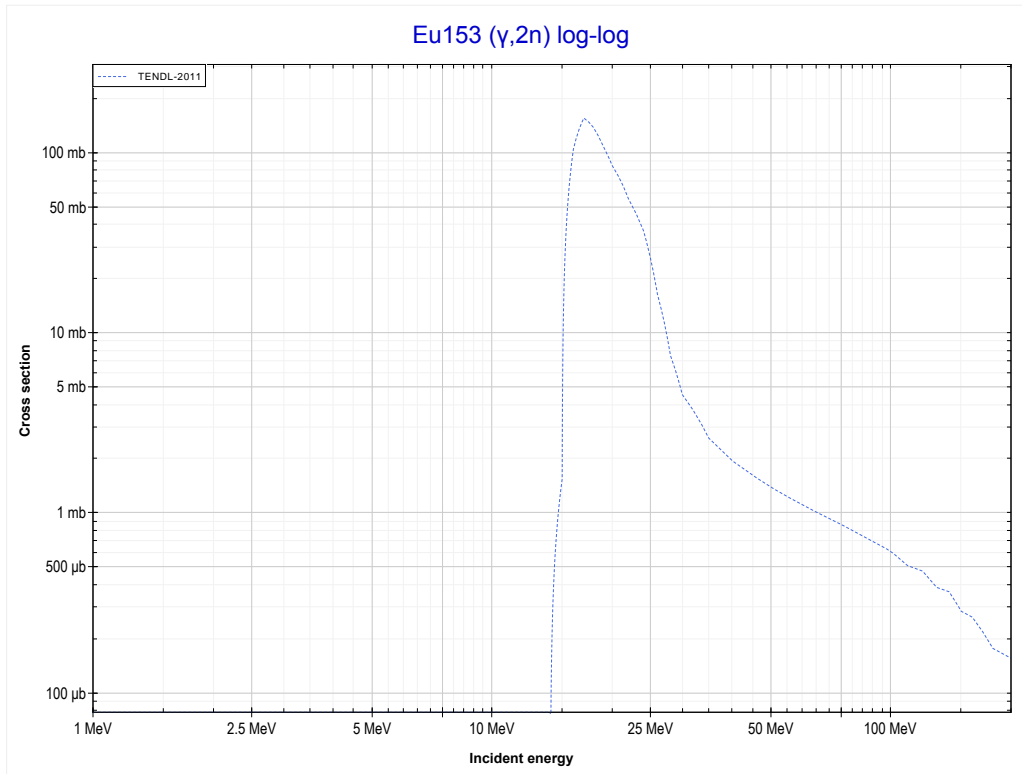
Reaction	Q-Value
Sm154(γ,d)Pm152	-14335.32 keV
Sm154($\gamma,n+p$)Pm152	-16559.89 keV

<< 62-Sm-154	63-Eu-153	64-Gd-160 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Eu152 production)	MT16 ($\gamma, 2n$) >>



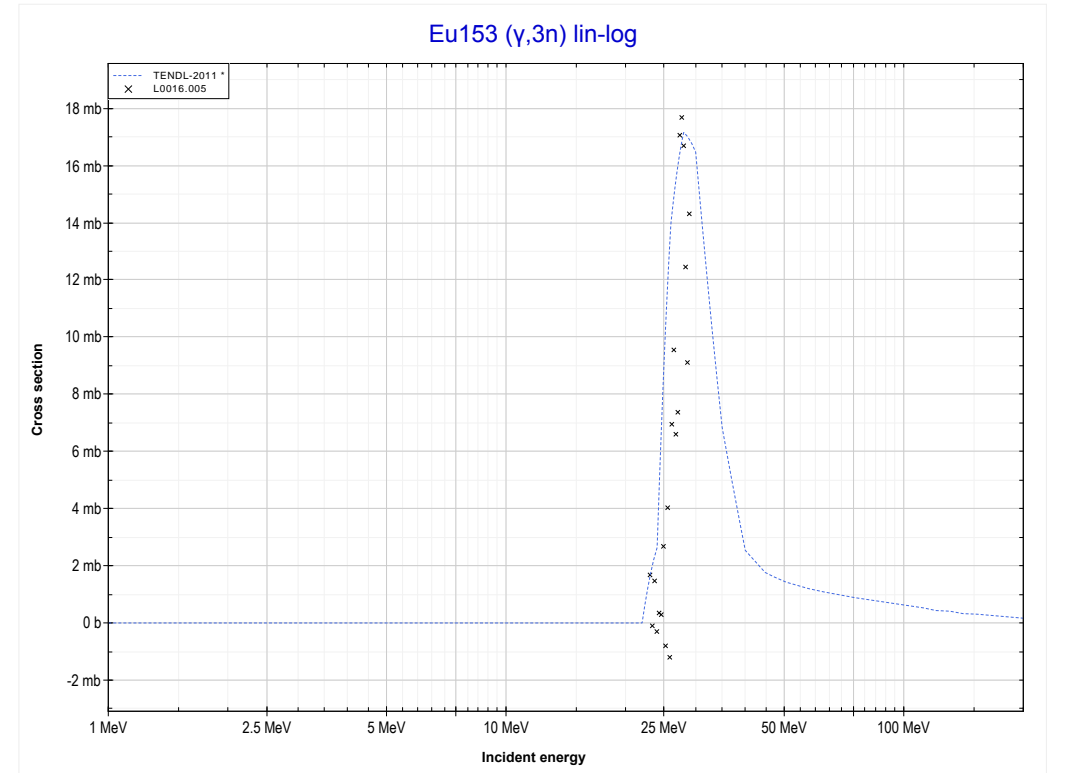
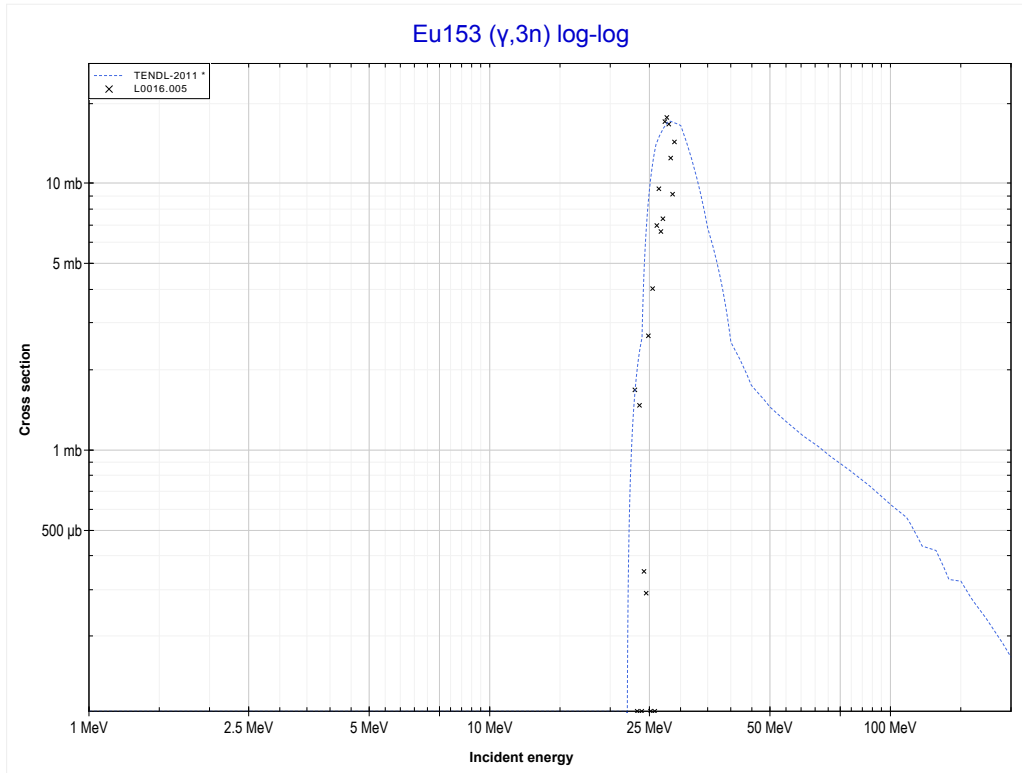
Reaction	Q-Value
Eu153(γ, n)Eu152	-8550.32 keV

<< 62-Sm-154	63-Eu-153	64-Gd-160 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Eu151 production)	MT17 ($\gamma,3n$) >>



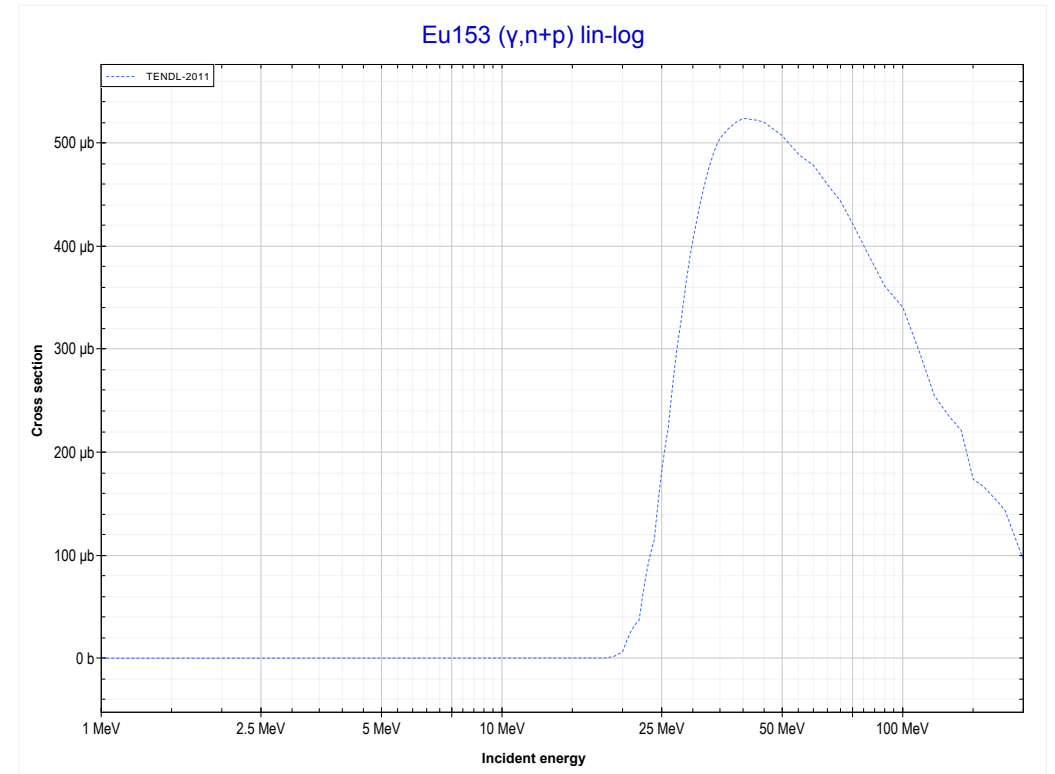
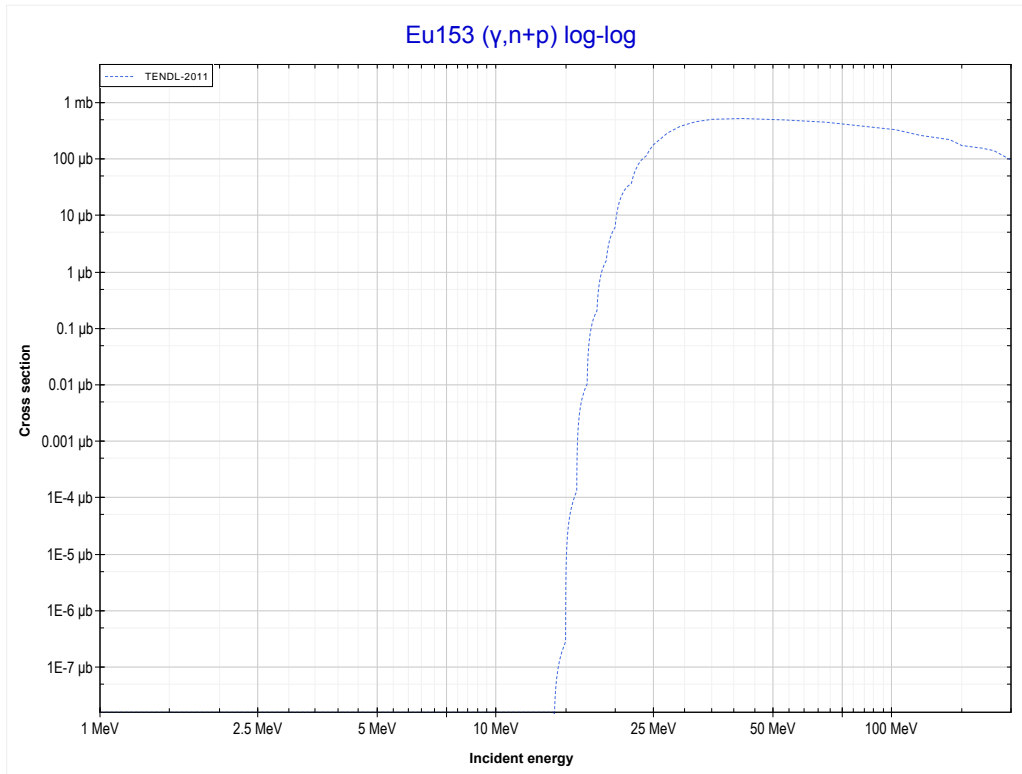
Reaction	Q-Value
Eu153($\gamma,2n$)Eu151	-14857.03 keV

<< 59-Pr-141	63-Eu-153	64-Gd-160 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Eu150 production)	MT28 ($\gamma,n+p$) >>



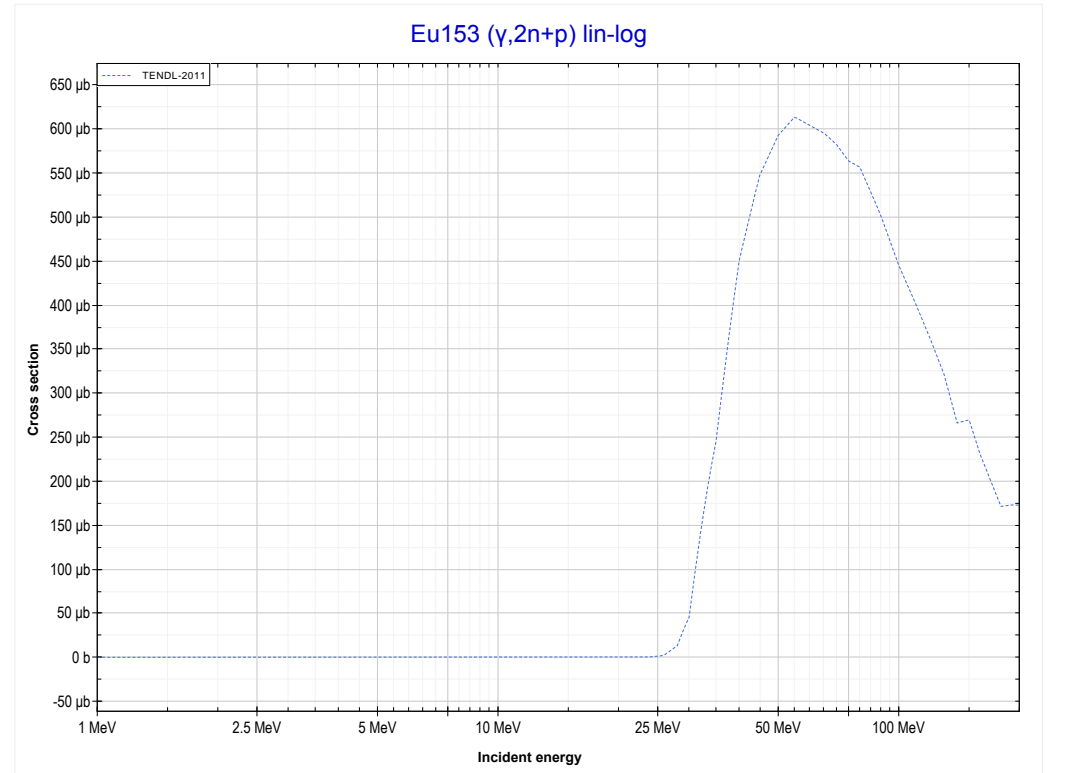
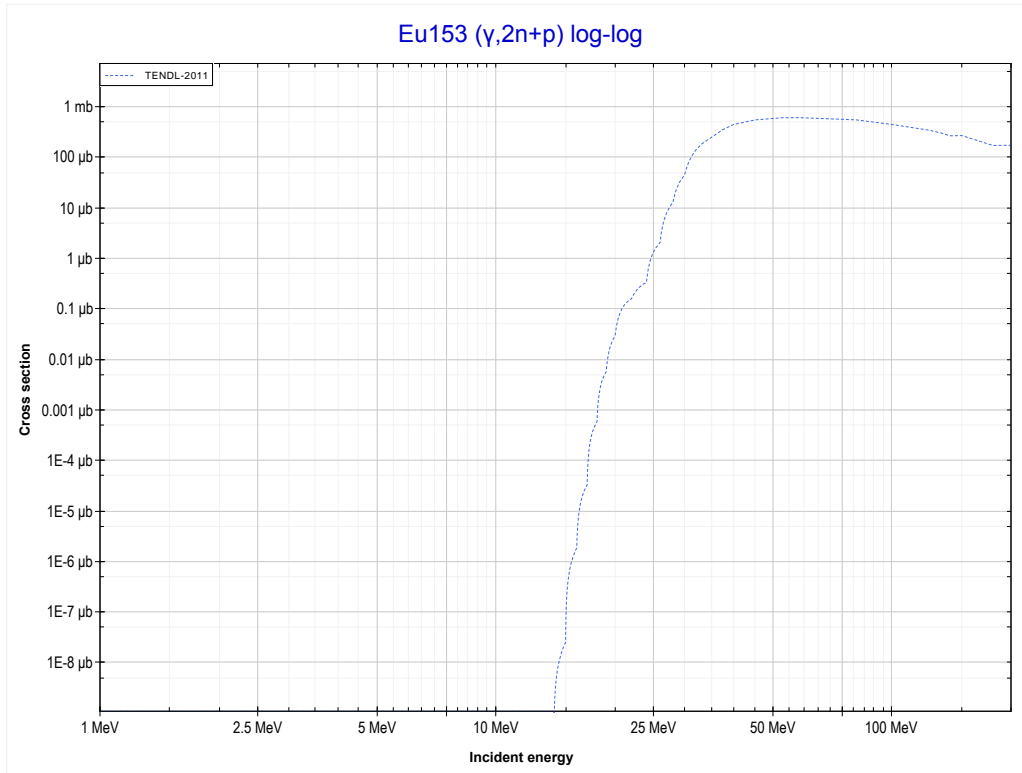
Reaction	Q-Value
Eu153($\gamma,3n$)Eu150	-22790.45 keV

<< 62-Sm-154	63-Eu-153	64-Gd-160 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Sm151 production)	MT41 ($\gamma,2n+p$) >>



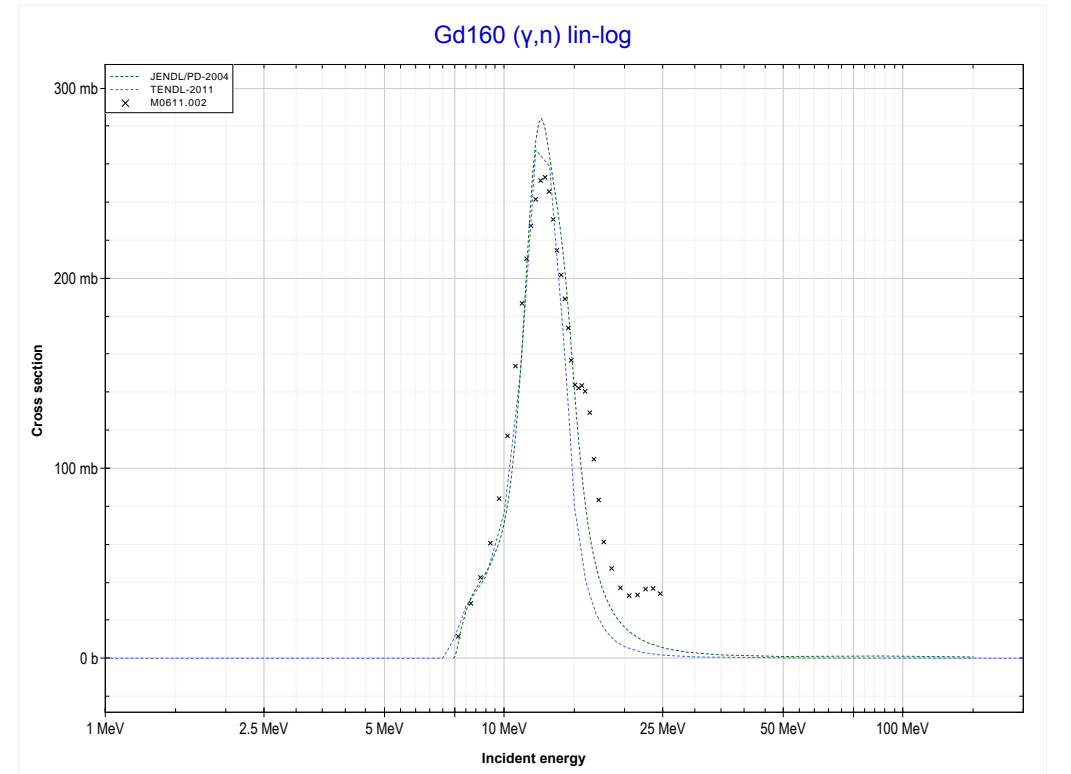
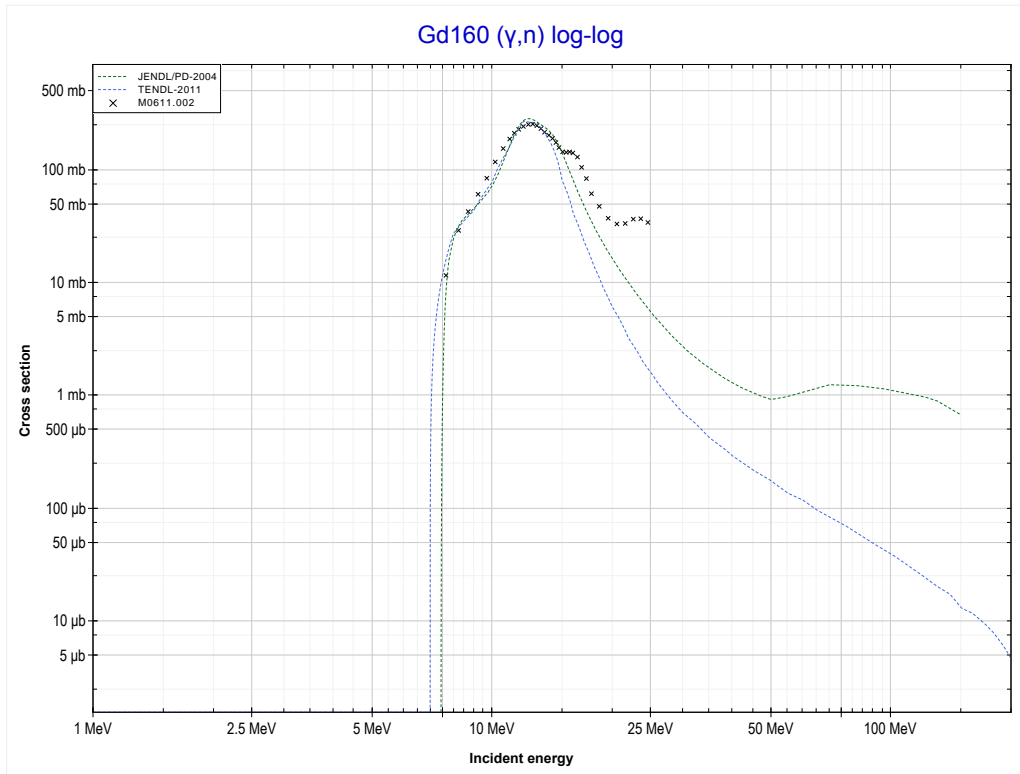
Reaction	Q-Value
Eu153(γ,d)Sm151	-11926.72 keV
Eu153($\gamma,n+p$)Sm151	-14151.29 keV

<< 59-Pr-141	63-Eu-153	64-Gd-160 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Sm150 production)	MT4 (γ, n) >>



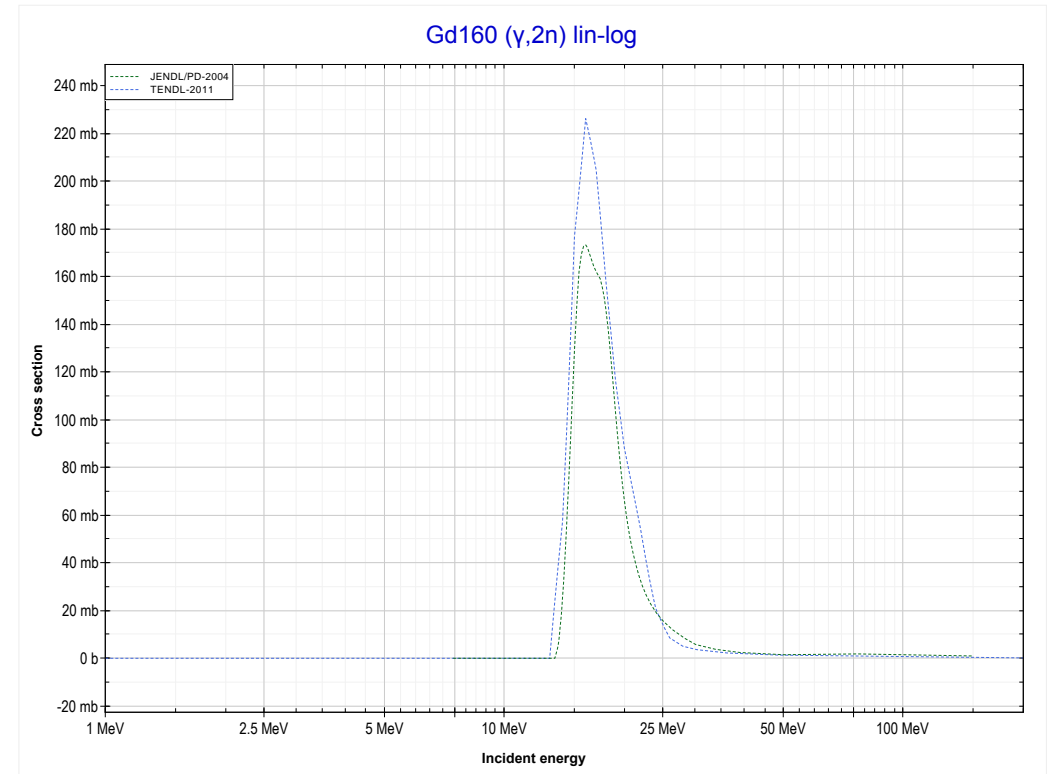
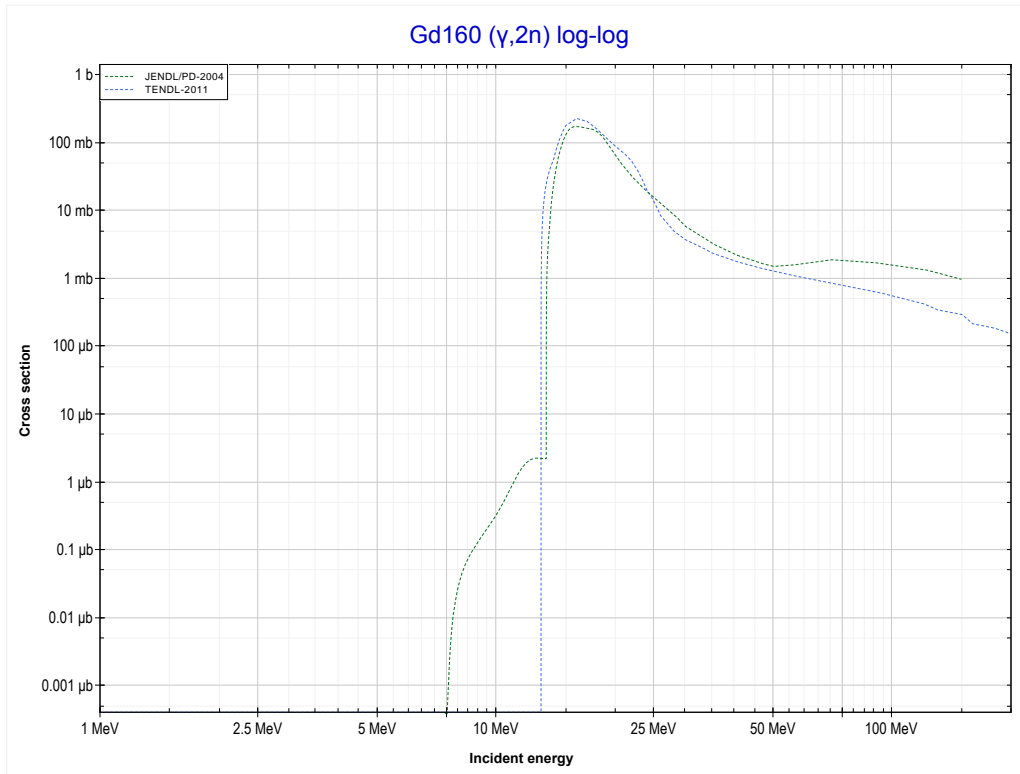
Reaction	Q-Value
Eu153(γ, t)Sm150	-11266.01 keV
Eu153($\gamma, n+d$)Sm150	-17523.24 keV
Eu153($\gamma, 2n+p$)Sm150	-19747.80 keV

<< 63-Eu-153	64-Gd-160	65-Tb-159 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Gd159 production)	MT16 ($\gamma,2n$) >>



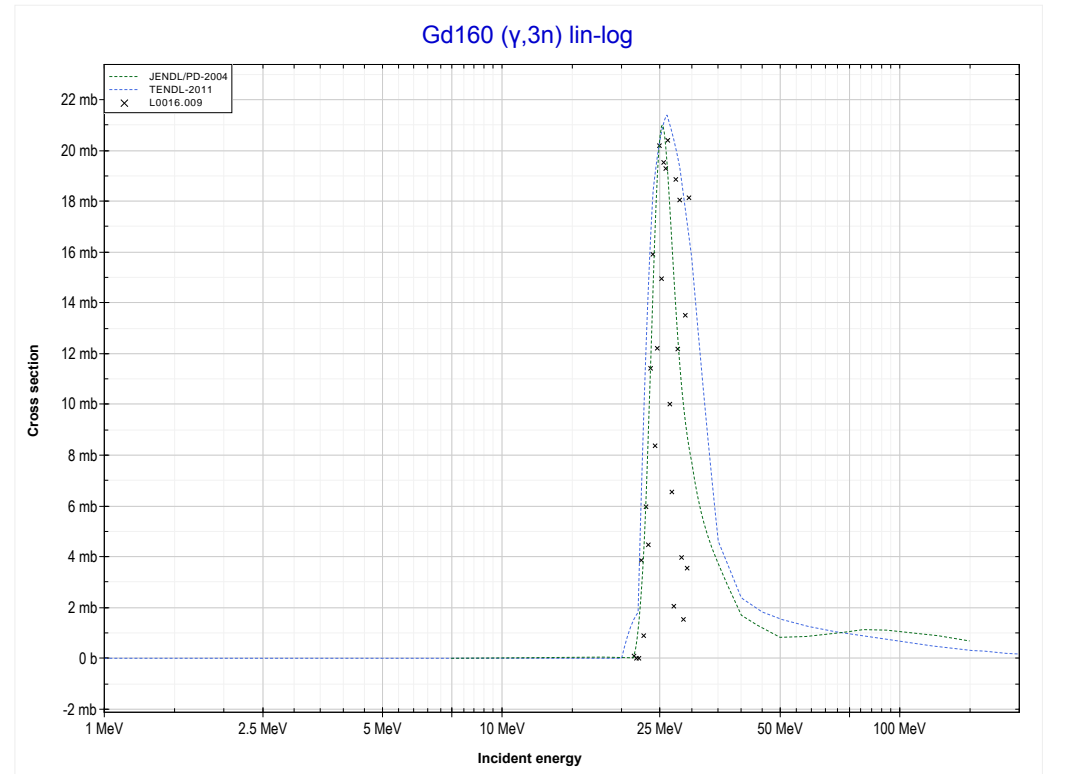
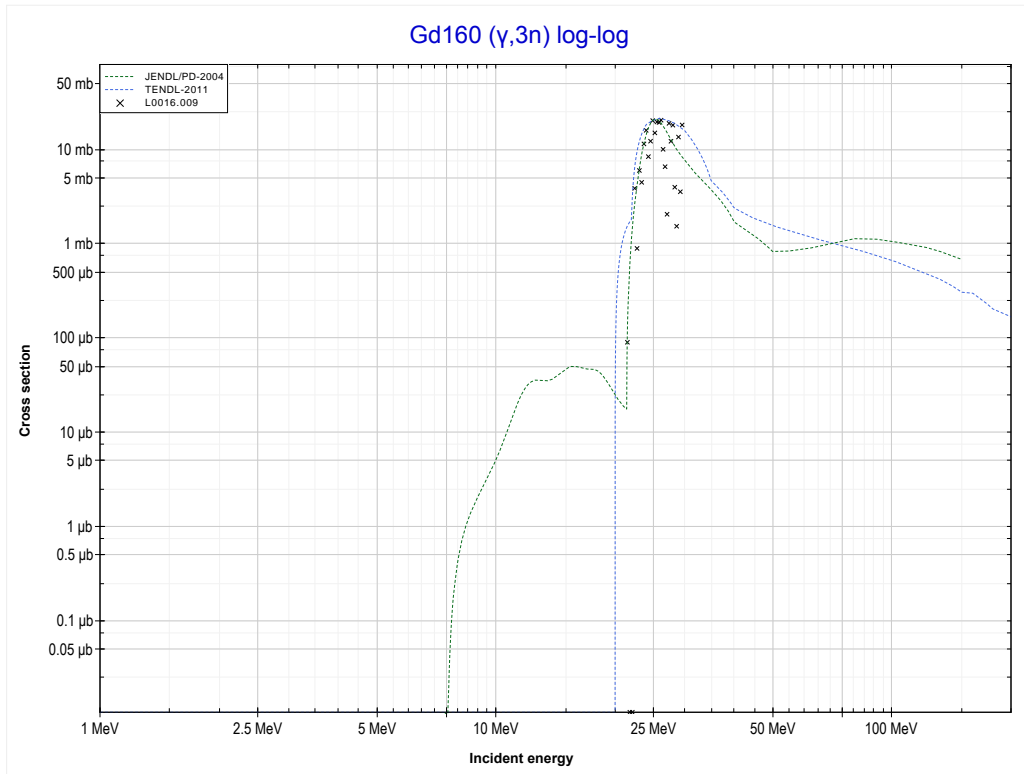
Reaction	Q-Value
Gd160(γ,n)Gd159	-7451.42 keV

<< 63-Eu-153	64-Gd-160	65-Tb-159 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Gd158 production)	MT17 ($\gamma,3n$) >>



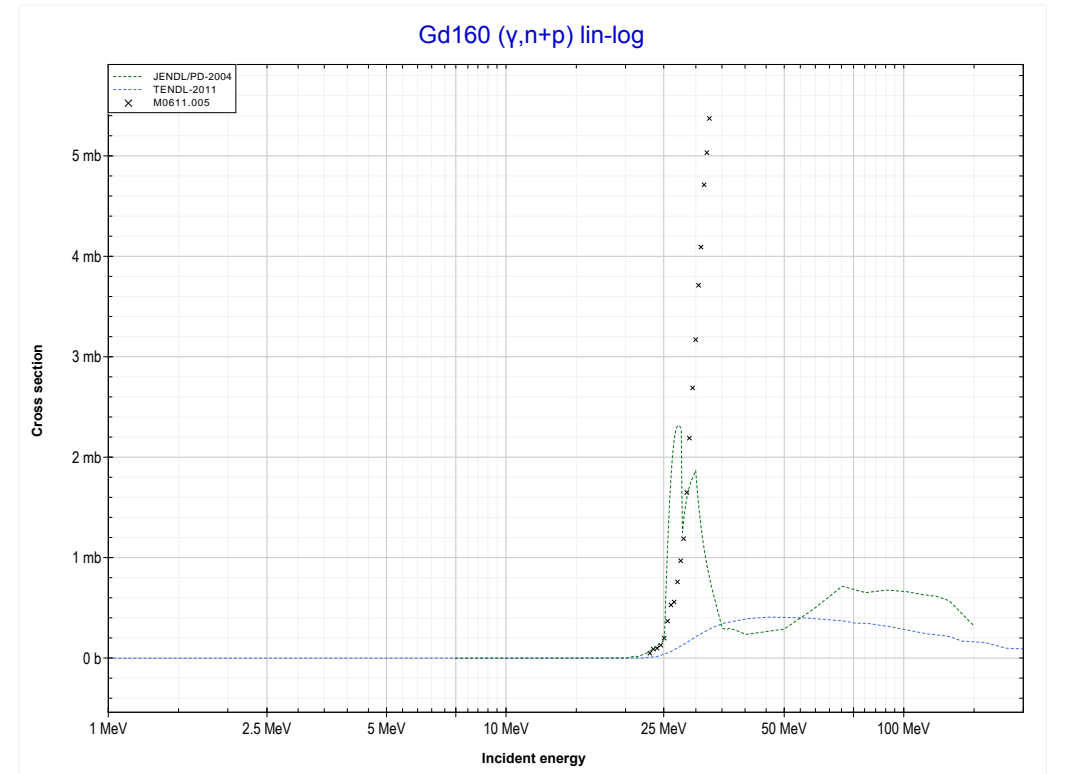
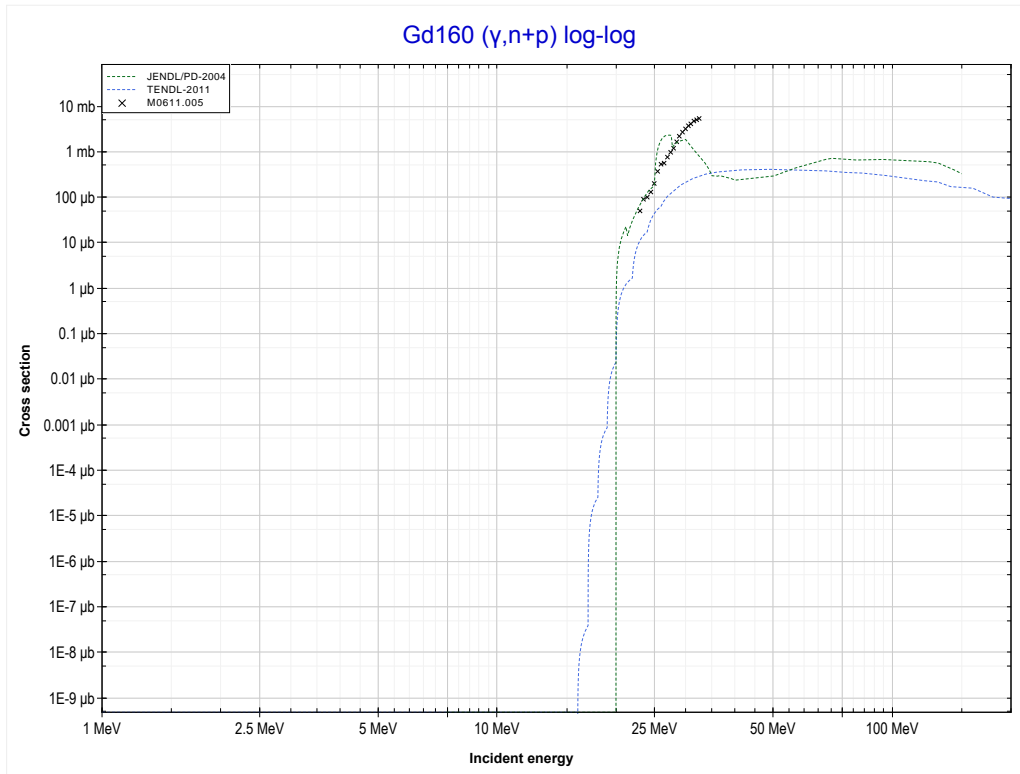
Reaction	Q-Value
Gd160($\gamma,2n$)Gd158	-13394.43 keV

<< 63-Eu-153	64-Gd-160	65-Tb-159 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Gd157 production)	MT28 ($\gamma,n+p$) >>



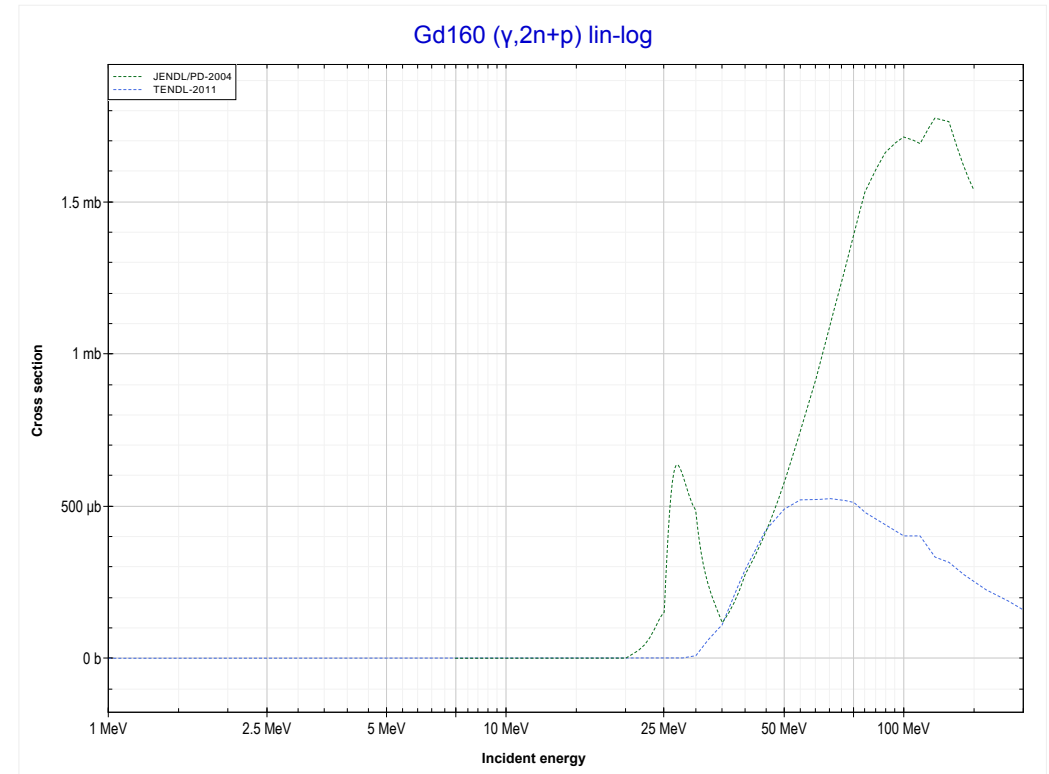
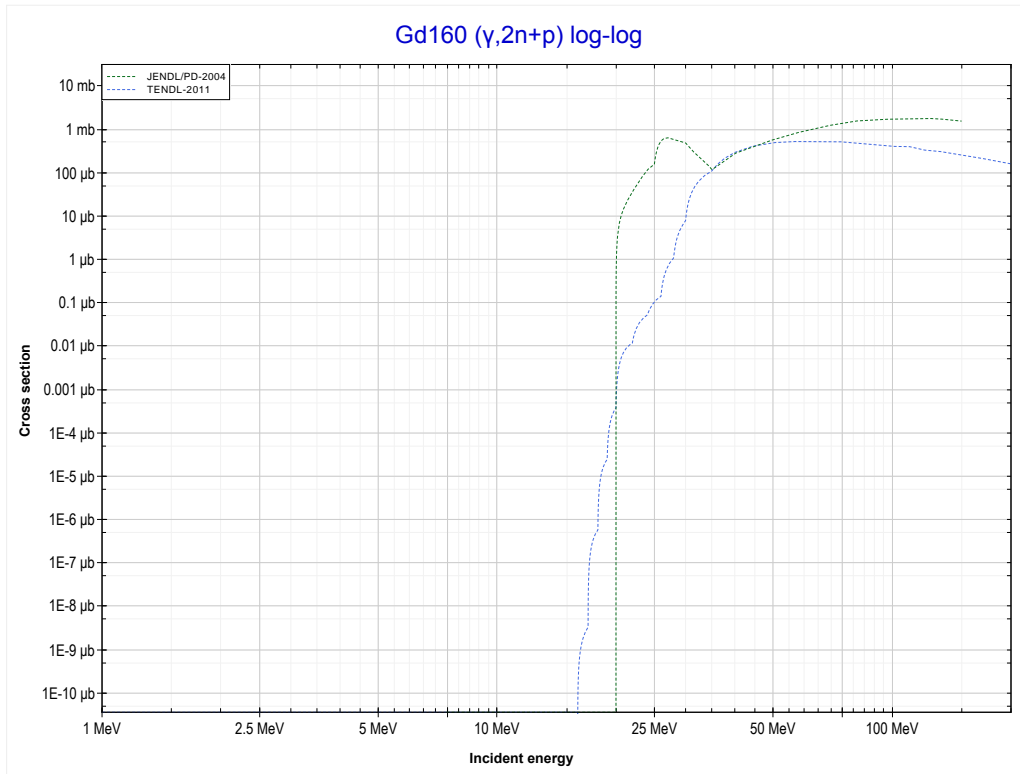
Reaction	Q-Value
Gd160($\gamma,3n$)Gd157	-21331.85 keV

<< 63-Eu-153	64-Gd-160	65-Tb-159 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Eu158 production)	MT41 ($\gamma,2n+p$) >>



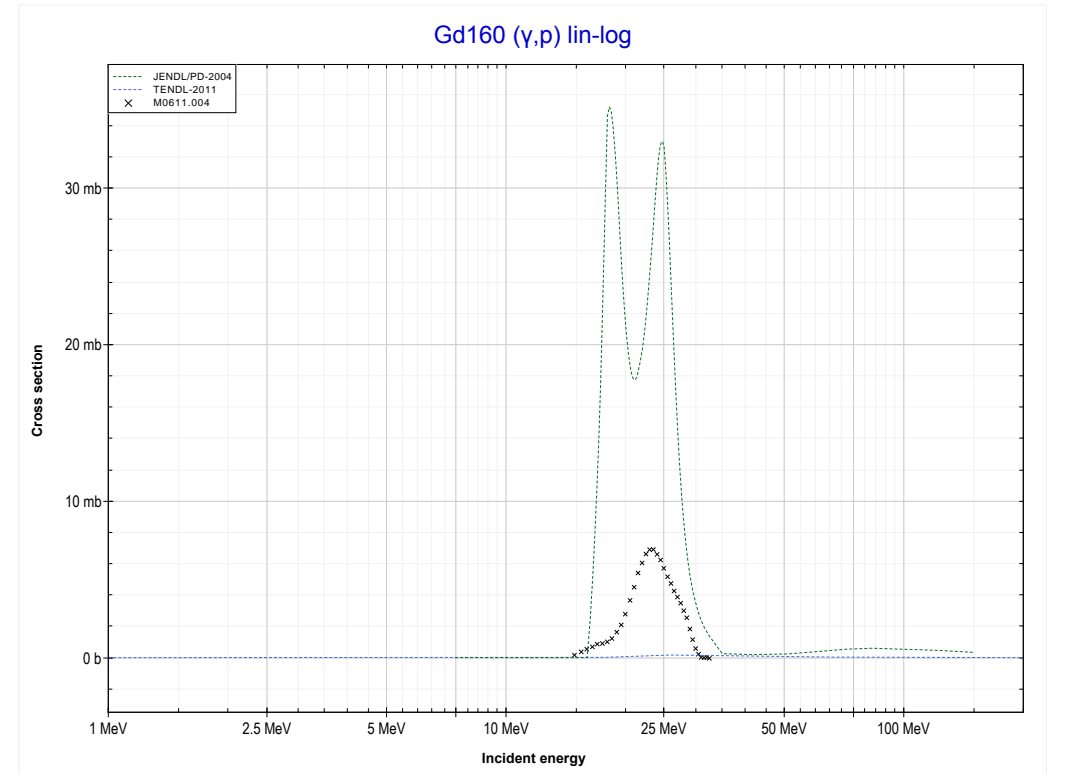
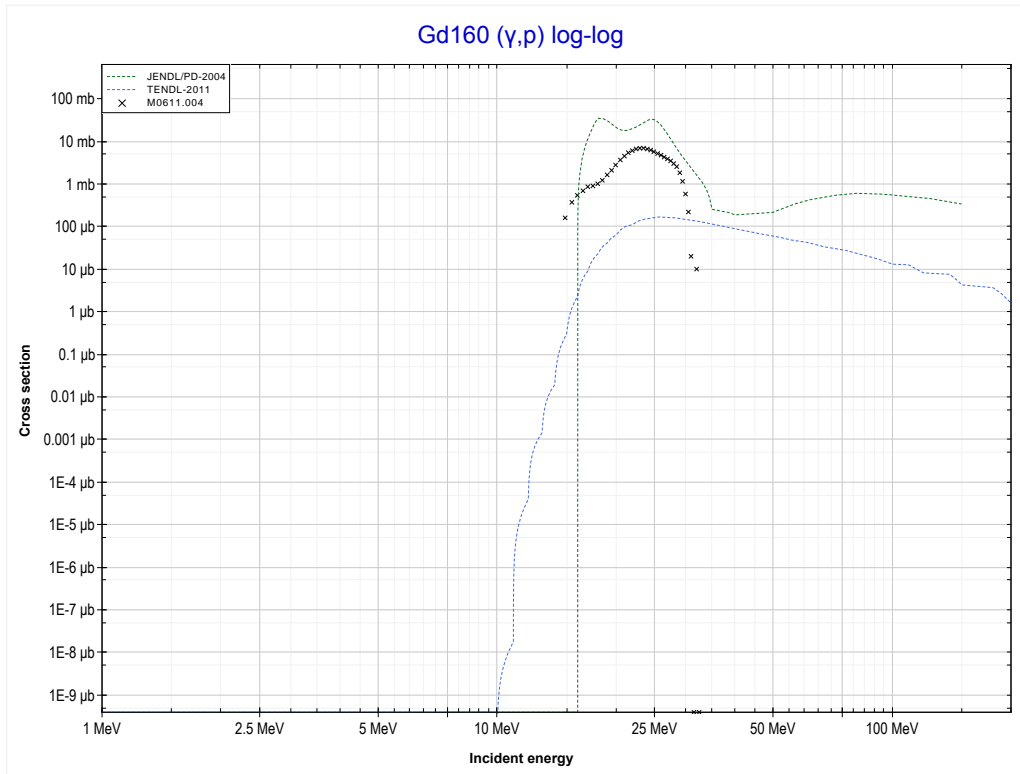
Reaction	Q-Value
Gd160(γ,d)Eu158	-13874.32 keV
Gd160($\gamma,n+p$)Eu158	-16098.89 keV

<< 63-Eu-153	64-Gd-160	65-Tb-159 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Eu157 production)	MT103 (γ, p) >>



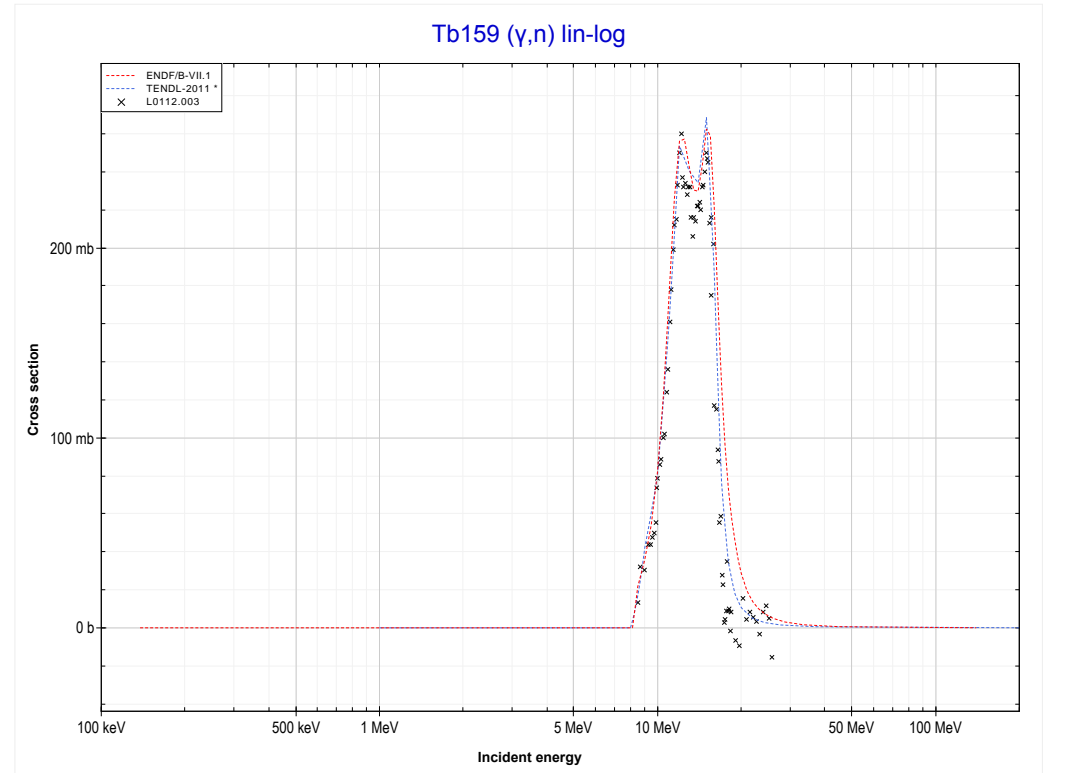
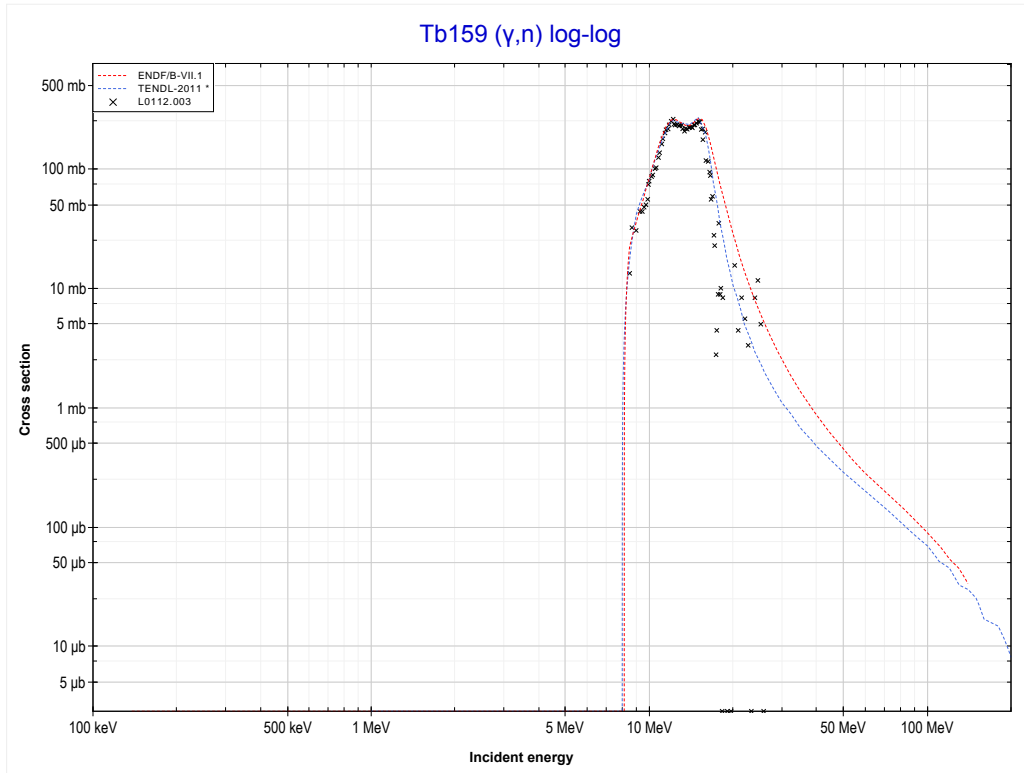
Reaction	Q-Value
Gd160(γ, t)Eu157	-13431.41 keV
Gd160($\gamma, n+d$)Eu157	-19688.64 keV
Gd160($\gamma, 2n+p$)Eu157	-21913.20 keV

<< 50-Sn-124	64-Gd-160	82-Pb-208 >>
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (Eu159 production)	MT4 (γ,n) >>



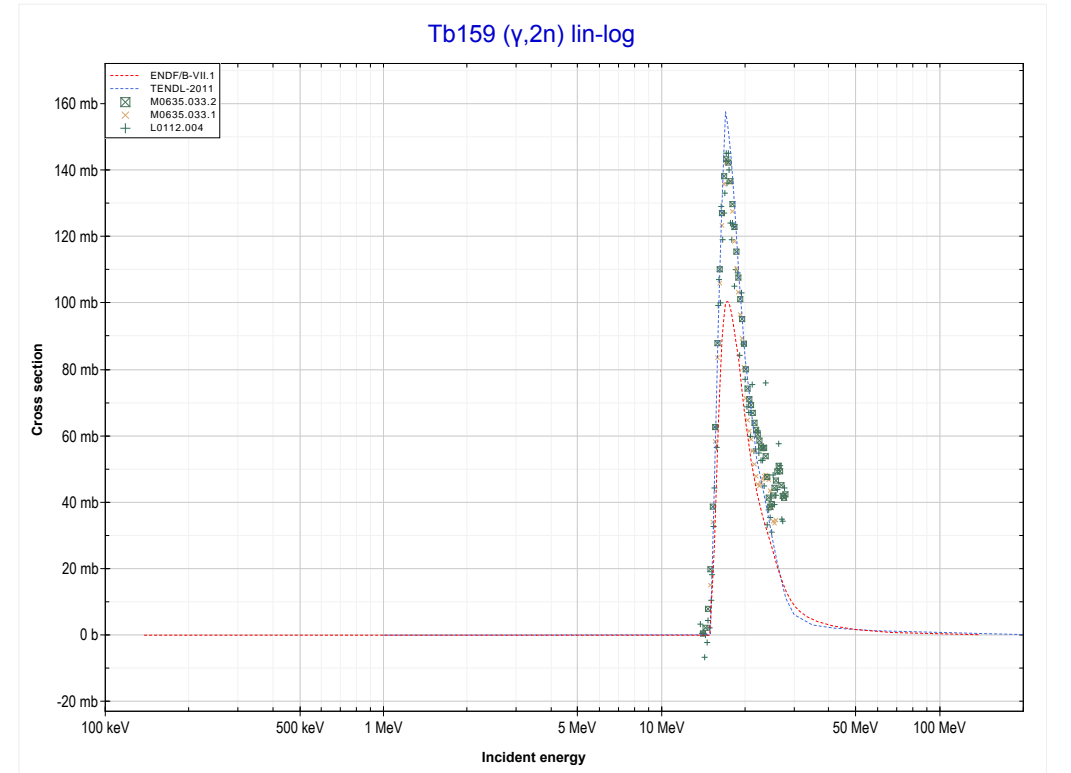
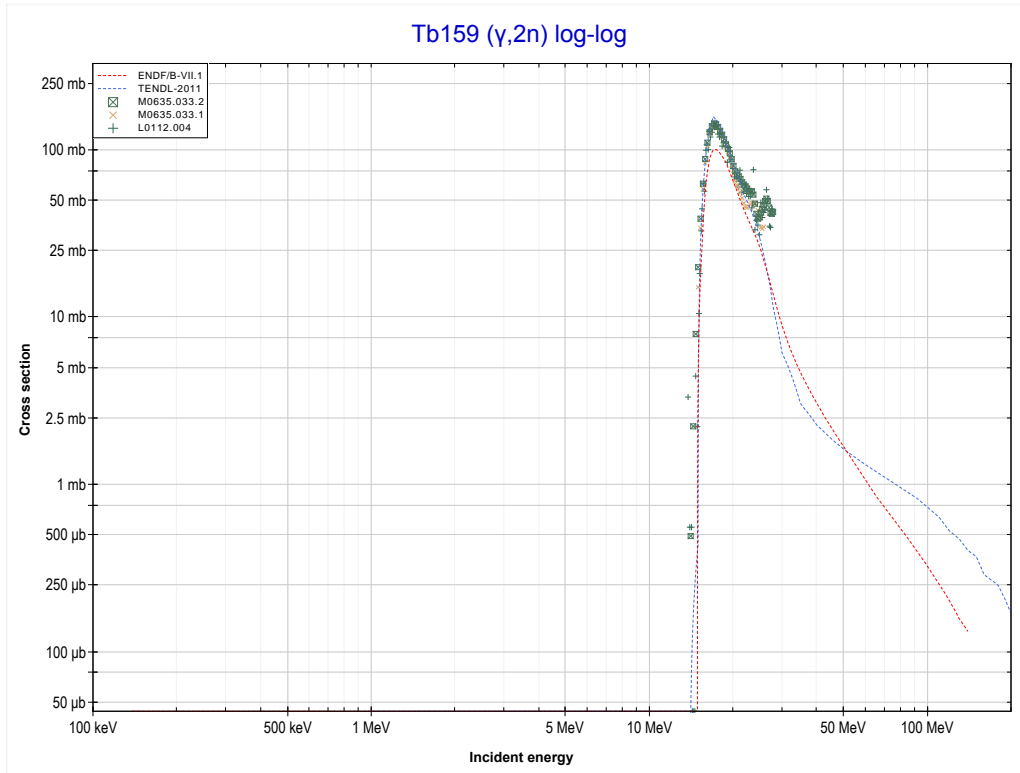
Reaction	Q-Value
Gd160(γ,p)Eu159	-9184.57 keV

<< 64-Gd-160	65-Tb-159	67-Ho-165 >>
<< MT103 (γ,p)	MT4 (γ,n) or MT5 (Tb158 production)	MT16 ($\gamma,2n$) >>



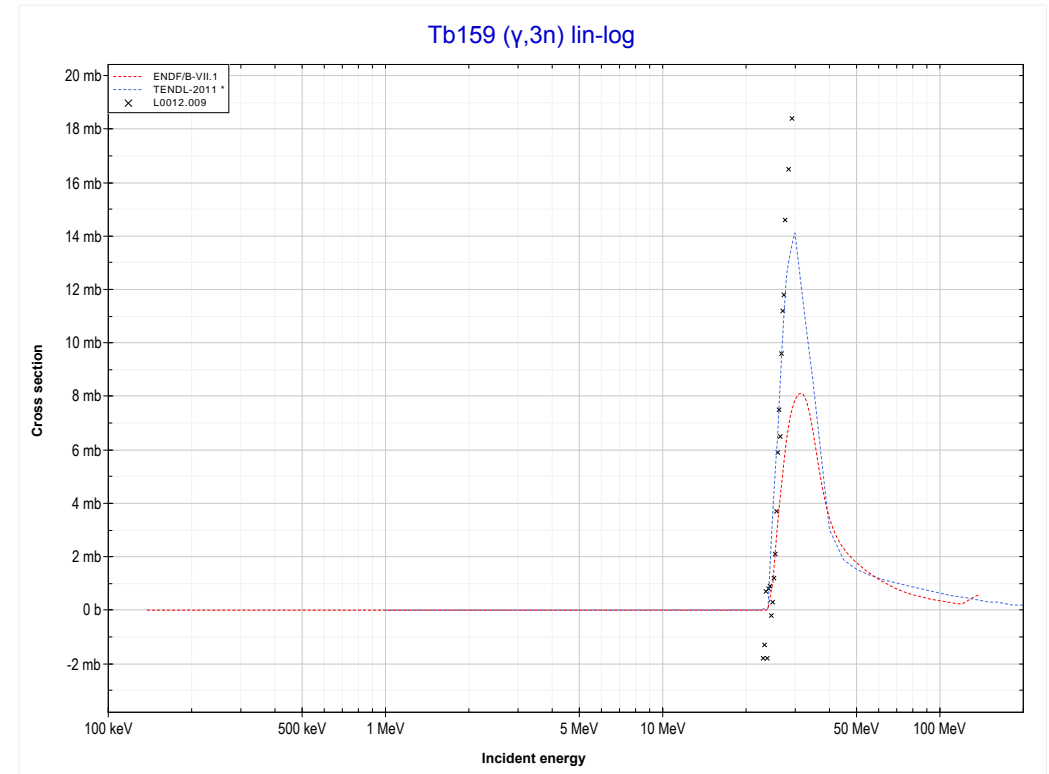
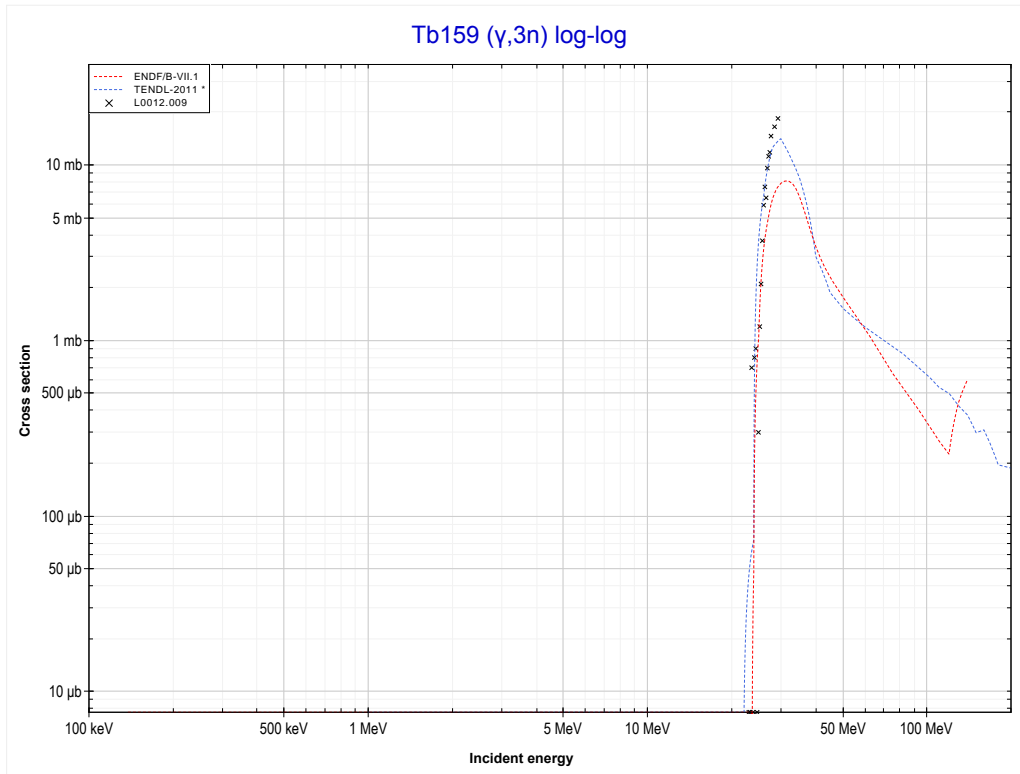
Reaction	Q-Value
Tb159(γ,n)Tb158	-8133.12 keV

<< 64-Gd-160	65-Tb-159	67-Ho-165 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Tb157 production)	MT17 ($\gamma,3n$) >>



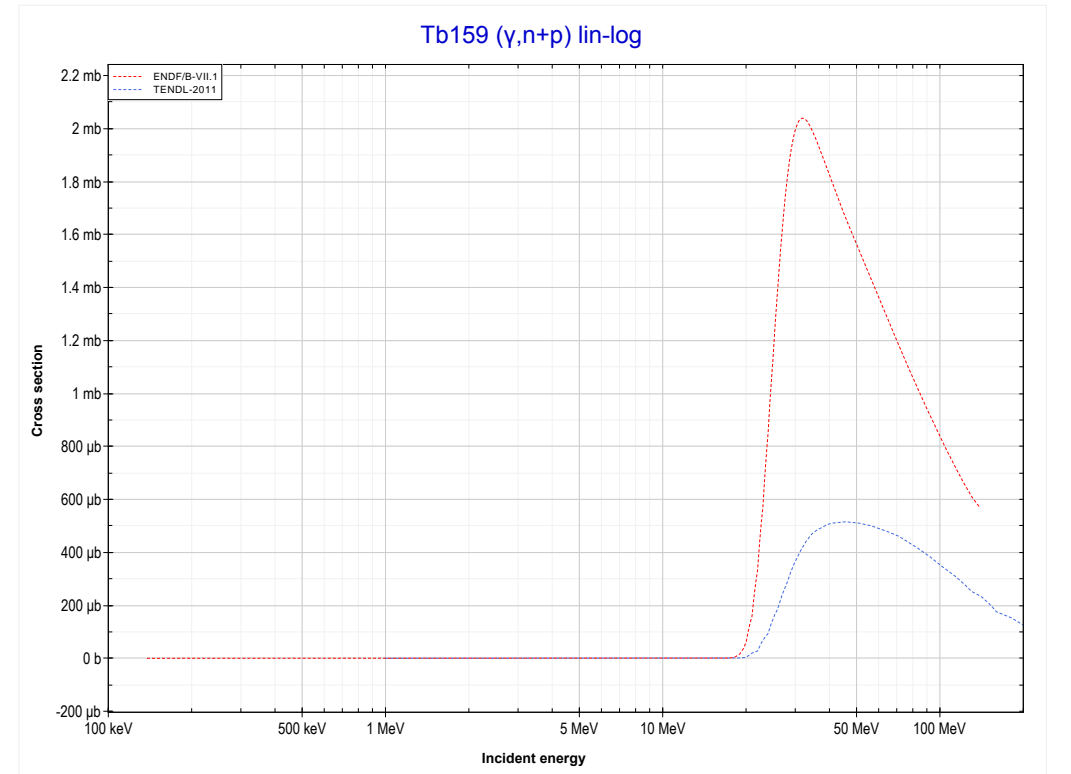
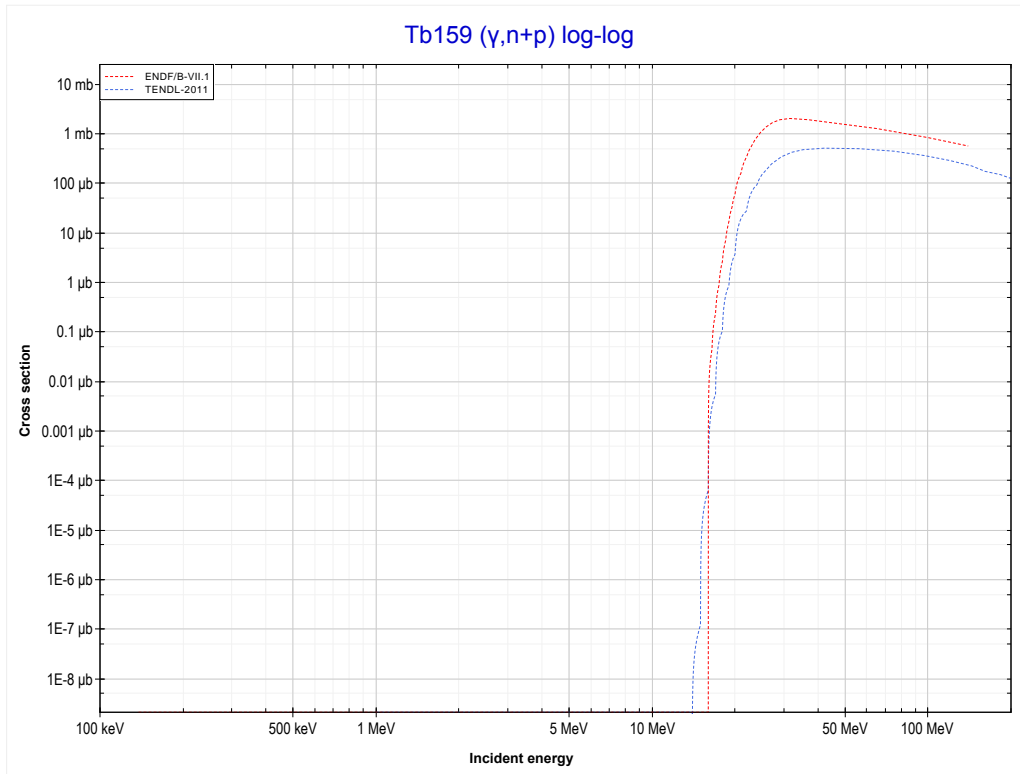
Reaction	Q-Value
Tb159($\gamma,2n$)Tb157	-14911.03 keV

<< 64-Gd-160	65-Tb-159	67-Ho-165 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Tb156 production)	MT28 ($\gamma,n+p$) >>



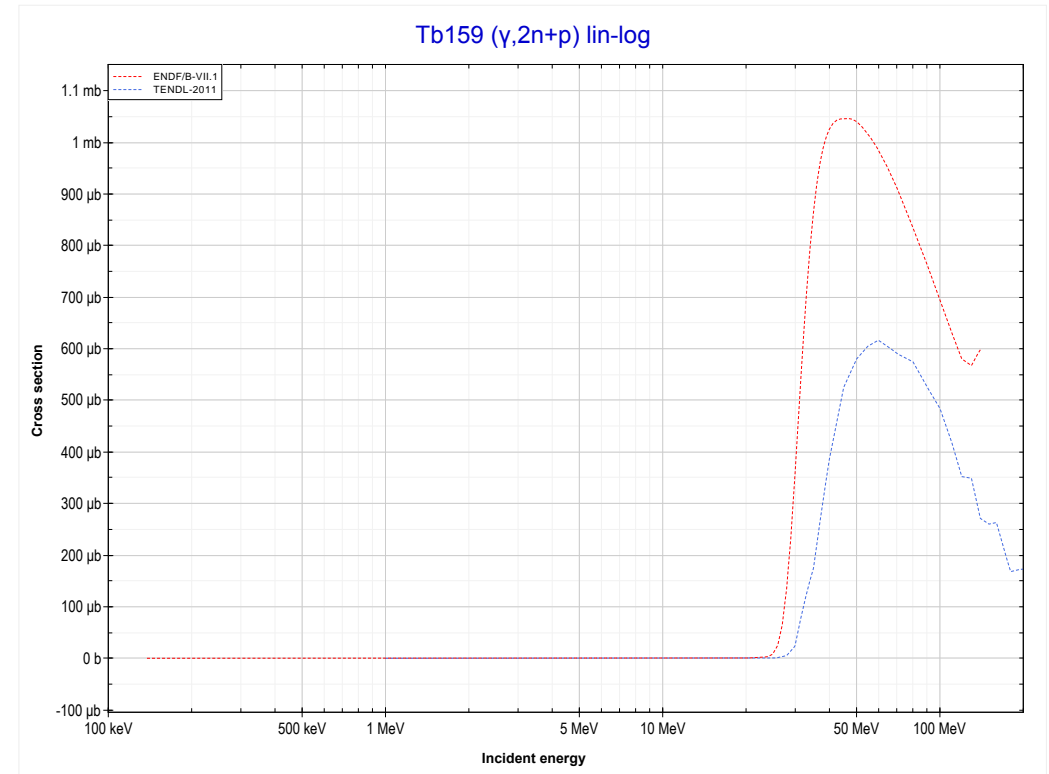
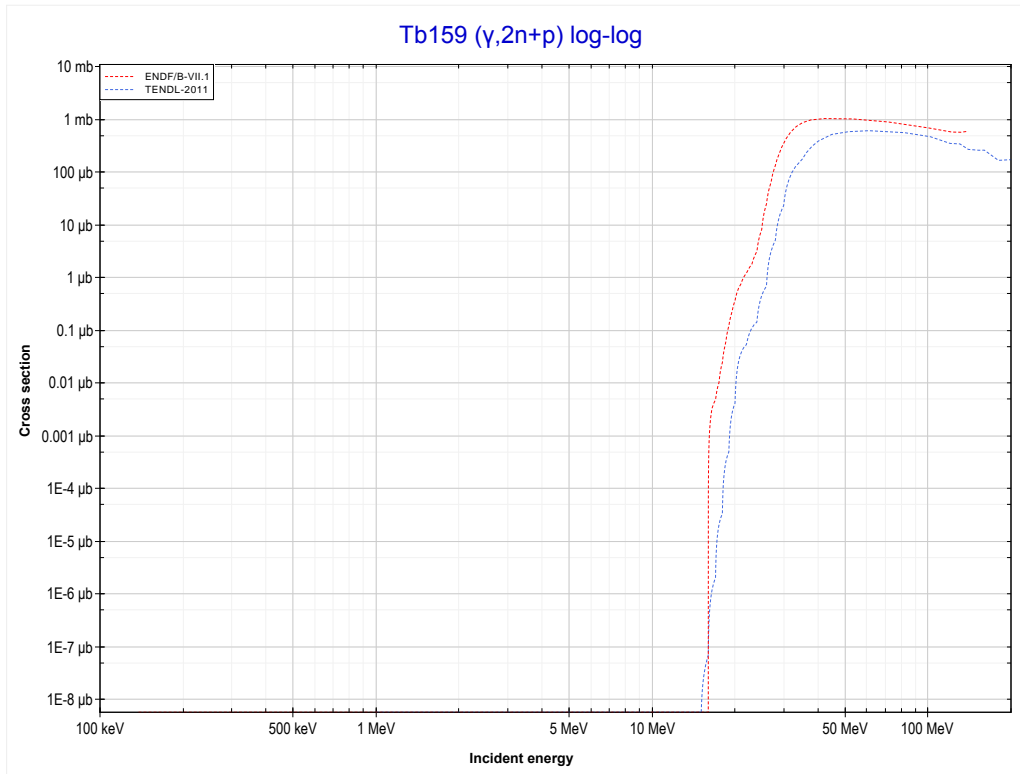
Reaction	Q-Value
Tb159($\gamma,3n$)Tb156	-23654.95 keV

<< 64-Gd-160	65-Tb-159	67-Ho-165 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Gd157 production)	MT41 ($\gamma,2n+p$) >>



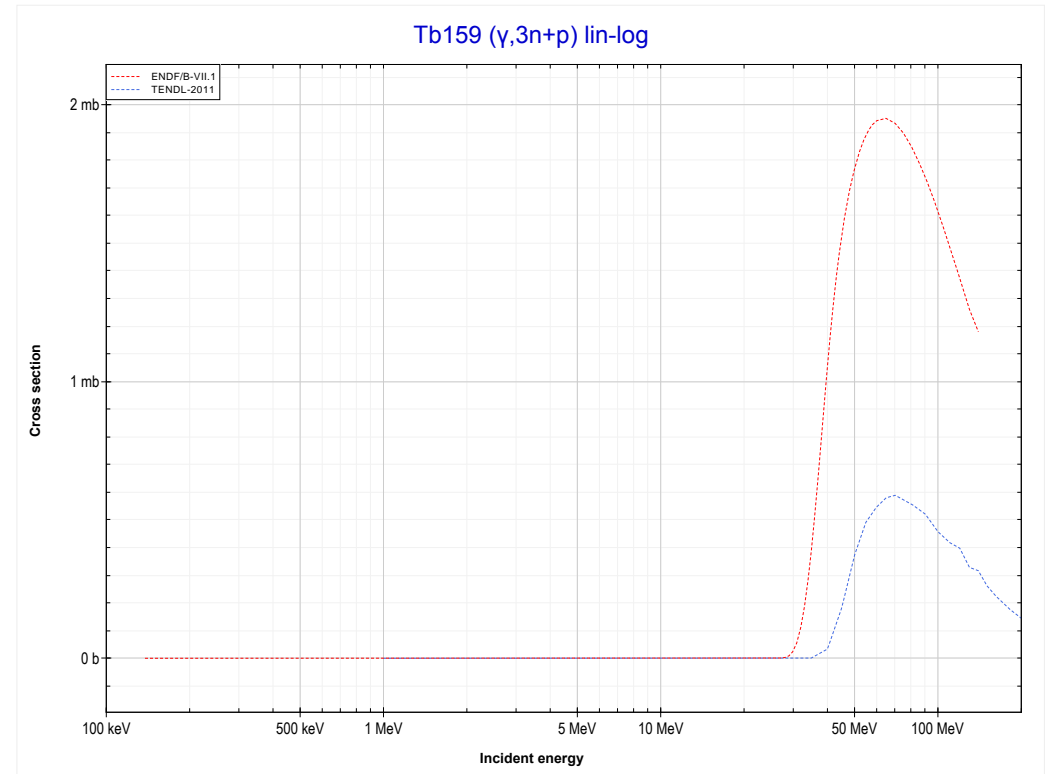
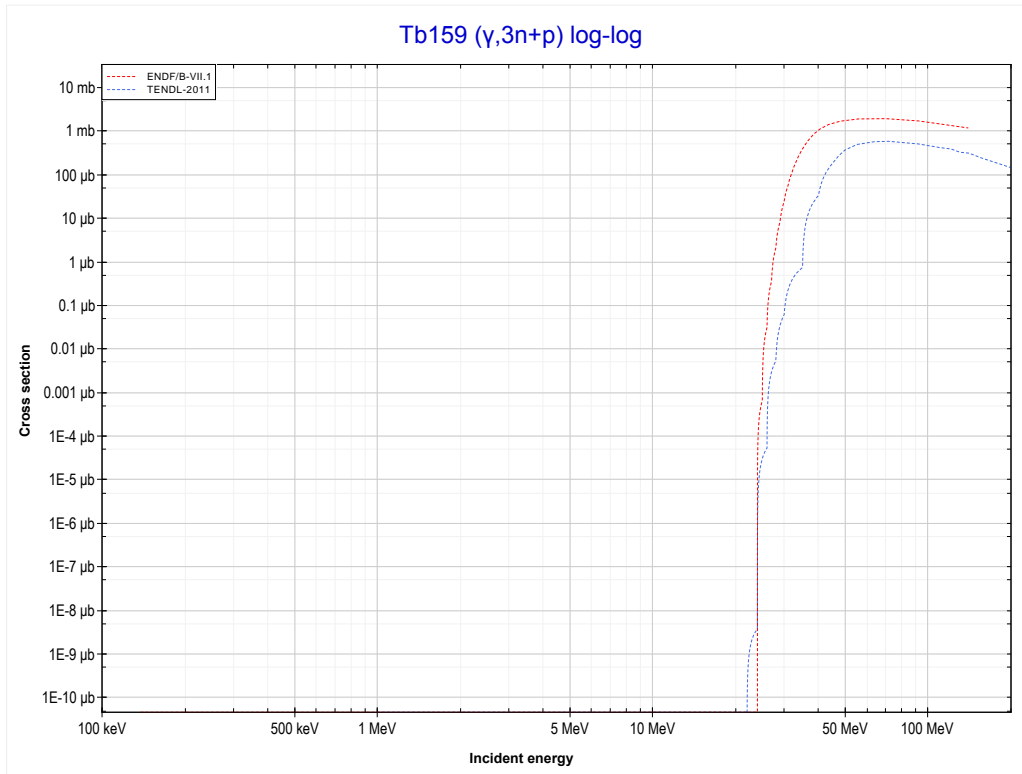
Reaction	Q-Value
Tb159(γ,d)Gd157	-11844.02 keV
Tb159($\gamma,n+p$)Gd157	-14068.59 keV

<< 64-Gd-160	65-Tb-159	67-Ho-165 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Gd156 production)	MT42 ($\gamma, 3n+p$) >>



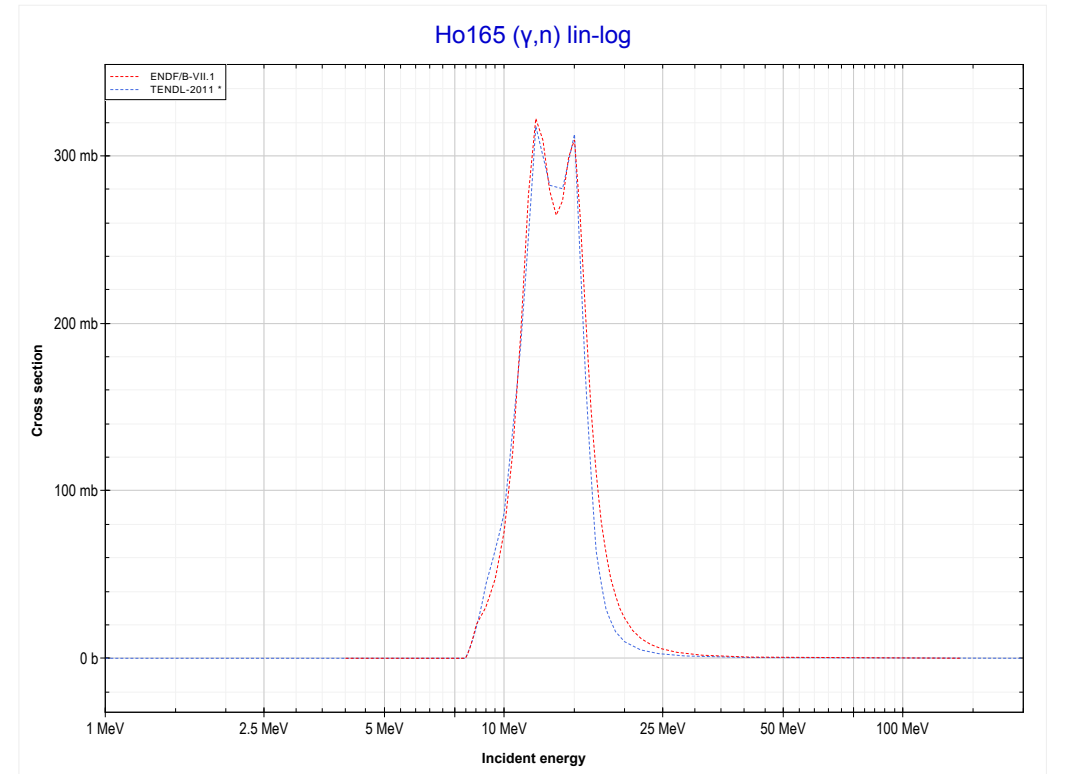
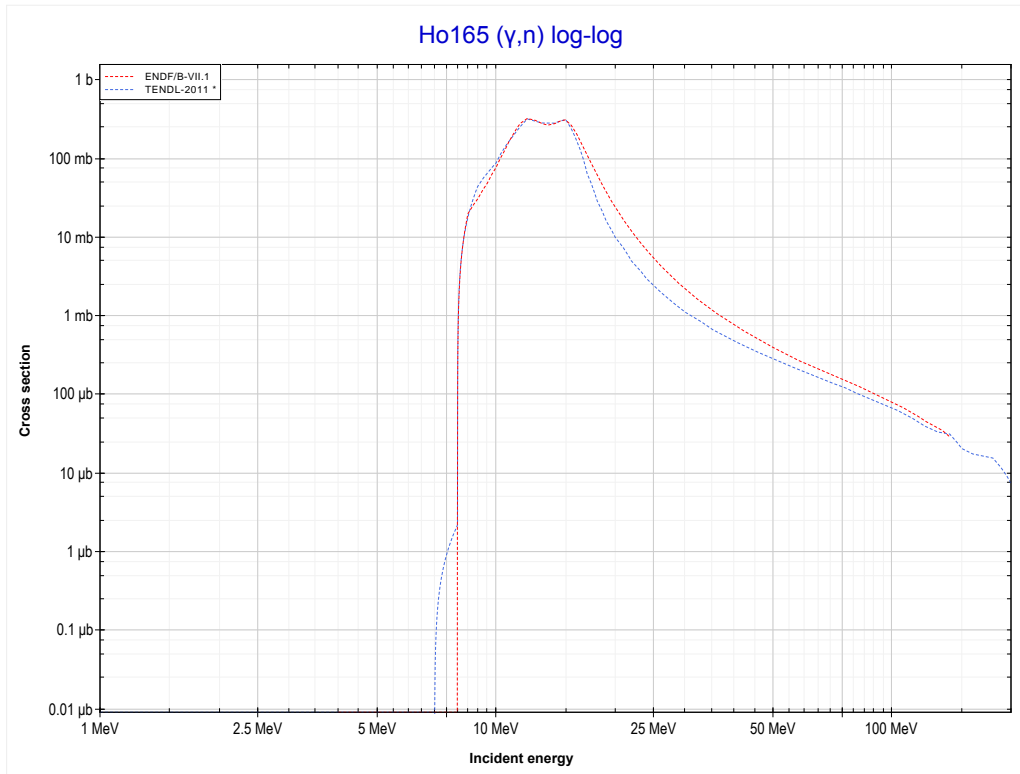
Reaction	Q-Value
Tb159(γ, t)Gd156	-11946.61 keV
Tb159($\gamma, n+d$)Gd156	-18203.84 keV
Tb159($\gamma, 2n+p$)Gd156	-20428.40 keV

65-Tb-159		
<< MT41 ($\gamma,2n+p$)	MT42 ($\gamma,3n+p$) or MT5 (Gd155 production)	MT4 (γ,n) >>



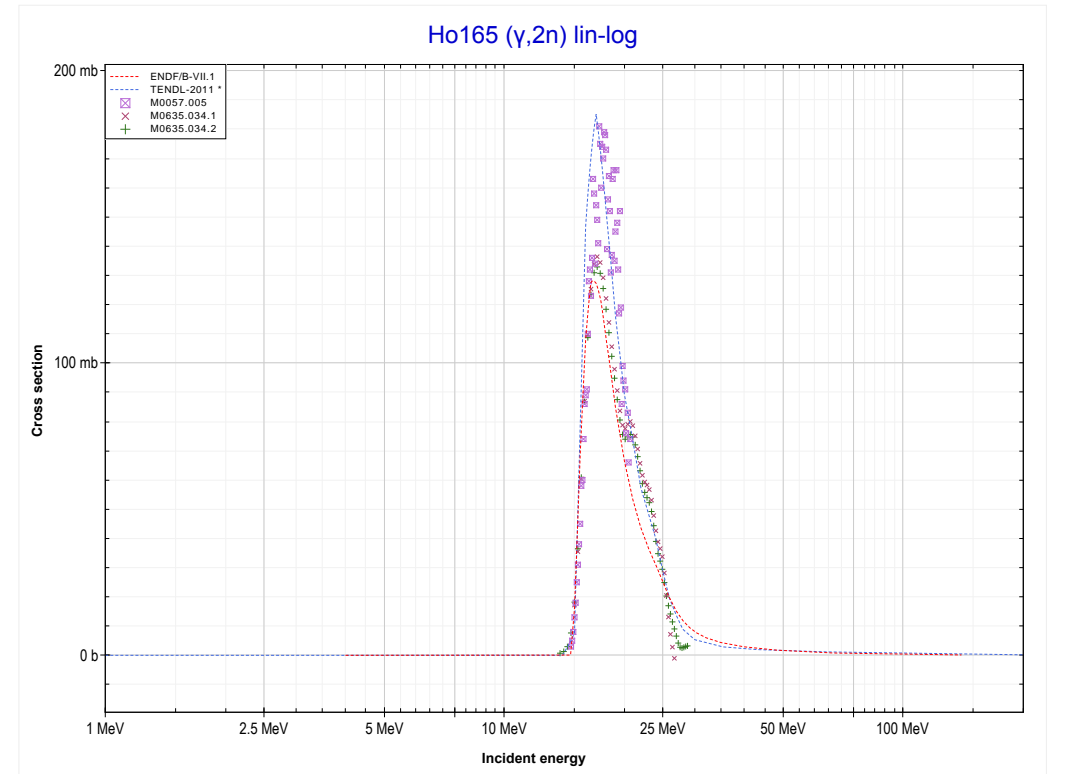
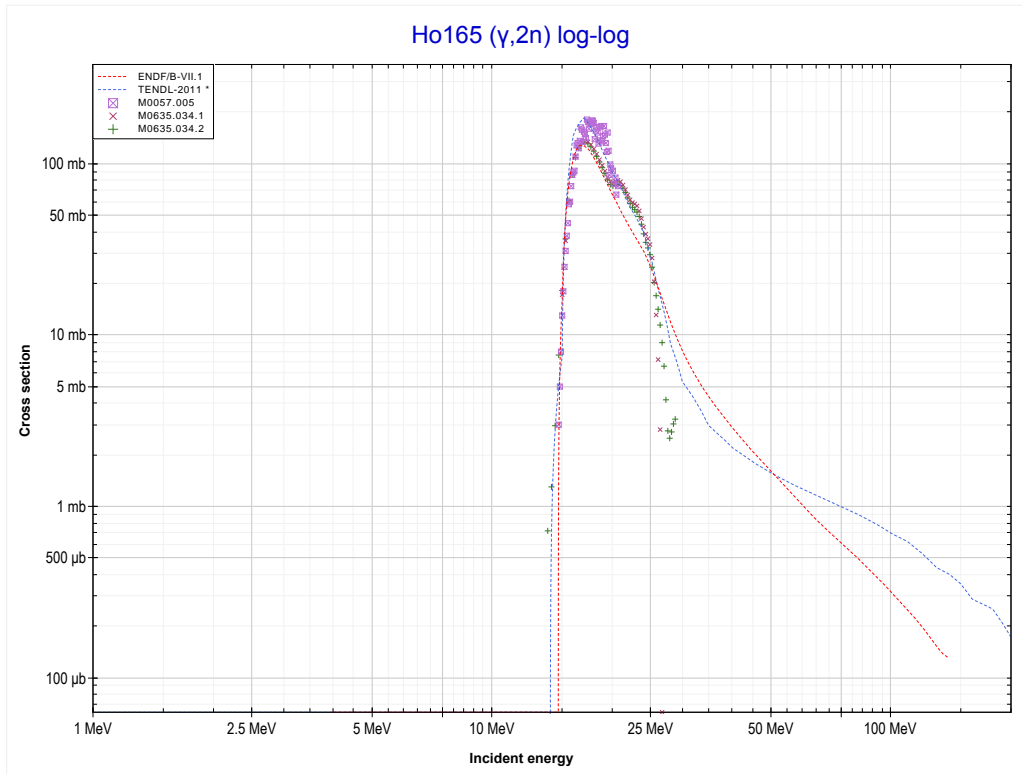
Reaction	Q-Value
Tb159($\gamma,n+t$)Gd155	-20483.02 keV
Tb159($\gamma,2n+d$)Gd155	-26740.26 keV
Tb159($\gamma,3n+p$)Gd155	-28964.82 keV

<< 65-Tb-159	67-Ho-165	71-Lu-175 >>
<< MT42 ($\gamma,3n+p$)	MT4 (γ,n) or MT5 (Ho164 production)	MT16 ($\gamma,2n$) >>



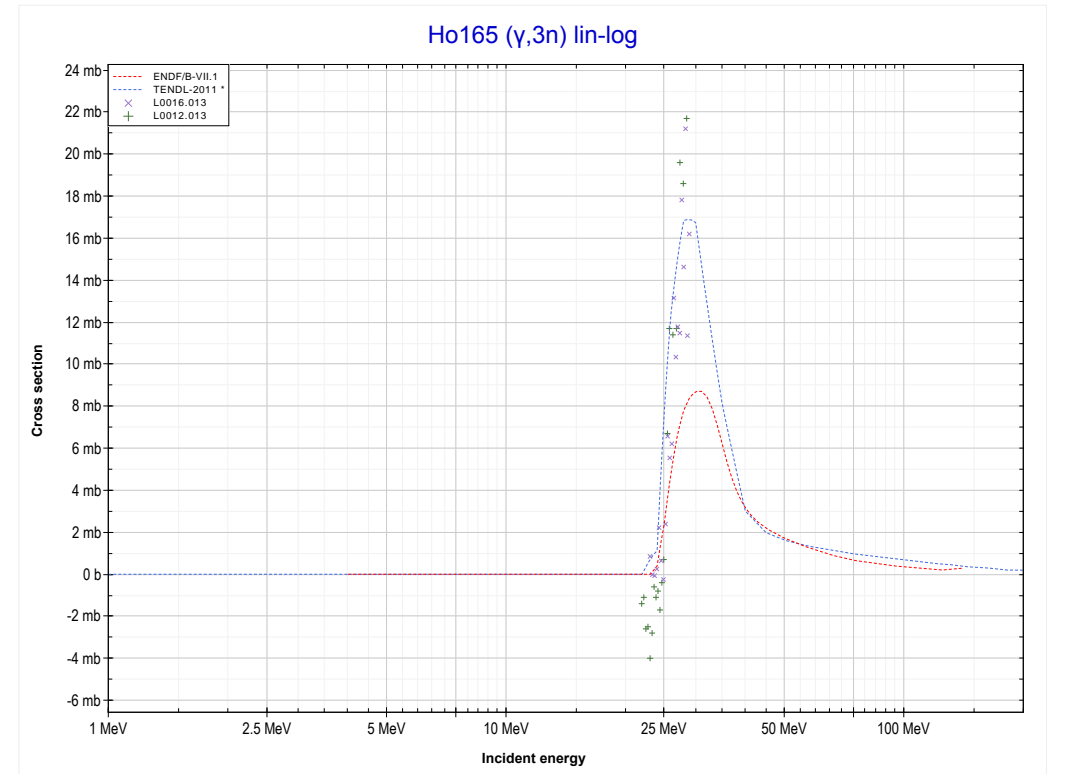
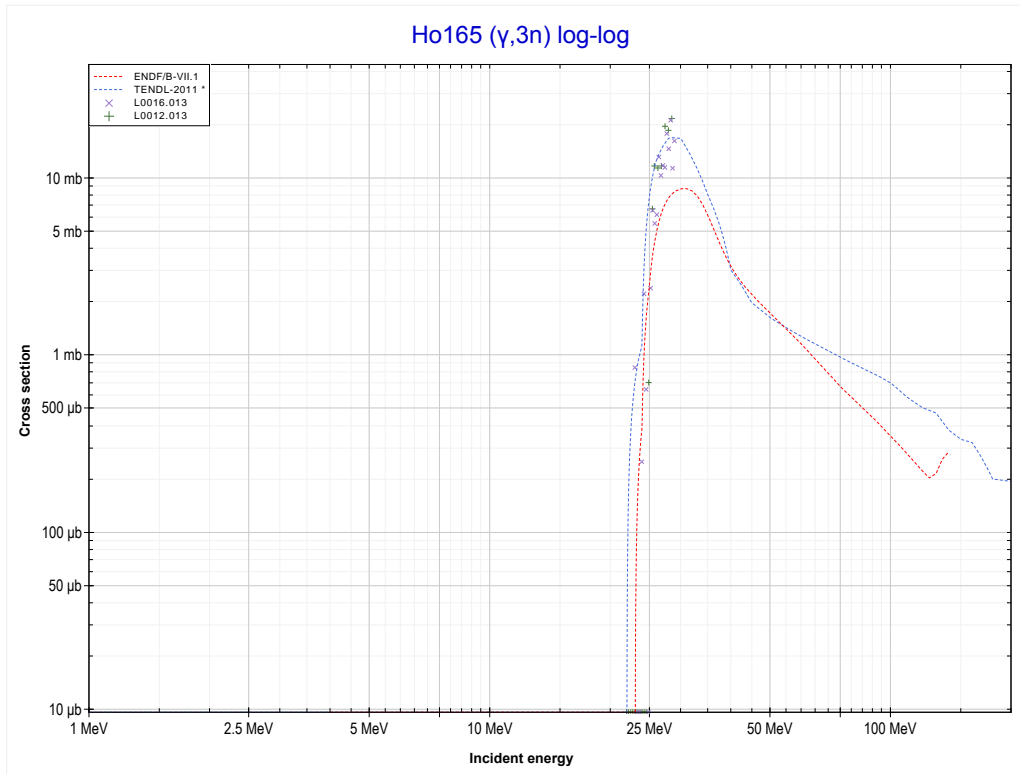
Reaction	Q-Value
Ho165(γ,n)Ho164	-7988.82 keV

<< 65-Tb-159	67-Ho-165	68-Er-166 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ho163 production)	MT17 ($\gamma,3n$) >>



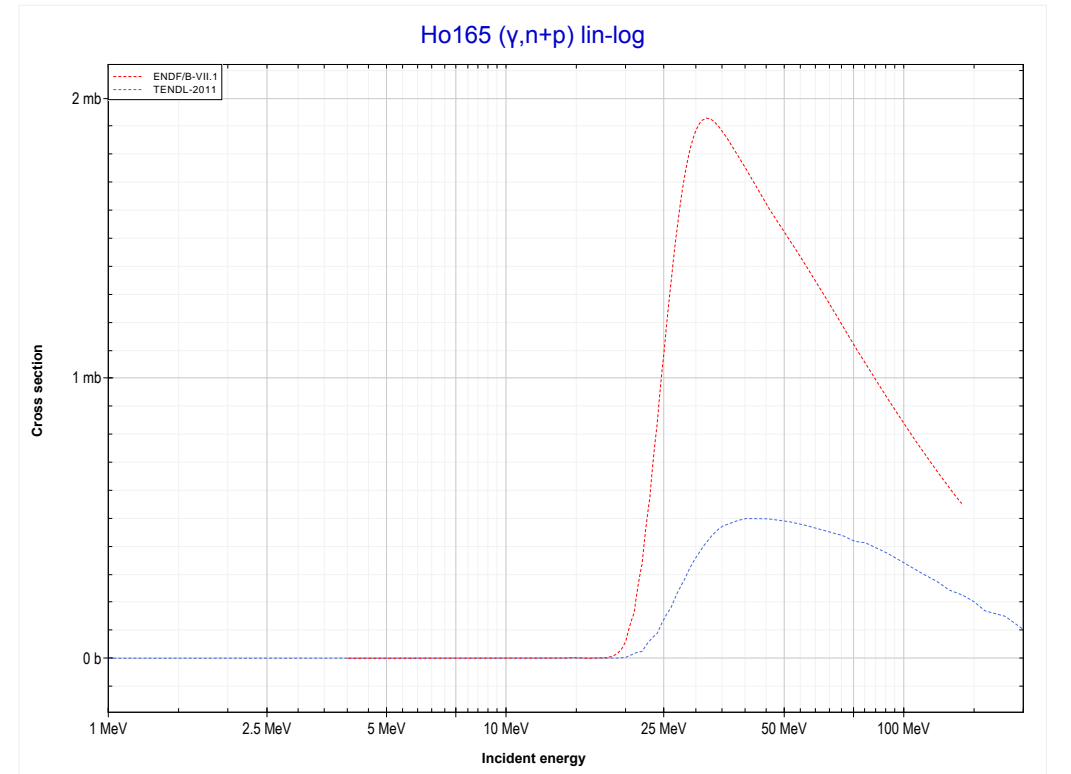
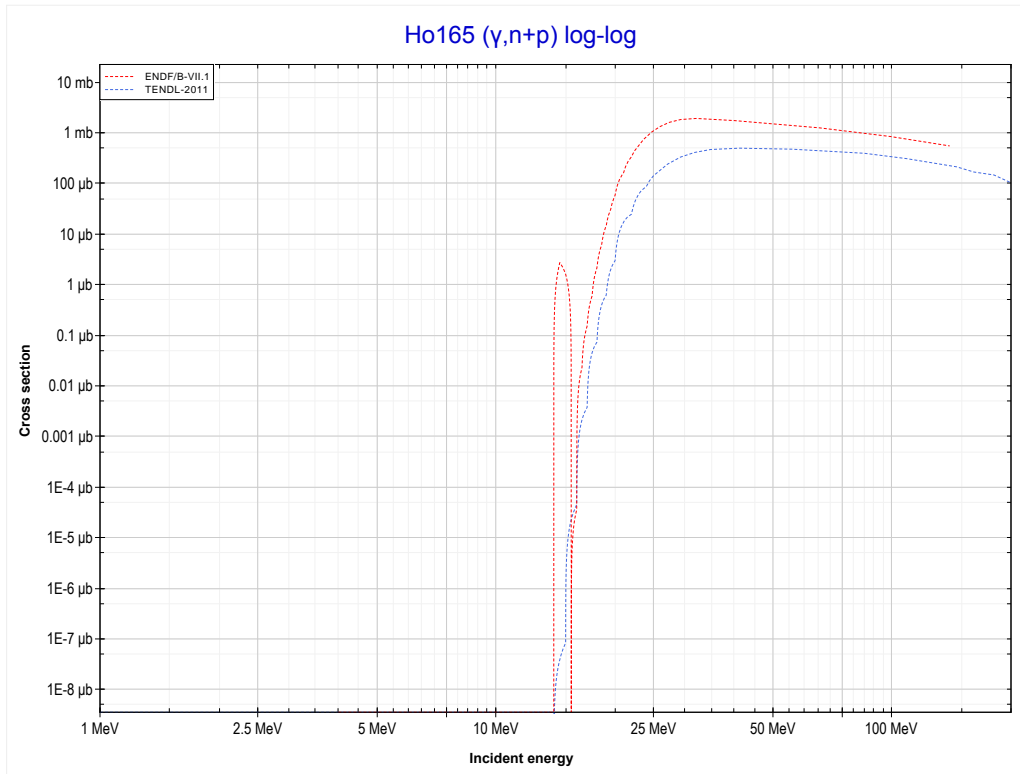
Reaction	Q-Value
Ho165($\gamma,2n$)Ho163	-14663.33 keV

<< 65-Tb-159	67-Ho-165	71-Lu-175 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Ho162 production)	MT28 ($\gamma,n+p$) >>



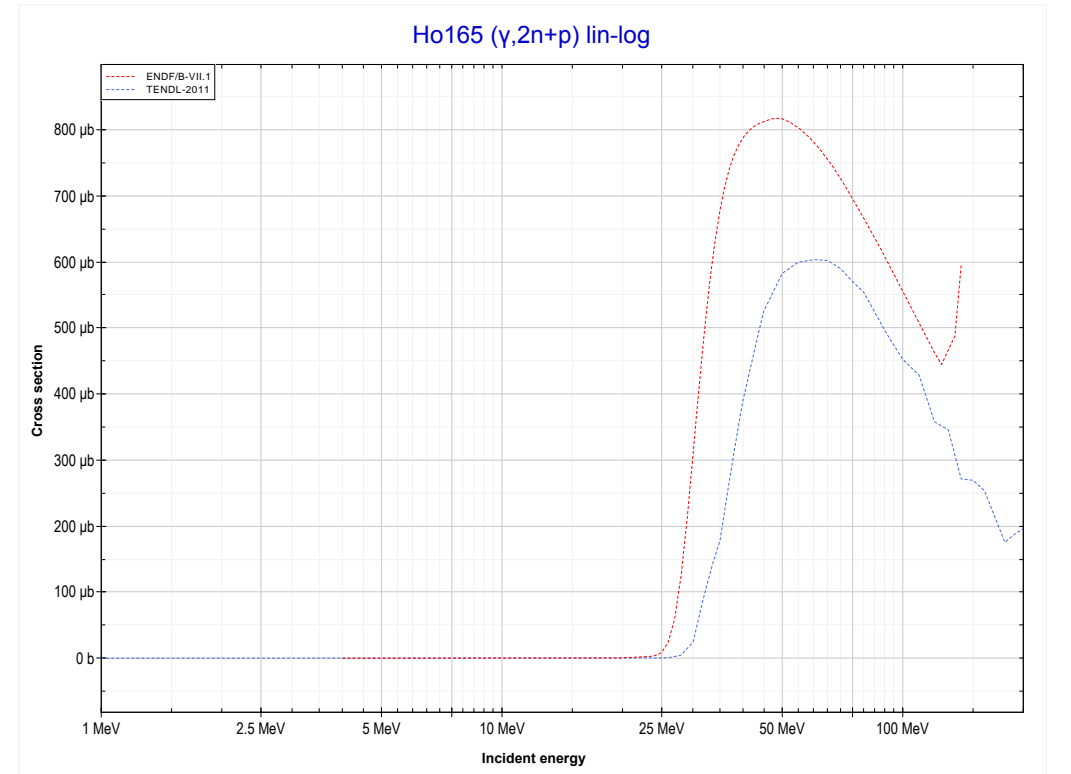
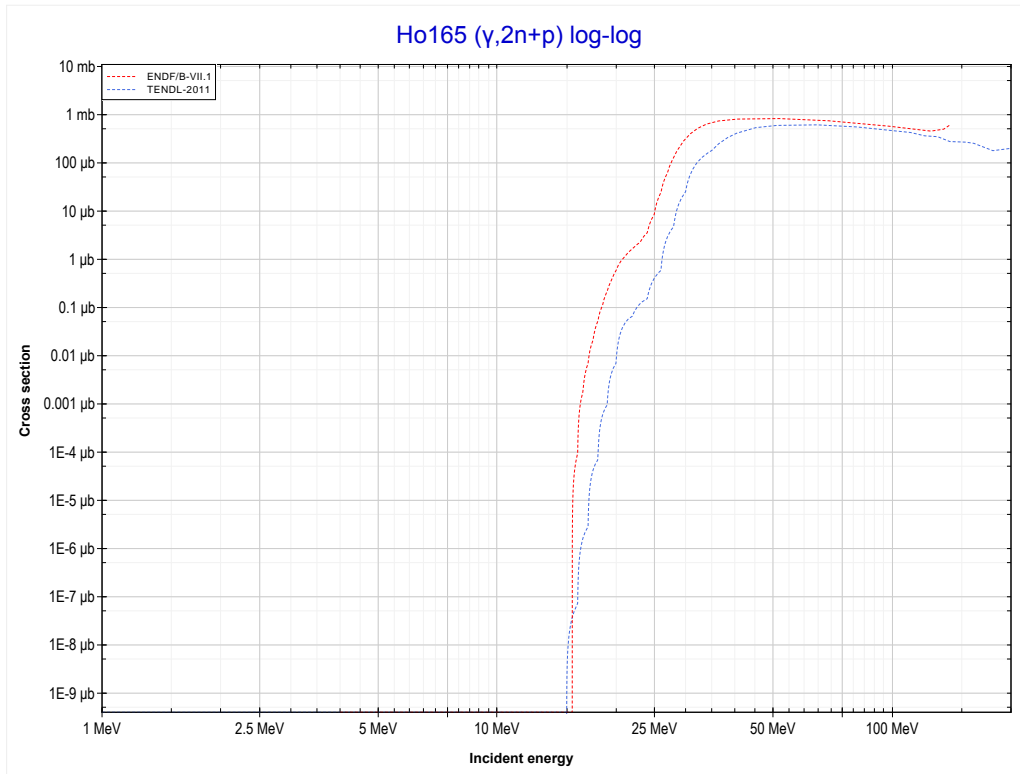
Reaction	Q-Value
Ho165($\gamma,3n$)Ho162	-23071.55 keV

<< 65-Tb-159	67-Ho-165	71-Lu-175 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Dy163 production)	MT41 ($\gamma,2n+p$) >>



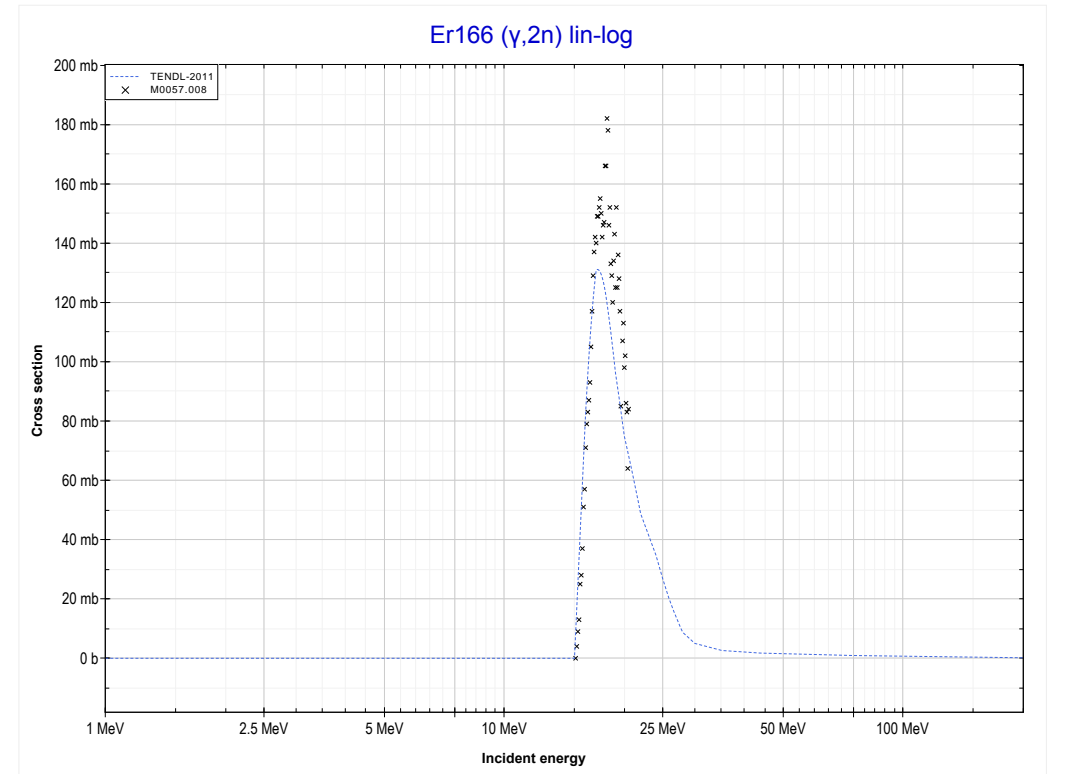
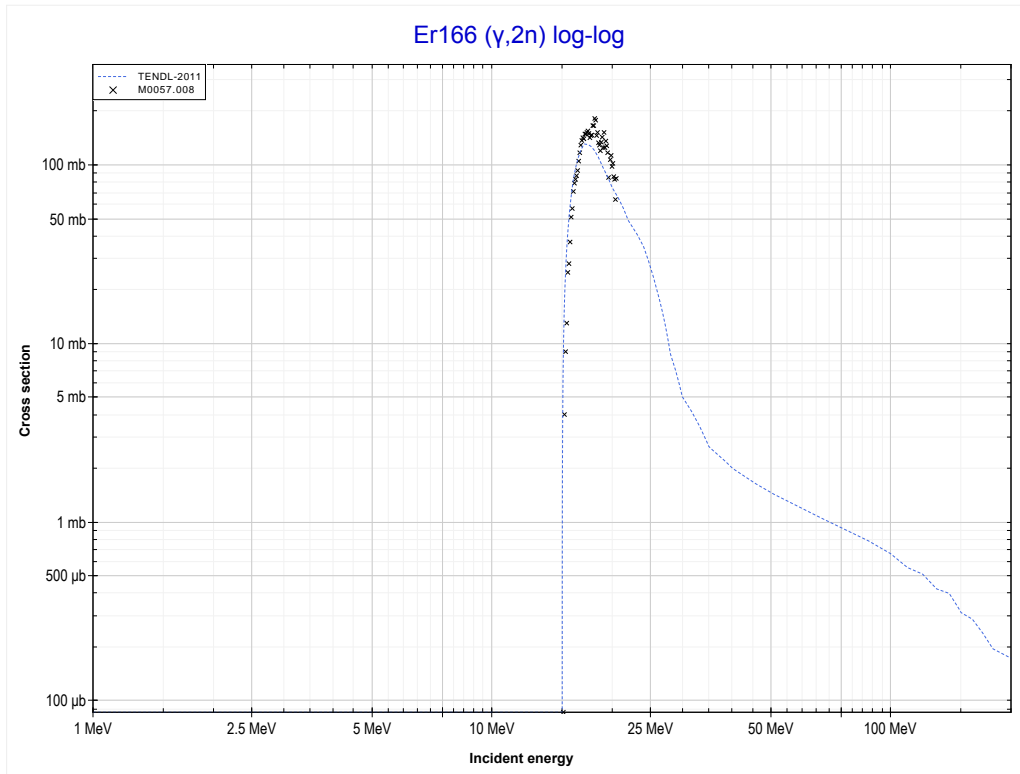
Reaction	Q-Value
Ho165(γ,d)Dy163	-11653.82 keV
Ho165($\gamma,n+p$)Dy163	-13878.39 keV

<< 65-Tb-159	67-Ho-165	71-Lu-175 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Dy162 production)	MT16 ($\gamma, 2n$) >>



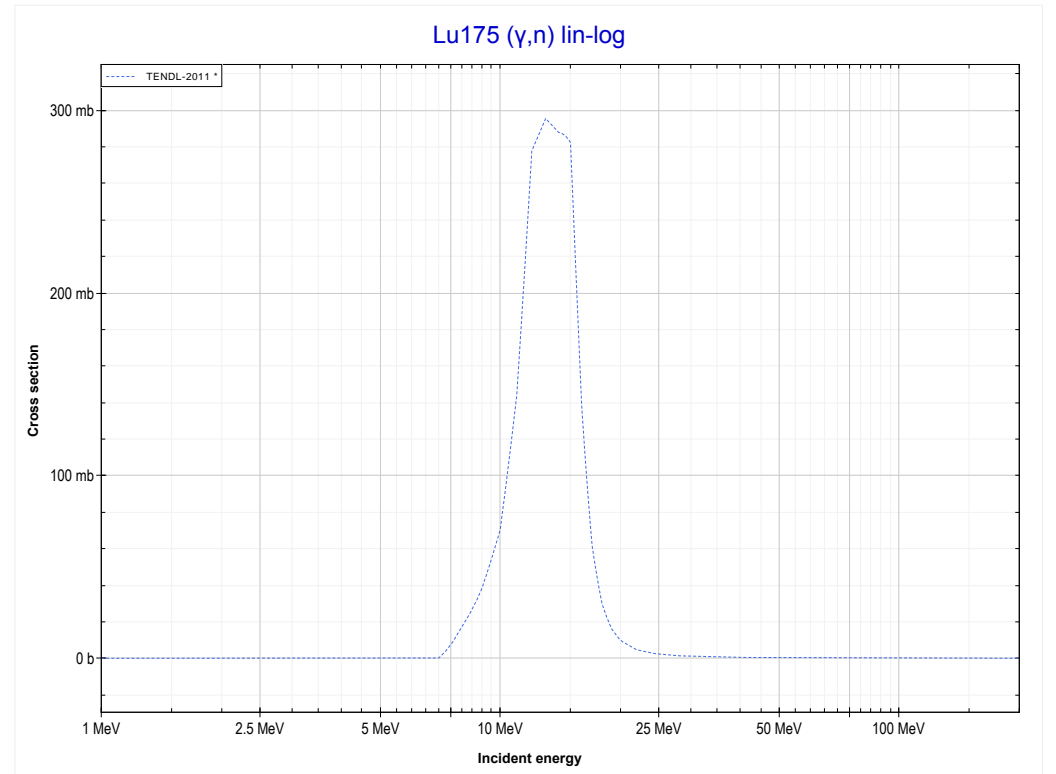
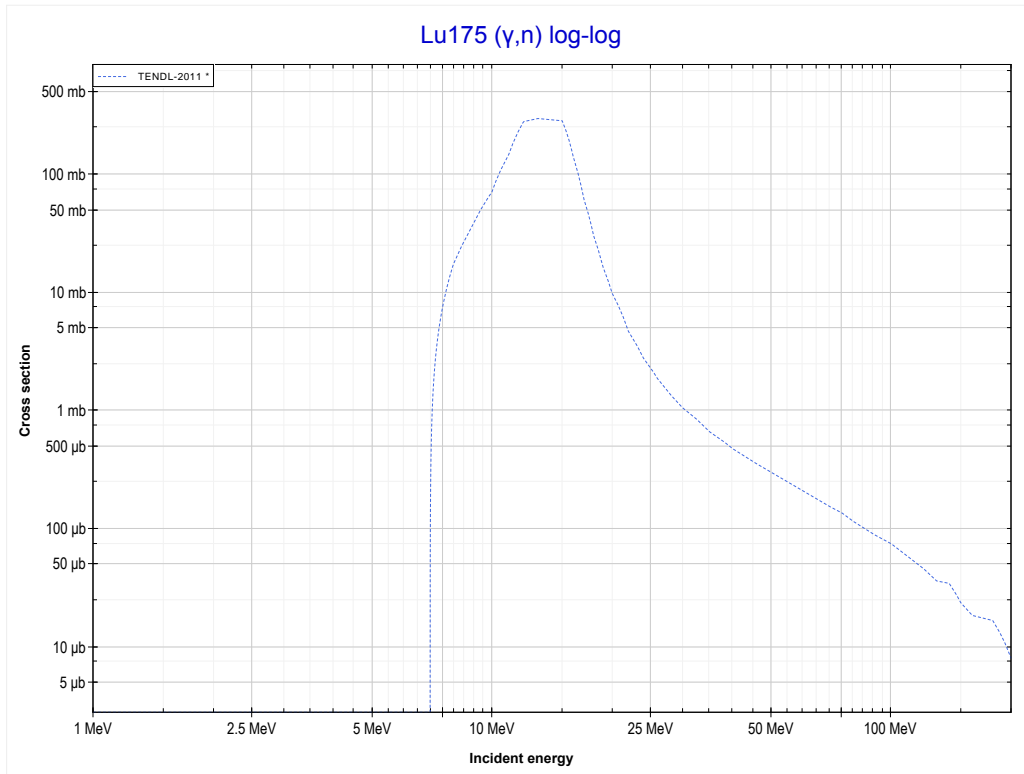
Reaction	Q-Value
Ho165(γ, t)Dy162	-11667.61 keV
Ho165($\gamma, n+d$)Dy162	-17924.84 keV
Ho165($\gamma, 2n+p$)Dy162	-20149.40 keV

<< 67-Ho-165	68-Er-166	71-Lu-175 >>
<< MT41 ($\gamma,2n+p$)	MT16 ($\gamma,2n$) or MT5 (Er164 production)	MT4 (γ,n) >>



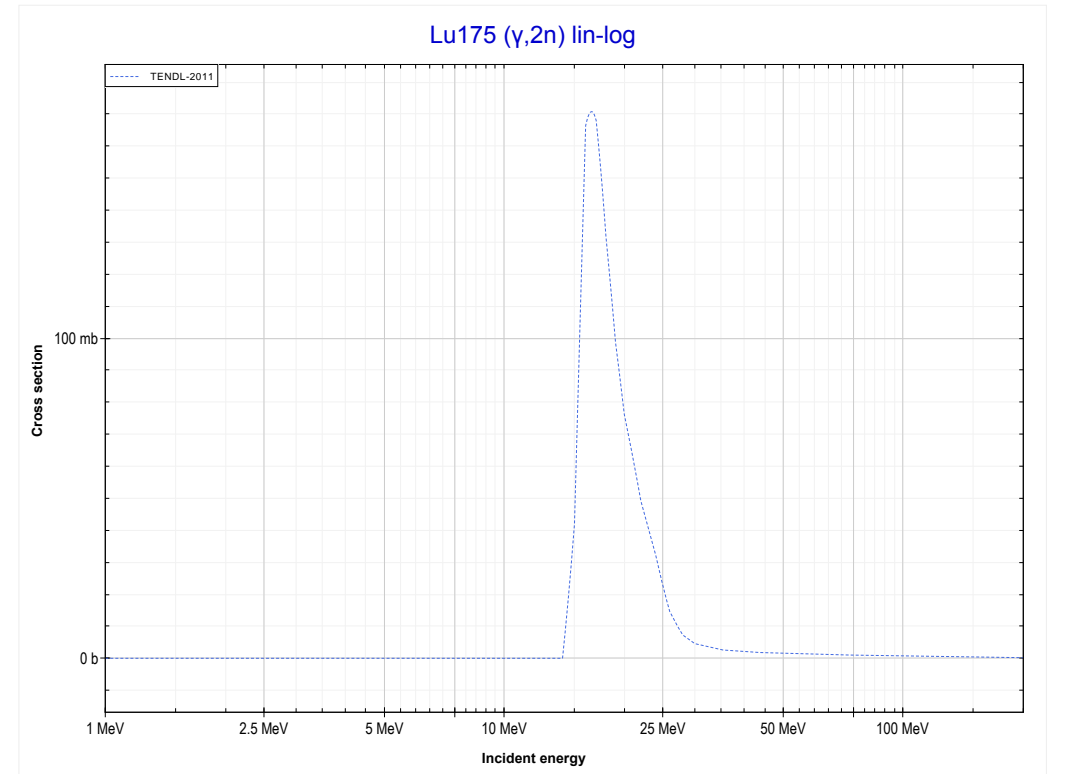
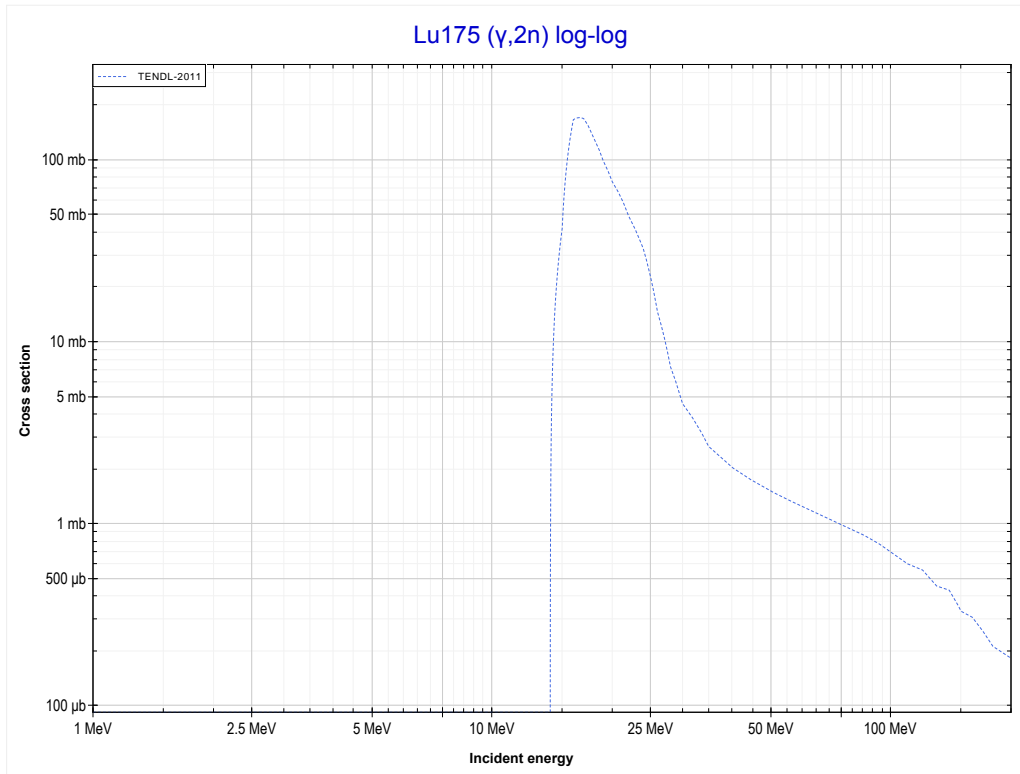
Reaction	Q-Value
Er166($\gamma,2n$)Er164	-15124.23 keV

<< 67-Ho-165	71-Lu-175	72-Hf-176 >>
<< MT16 (γ,2n)	MT4 (γ,n) or MT5 (Lu174 production)	MT16 (γ,2n) >>



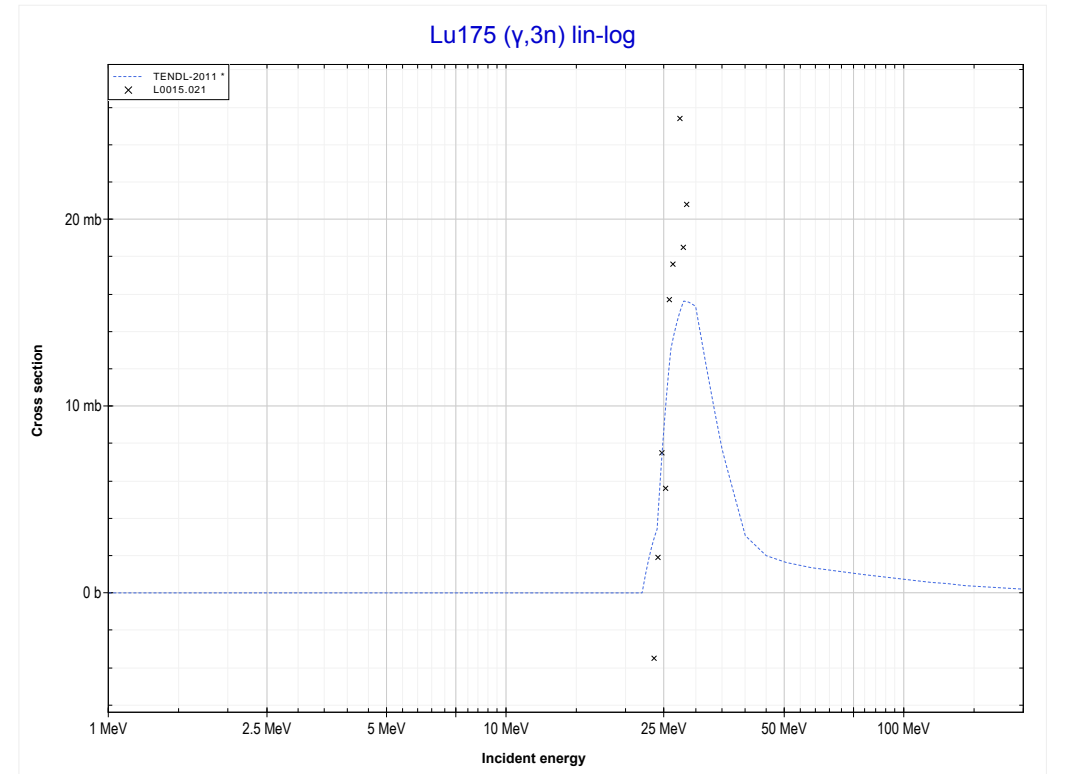
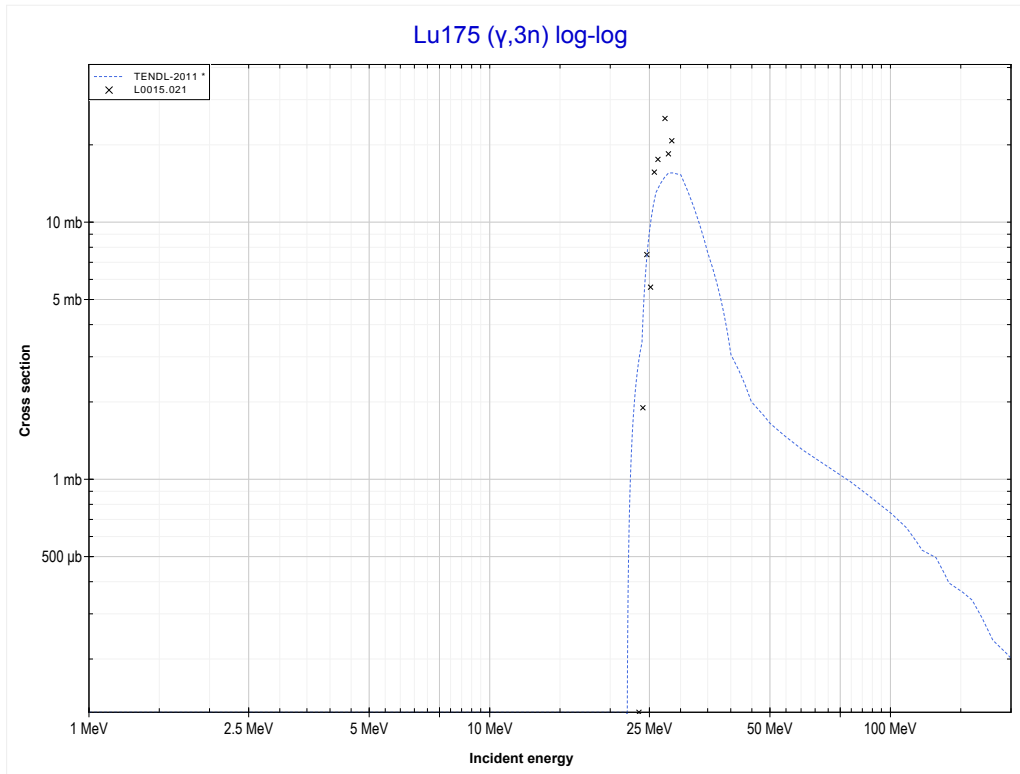
Reaction	Q-Value
Lu175(γ,n)Lu174	-7666.72 keV

<< 68-Er-166	71-Lu-175	72-Hf-176 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Lu173 production)	MT17 ($\gamma,3n$) >>



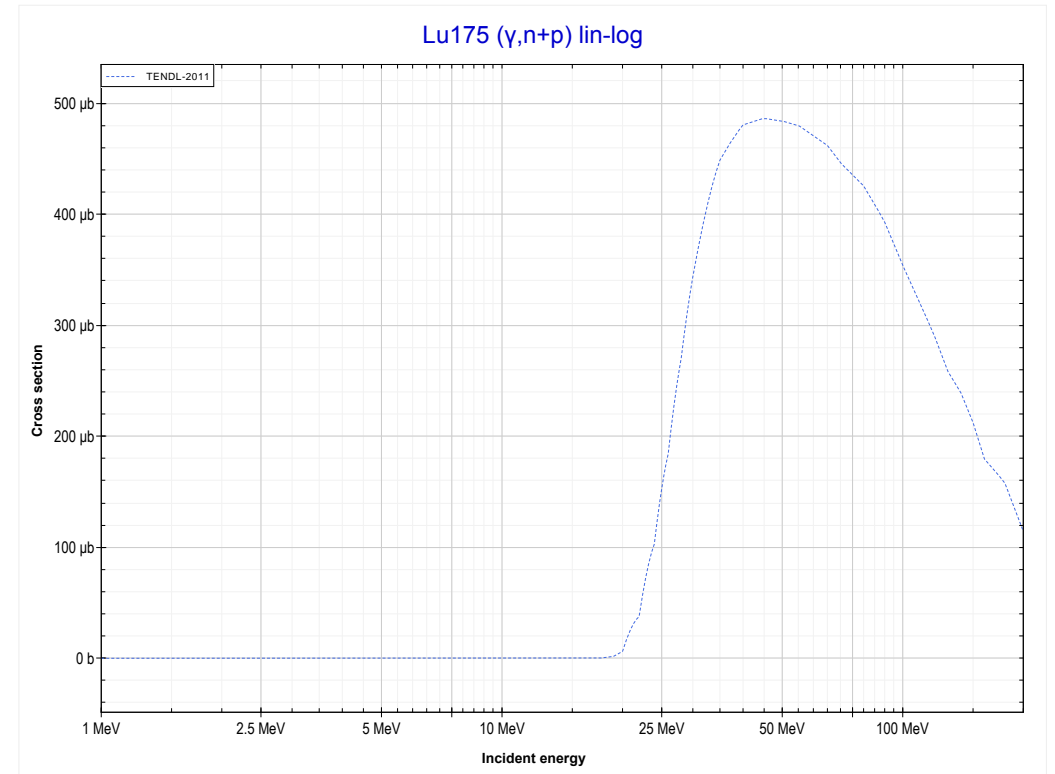
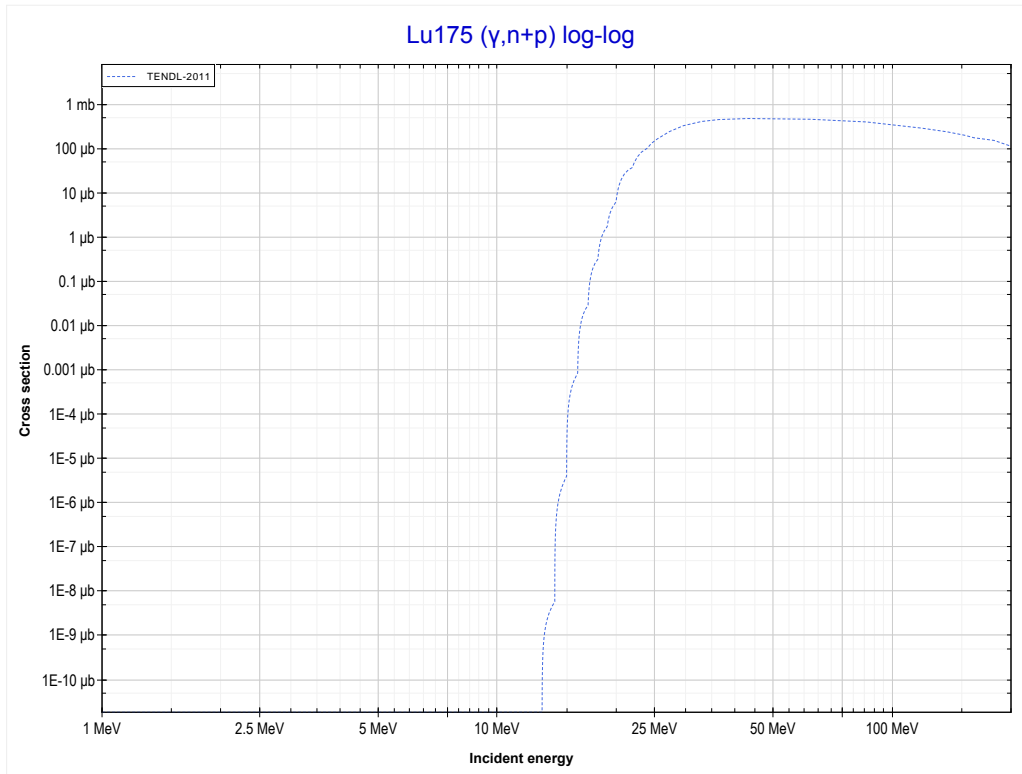
Reaction	Q-Value
Lu175($\gamma,2n$)Lu173	-14427.53 keV

<< 67-Ho-165	71-Lu-175	73-Ta-181 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Lu172 production)	MT28 ($\gamma,n+p$) >>



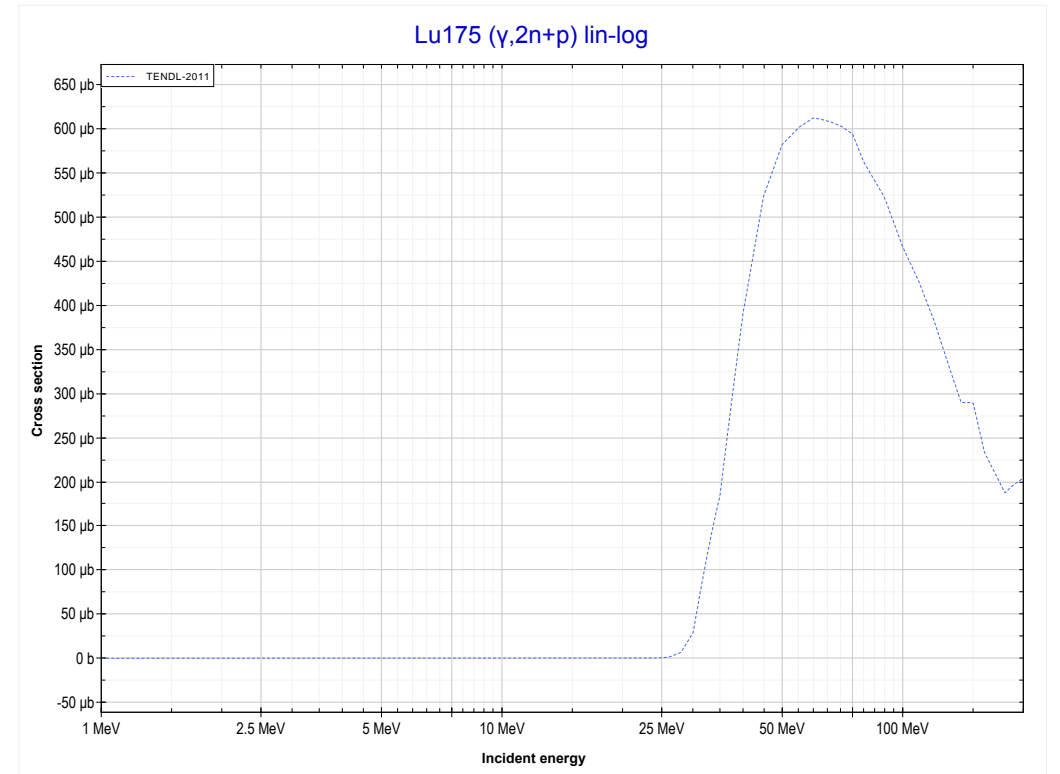
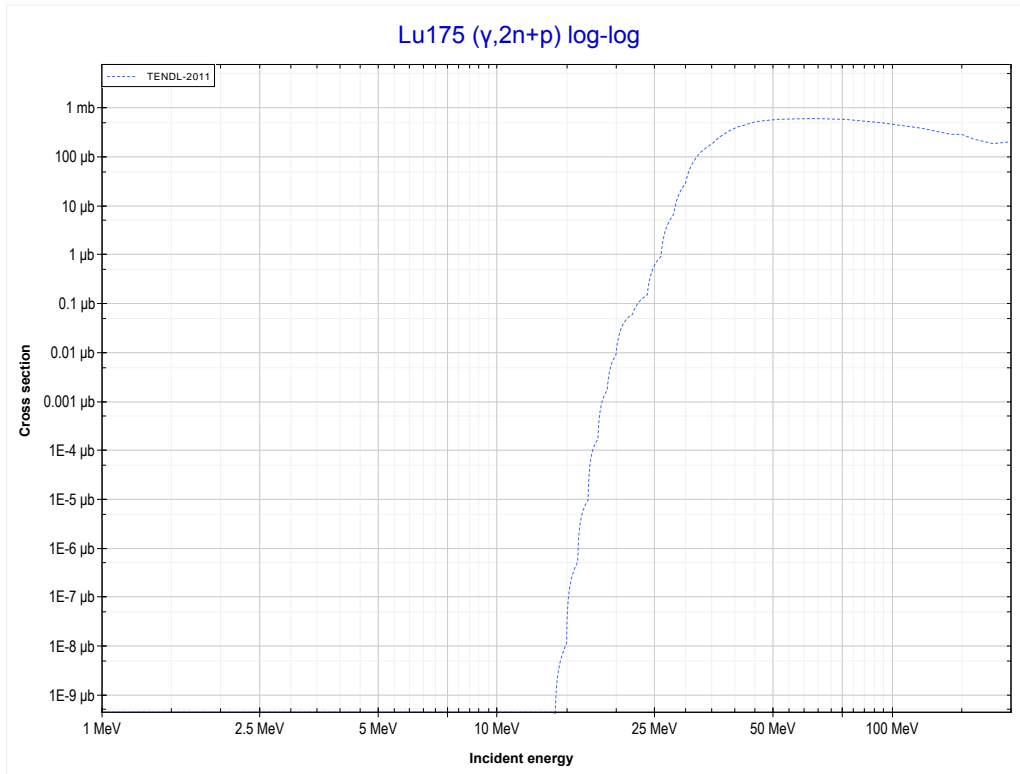
Reaction	Q-Value
Lu175($\gamma,3n$)Lu172	-22643.35 keV

<< 67-Ho-165	71-Lu-175	73-Ta-181 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Yb173 production)	MT41 ($\gamma,2n+p$) >>



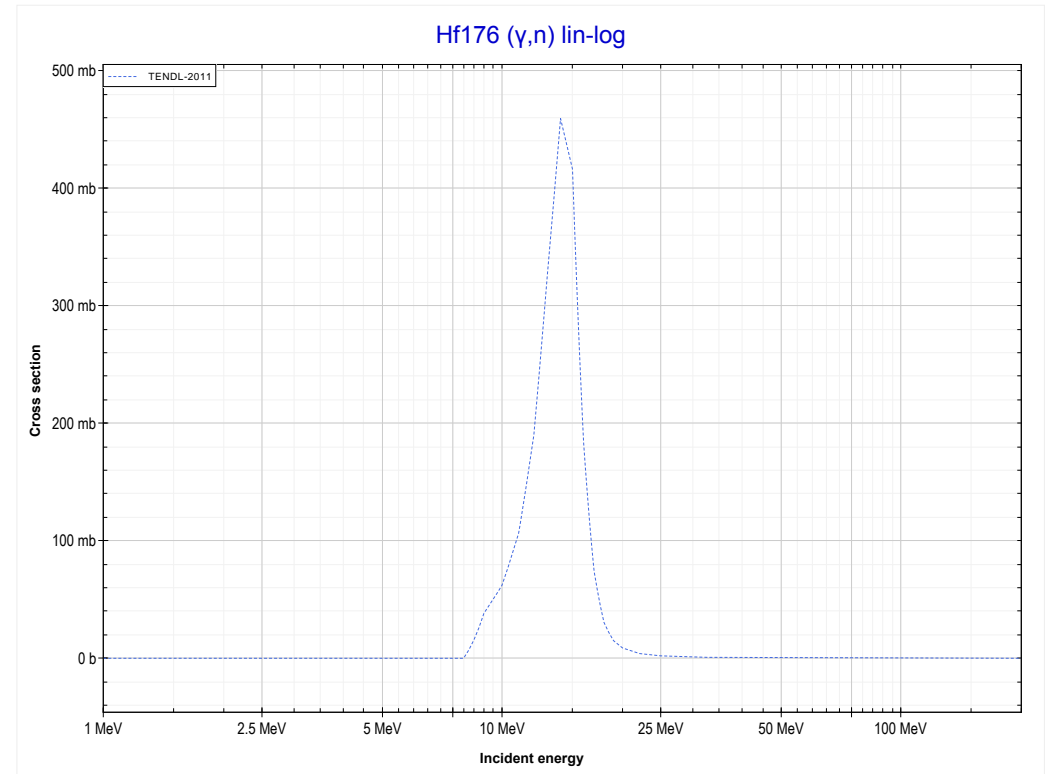
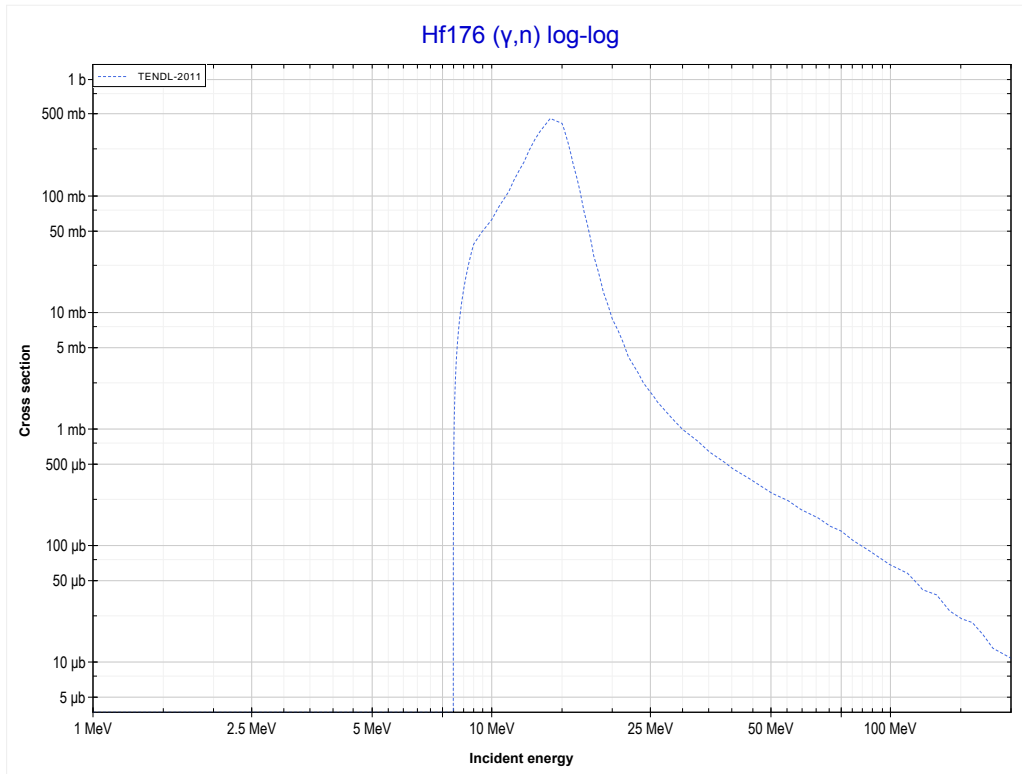
Reaction	Q-Value
Lu175(γ,d)Yb173	-10750.12 keV
Lu175($\gamma,n+p$)Yb173	-12974.69 keV

<< 67-Ho-165	71-Lu-175	73-Ta-181 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Yb172 production)	MT4 (γ, n) >>



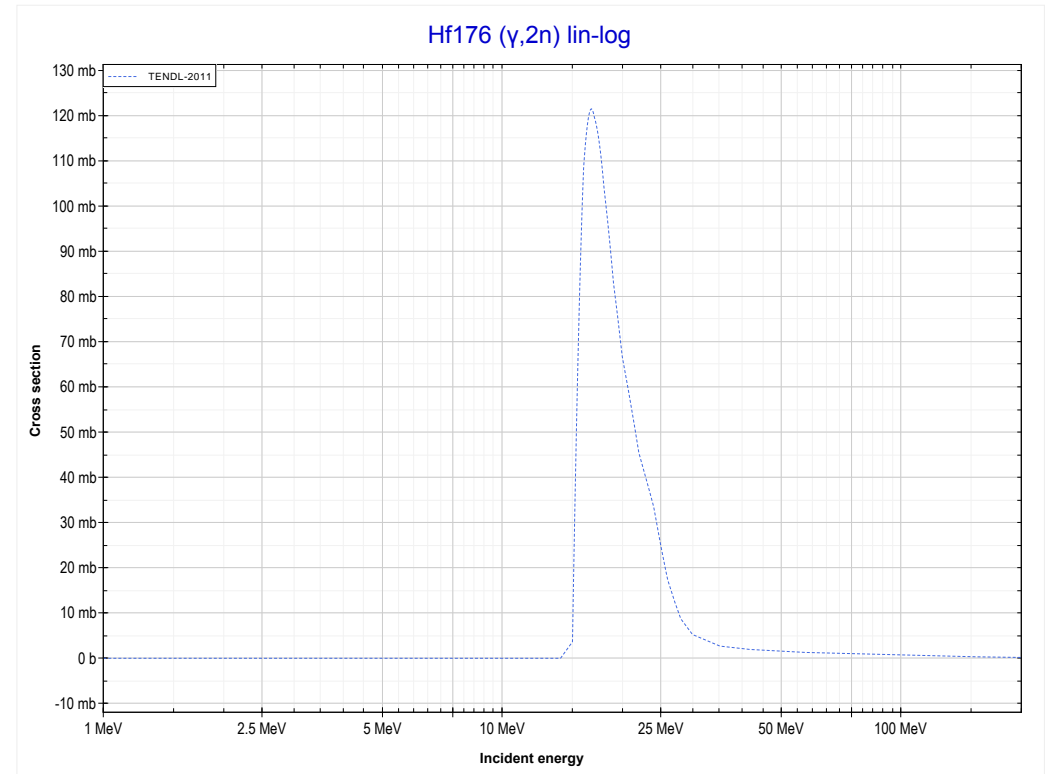
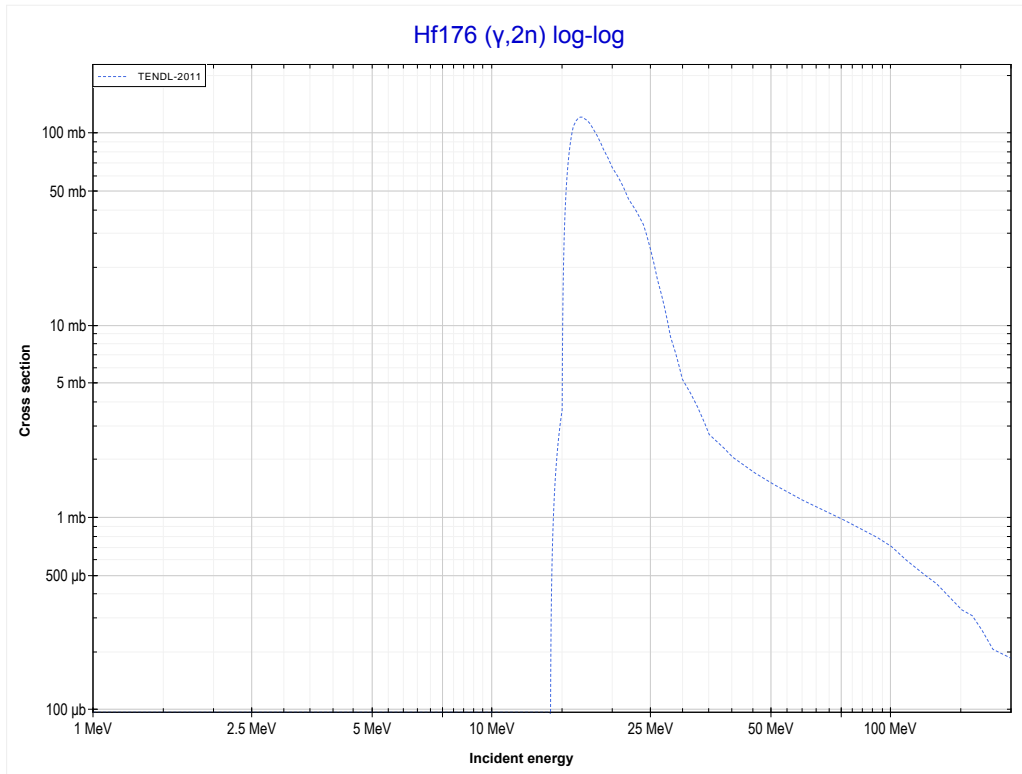
Reaction	Q-Value
Lu175(γ, t)Yb172	-10860.21 keV
Lu175($\gamma, n+d$)Yb172	-17117.44 keV
Lu175($\gamma, 2n+p$)Yb172	-19342.00 keV

<< 71-Lu-175	72-Hf-176	72-Hf-178 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Hf175 production)	MT16 ($\gamma,2n$) >>



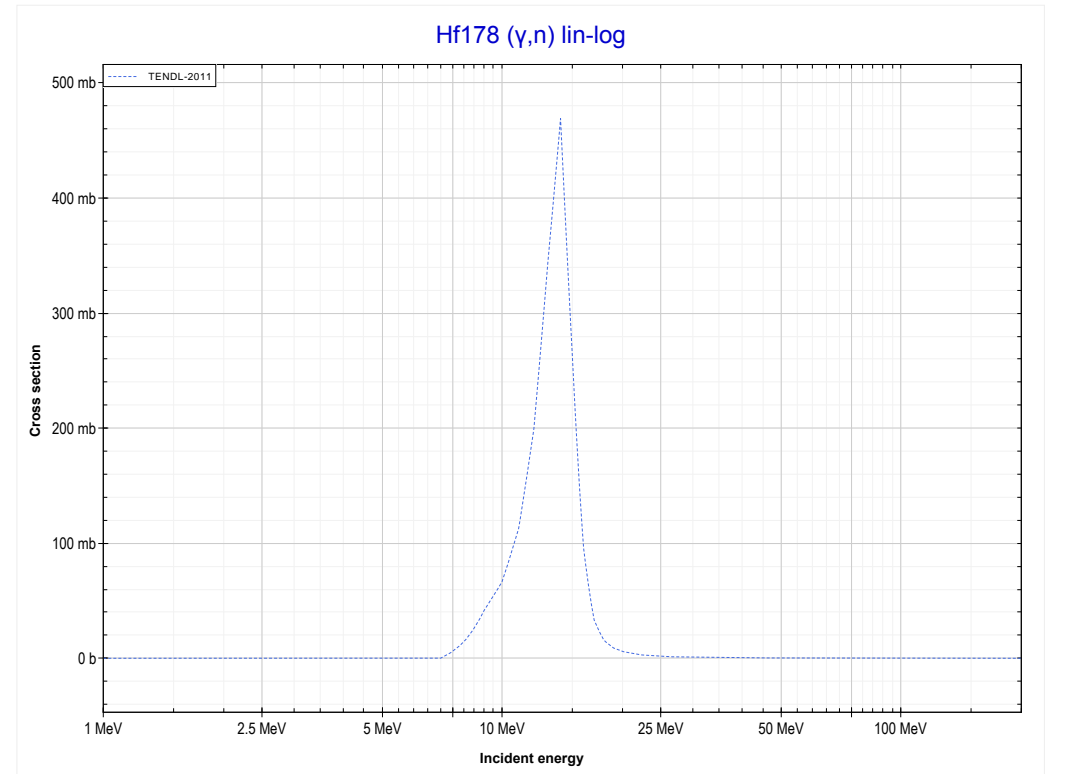
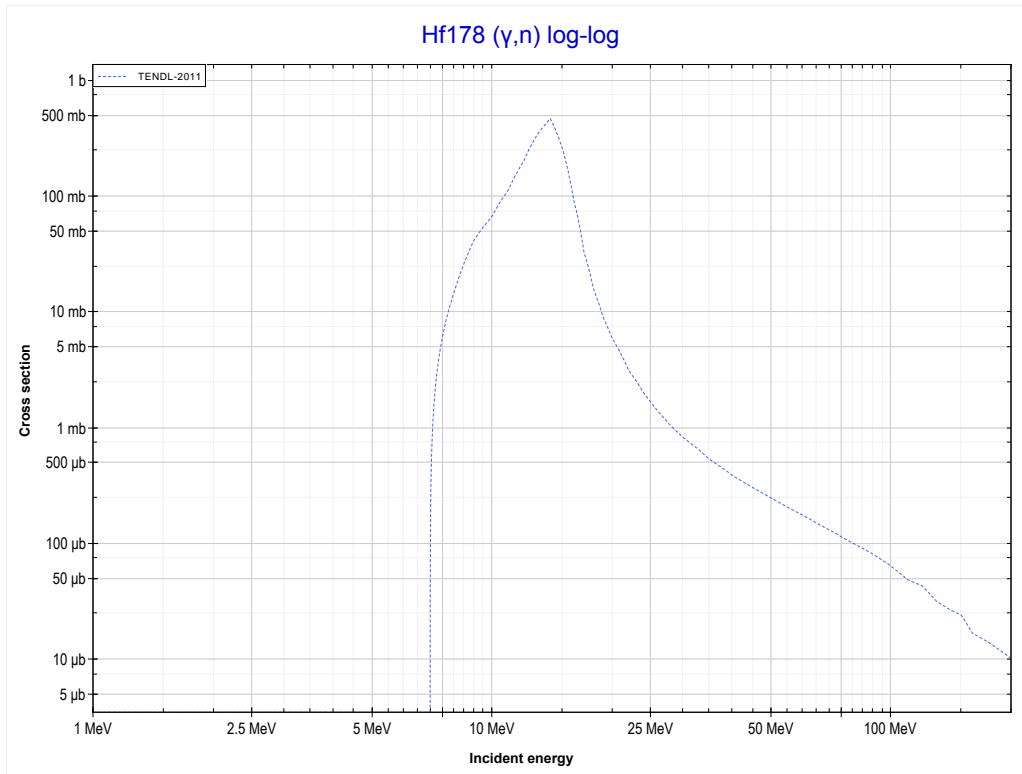
Reaction	Q-Value
Hf176(γ,n)Hf175	-8165.02 keV

<< 71-Lu-175	72-Hf-176	72-Hf-178 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Hf174 production)	MT4 (γ,n) >>



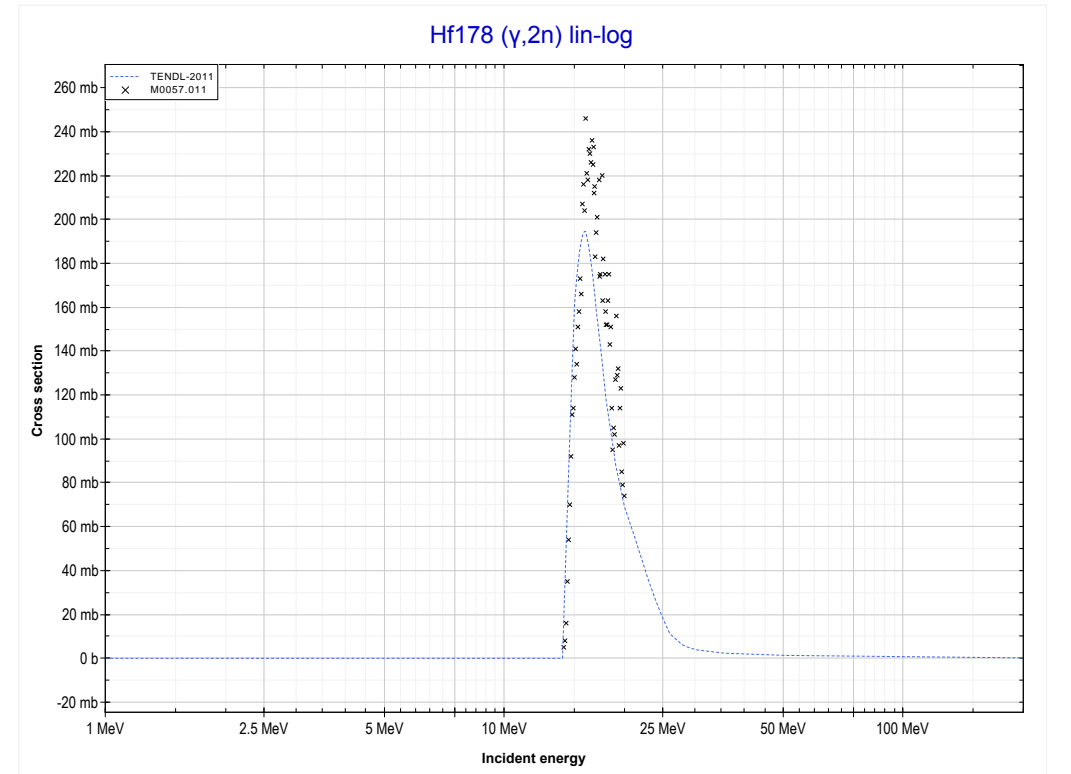
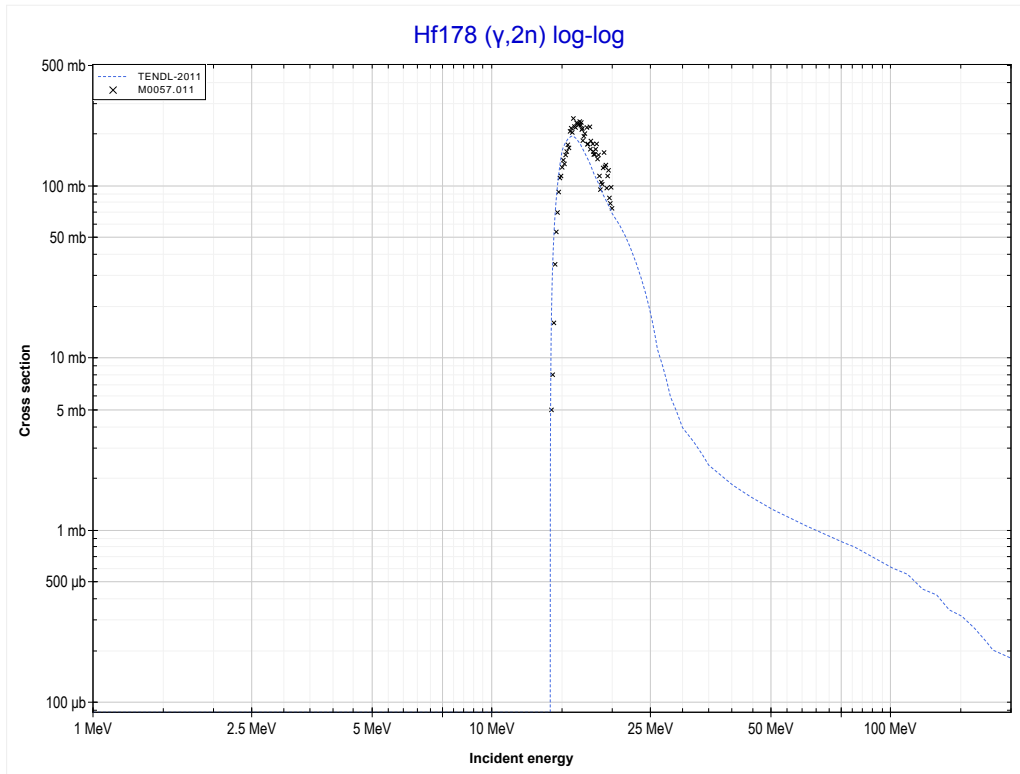
Reaction	Q-Value
Hf176($\gamma,2n$)Hf174	-14873.53 keV

<< 72-Hf-176	72-Hf-178	72-Hf-180 >>
<< MT16 ($\gamma,2n$)	MT4 (γ,n) or MT5 (Hf177 production)	MT16 ($\gamma,2n$) >>



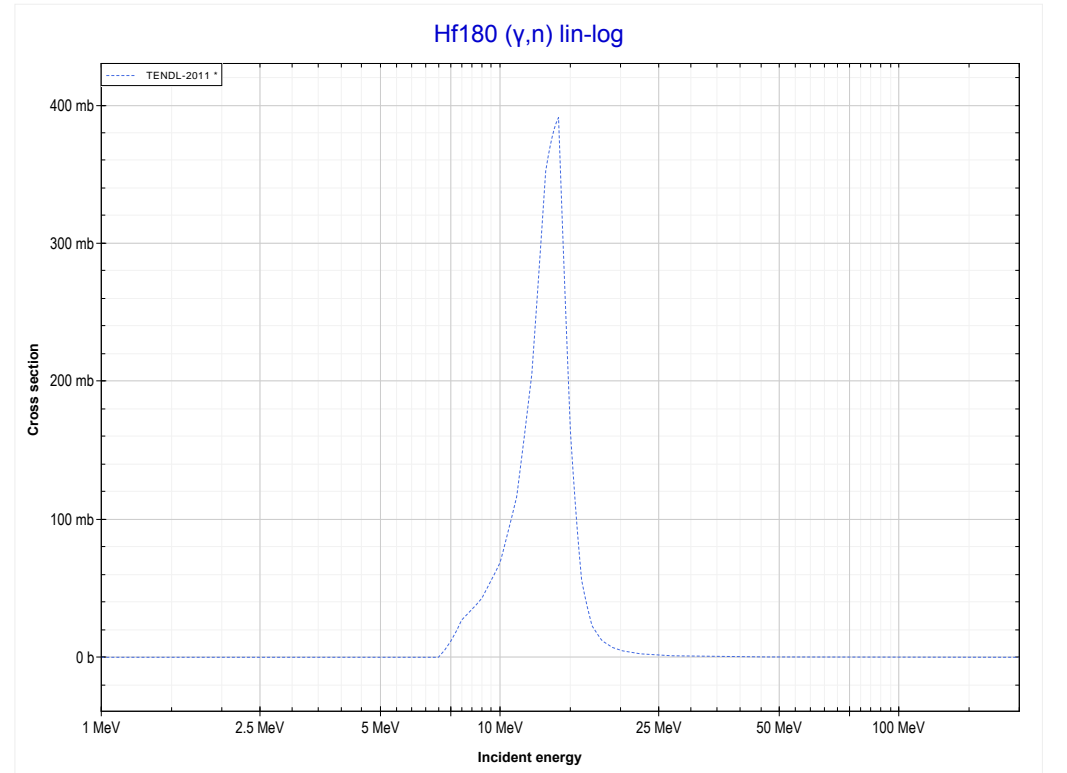
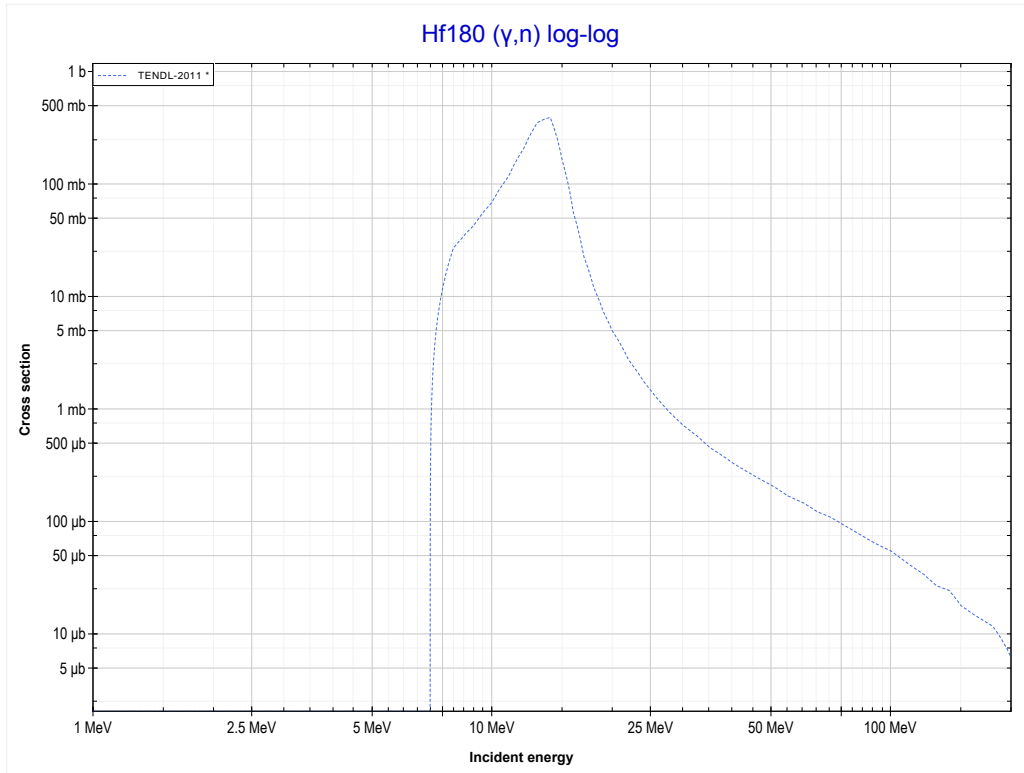
Reaction	Q-Value
Hf178(γ,n)Hf177	-7626.02 keV

<< 72-Hf-176	72-Hf-178	72-Hf-180 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Hf176 production)	MT4 (γ, n) >>



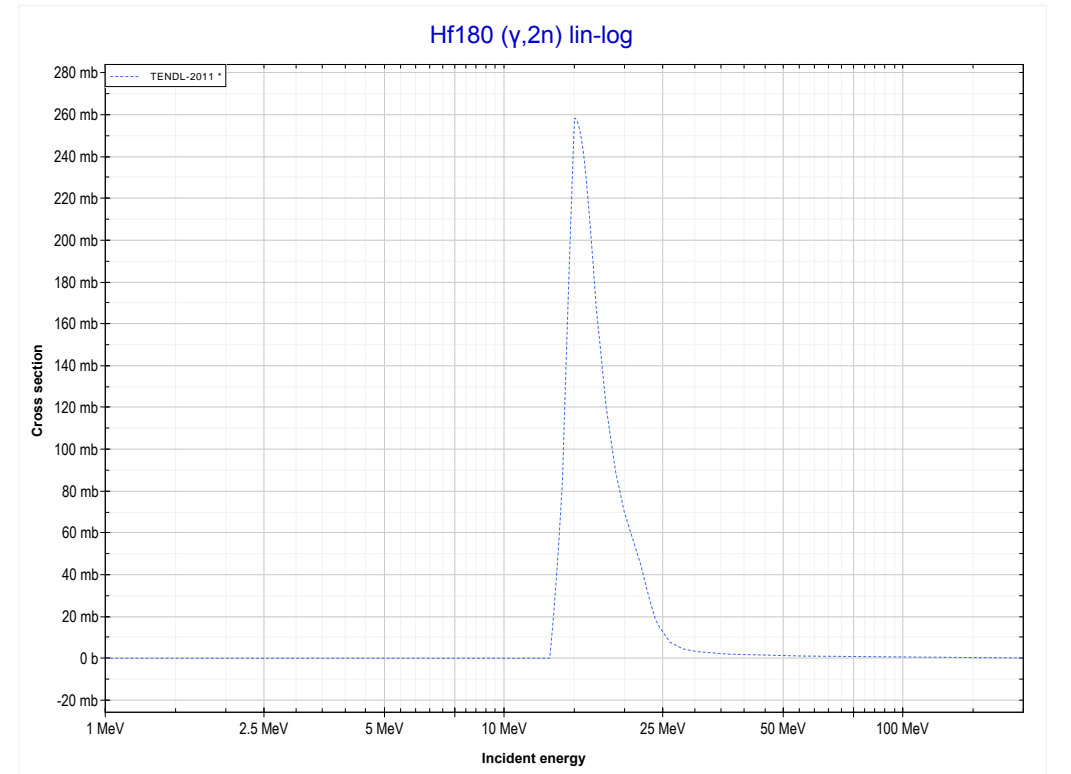
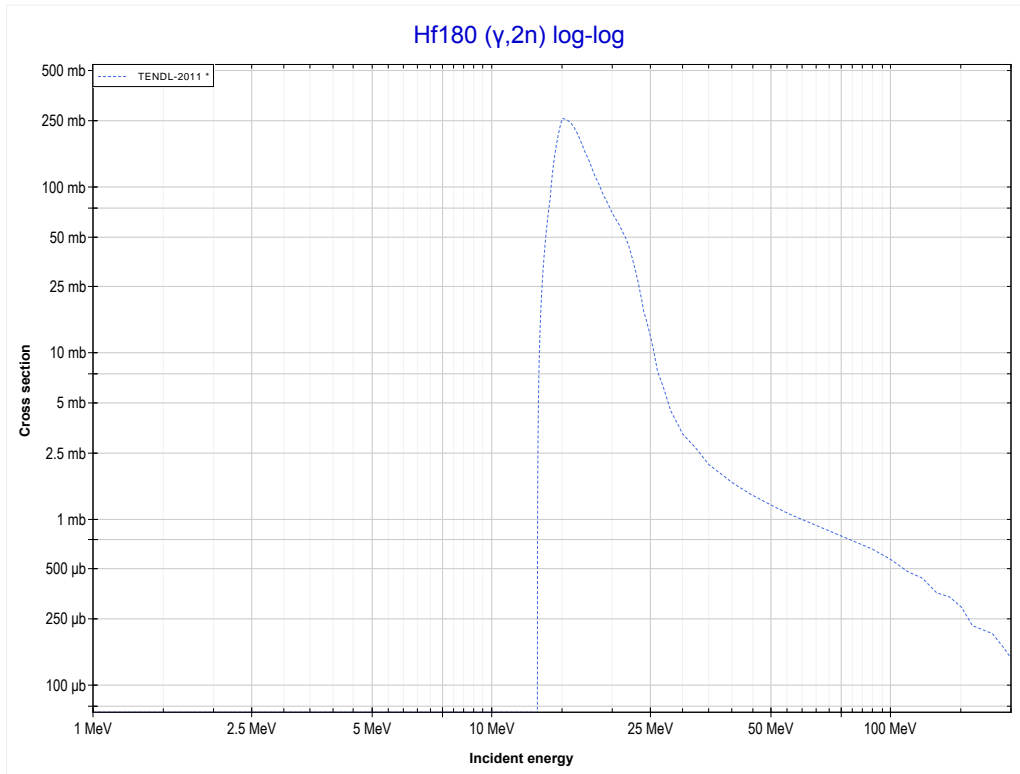
Reaction	Q-Value
Hf178($\gamma, 2n$)Hf176	-14009.43 keV

<< 72-Hf-178	72-Hf-180	73-Ta-181 >>
<< MT16 ($\gamma,2n$)	MT4 (γ,n) or MT5 (Hf179 production)	MT16 ($\gamma,2n$) >>



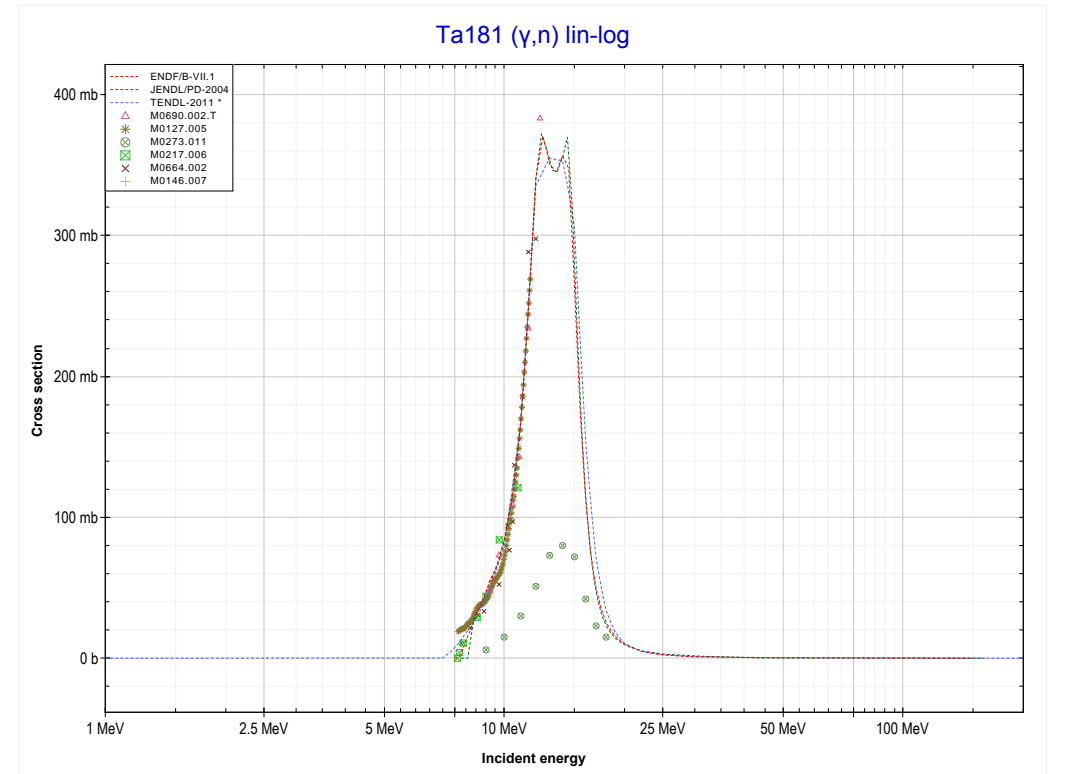
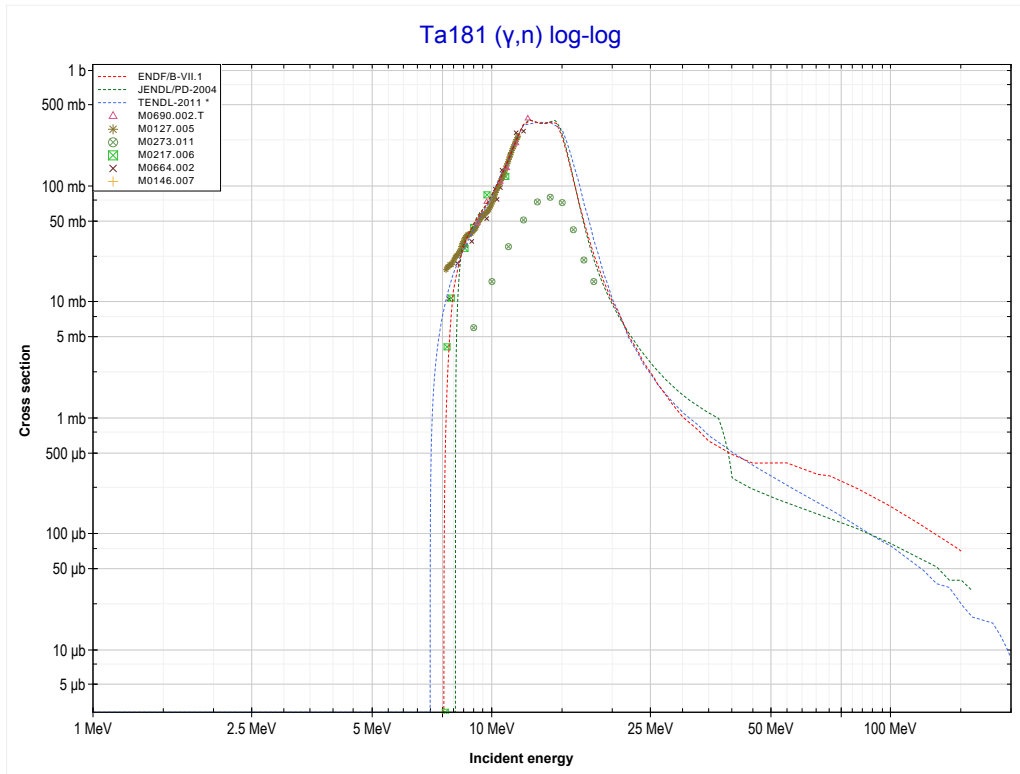
Reaction	Q-Value
Hf180(γ,n)Hf179	-7387.82 keV

<< 72-Hf-178	72-Hf-180	73-Ta-181 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Hf178 production)	MT4 (γ,n) >>



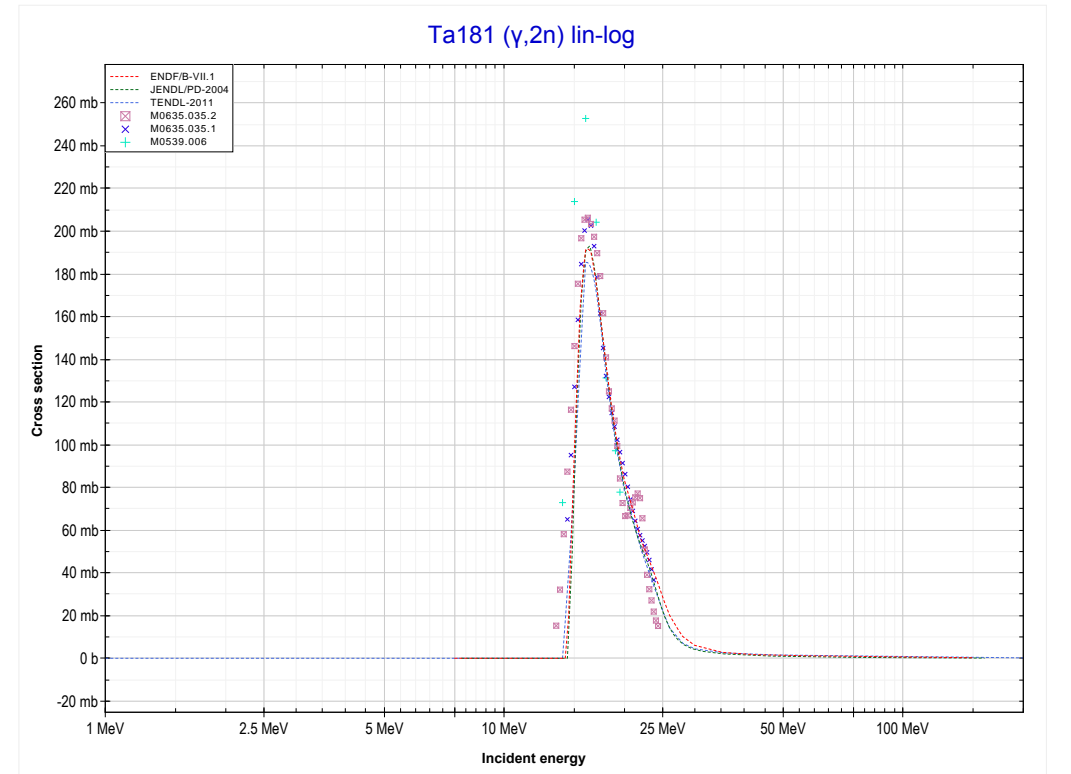
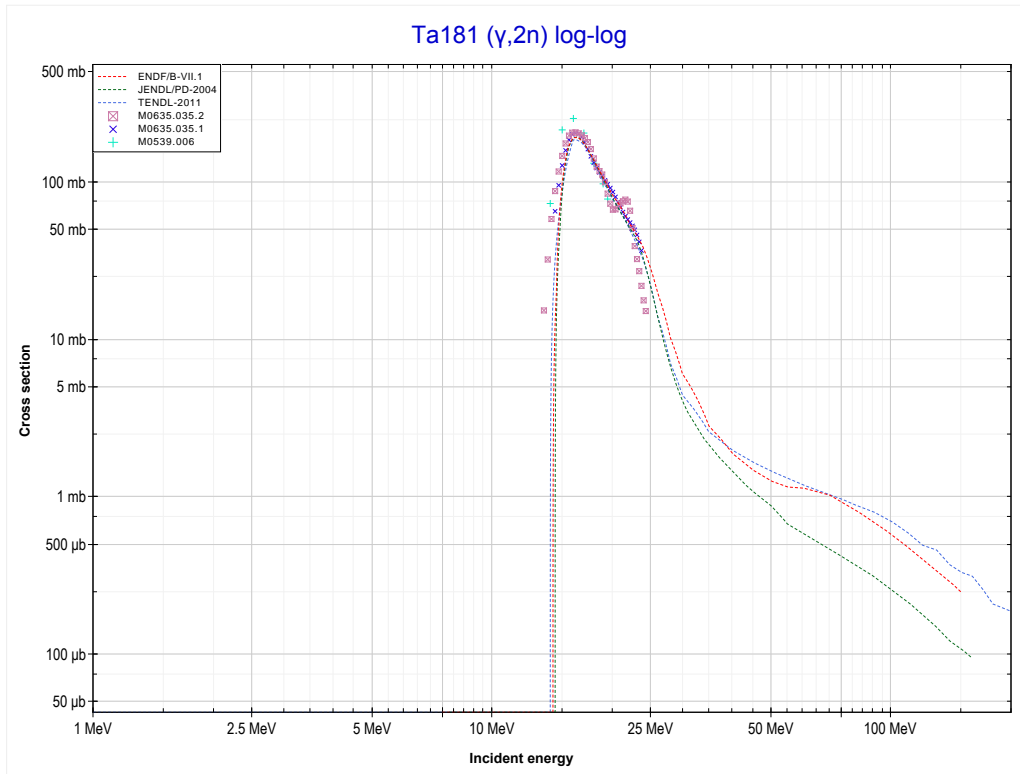
Reaction	Q-Value
Hf180($\gamma,2n$)Hf178	-13486.73 keV

<< 72-Hf-180	73-Ta-181	74-W-182 >>
<< MT16 ($\gamma,2n$)	MT4 (γ,n) or MT5 (Ta180 production)	MT16 ($\gamma,2n$) >>



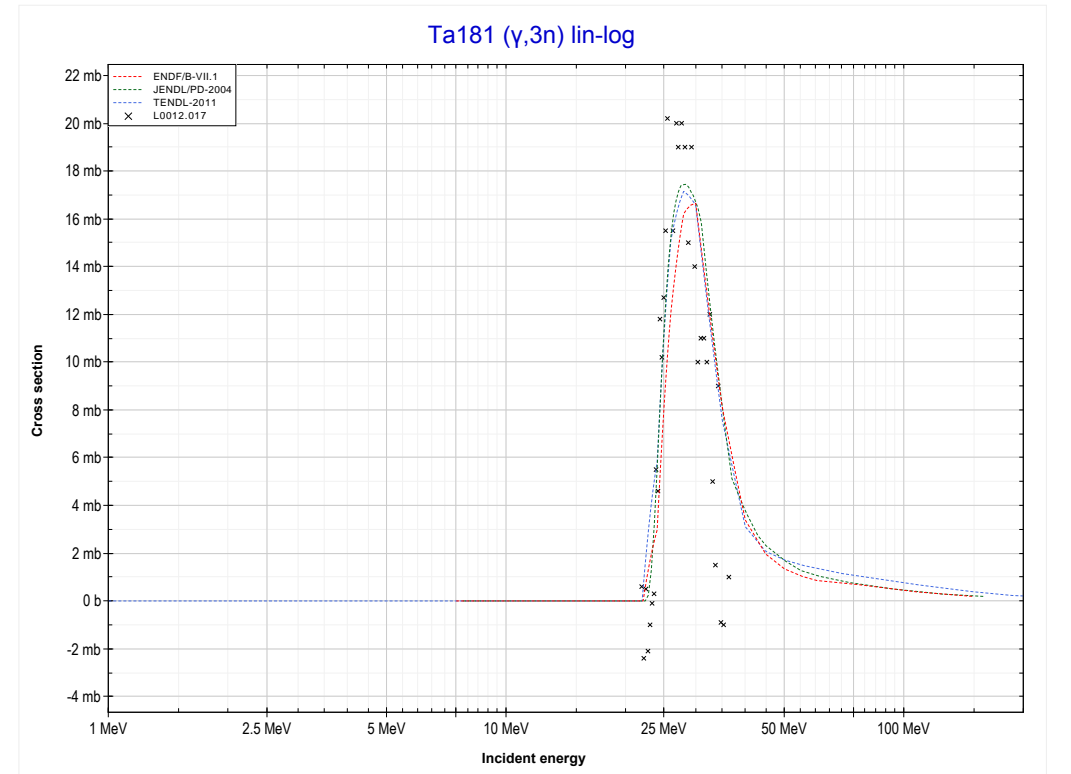
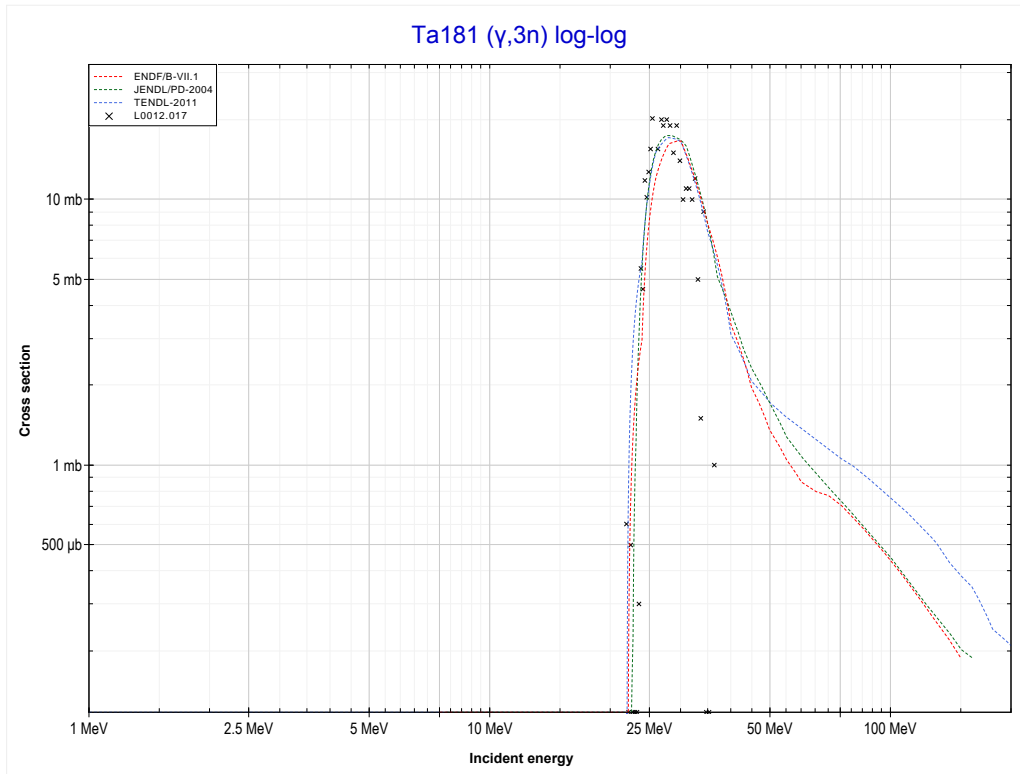
Reaction	Q-Value
Ta181(γ,n)Ta180	-7576.72 keV

<< 72-Hf-180	73-Ta-181	74-W-186 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Ta179 production)	MT17 ($\gamma, 3n$) >>



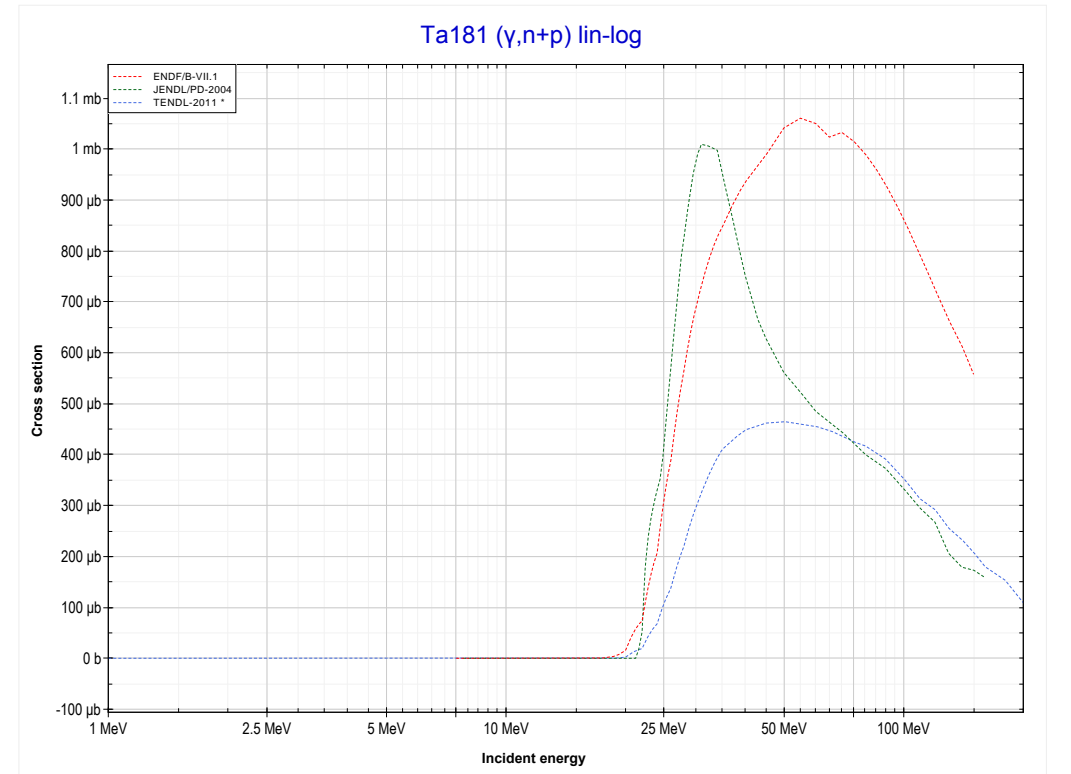
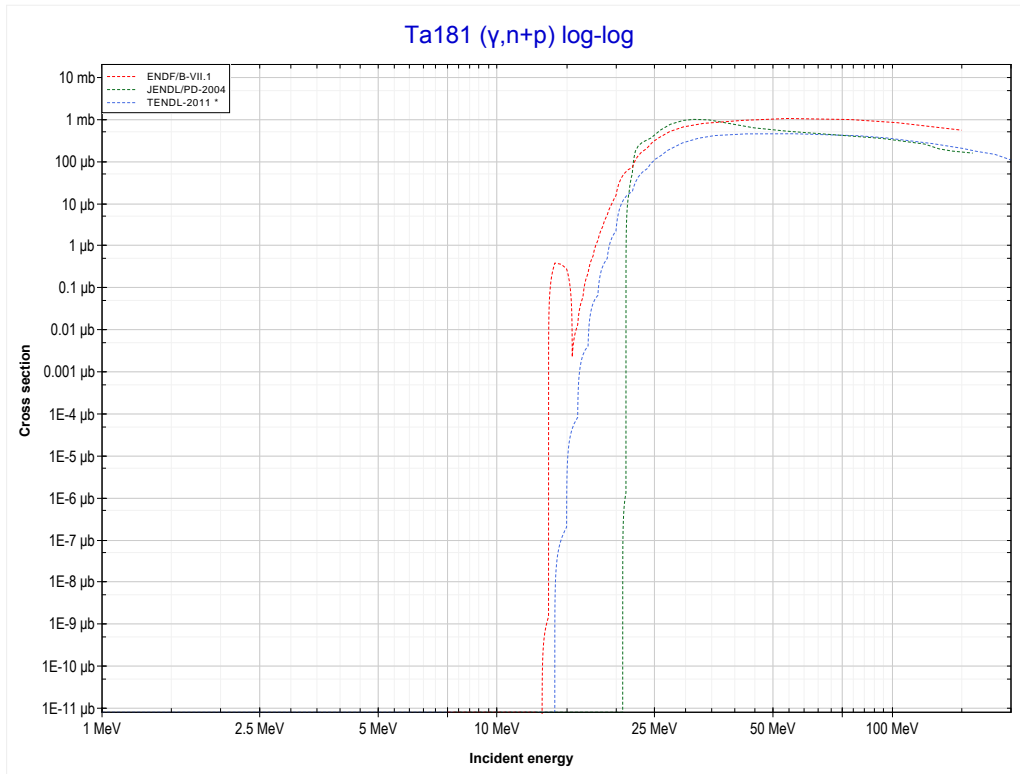
Reaction	Q-Value
Ta181($\gamma, 2n$)Ta179	-14217.93 keV

<< 71-Lu-175	73-Ta-181	74-W-186 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Ta178 production)	MT28 ($\gamma,n+p$) >>



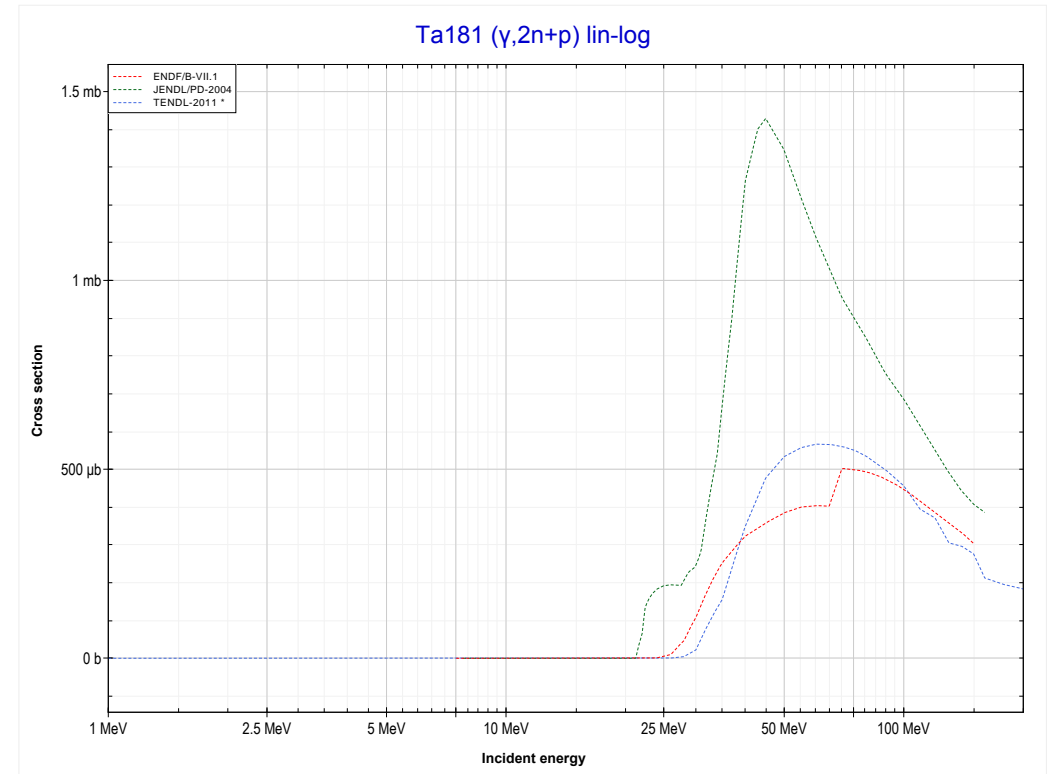
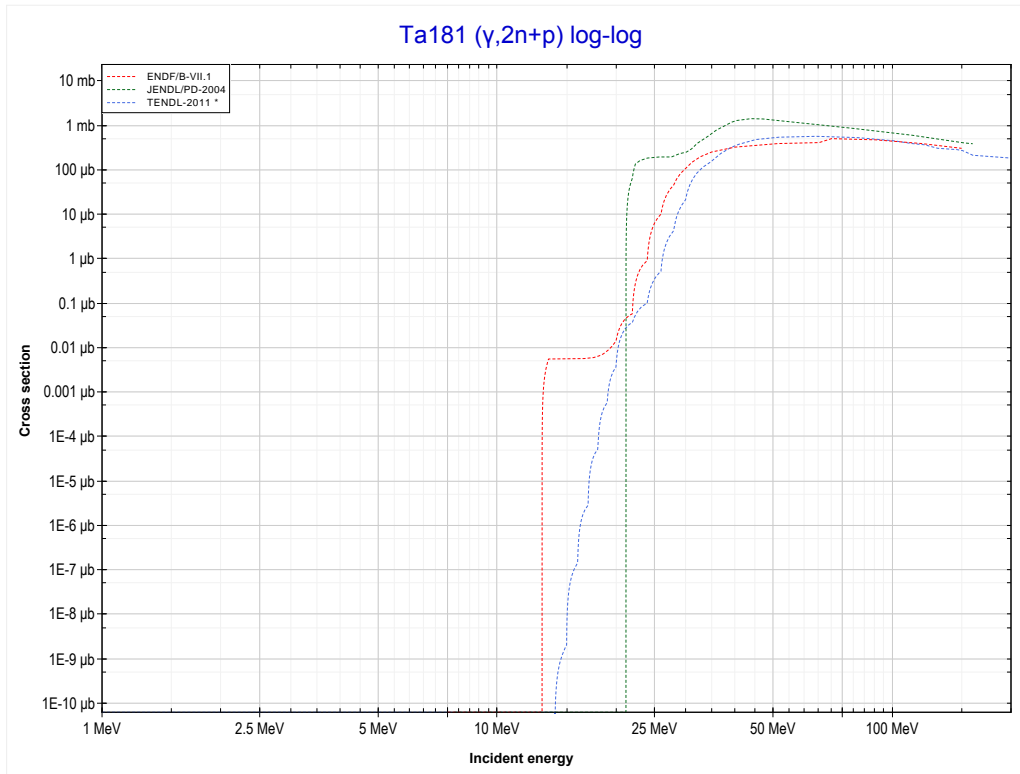
Reaction	Q-Value
Ta181($\gamma,3n$)Ta178	-22148.55 keV

<< 71-Lu-175	73-Ta-181	74-W-182 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Hf179 production)	MT41 ($\gamma,2n+p$) >>



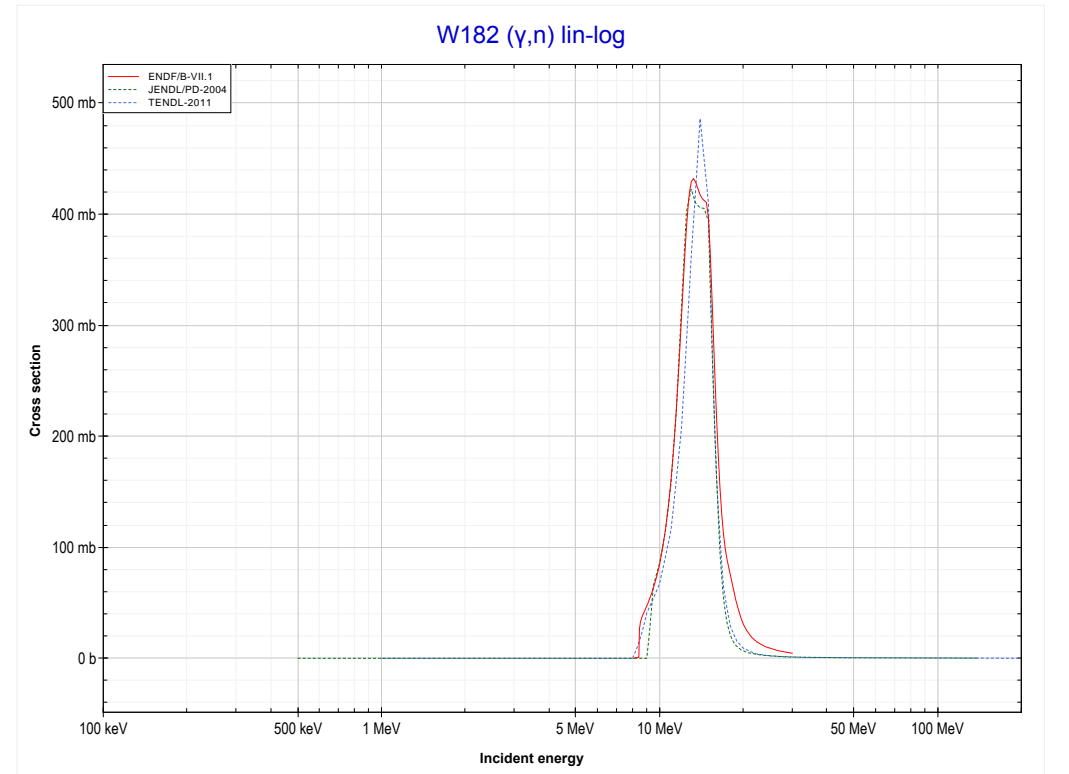
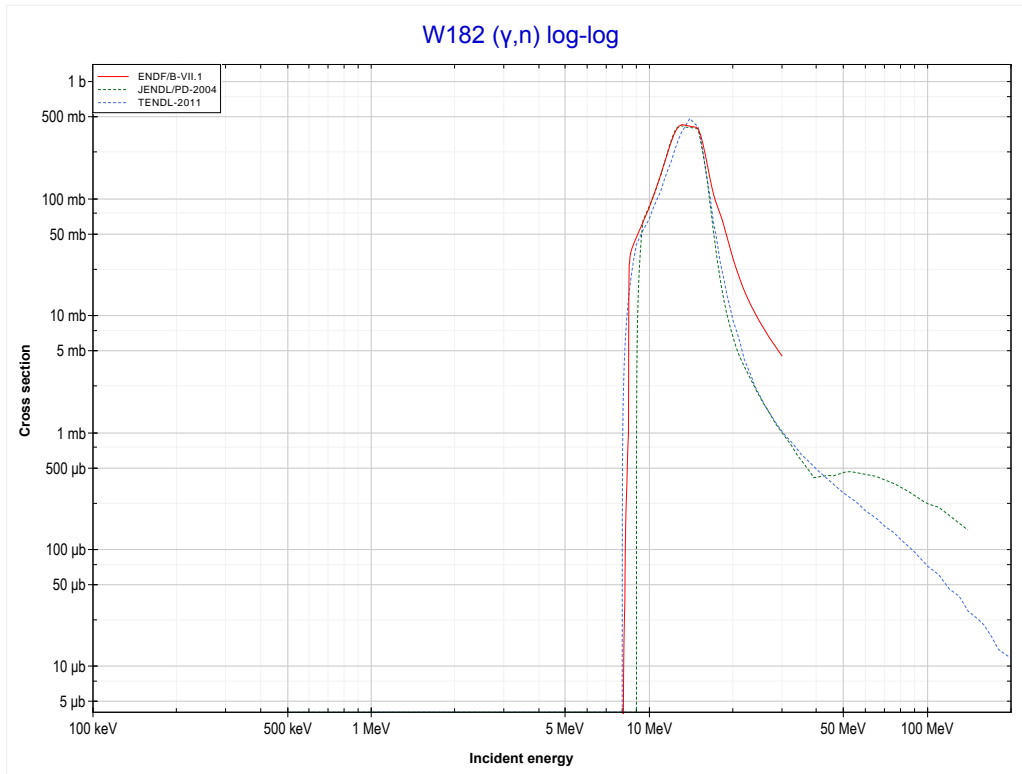
Reaction	Q-Value
Ta181(γ,d)Hf179	-11105.42 keV
Ta181($\gamma,n+p$)Hf179	-13329.99 keV

<< 71-Lu-175	73-Ta-181	74-W-186 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Hf178 production)	MT4 (γ, n) >>



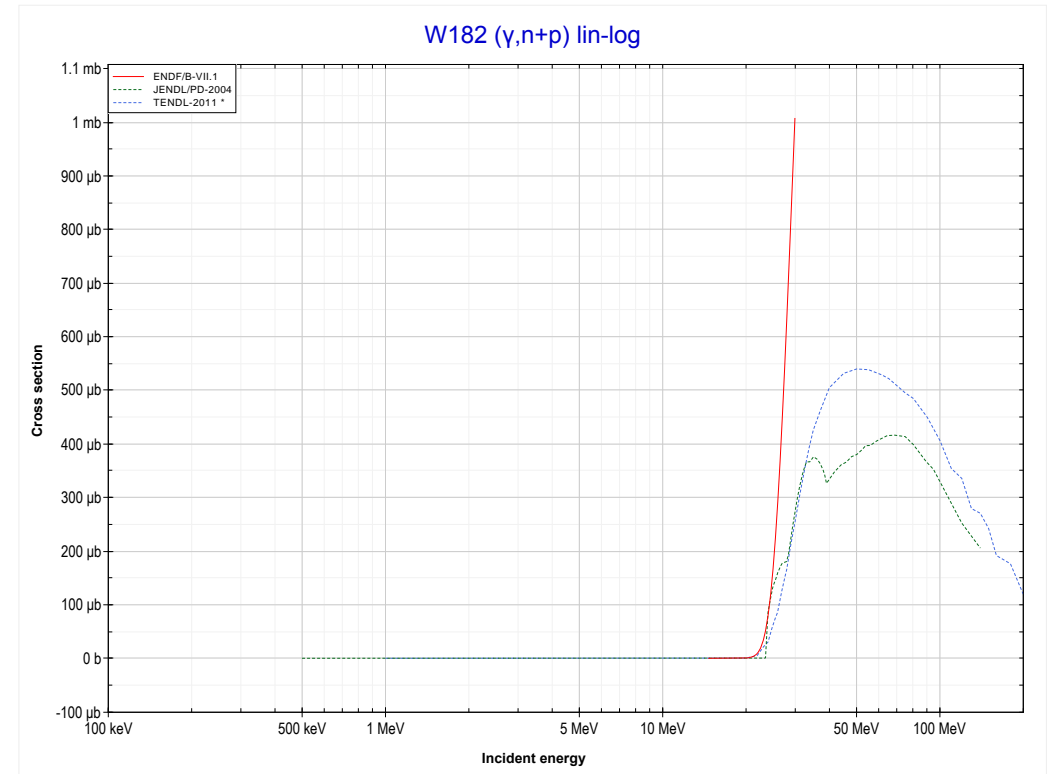
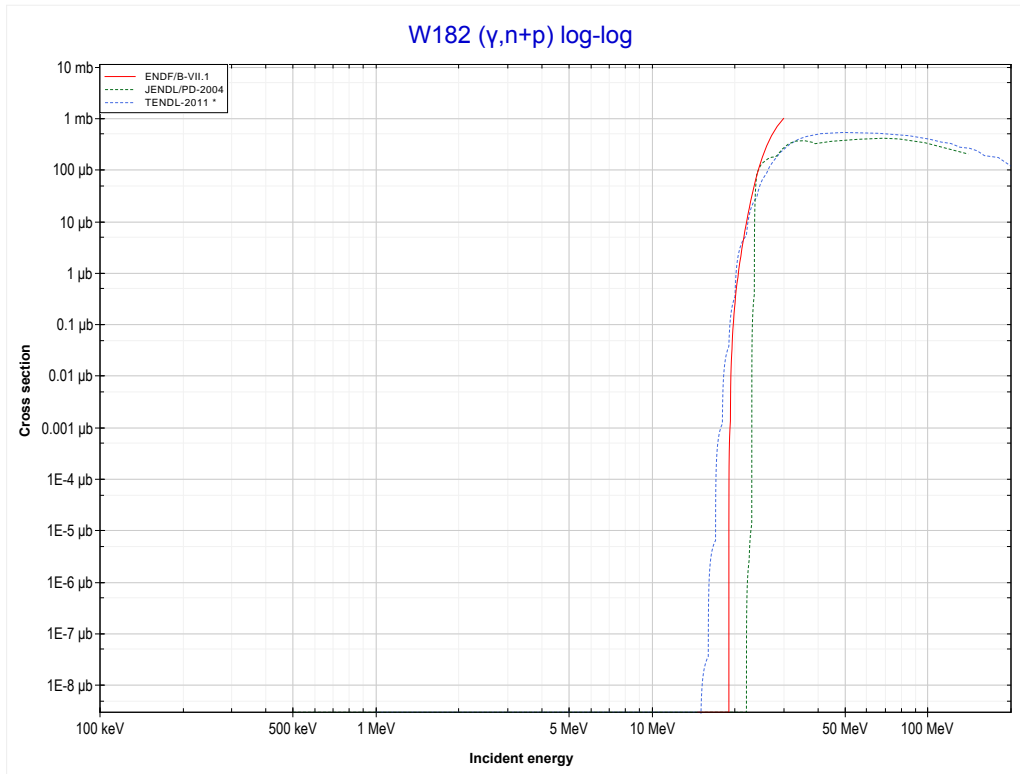
Reaction	Q-Value
Ta181(γ, t)Hf178	-10947.11 keV
Ta181($\gamma, n+d$)Hf178	-17204.34 keV
Ta181($\gamma, 2n+p$)Hf178	-19428.90 keV

<< 73-Ta-181	74-W-182	74-W-184 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (W181 production)	MT28 ($\gamma,n+p$) >>



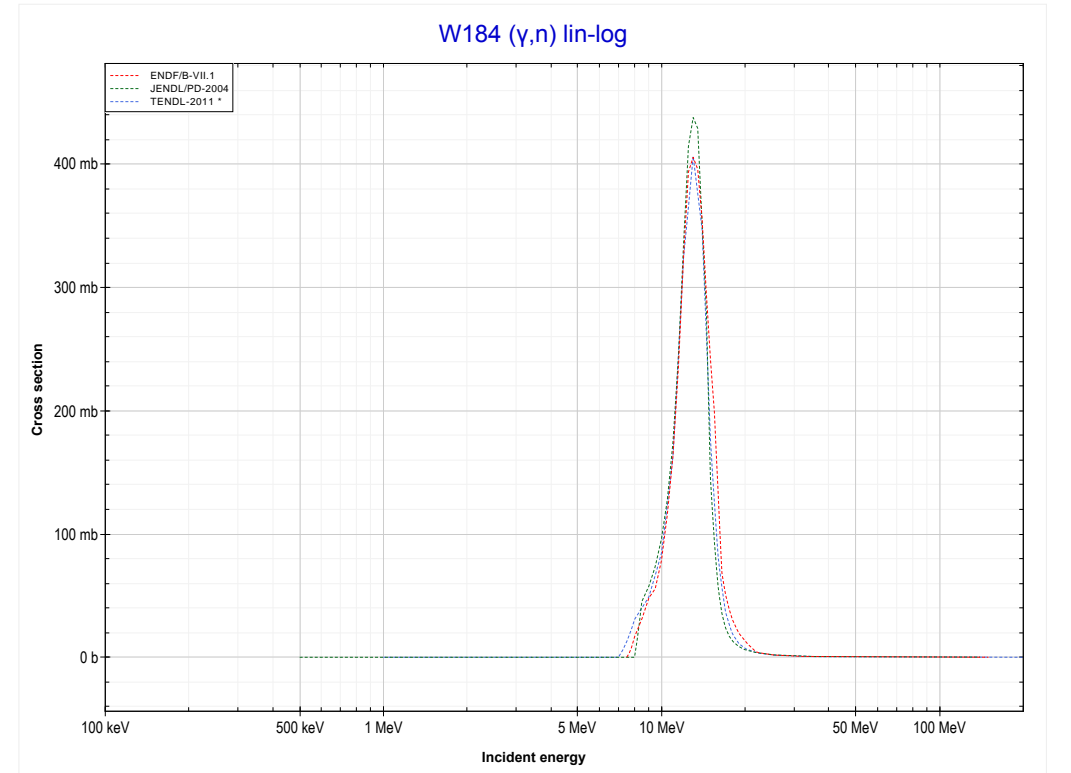
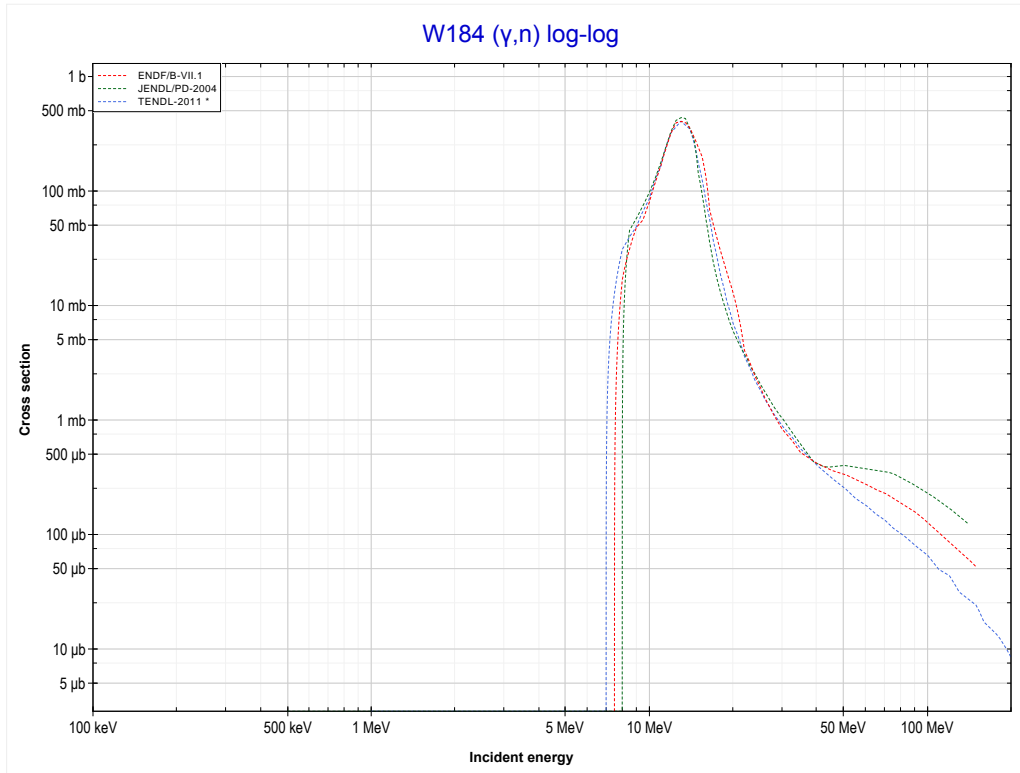
Reaction	Q-Value
W182(γ,n)W181	-8064.82 keV

<< 73-Ta-181	74-W-182	74-W-184 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (Ta180 production)	MT4 (γ,n) >>



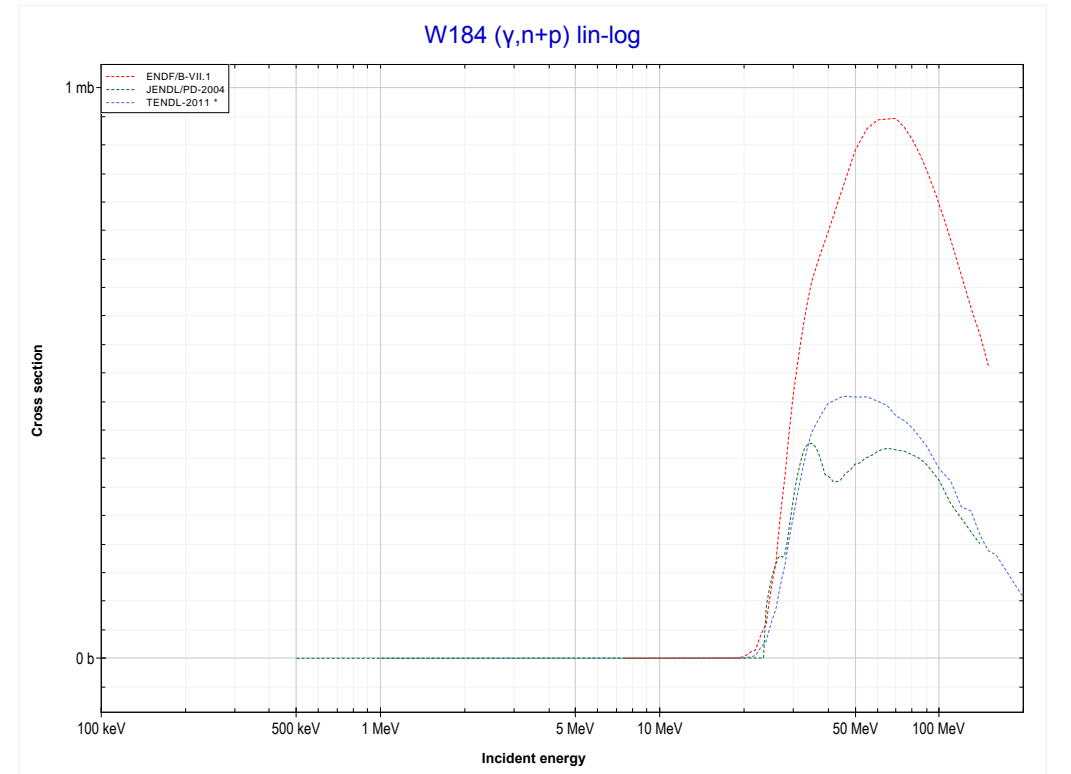
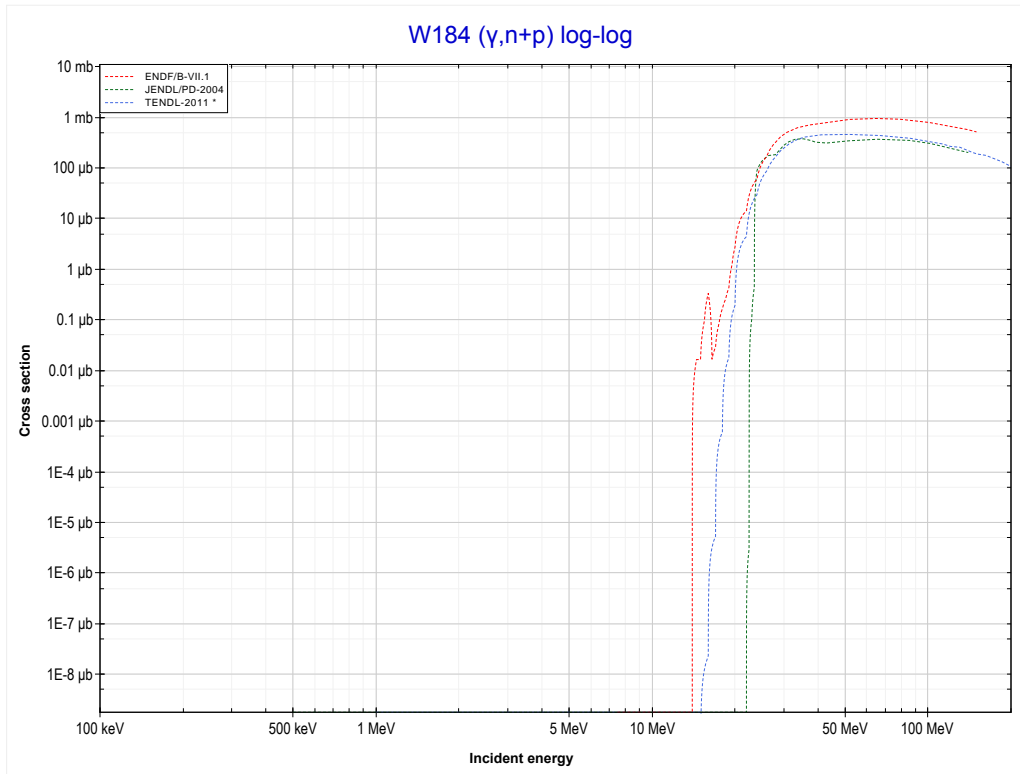
Reaction	Q-Value
W182(γ,d)Ta180	-12447.02 keV
W182($\gamma,n+p$)Ta180	-14671.59 keV

<< 74-W-182	74-W-184	74-W-186 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (W183 production)	MT28 ($\gamma, n+p$) >>



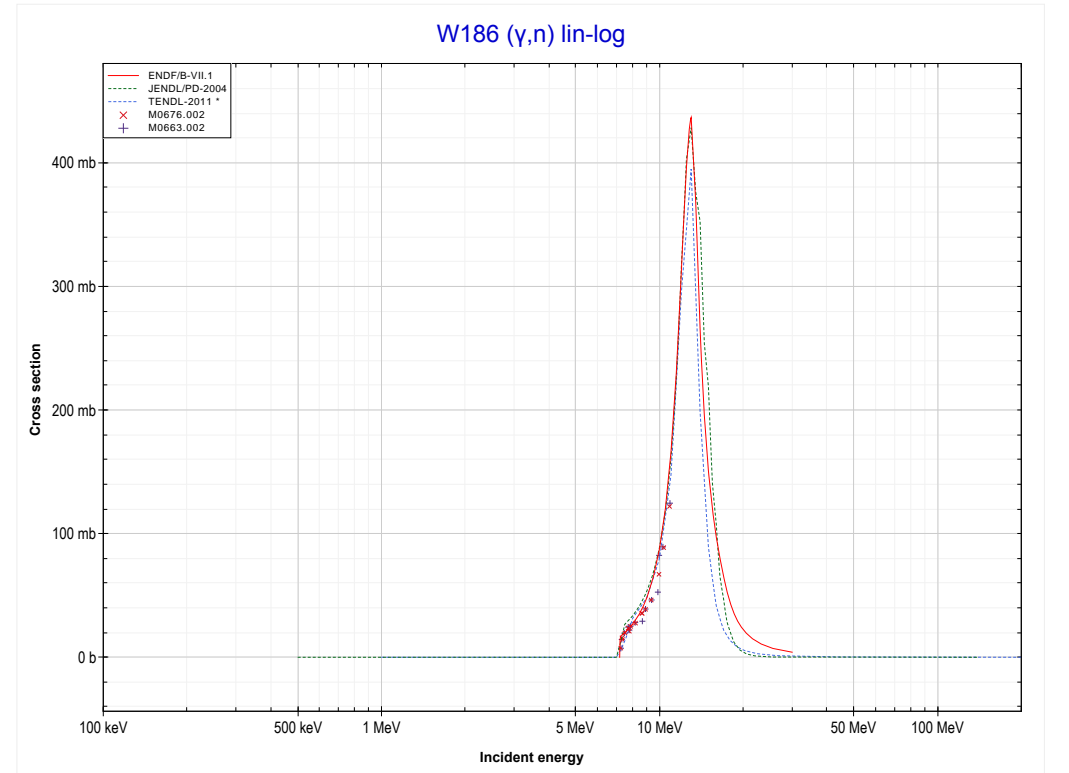
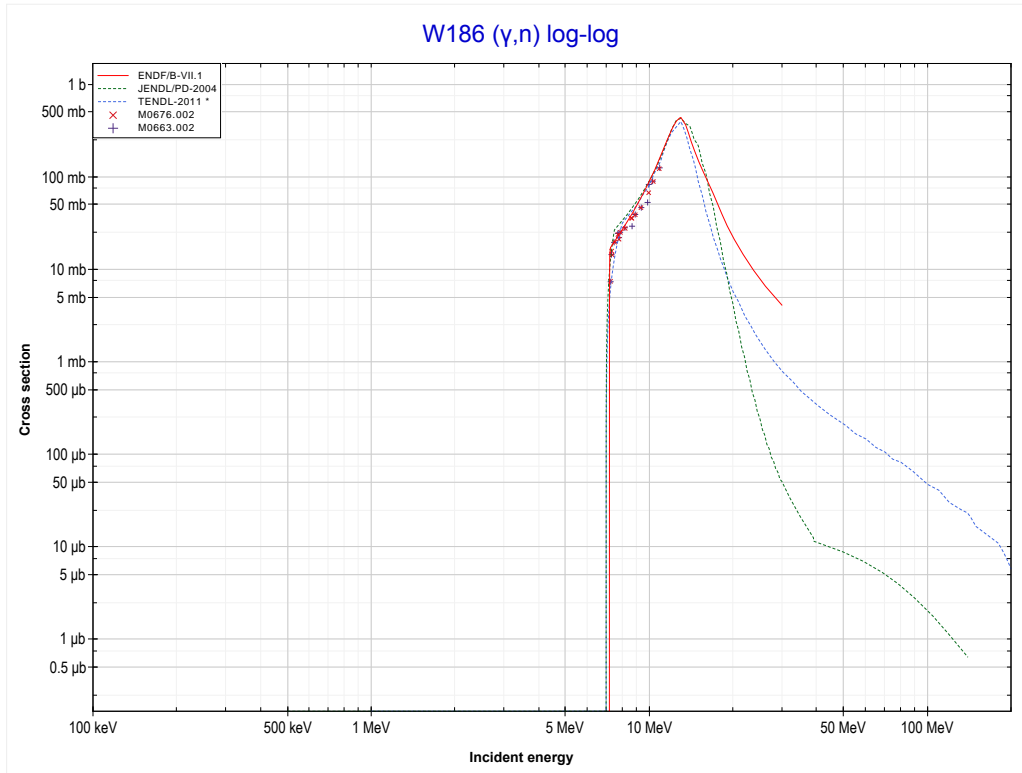
Reaction	Q-Value
W184(γ, n)W183	-7411.62 keV

<< 74-W-182	74-W-184	74-W-186 >>
<< MT4 (γ,n)	MT28 ($\gamma,n+p$) or MT5 (Ta182 production)	MT4 (γ,n) >>



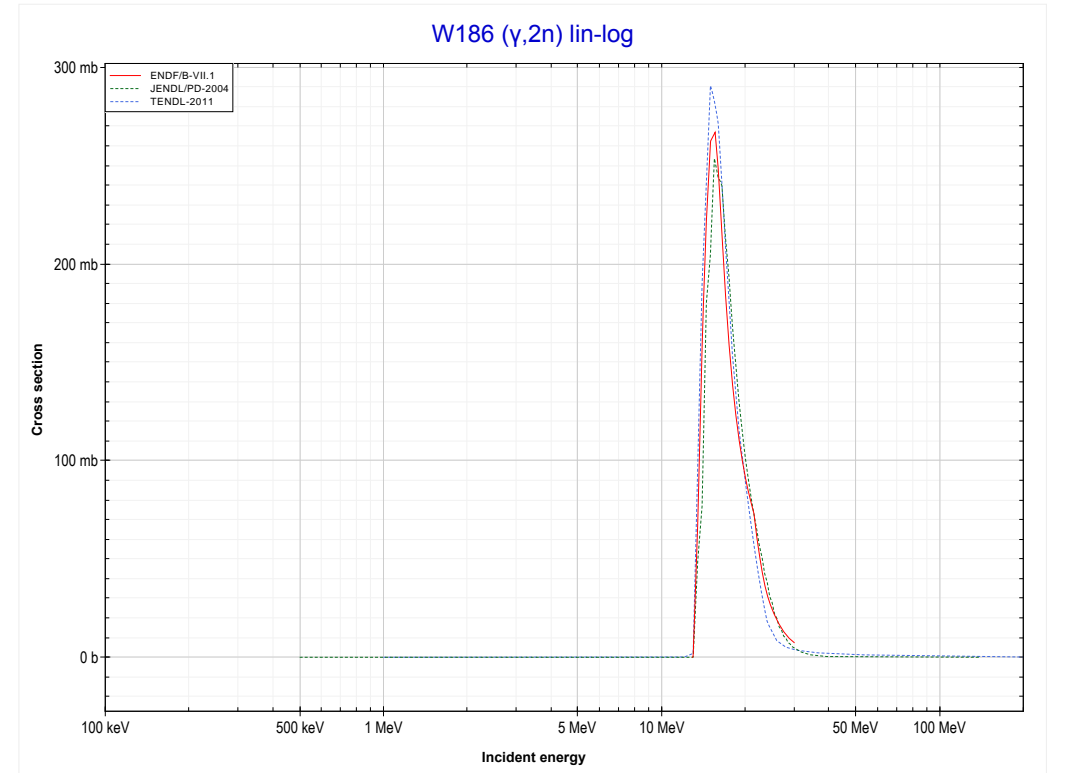
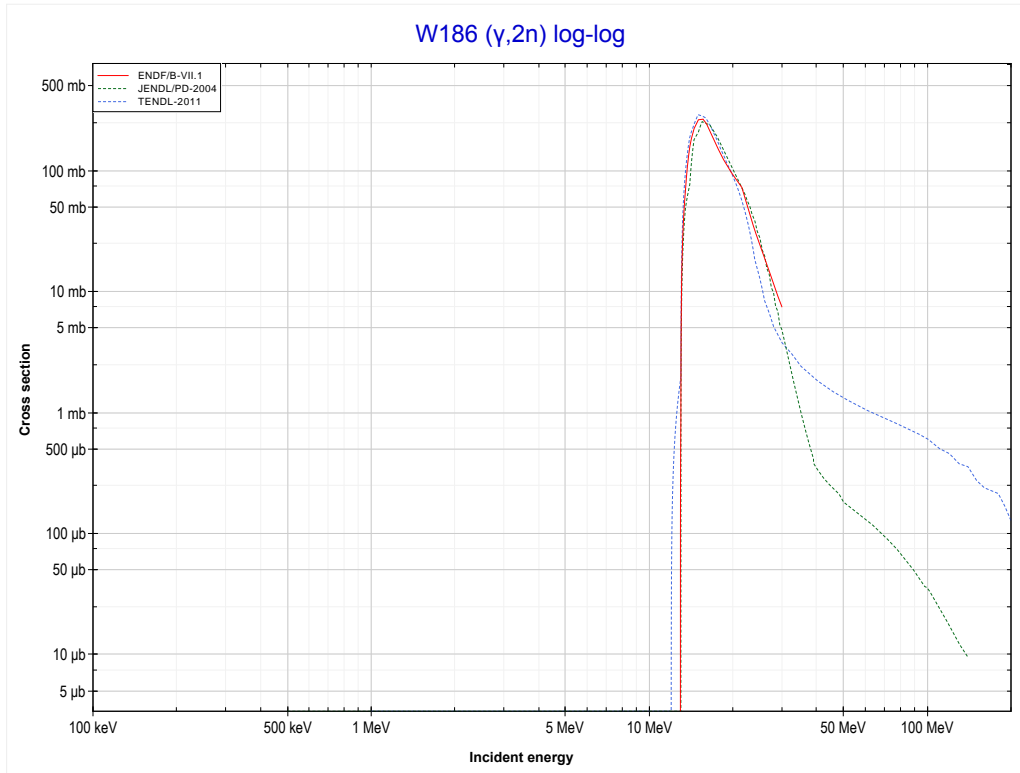
Reaction	Q-Value
W184(γ,d)Ta182	-12409.72 keV
W184($\gamma,n+p$)Ta182	-14634.29 keV

<< 74-W-184	74-W-186	75-Re-187 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (W185 production)	MT16 ($\gamma, 2n$) >>



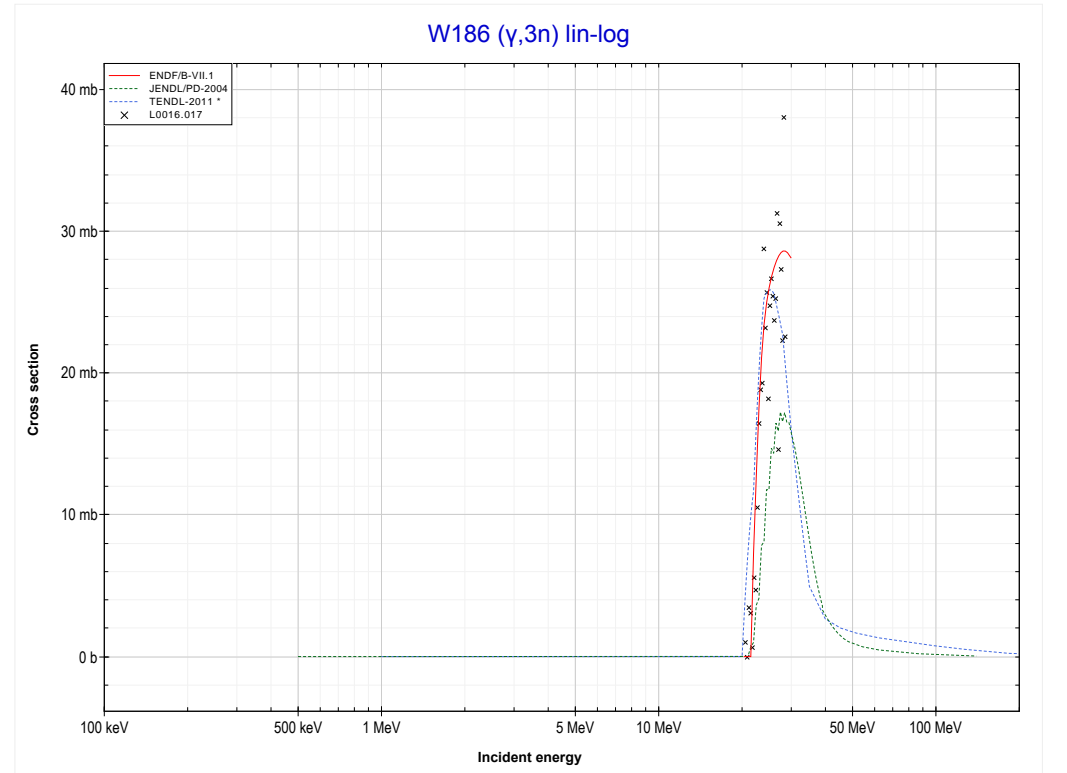
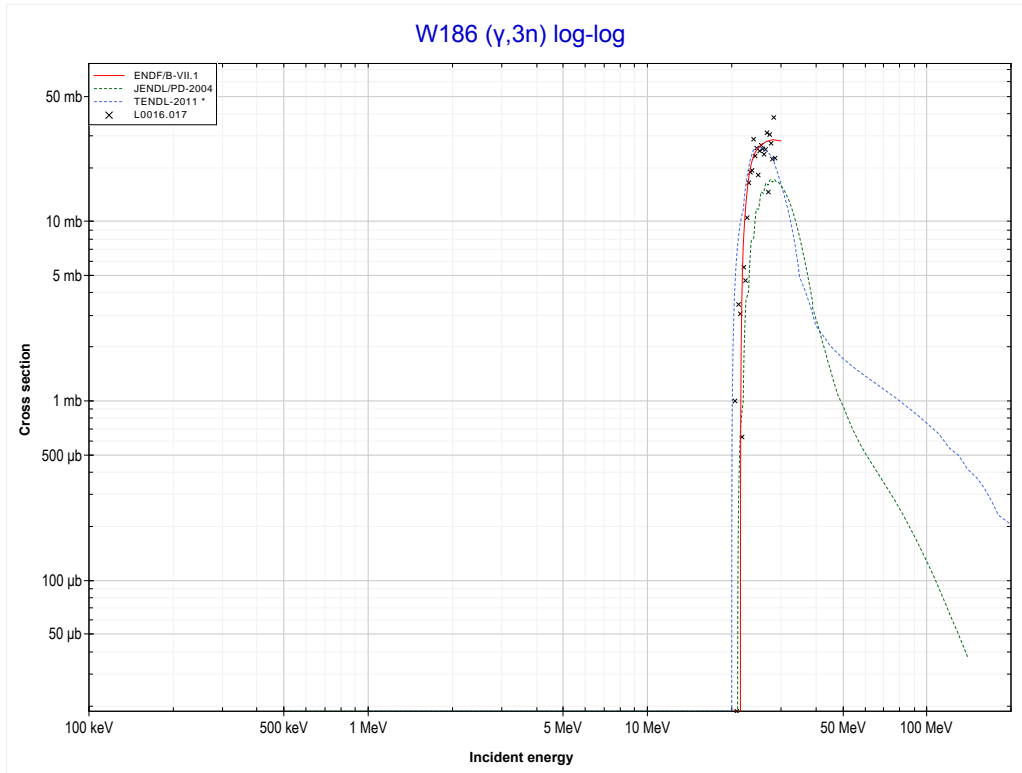
Reaction	Q-Value
W186(γ, n)W185	-7191.12 keV

<< 73-Ta-181	74-W-186	76-Os-186 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (W184 production)	MT17 ($\gamma, 3n$) >>



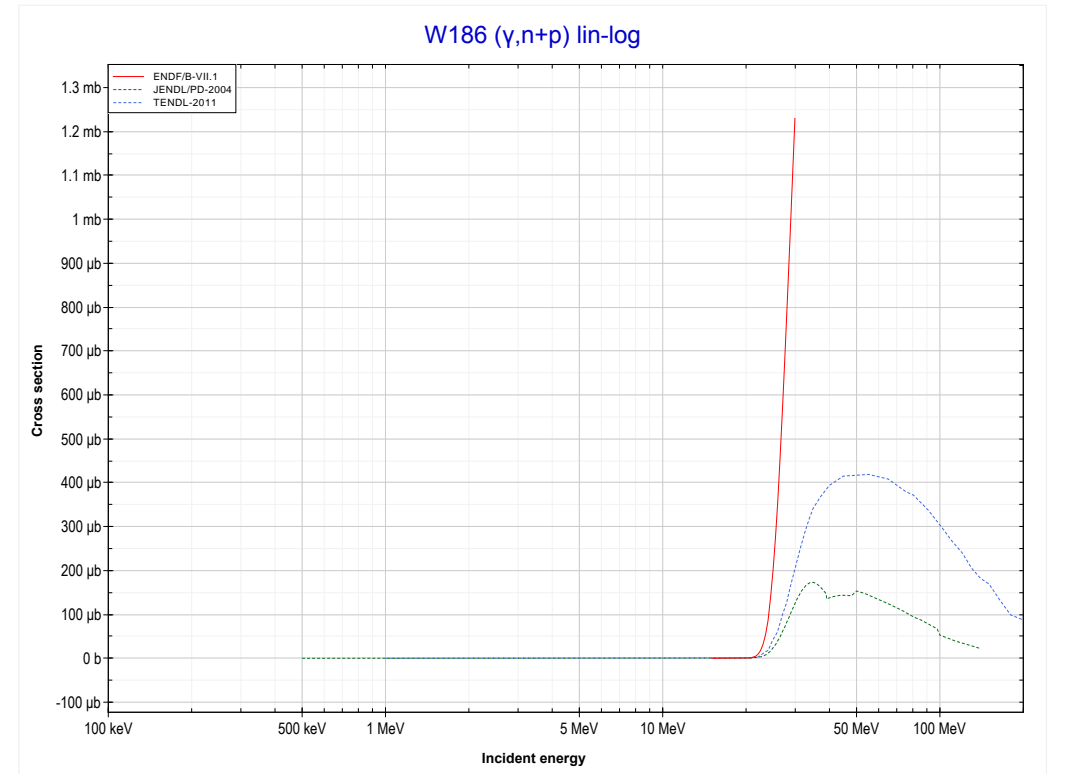
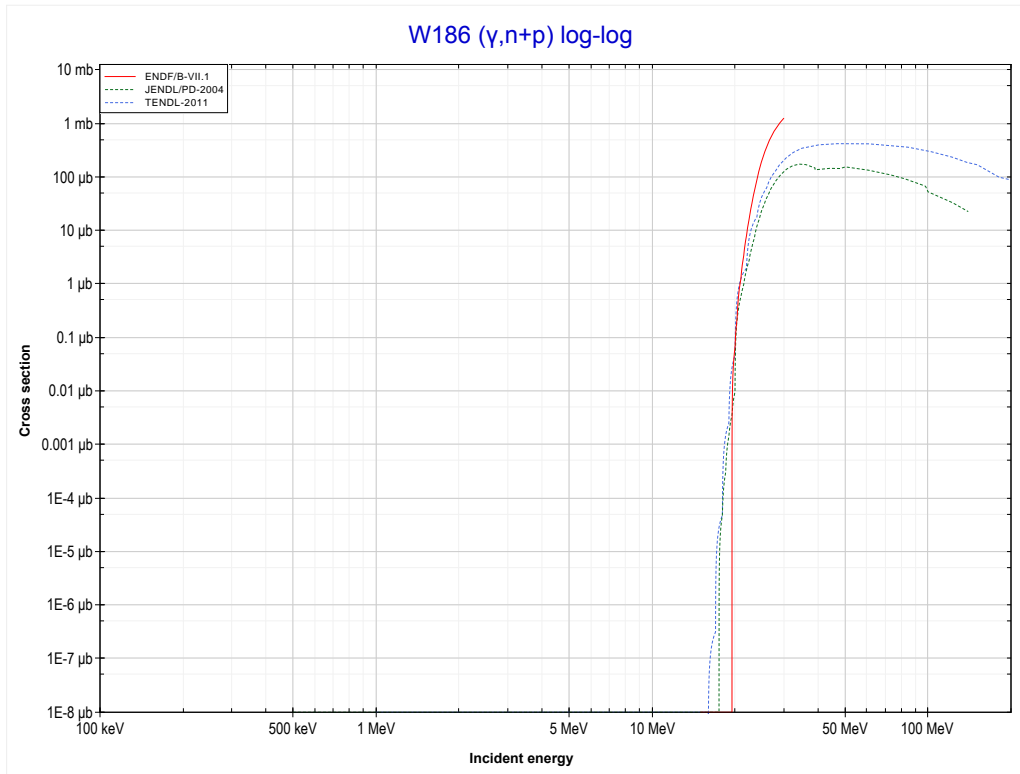
Reaction	Q-Value
W186($\gamma, 2n$)W184	-12944.83 keV

<< 73-Ta-181	74-W-186	76-Os-188 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (W183 production)	MT28 ($\gamma,n+p$) >>



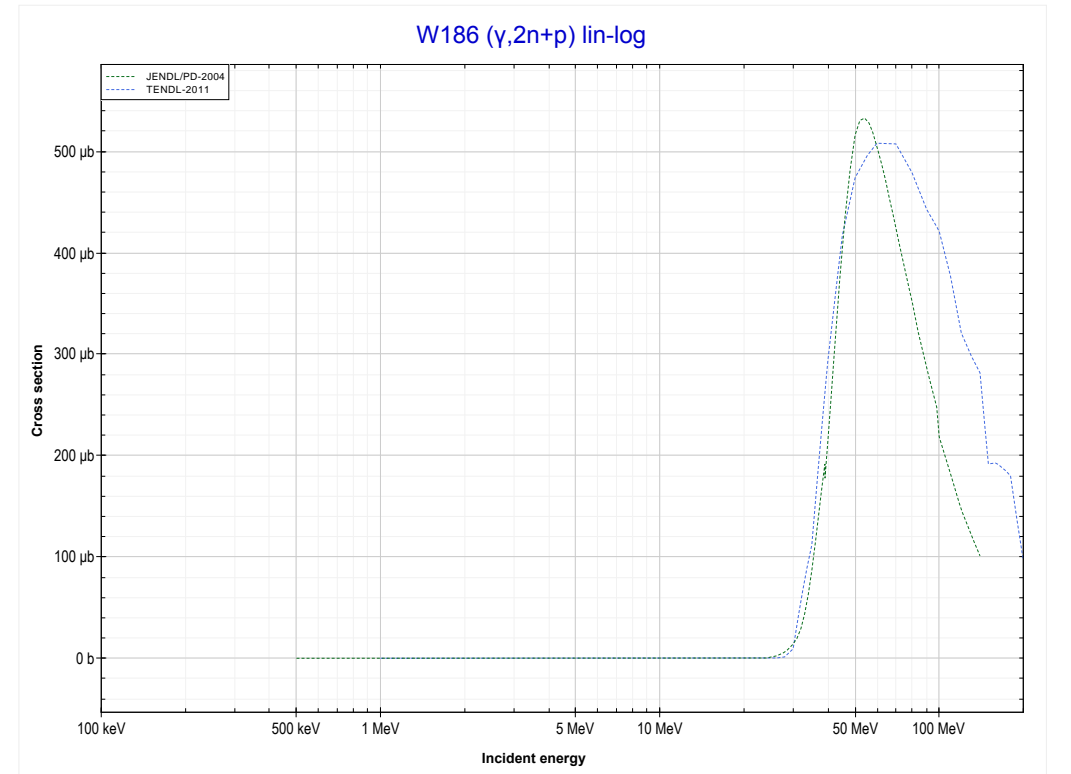
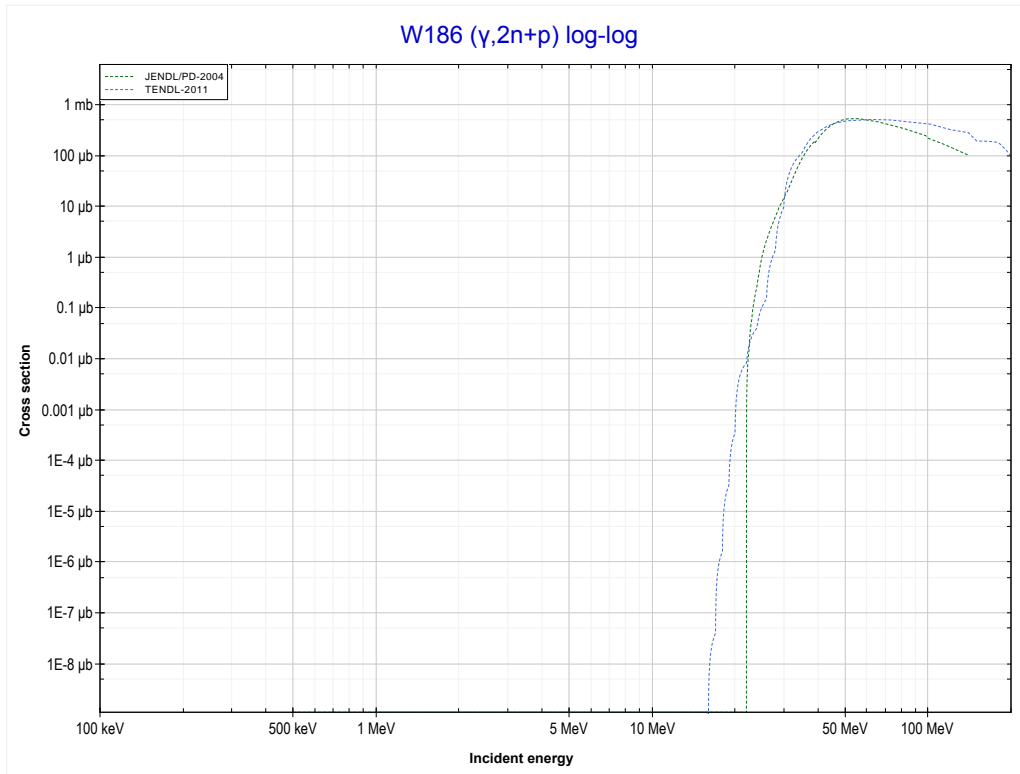
Reaction	Q-Value
W186($\gamma,3n$)W183	-20356.45 keV

<< 74-W-184	74-W-186	76-Os-186 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Ta184 production)	MT41 ($\gamma,2n+p$) >>



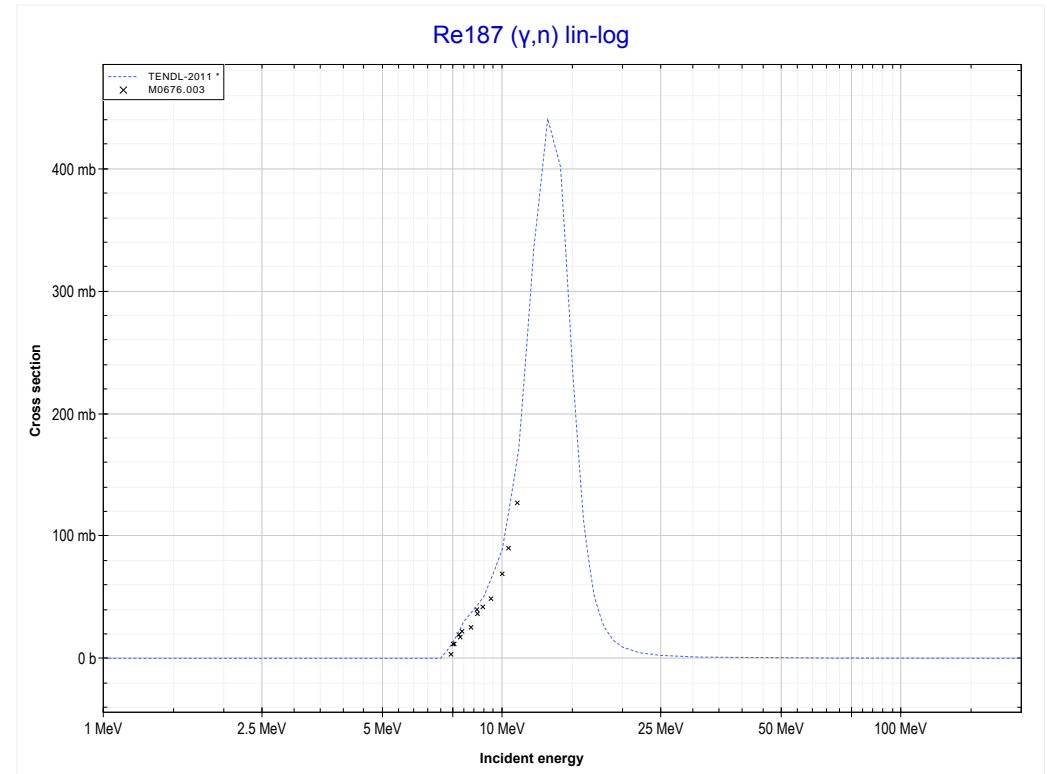
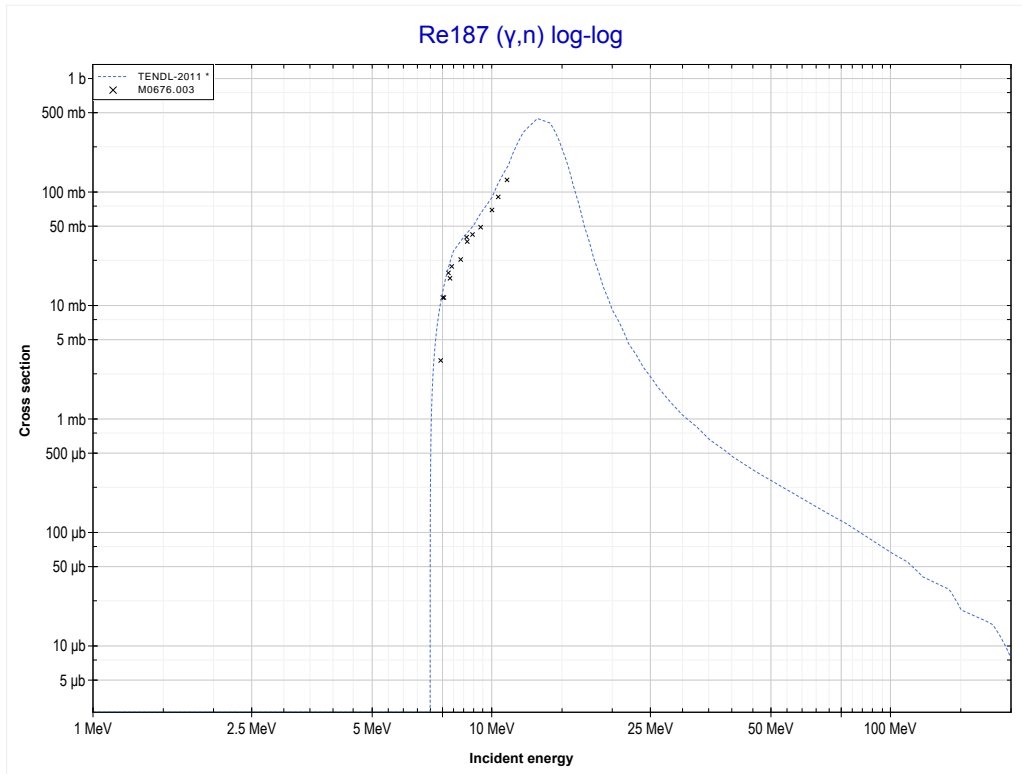
Reaction	Q-Value
W186(γ,d)Ta184	-12804.22 keV
W186($\gamma,n+p$)Ta184	-15028.79 keV

<< 73-Ta-181	74-W-186	76-Os-188 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Ta183 production)	MT4 (γ, n) >>



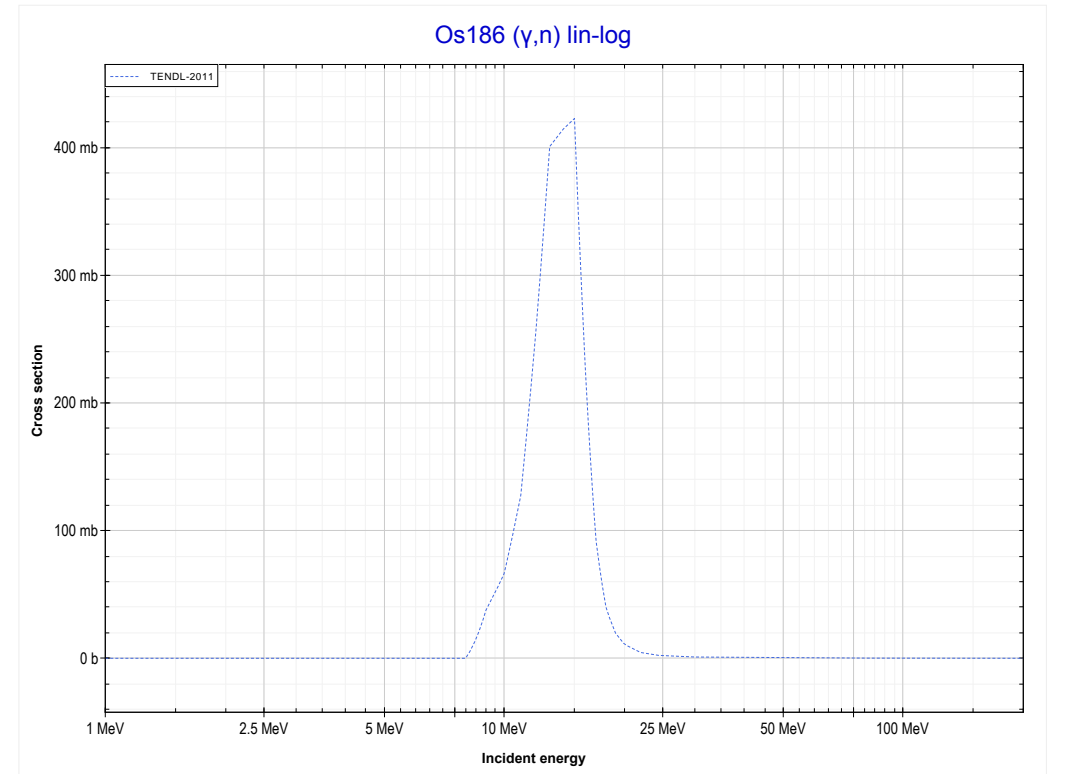
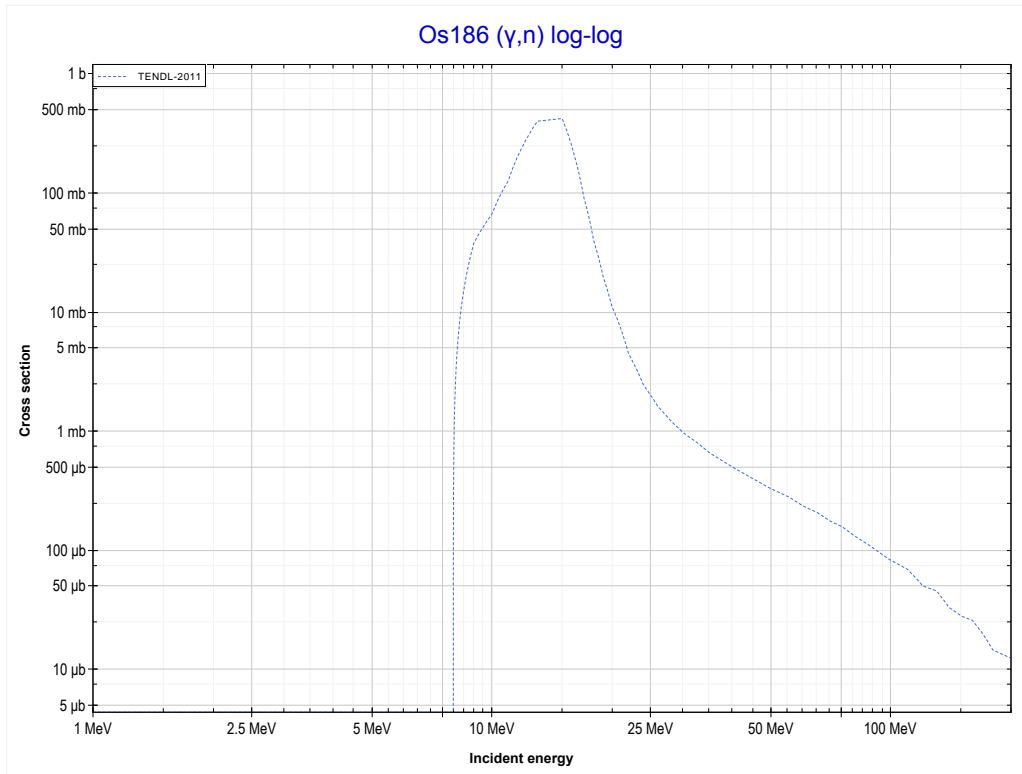
Reaction	Q-Value
W186(γ, t)Ta183	-12163.21 keV
W186($\gamma, n+d$)Ta183	-18420.44 keV
W186($\gamma, 2n+p$)Ta183	-20645.00 keV

<< 74-W-186	75-Re-187	76-Os-186 >>
<< MT41 ($\gamma, 2n+p$)	MT4 (γ, n) or MT5 (Re186 production)	MT4 (γ, n) >>



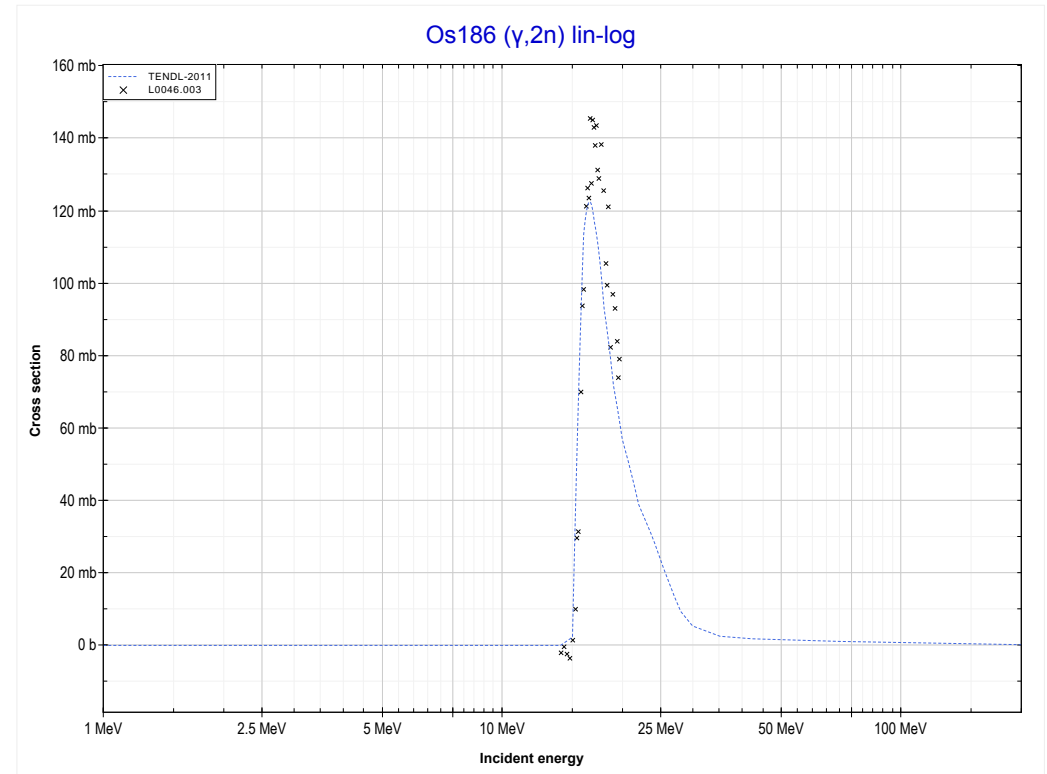
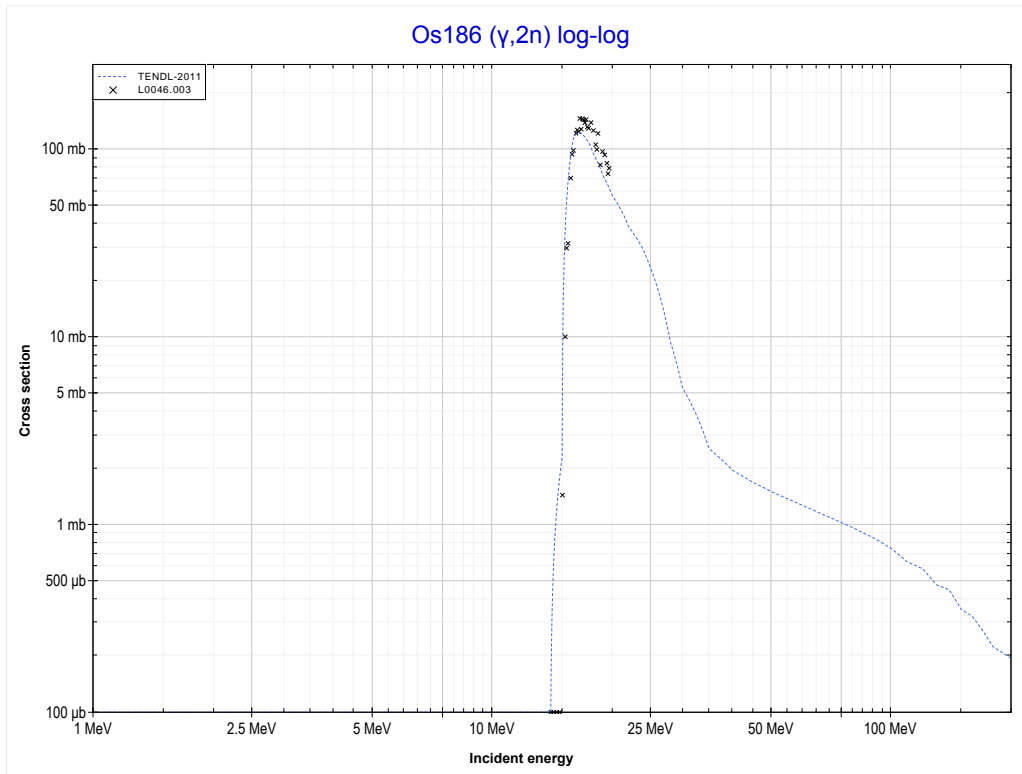
Reaction	Q-Value
Re187(γ, n)Re186	-7356.82 keV

<< 75-Re-187	76-Os-186	76-Os-188 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Os185 production)	MT16 ($\gamma,2n$) >>



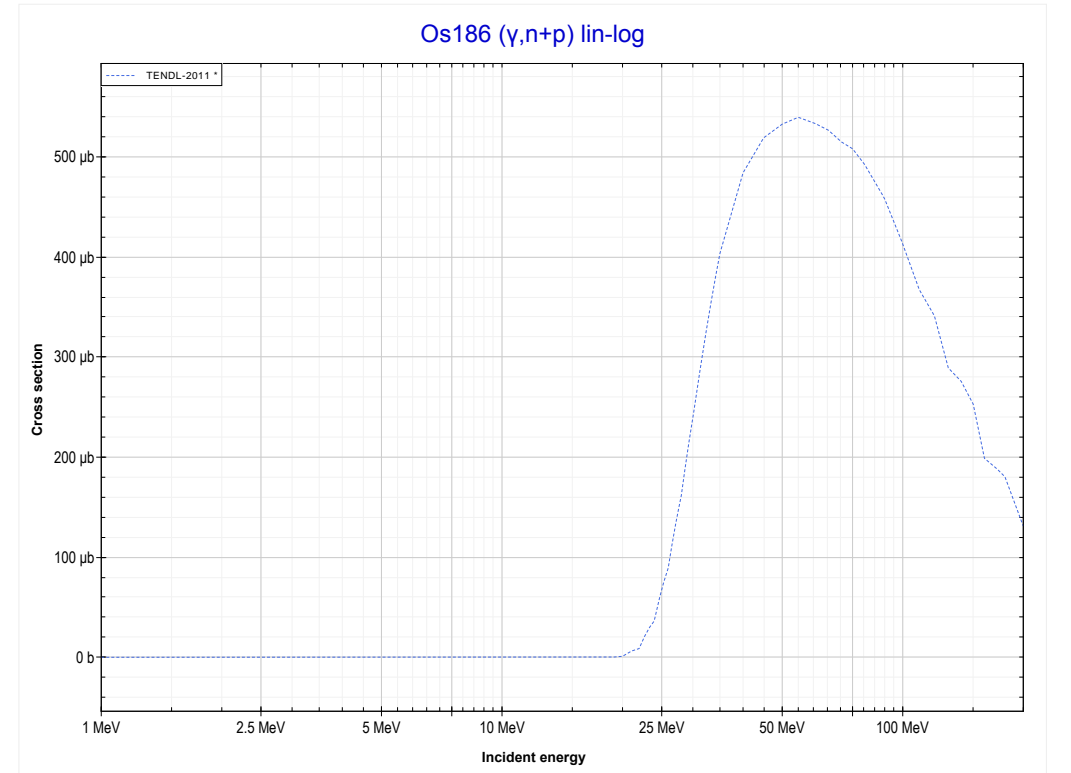
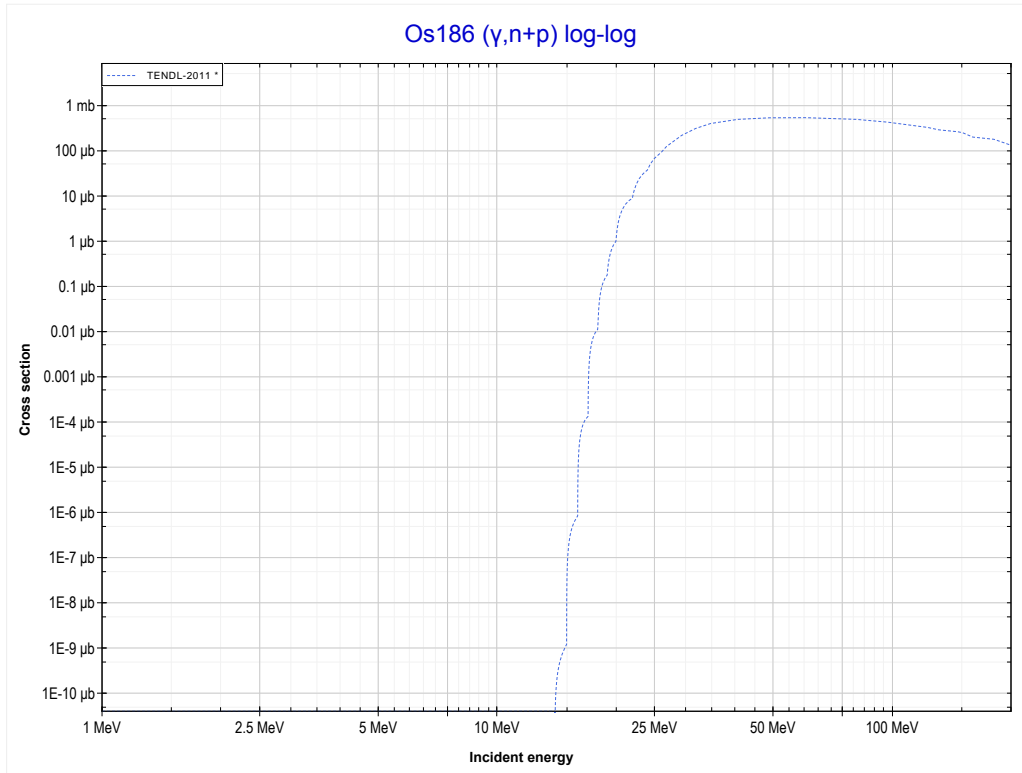
Reaction	Q-Value
Os186(γ,n)Os185	-8261.42 keV

<< 74-W-186	76-Os-186	76-Os-188 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Os184 production)	MT28 ($\gamma,n+p$) >>



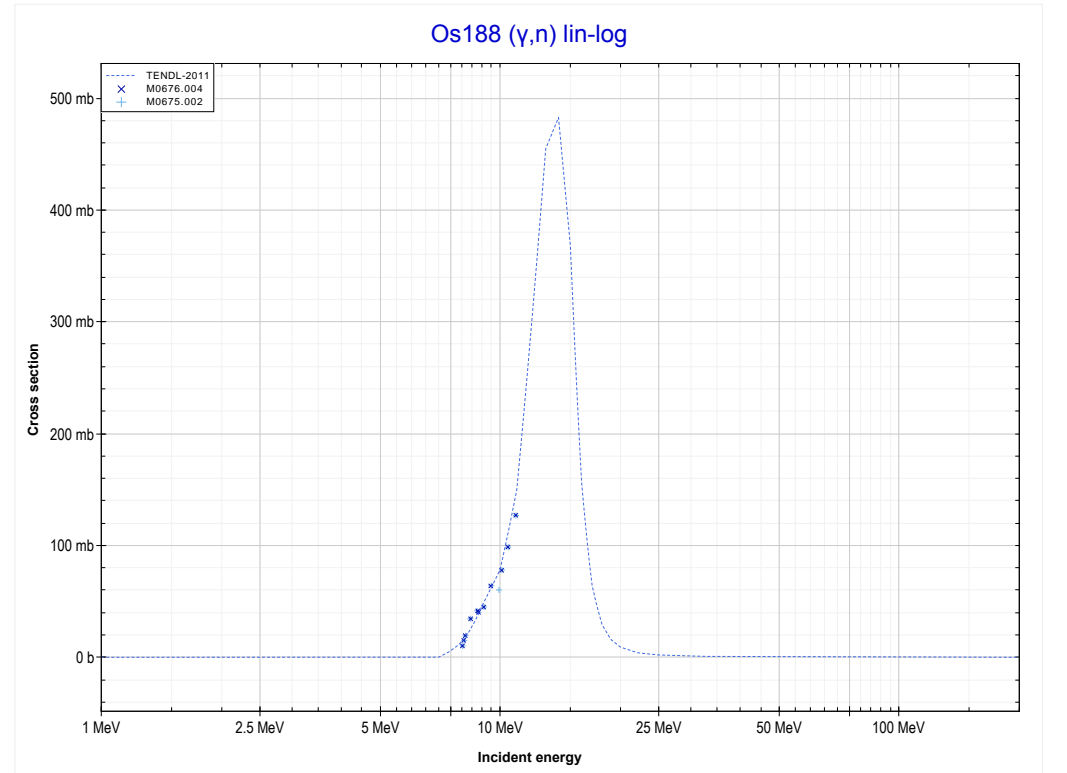
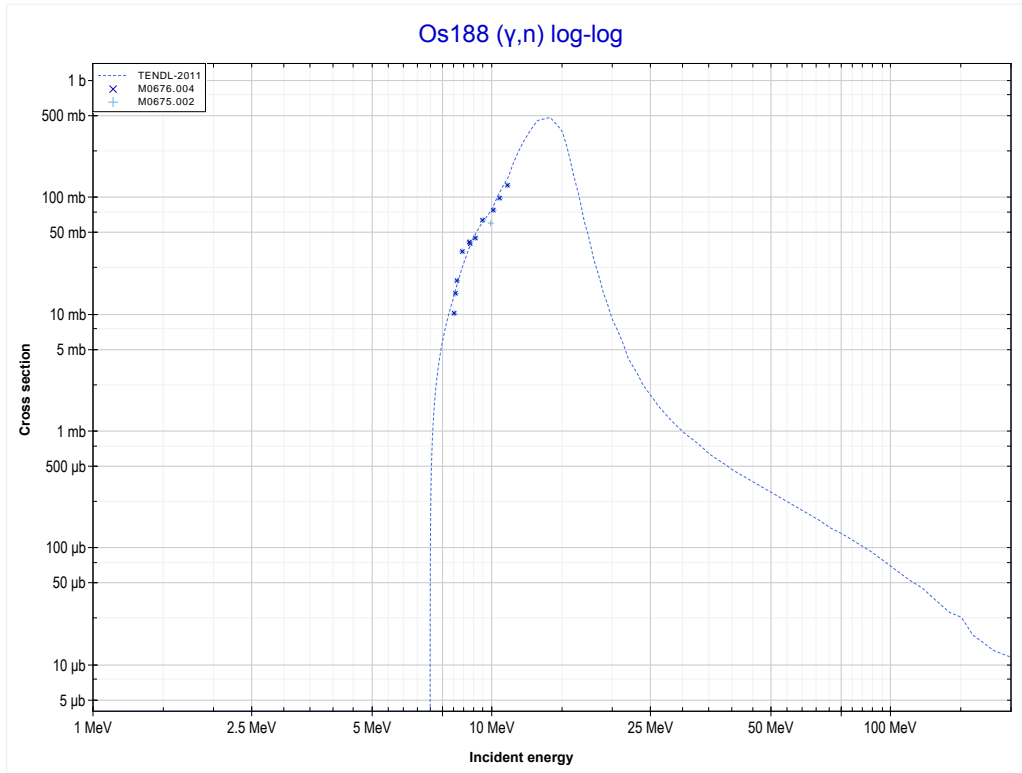
Reaction	Q-Value
Os186($\gamma,2n$)Os184	-14886.03 keV

<< 74-W-186	76-Os-186	76-Os-188 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Re184 production)	MT4 (γ,n) >>



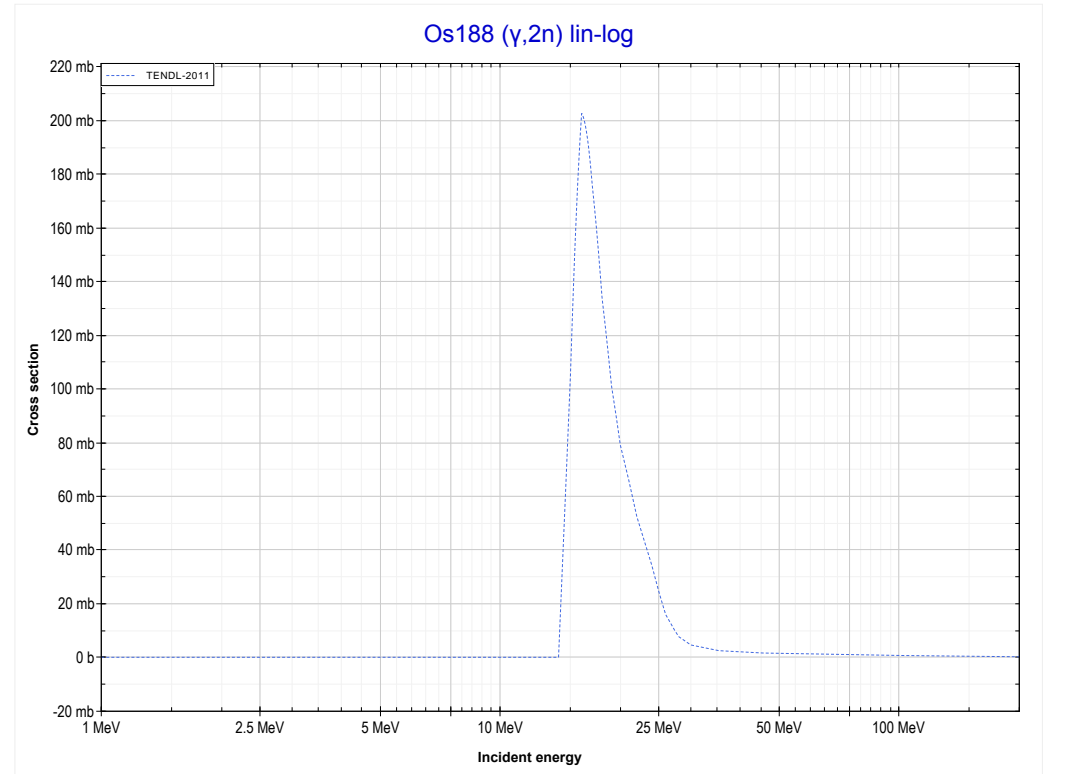
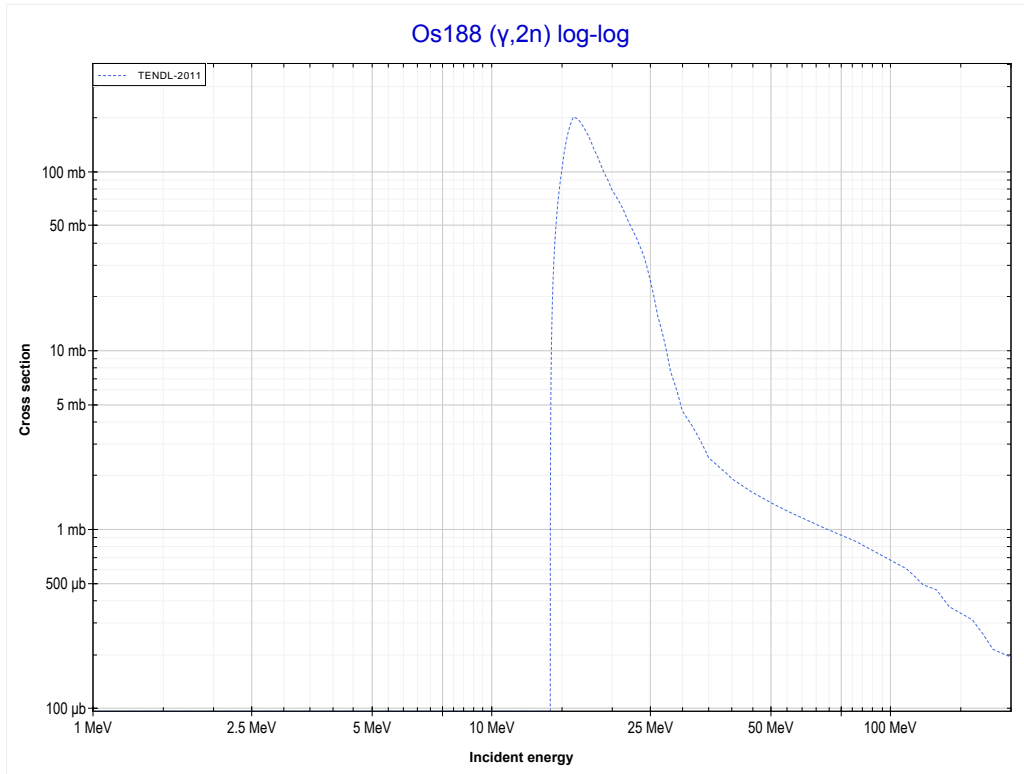
Reaction	Q-Value
Os186(γ,d)Re184	-11908.22 keV
Os186($\gamma,n+p$)Re184	-14132.79 keV

<< 76-Os-186	76-Os-188	76-Os-189 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Os187 production)	MT16 ($\gamma, 2n$) >>



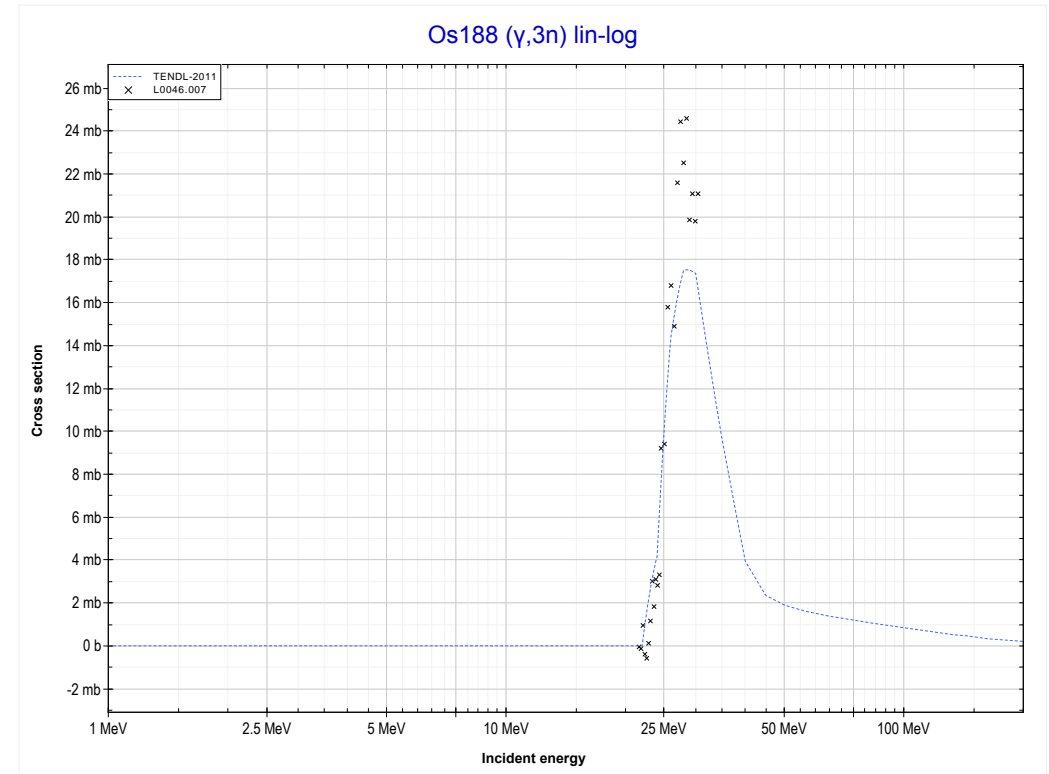
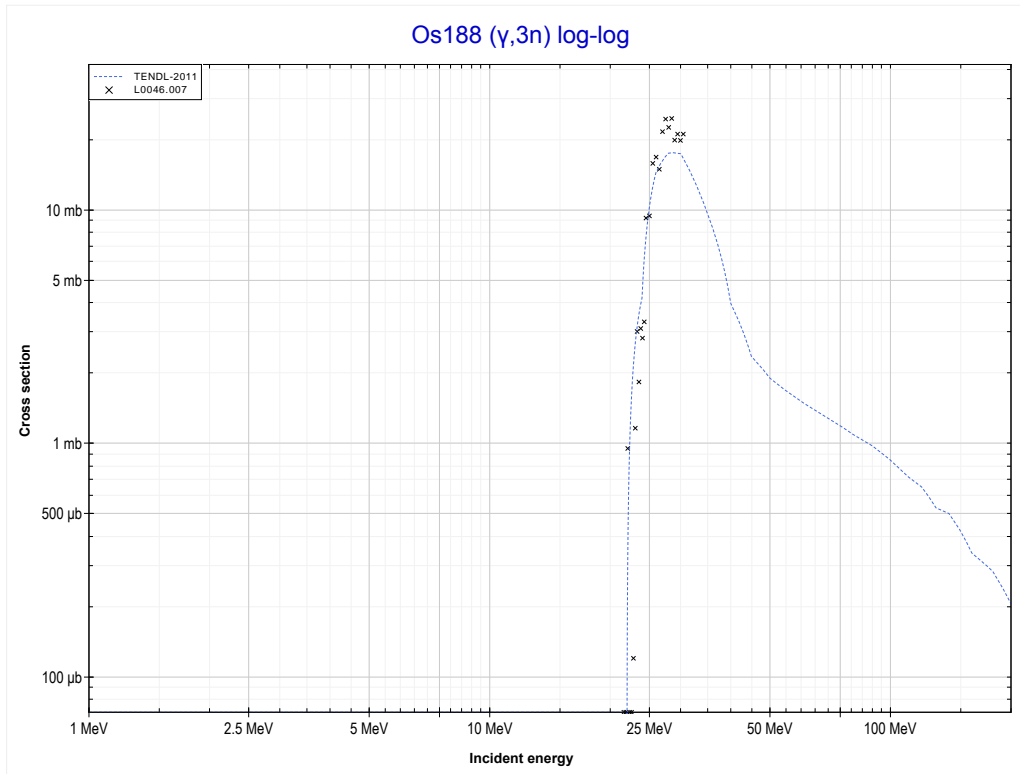
Reaction	Q-Value
Os188(γ, n)Os187	-7989.52 keV

<< 76-Os-186	76-Os-188	76-Os-189 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Os186 production)	MT17 ($\gamma, 3n$) >>



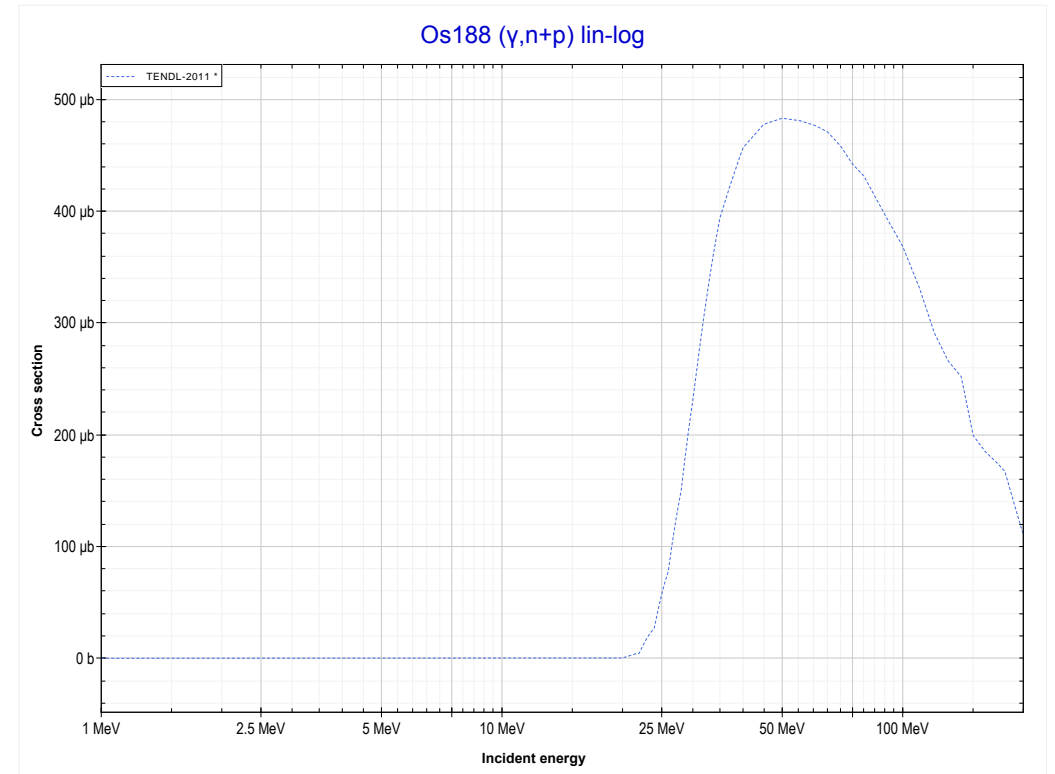
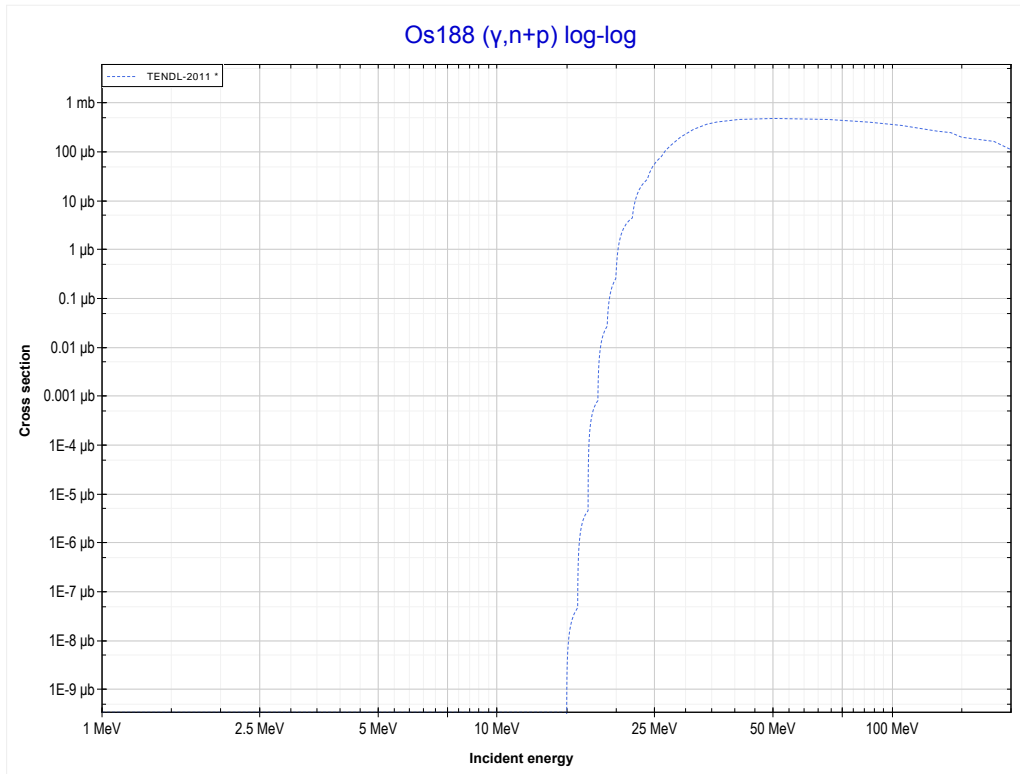
Reaction	Q-Value
Os188($\gamma, 2n$)Os186	-14279.53 keV

<< 74-W-186	76-Os-188	76-Os-189 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Os185 production)	MT28 ($\gamma,n+p$) >>



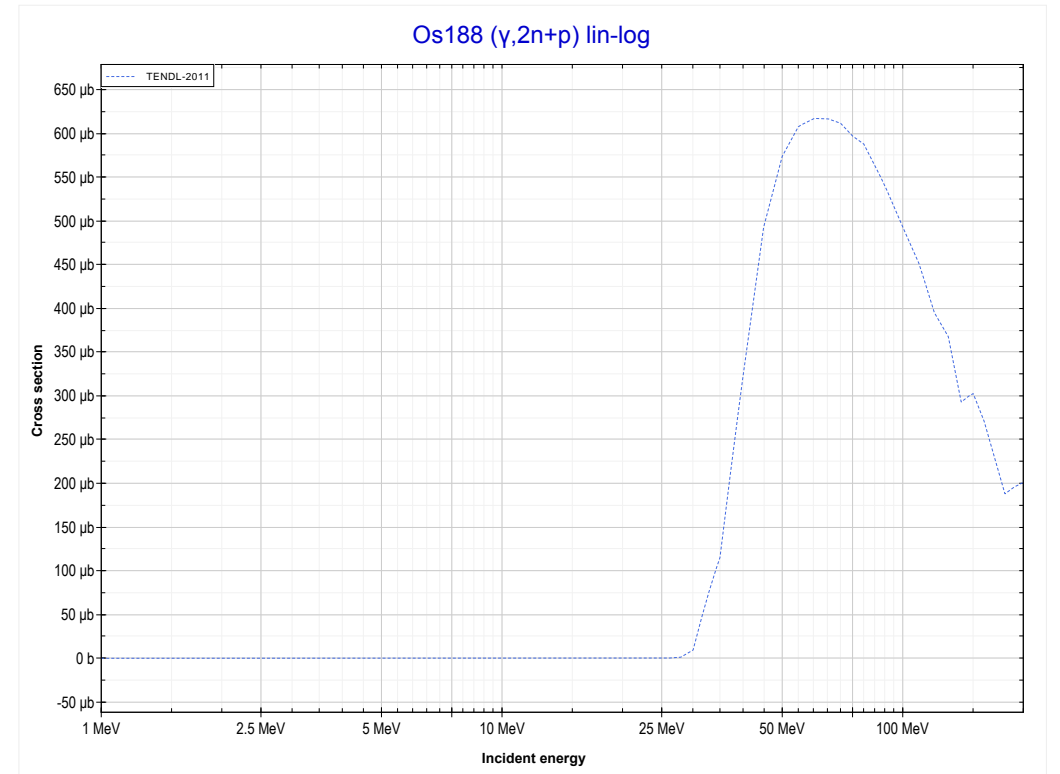
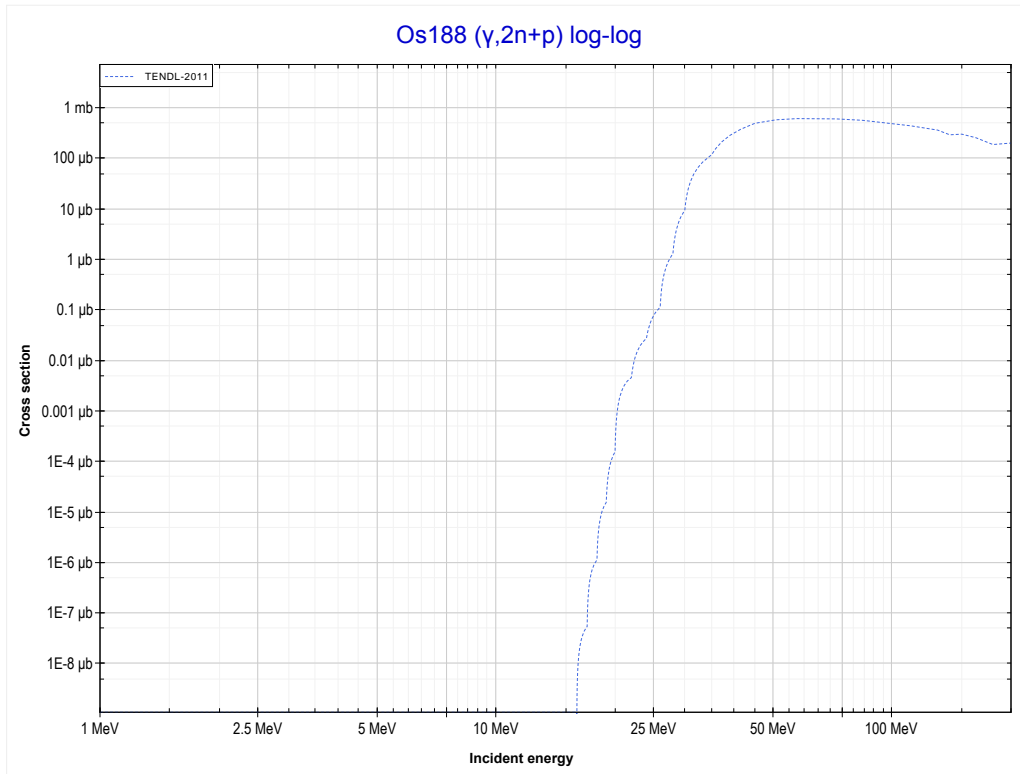
Reaction	Q-Value
Os188($\gamma,3n$)Os185	-22540.95 keV

<< 76-Os-186	76-Os-188	76-Os-189 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Re186 production)	MT41 ($\gamma,2n+p$) >>



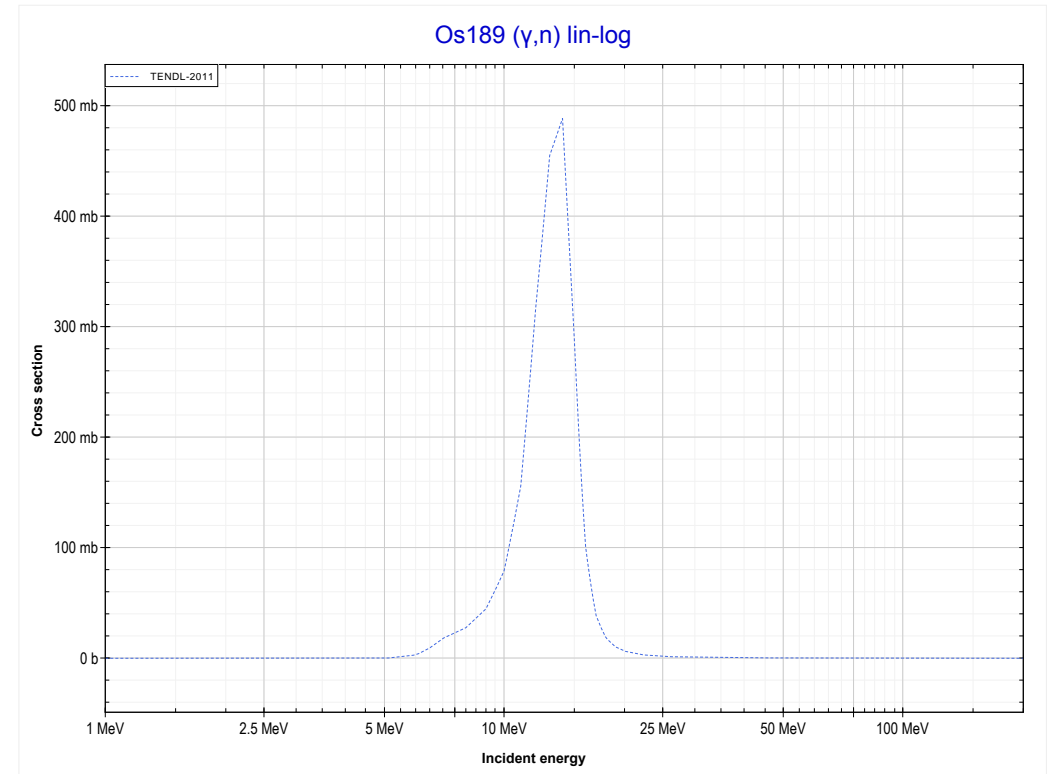
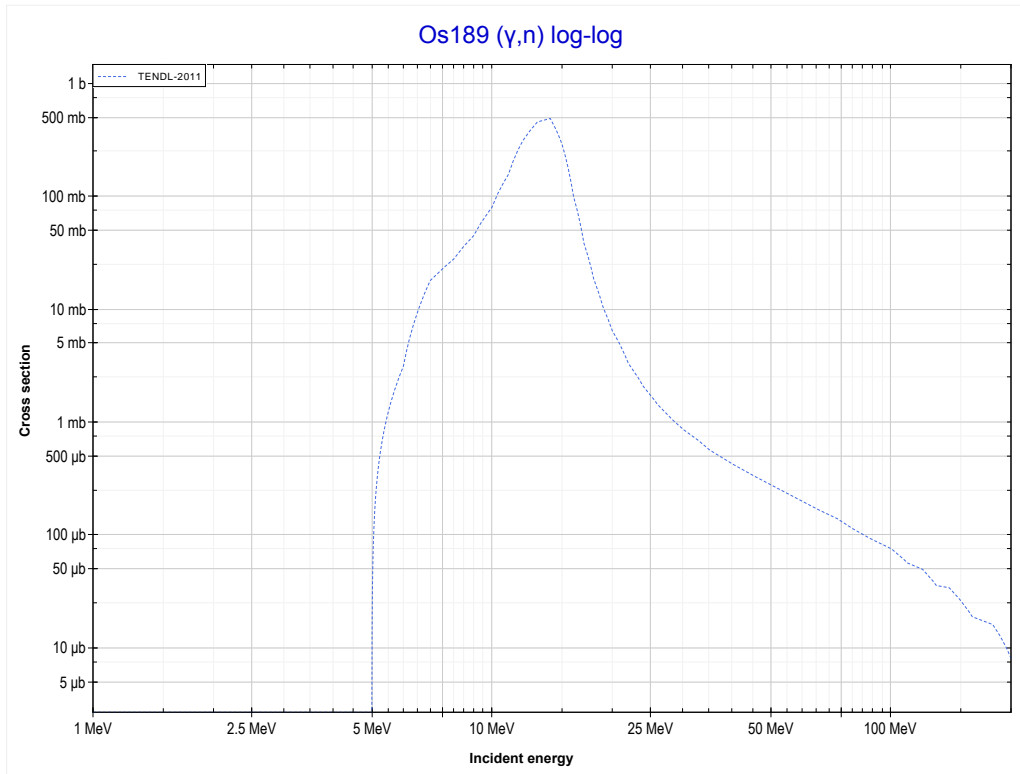
Reaction	Q-Value
Os188(γ,d)Re186	-12341.92 keV
Os188($\gamma,n+p$)Re186	-14566.49 keV

<< 74-W-186	76-Os-188	76-Os-189 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Re185 production)	MT4 (γ, n) >>



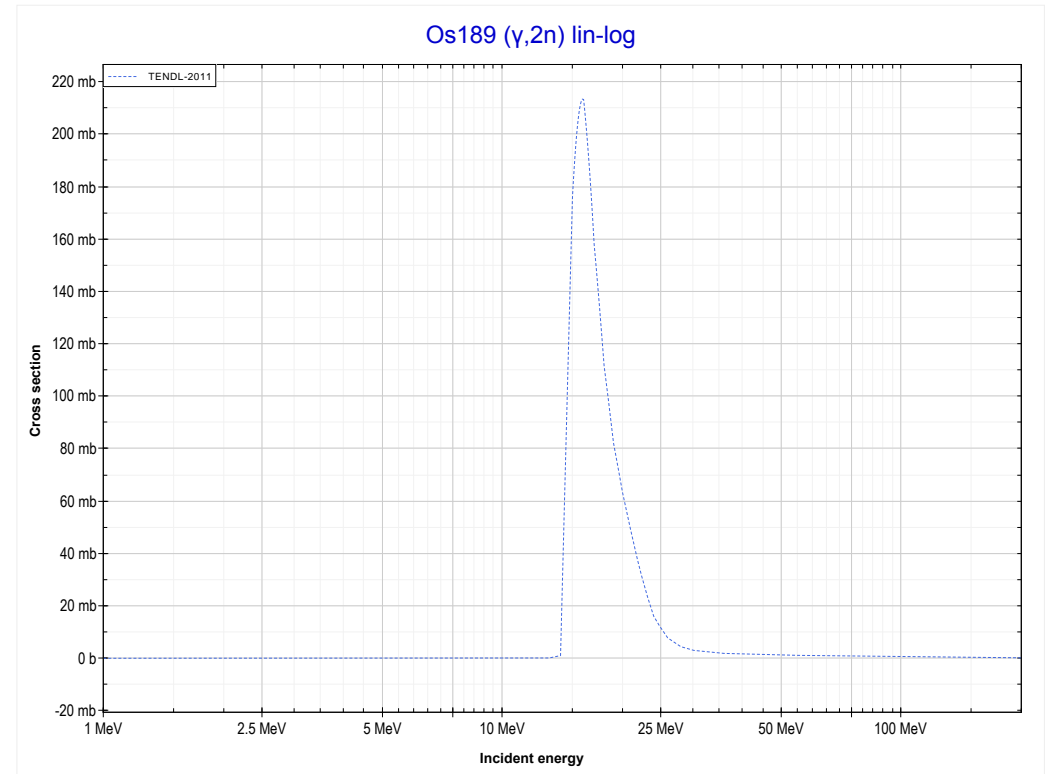
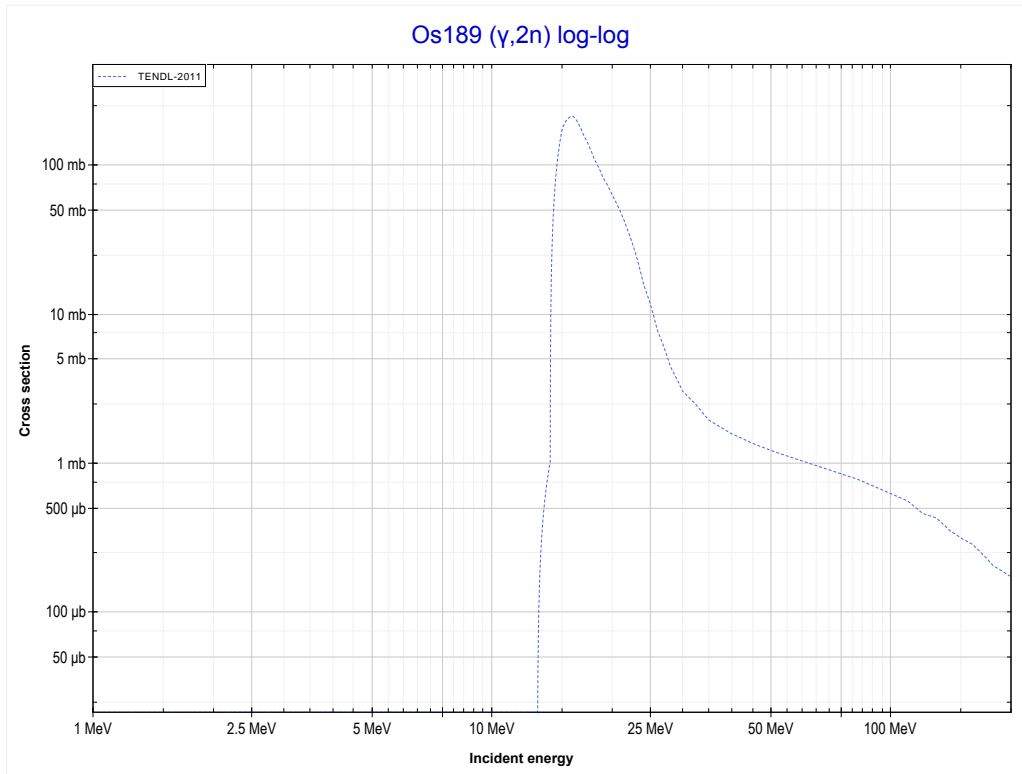
Reaction	Q-Value
Os188(γ, t)Re185	-12264.01 keV
Os188($\gamma, n+d$)Re185	-18521.24 keV
Os188($\gamma, 2n+p$)Re185	-20745.80 keV

<< 76-Os-188	76-Os-189	76-Os-190 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Os188 production)	MT16 ($\gamma,2n$) >>



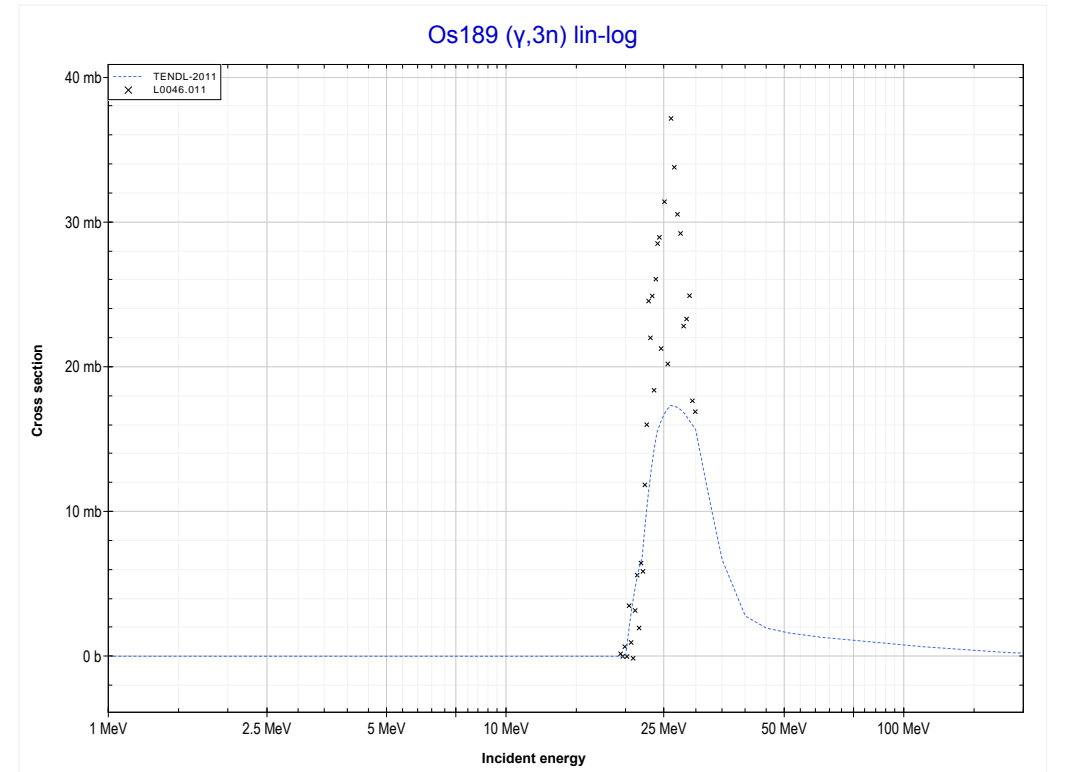
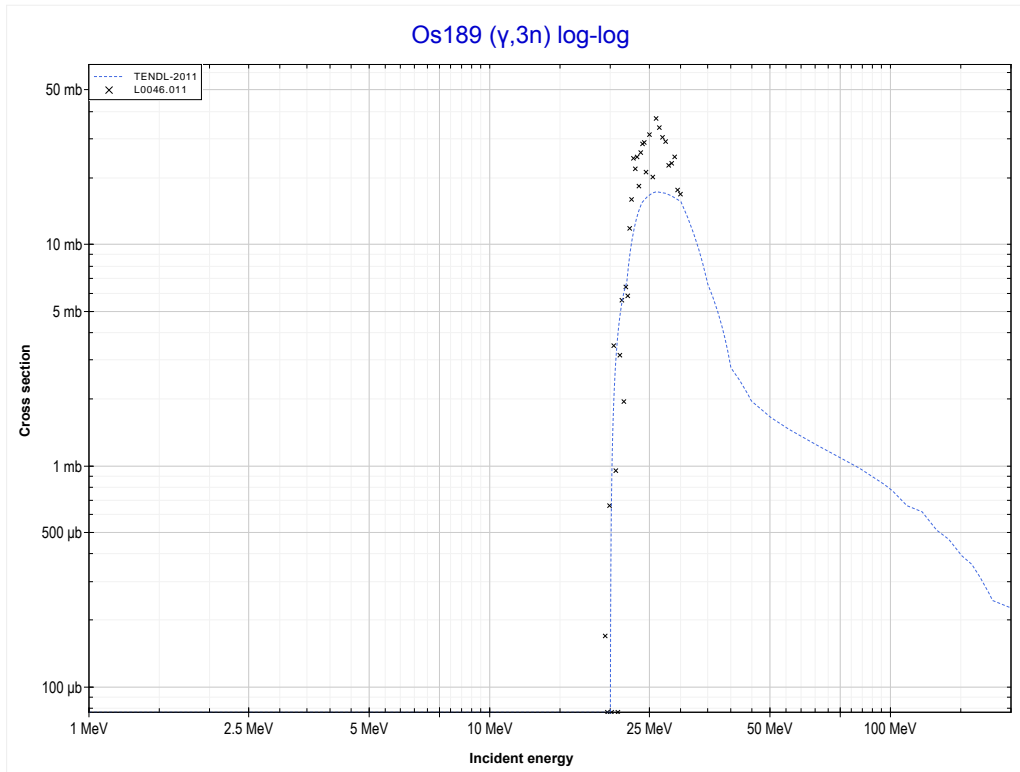
Reaction	Q-Value
Os189(γ,n)Os188	-5920.32 keV

<< 76-Os-188	76-Os-189	76-Os-190 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Os187 production)	MT17 ($\gamma,3n$) >>



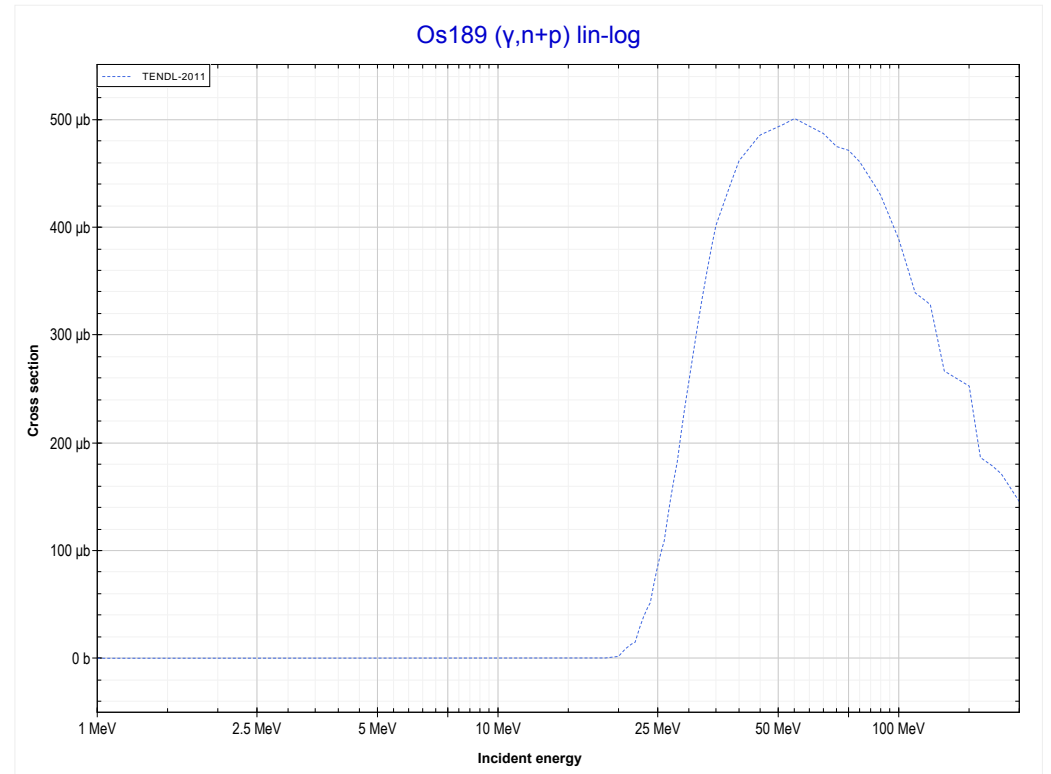
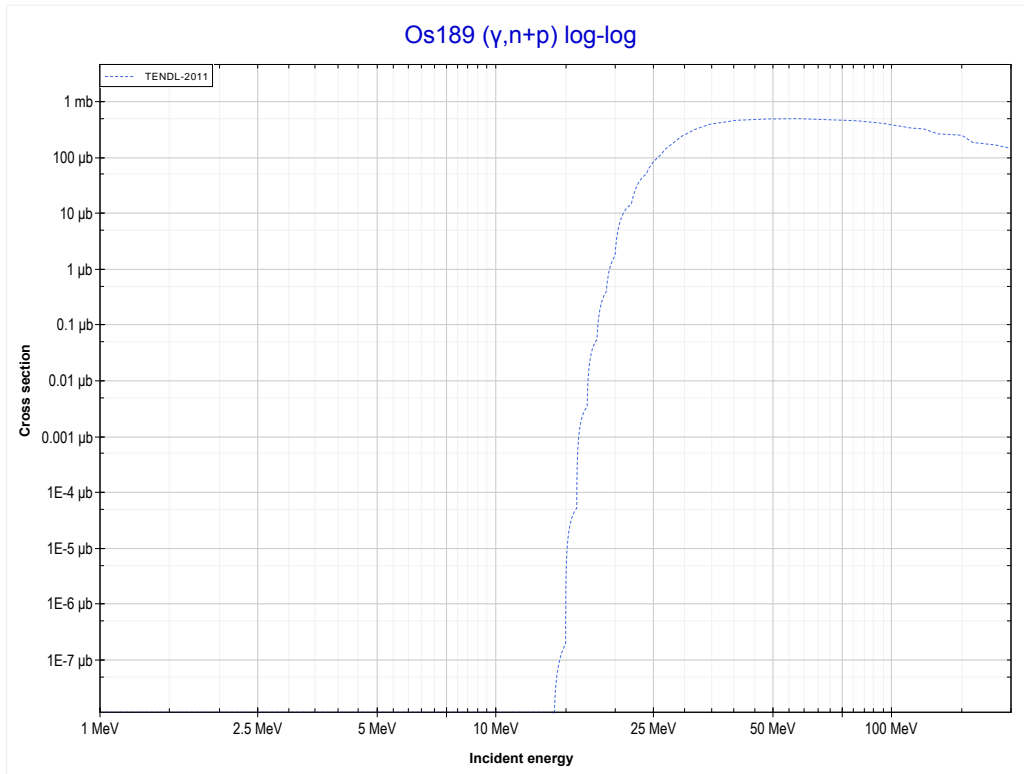
Reaction	Q-Value
Os189($\gamma,2n$)Os187	-13909.83 keV

<< 76-Os-188	76-Os-189	76-Os-190 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Os186 production)	MT28 ($\gamma,n+p$) >>



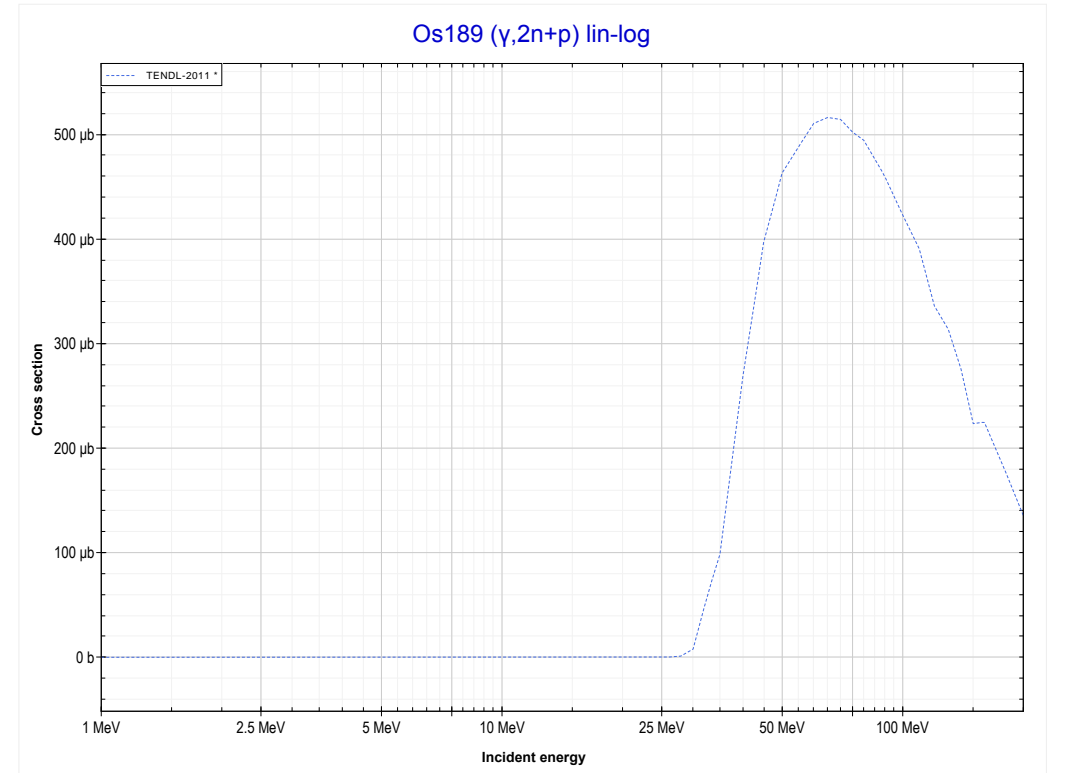
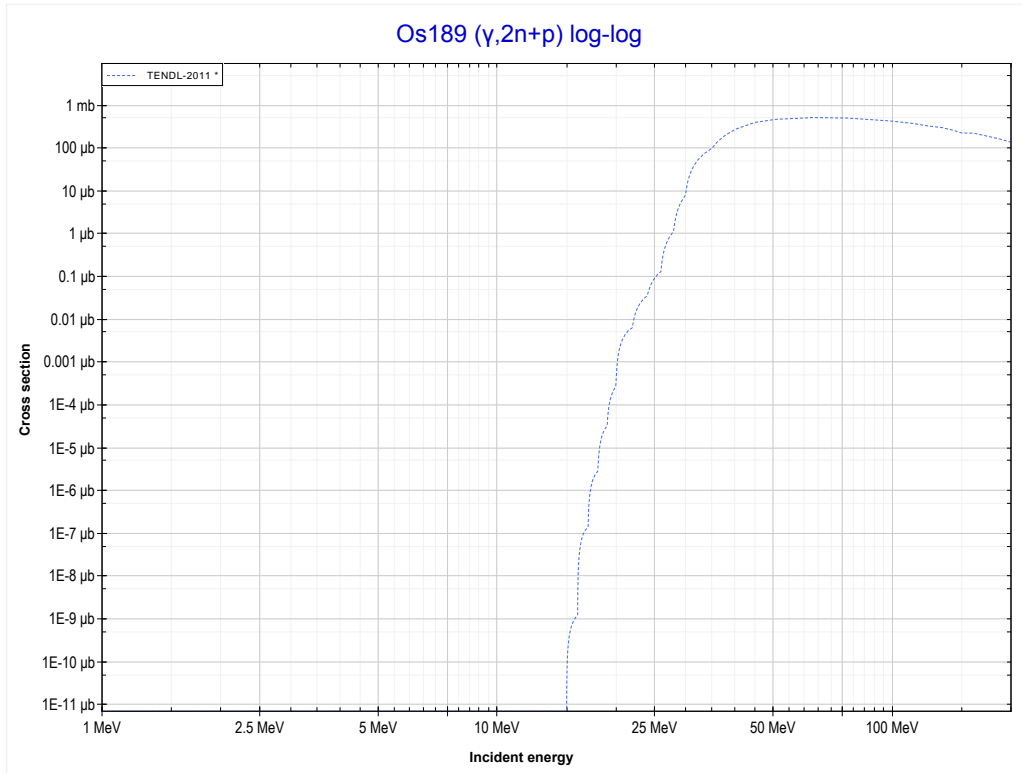
Reaction	Q-Value
Os189($\gamma,3n$)Os186	-20199.85 keV

<< 76-Os-188	76-Os-189	76-Os-190 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Re187 production)	MT41 ($\gamma,2n+p$) >>



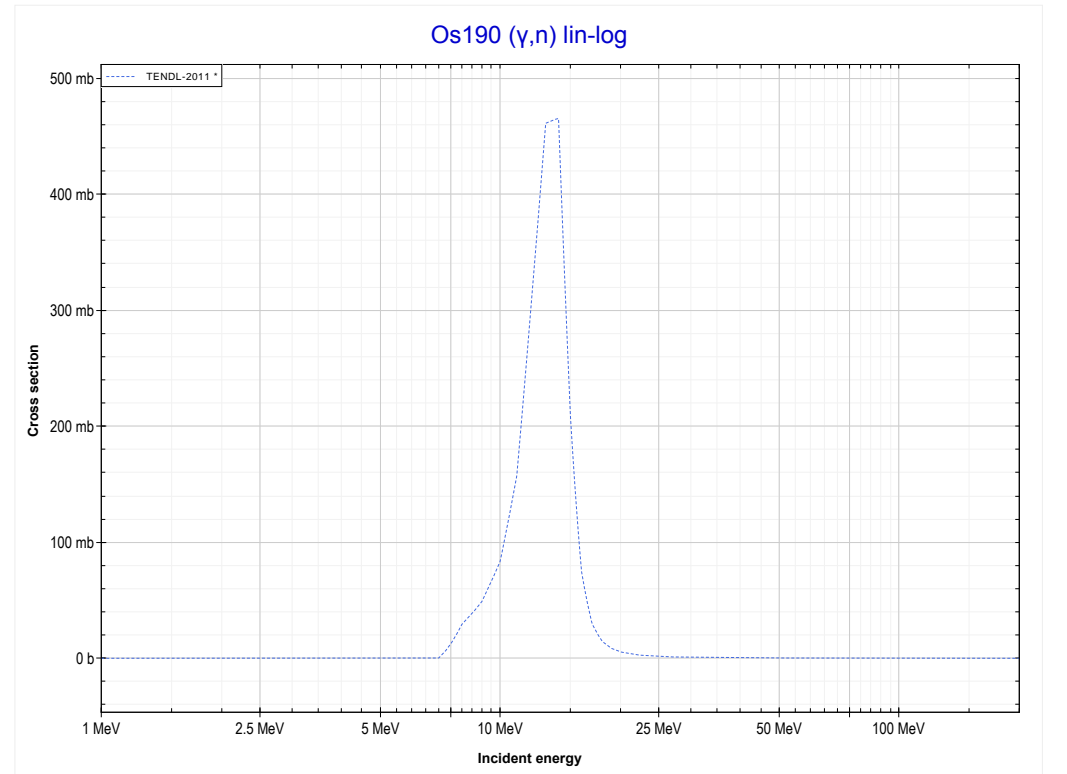
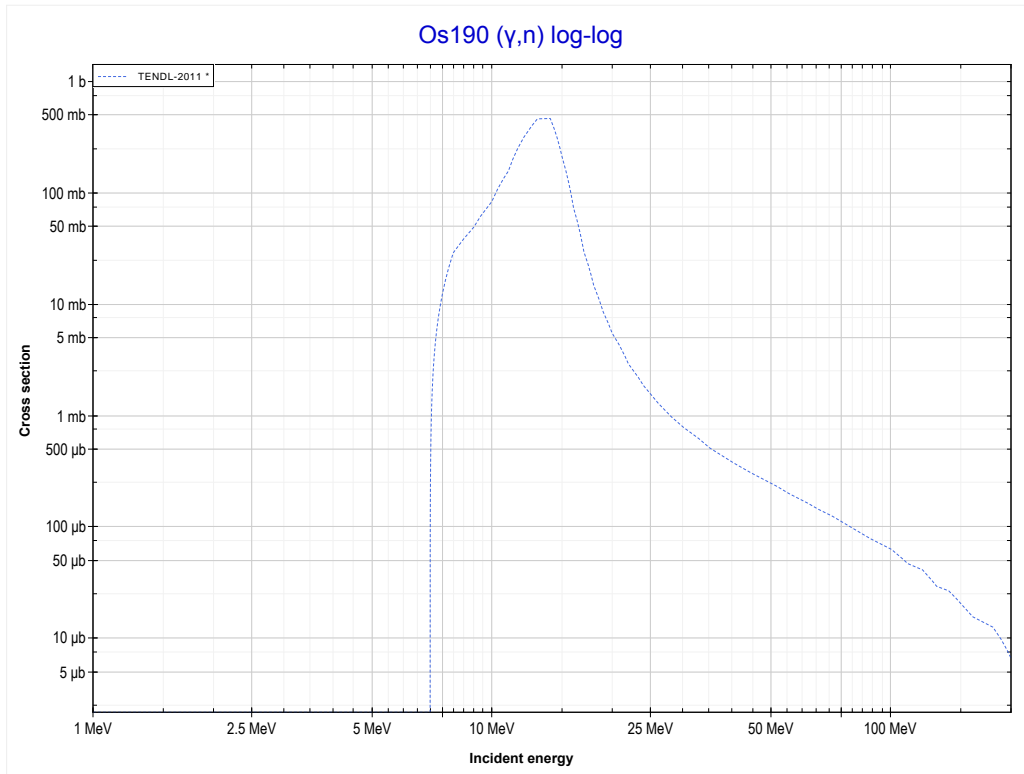
Reaction	Q-Value
Os189(γ,d)Re187	-10905.42 keV
Os189($\gamma,n+p$)Re187	-13129.99 keV

<< 76-Os-188	76-Os-189	76-Os-190 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Re186 production)	MT4 (γ, n) >>



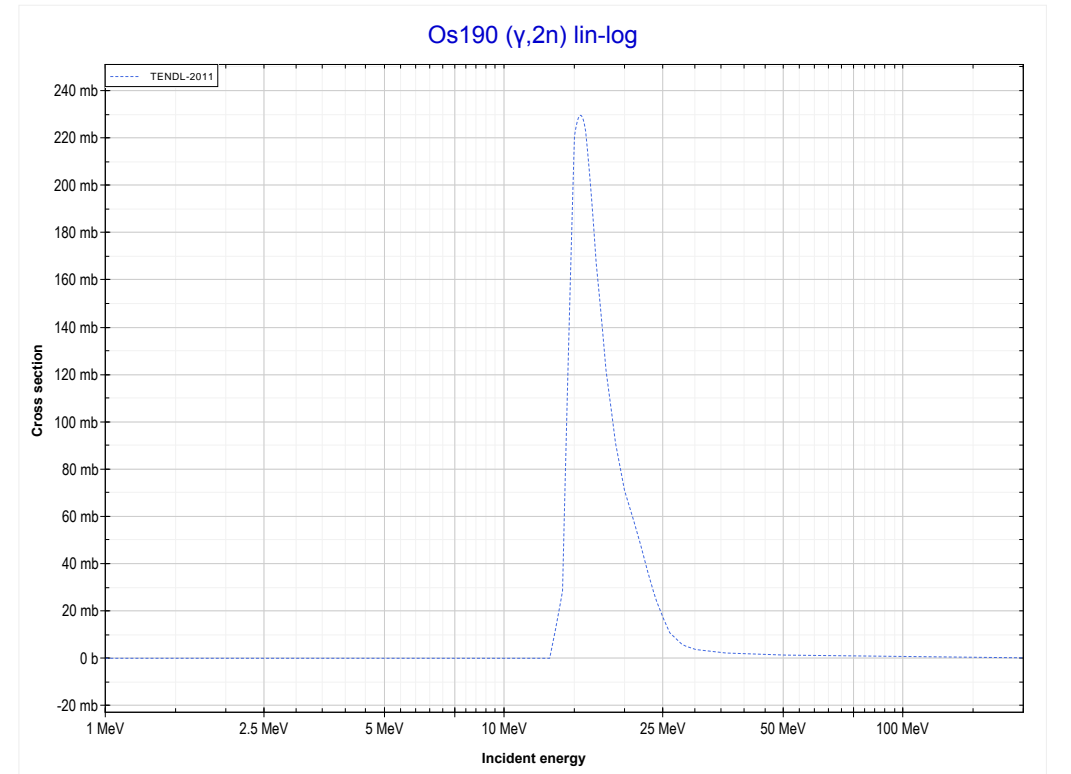
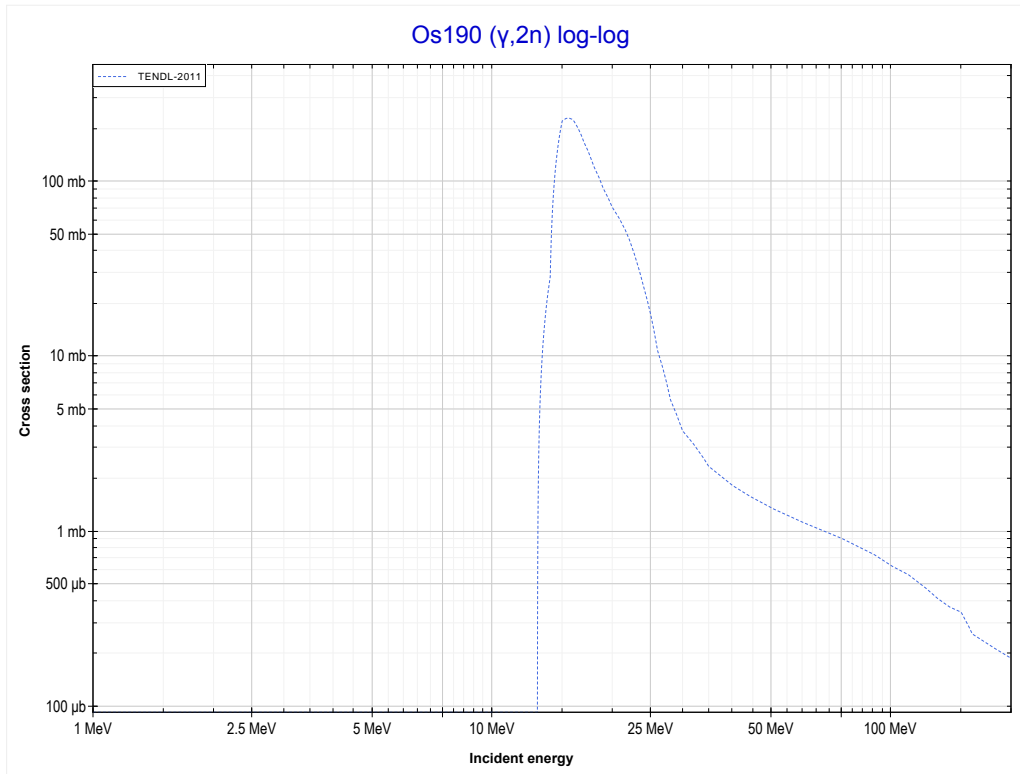
Reaction	Q-Value
Os189(γ, t)Re186	-12005.01 keV
Os189($\gamma, n+d$)Re186	-18262.24 keV
Os189($\gamma, 2n+p$)Re186	-20486.80 keV

<< 76-Os-189	76-Os-190	76-Os-192 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Os189 production)	MT16 ($\gamma,2n$) >>



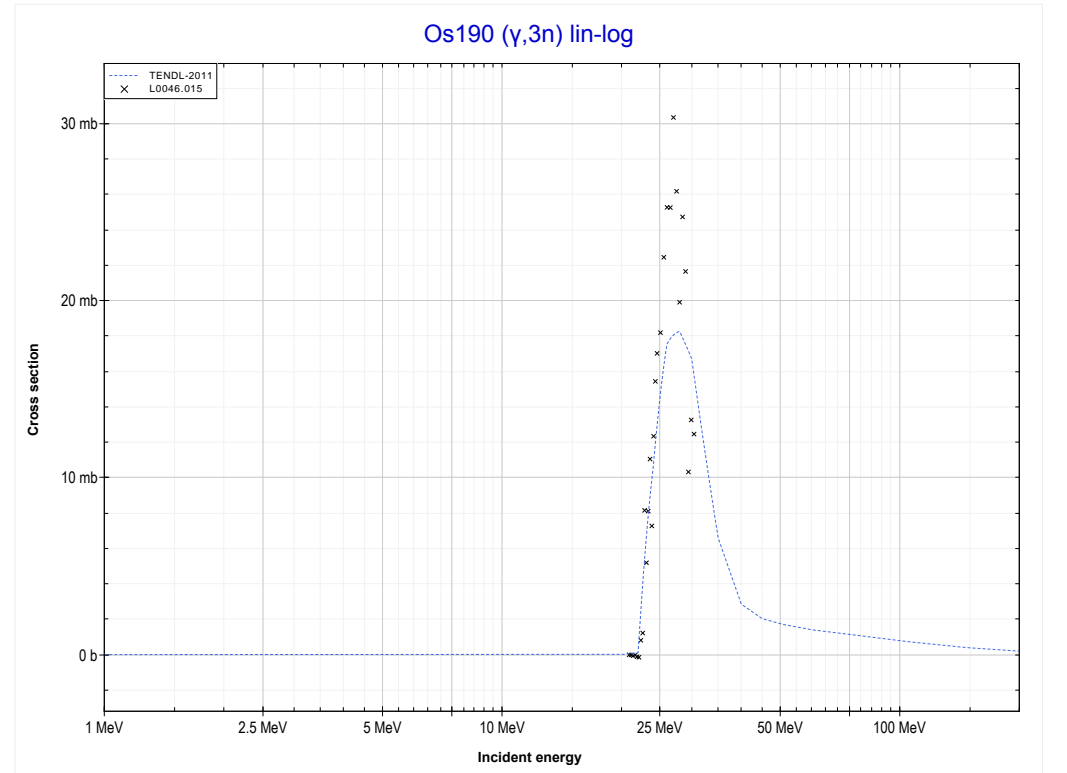
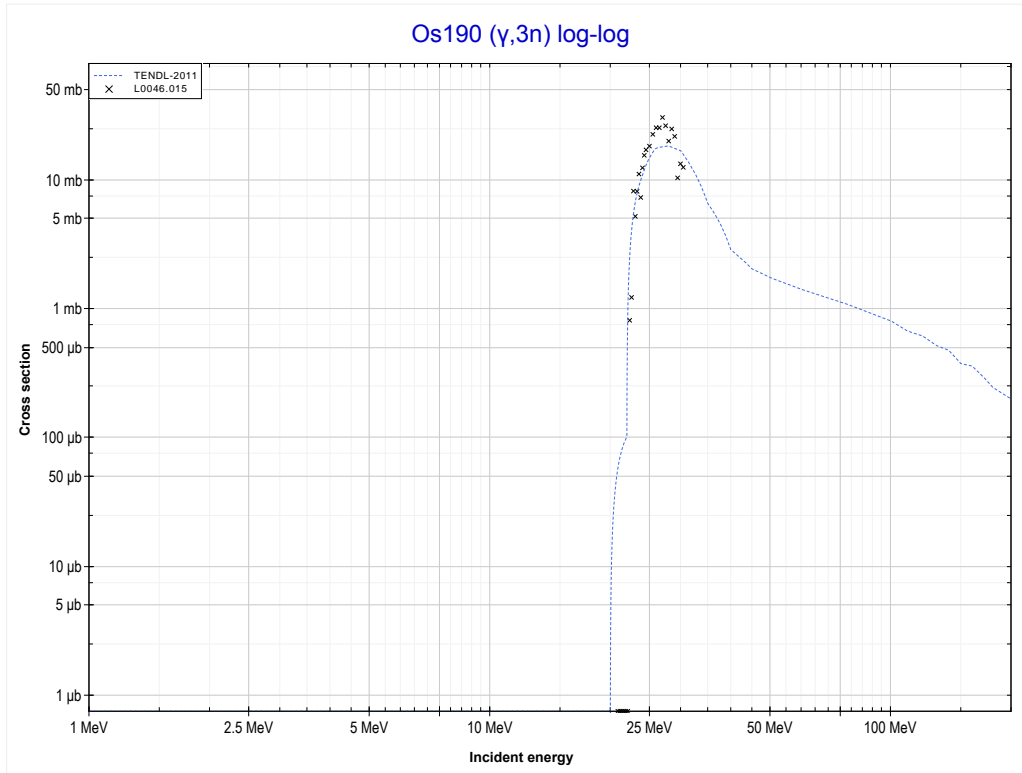
Reaction	Q-Value
Os190(γ,n)Os189	-7792.22 keV

<< 76-Os-189	76-Os-190	76-Os-192 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Os188 production)	MT17 ($\gamma,3n$) >>



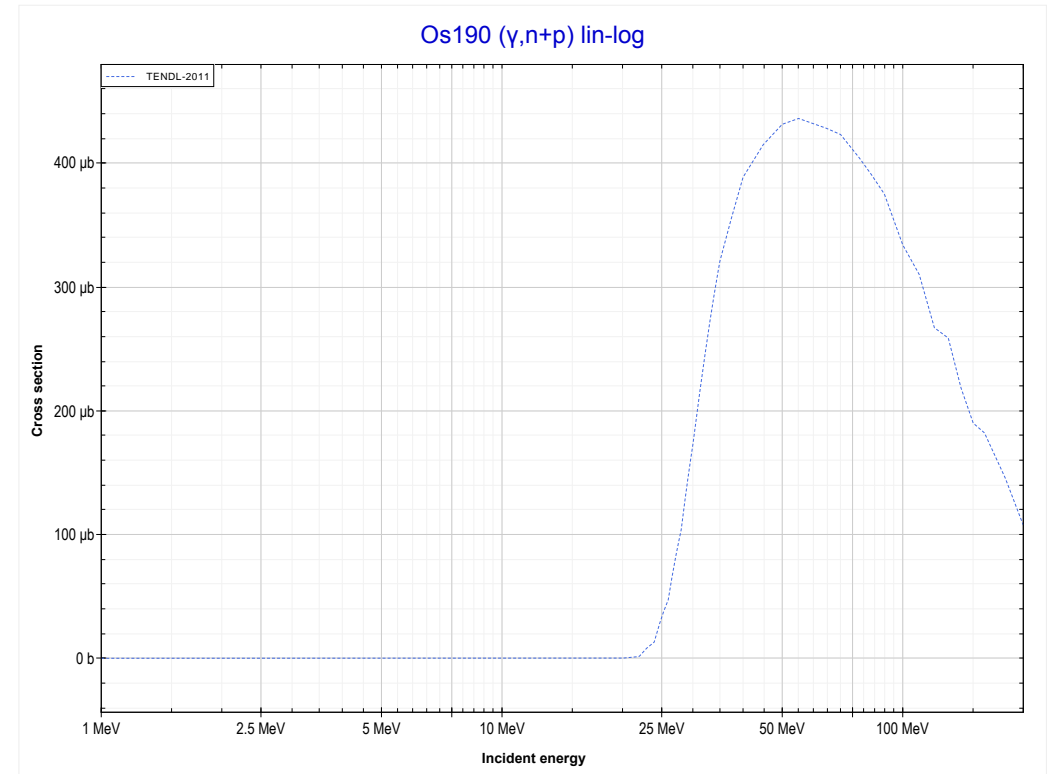
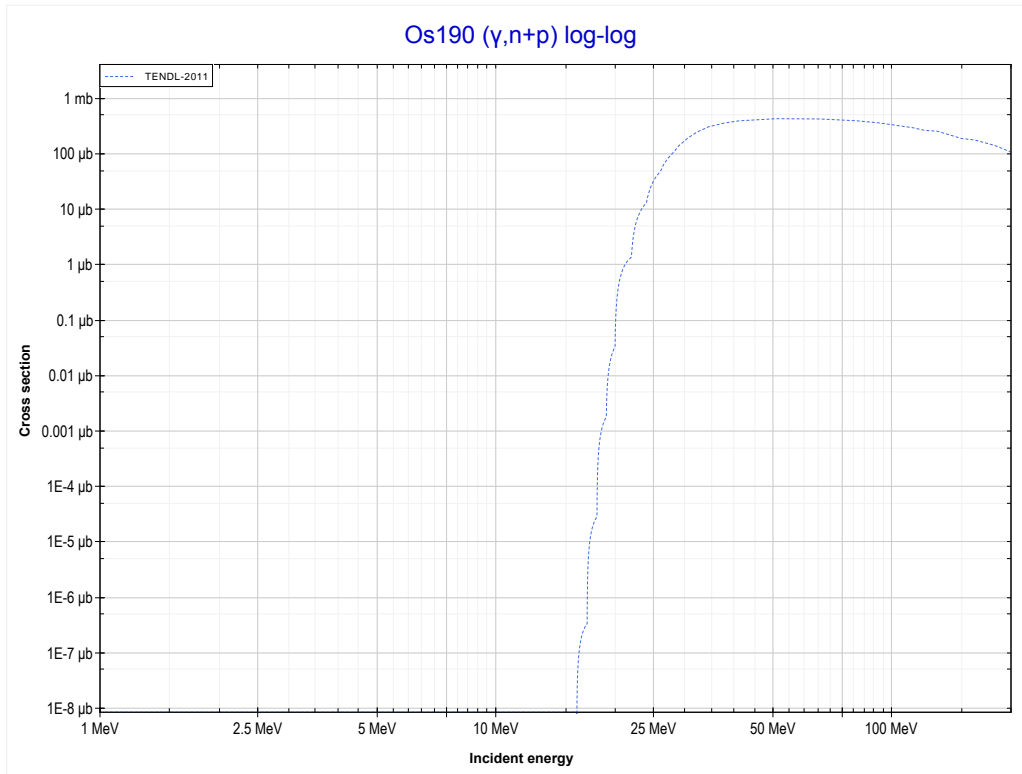
Reaction	Q-Value
Os190($\gamma,2n$)Os188	-13712.53 keV

<< 76-Os-189	76-Os-190	76-Os-192 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Os187 production)	MT28 ($\gamma,n+p$) >>



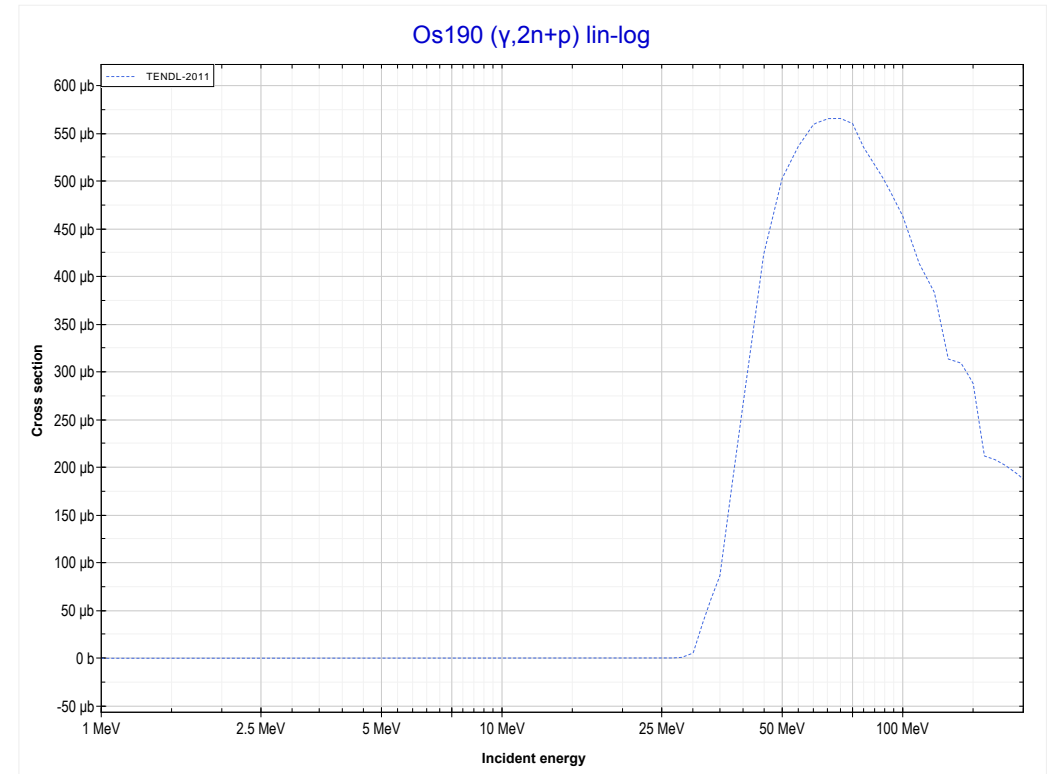
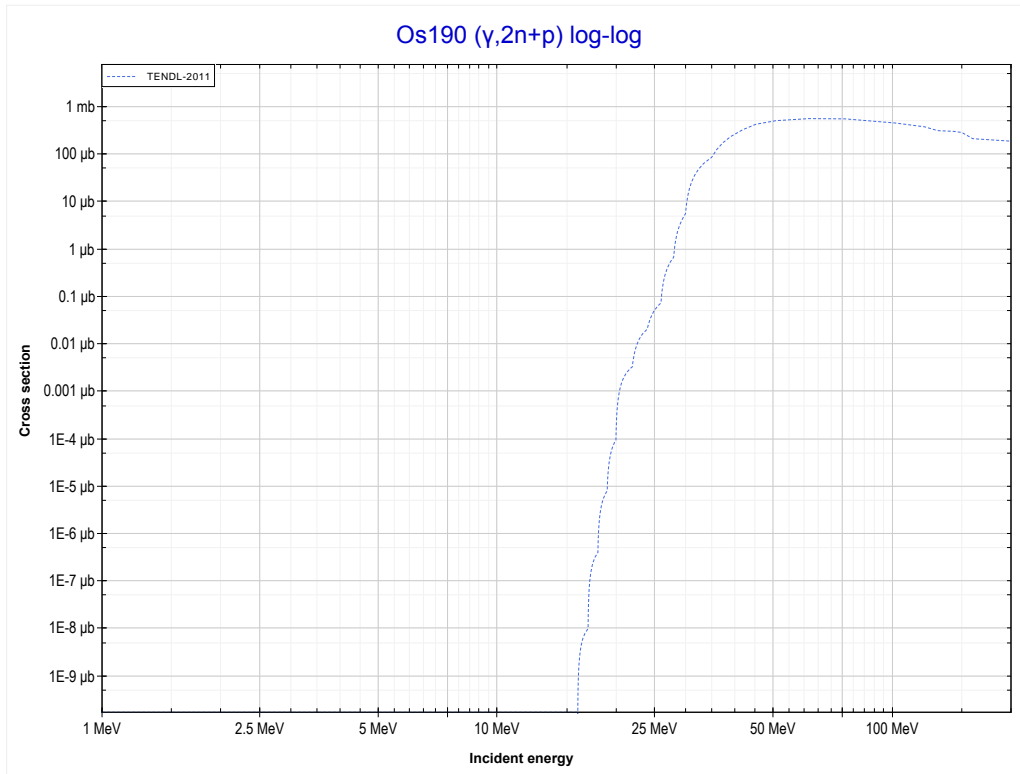
Reaction	Q-Value
Os190($\gamma,3n$)Os187	-21702.05 keV

<< 76-Os-189	76-Os-190	76-Os-192 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Re188 production)	MT41 ($\gamma,2n+p$) >>



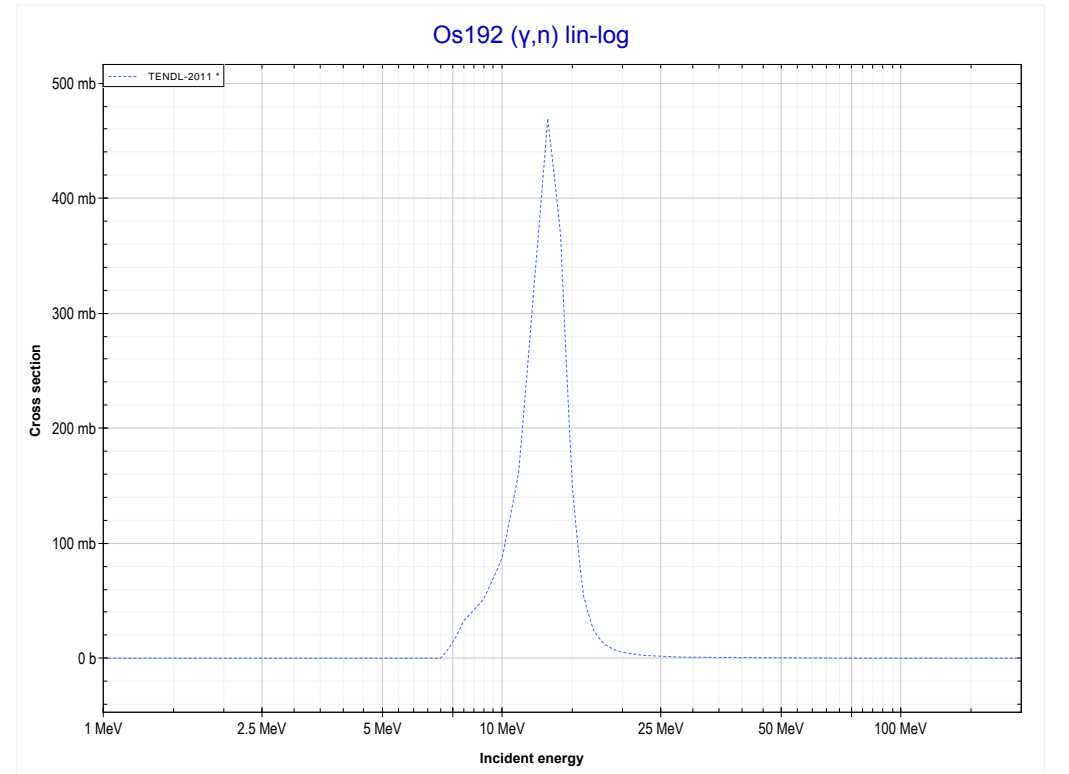
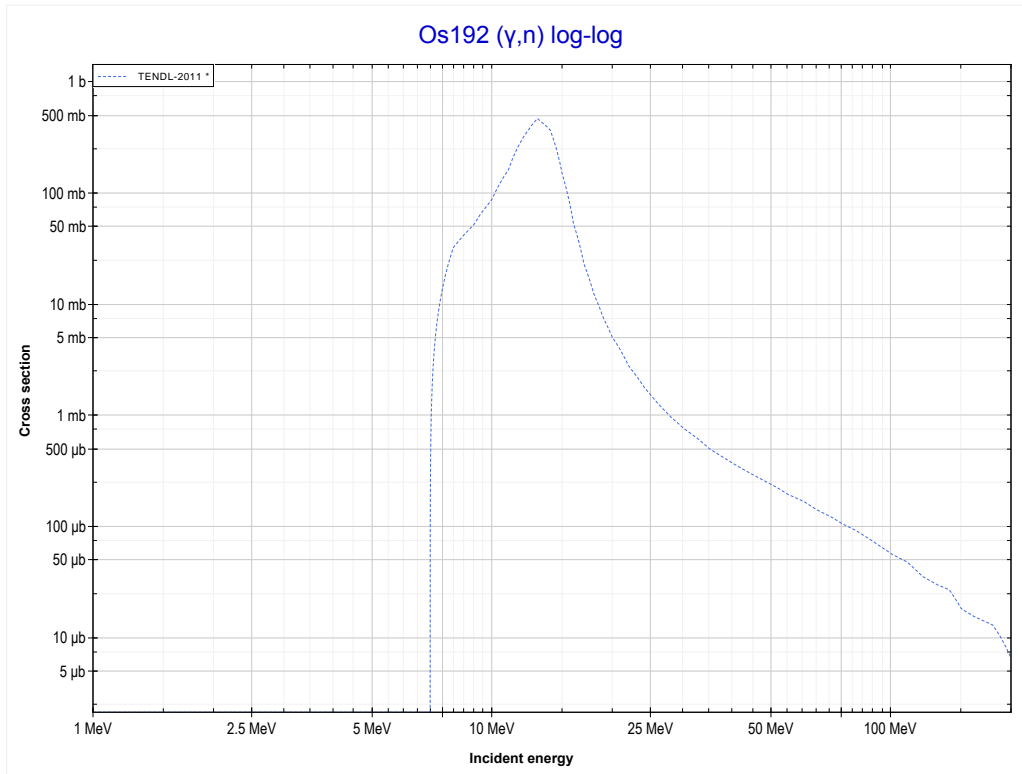
Reaction	Q-Value
Os190(γ,d)Re188	-12825.92 keV
Os190($\gamma,n+p$)Re188	-15050.49 keV

<< 76-Os-189	76-Os-190	76-Os-192 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Re187 production)	MT4 (γ, n) >>



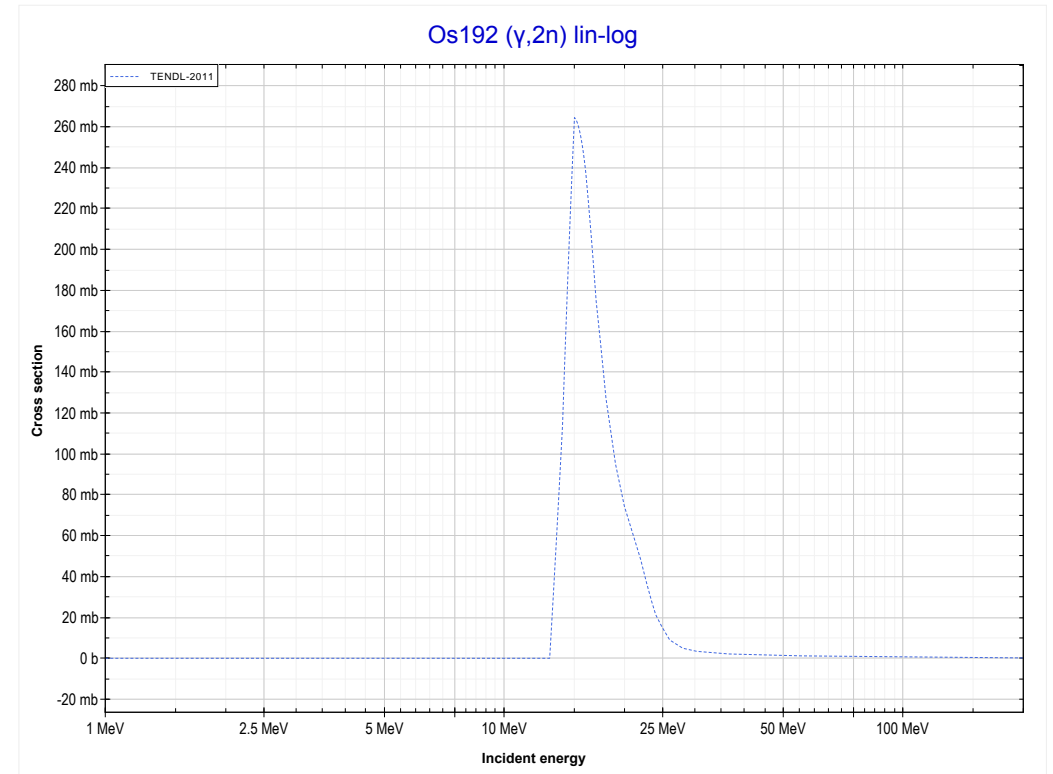
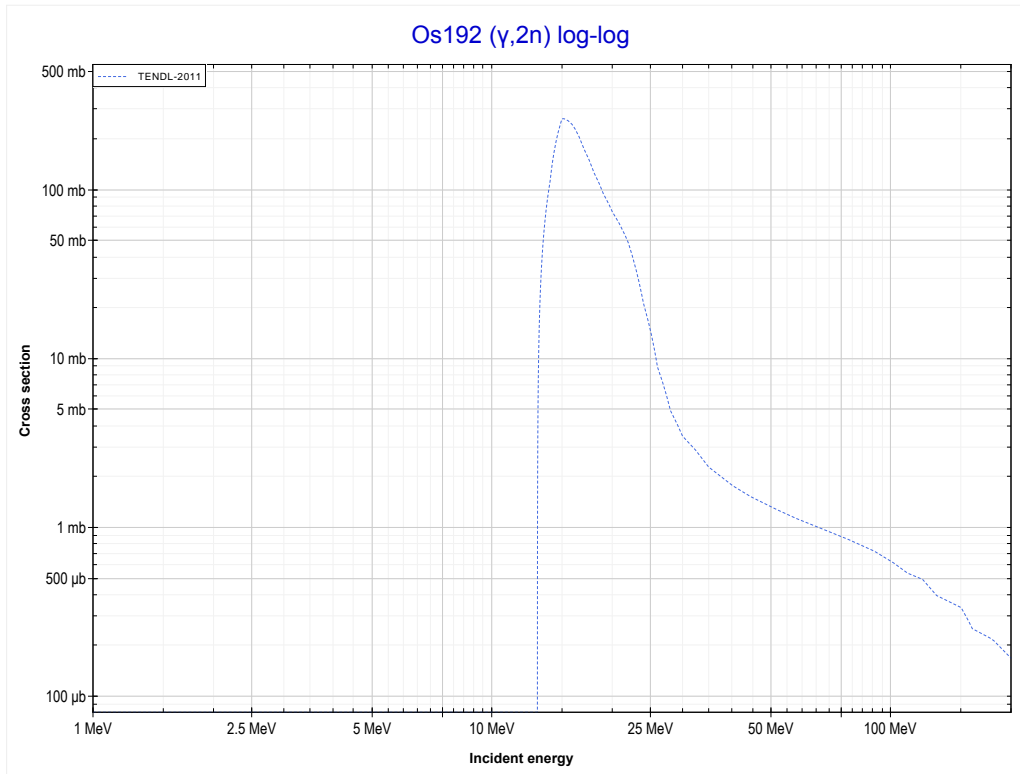
Reaction	Q-Value
Os190(γ, t)Re187	-12440.41 keV
Os190($\gamma, n+d$)Re187	-18697.64 keV
Os190($\gamma, 2n+p$)Re187	-20922.20 keV

<< 76-Os-190	76-Os-192	77-Ir-191 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Os191 production)	MT16 ($\gamma,2n$) >>



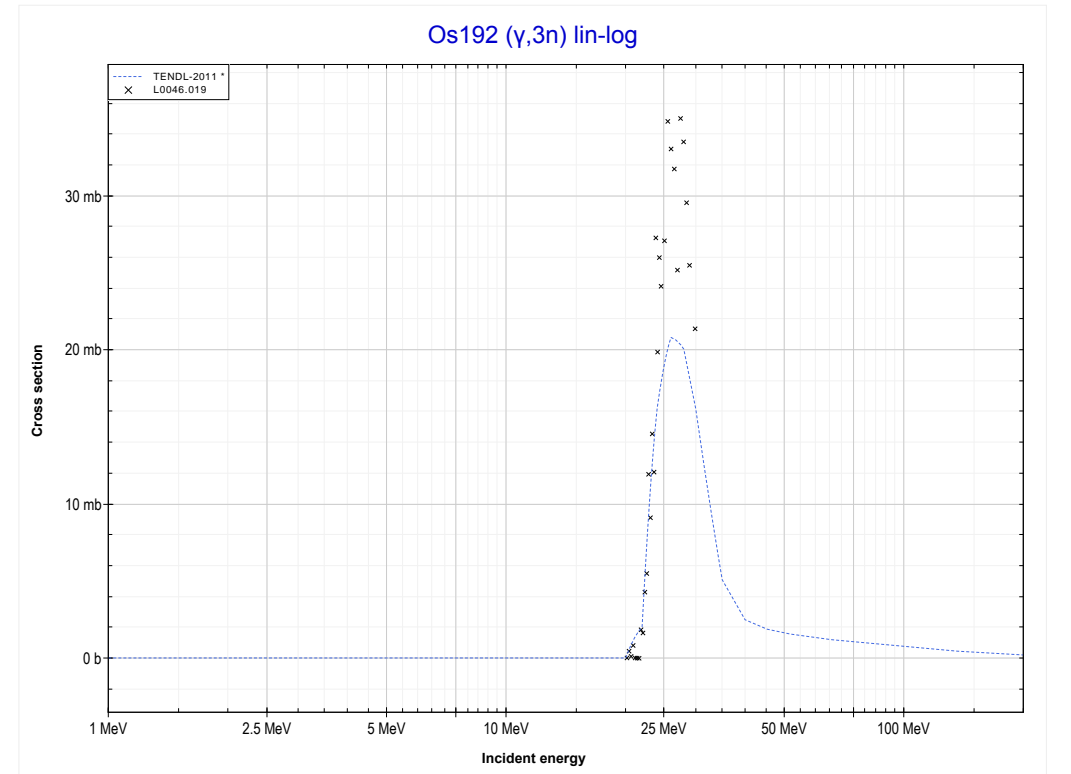
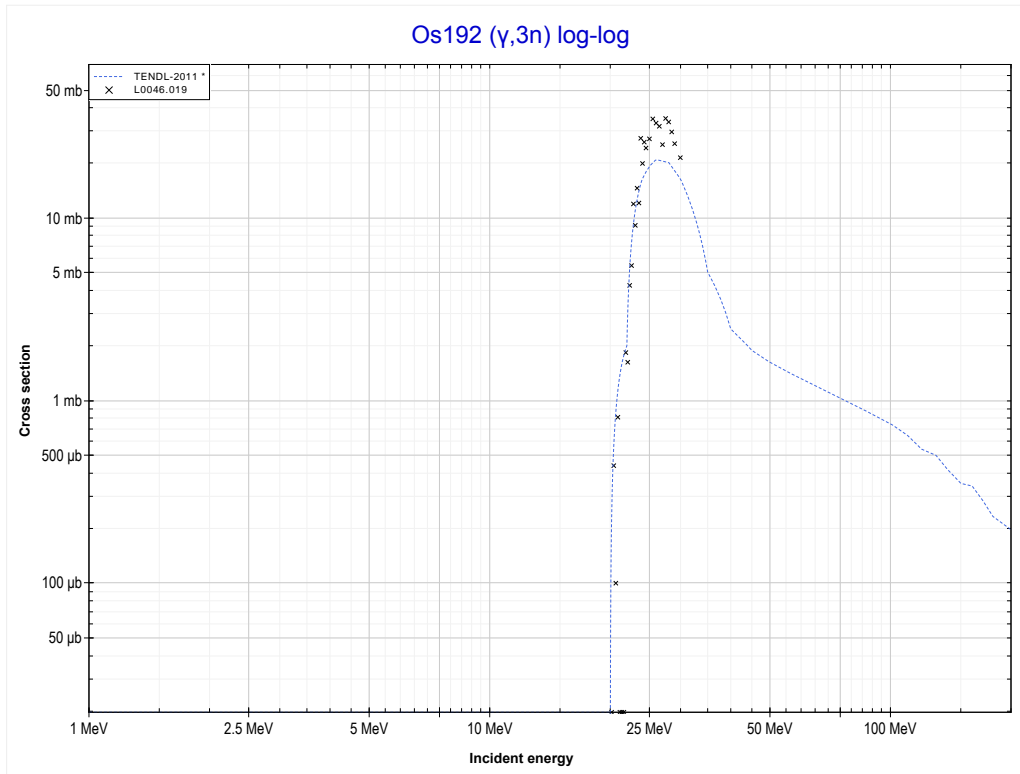
Reaction	Q-Value
Os192(γ,n)Os191	-7558.12 keV

<< 76-Os-190	76-Os-192	77-Ir-191 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Os190 production)	MT17 ($\gamma,3n$) >>



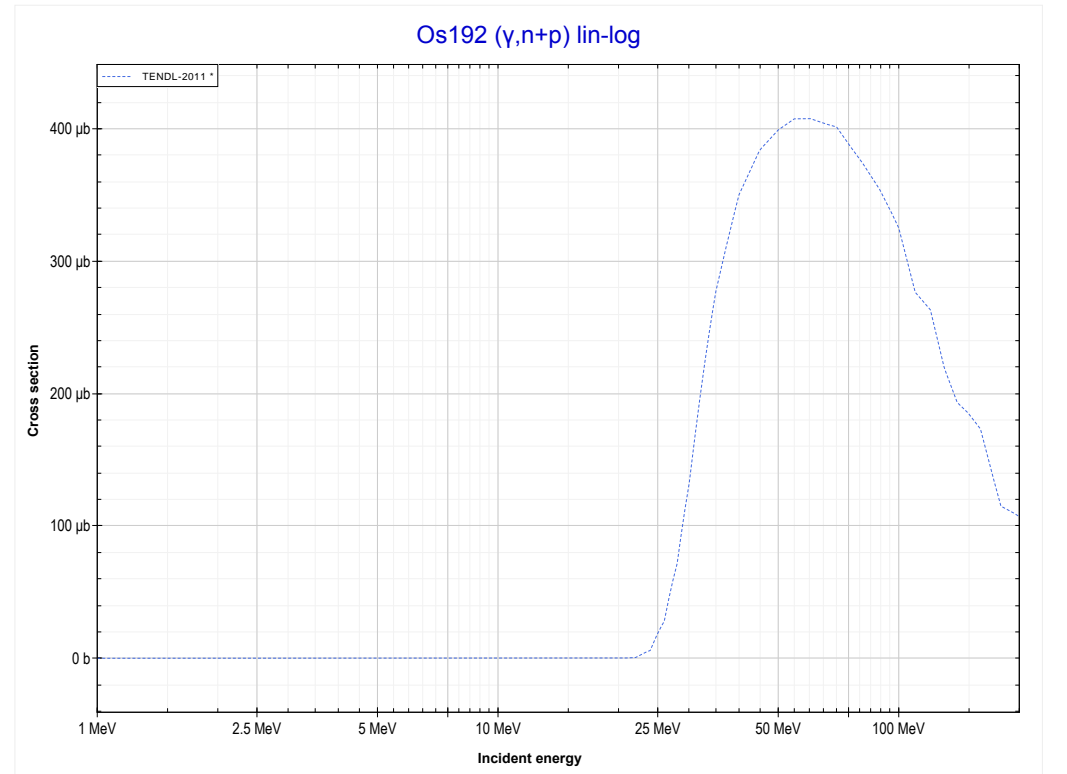
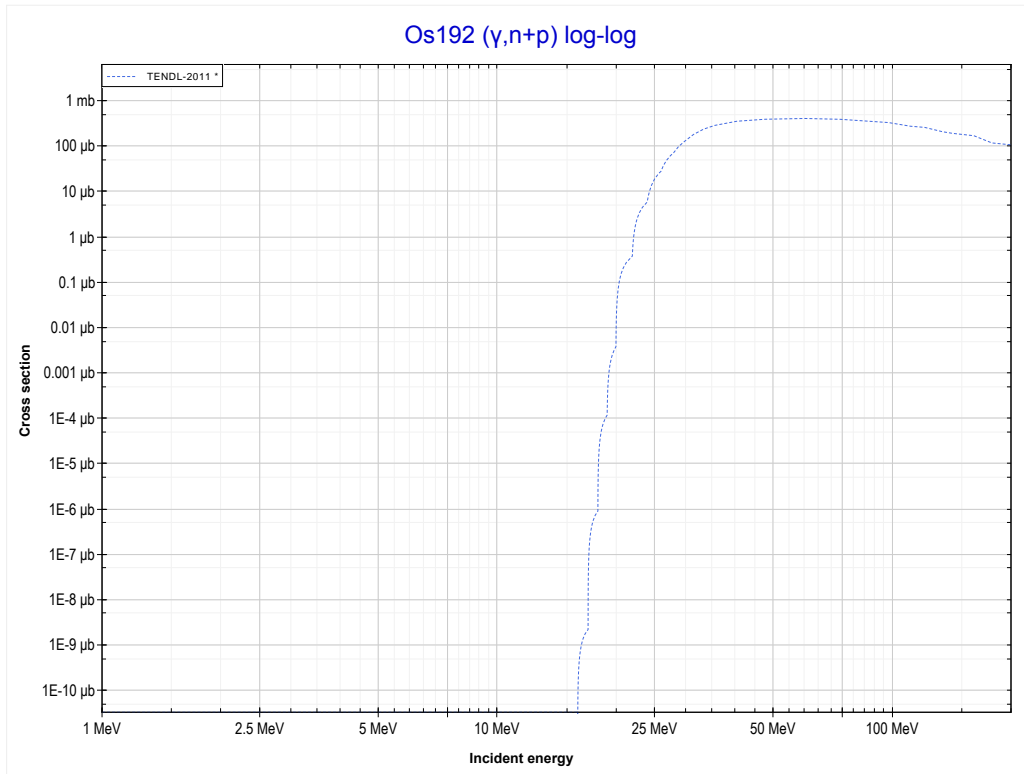
Reaction	Q-Value
Os192($\gamma,2n$)Os190	-13316.83 keV

<< 76-Os-190	76-Os-192	79-Au-197 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Os189 production)	MT28 ($\gamma,n+p$) >>



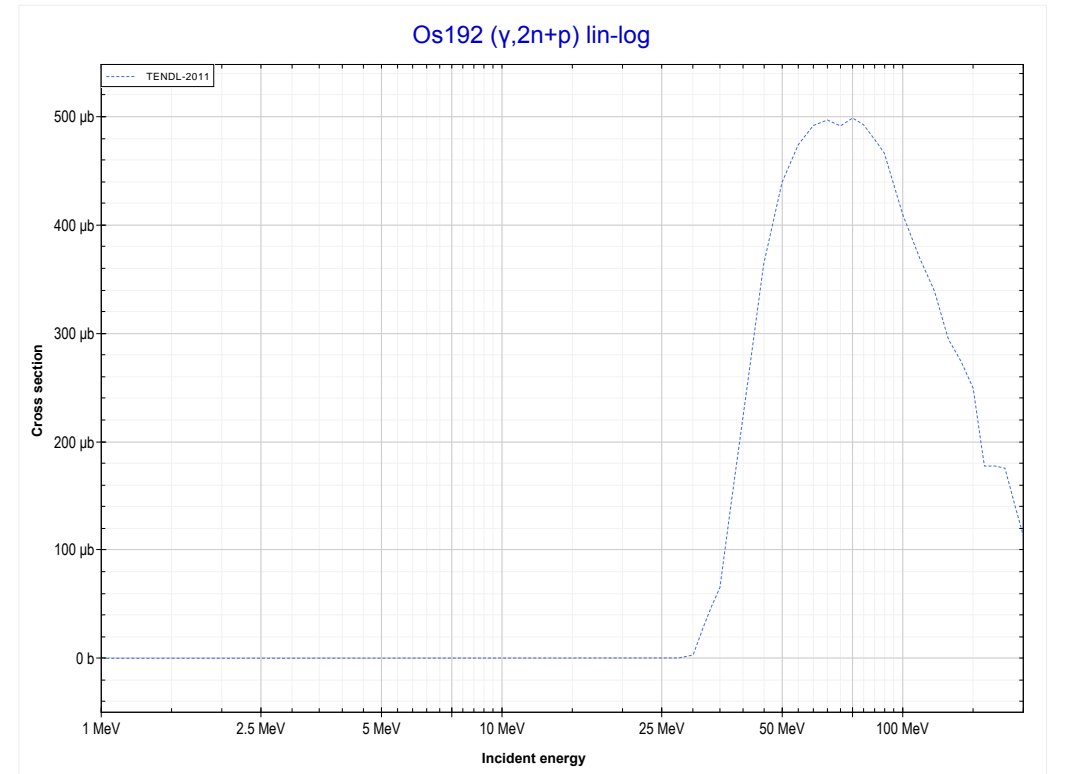
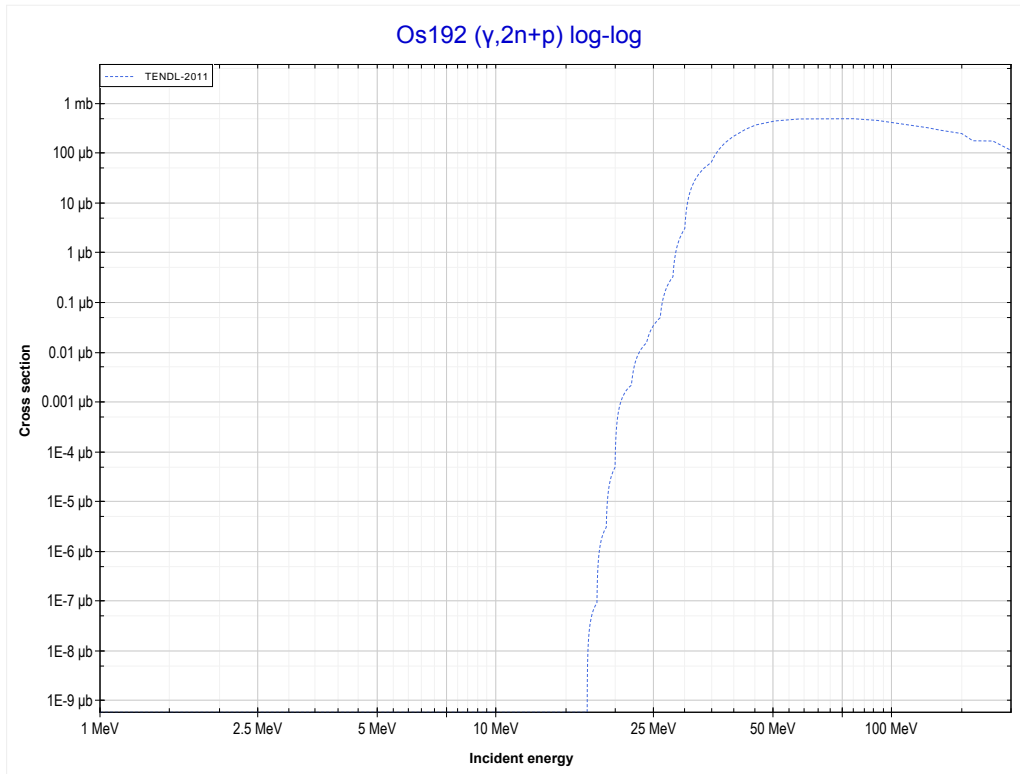
Reaction	Q-Value
Os192($\gamma,3n$)Os189	-21109.05 keV

<< 76-Os-190	76-Os-192	77-Ir-191 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Re190 production)	MT41 ($\gamma,2n+p$) >>



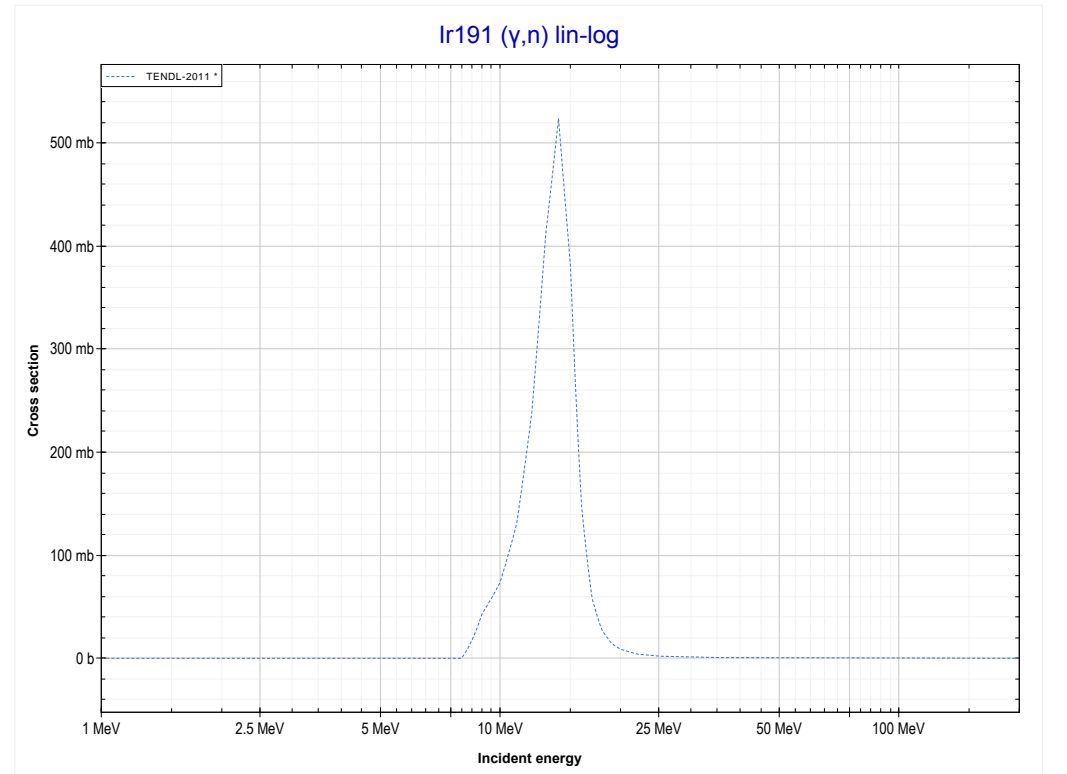
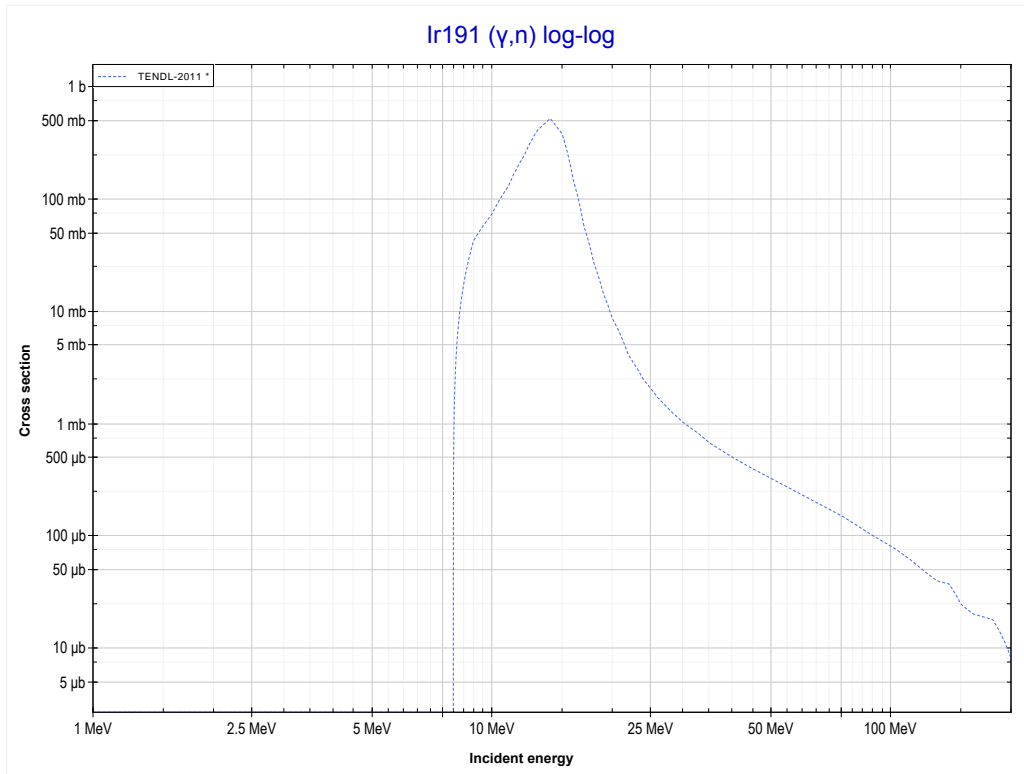
Reaction	Q-Value
Os192(γ,d)Re190	-13446.22 keV
Os192($\gamma,n+p$)Re190	-15670.79 keV

<< 76-Os-190	76-Os-192	79-Au-197 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Re189 production)	MT4 (γ, n) >>



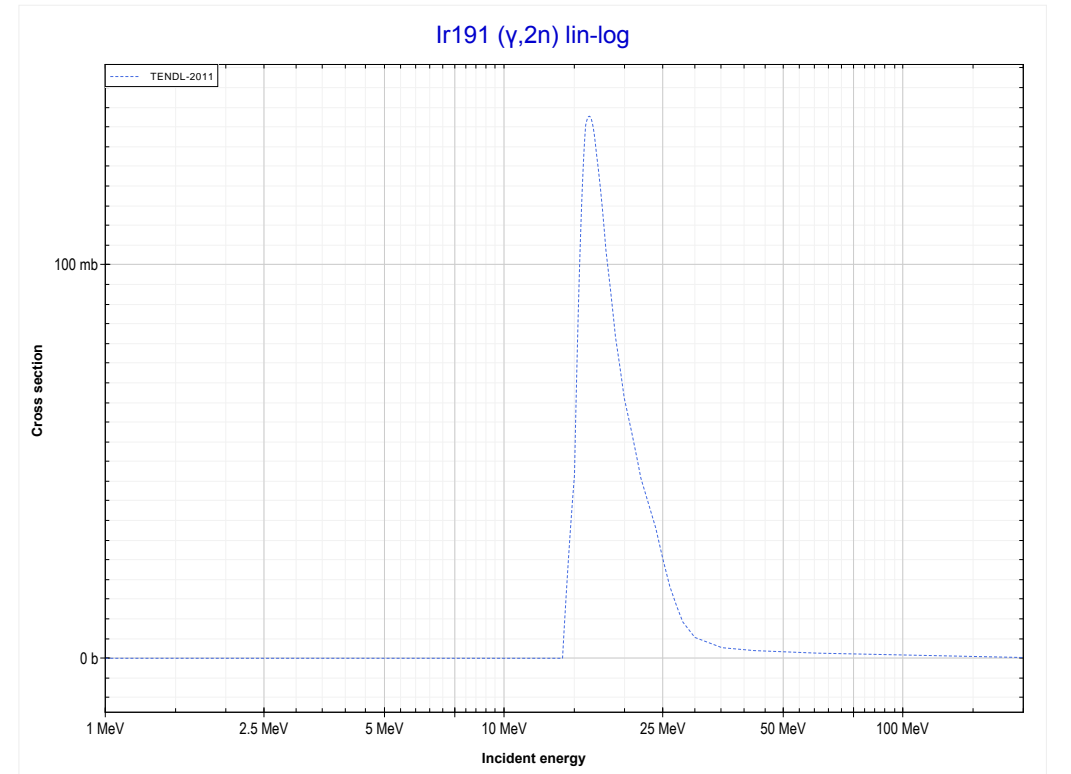
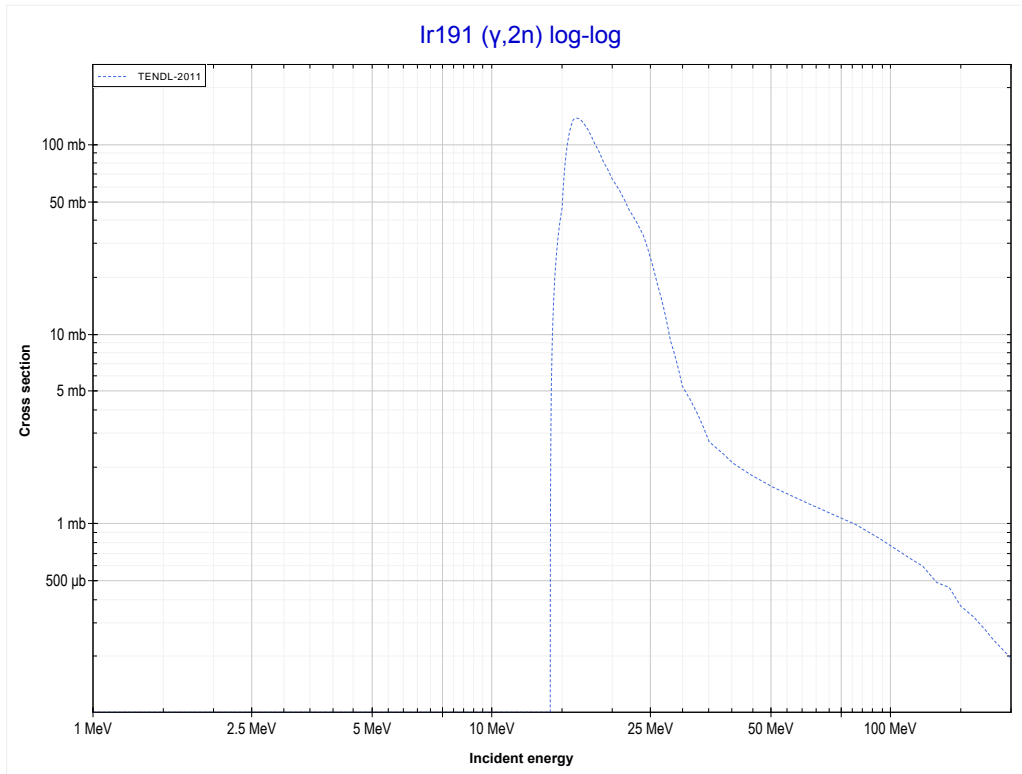
Reaction	Q-Value
Os192(γ, t)Re189	-12852.31 keV
Os192($\gamma, n+d$)Re189	-19109.54 keV
Os192($\gamma, 2n+p$)Re189	-21334.10 keV

<< 76-Os-192	77-Ir-191	77-Ir-193 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Ir190 production)	MT16 ($\gamma,2n$) >>



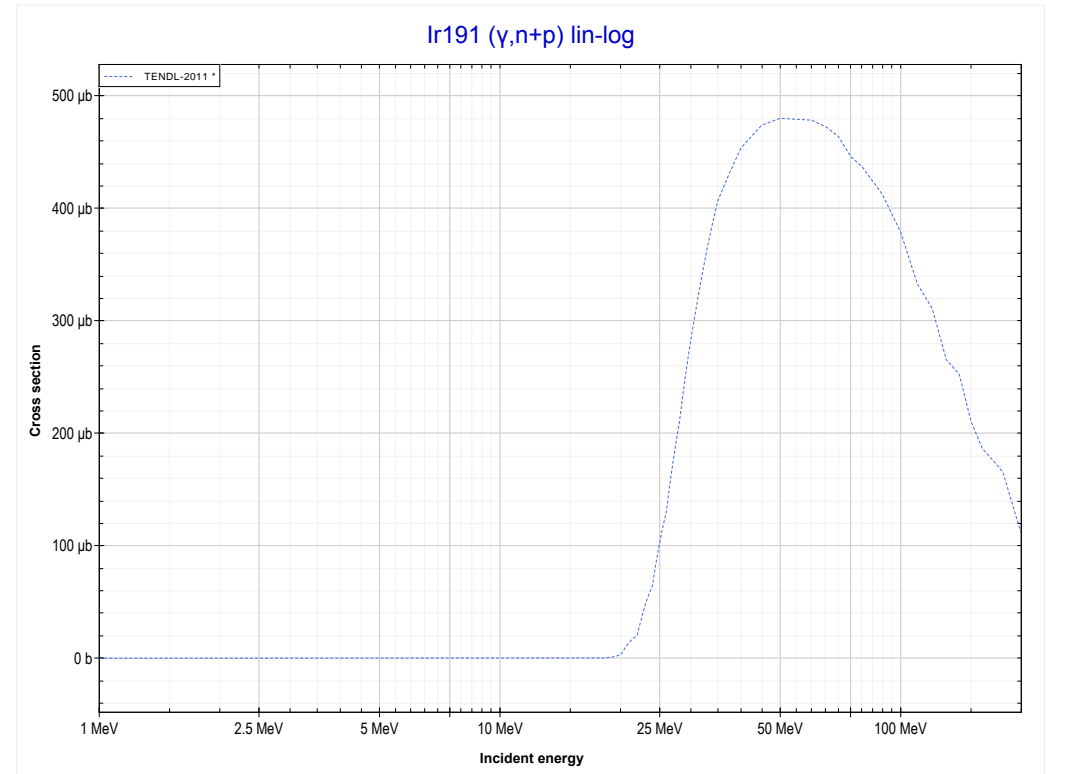
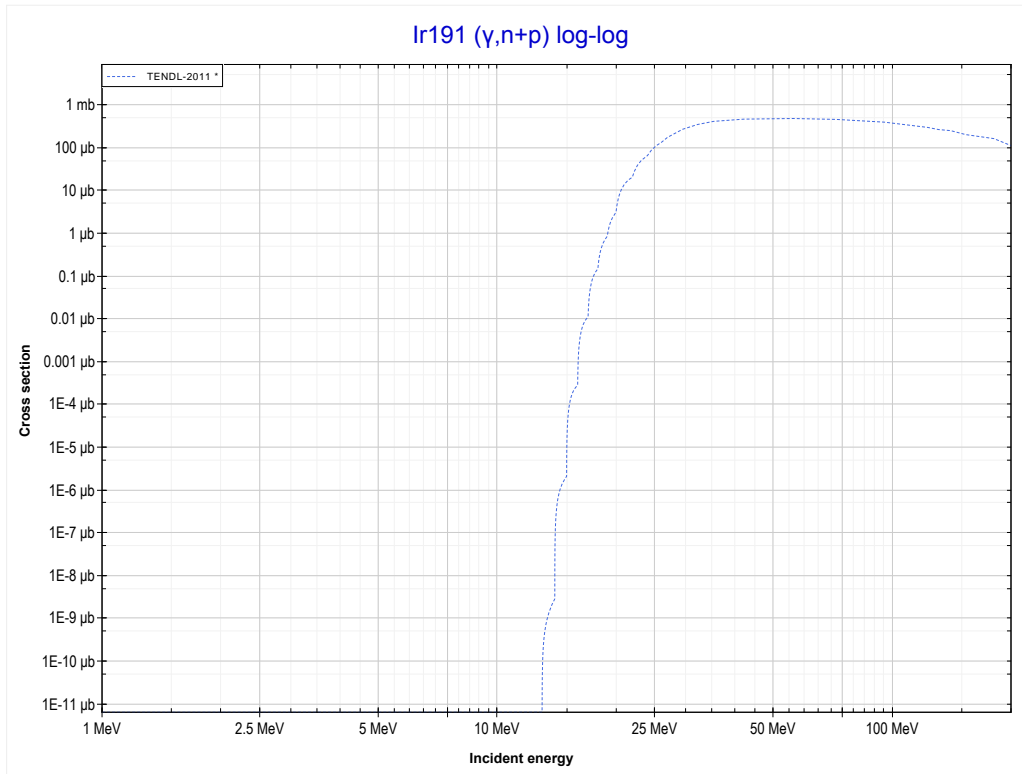
Reaction	Q-Value
Ir191(γ,n)Ir190	-8026.52 keV

<< 76-Os-192	77-Ir-191	77-Ir-193 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Ir189 production)	MT28 ($\gamma, n+p$) >>



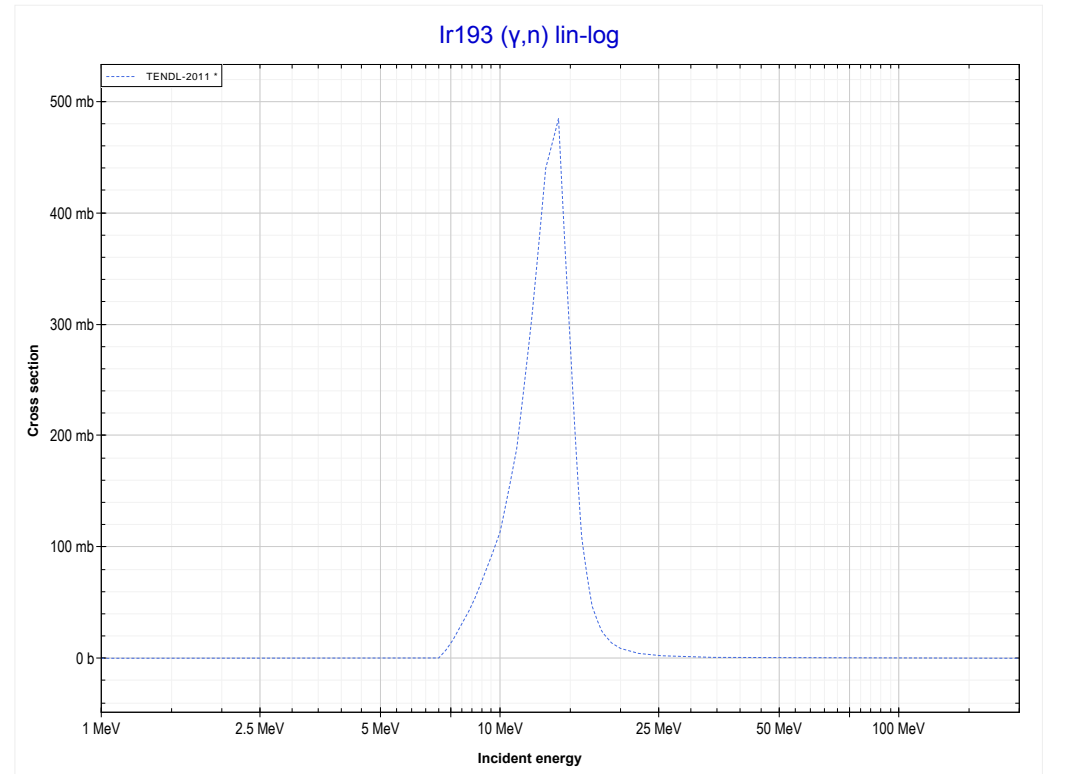
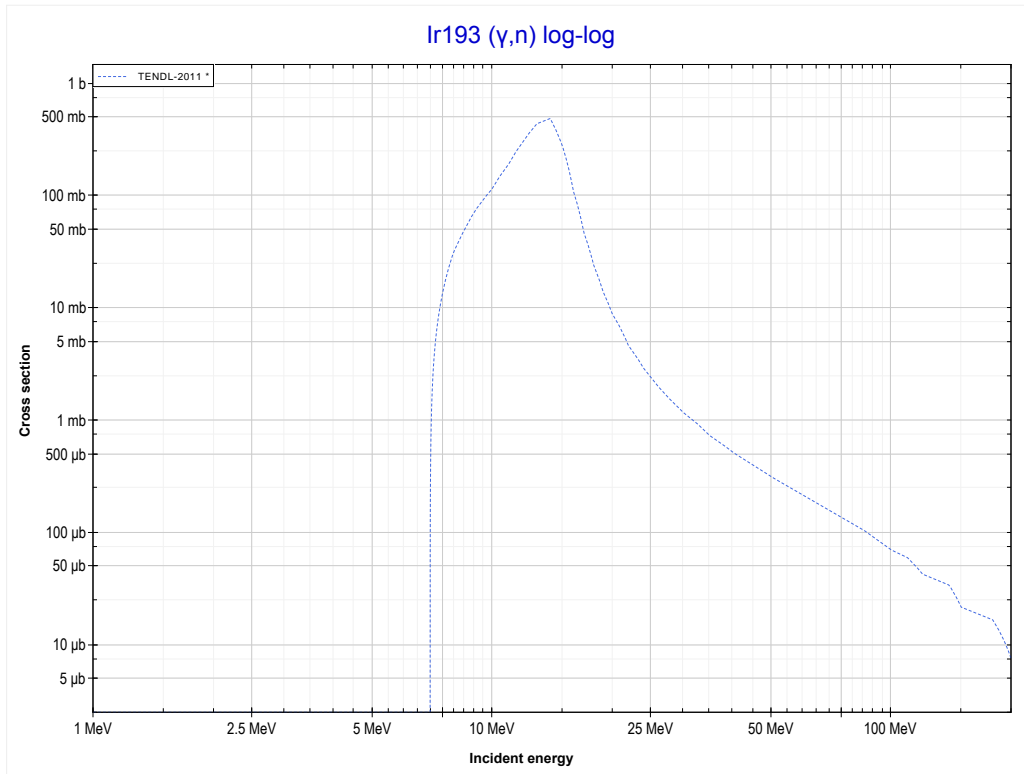
Reaction	Q-Value
Ir191($\gamma, 2n$)Ir189	-14396.03 keV

<< 76-Os-192	77-Ir-191	77-Ir-193 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Os189 production)	MT4 (γ,n) >>



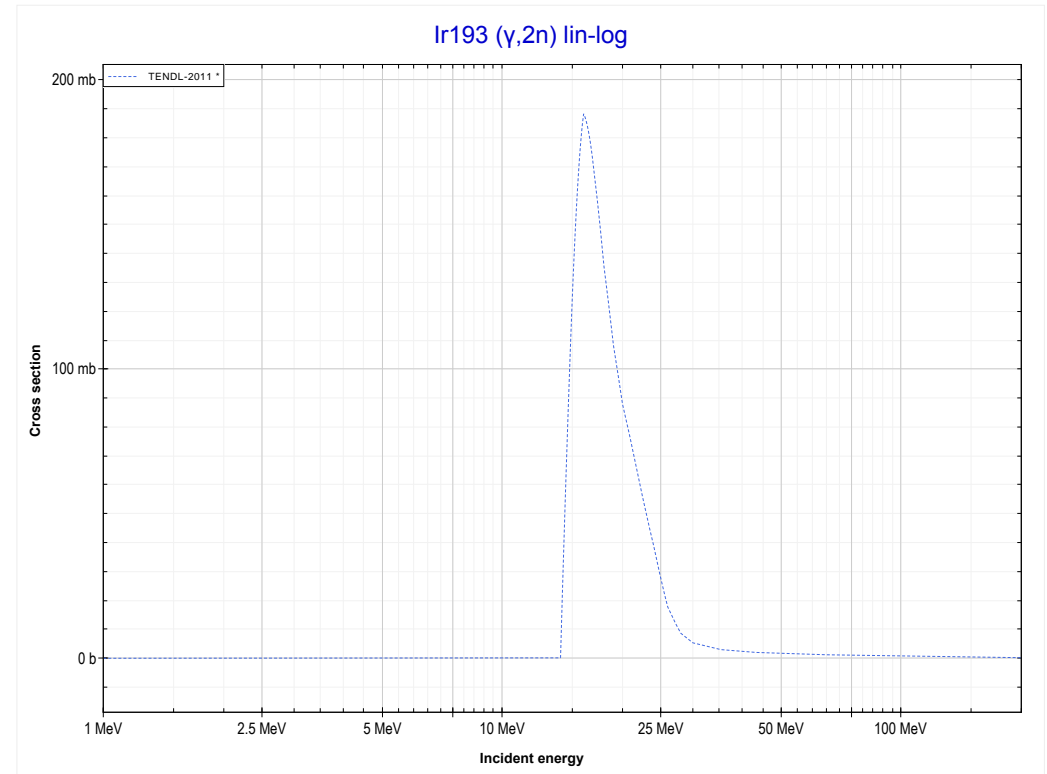
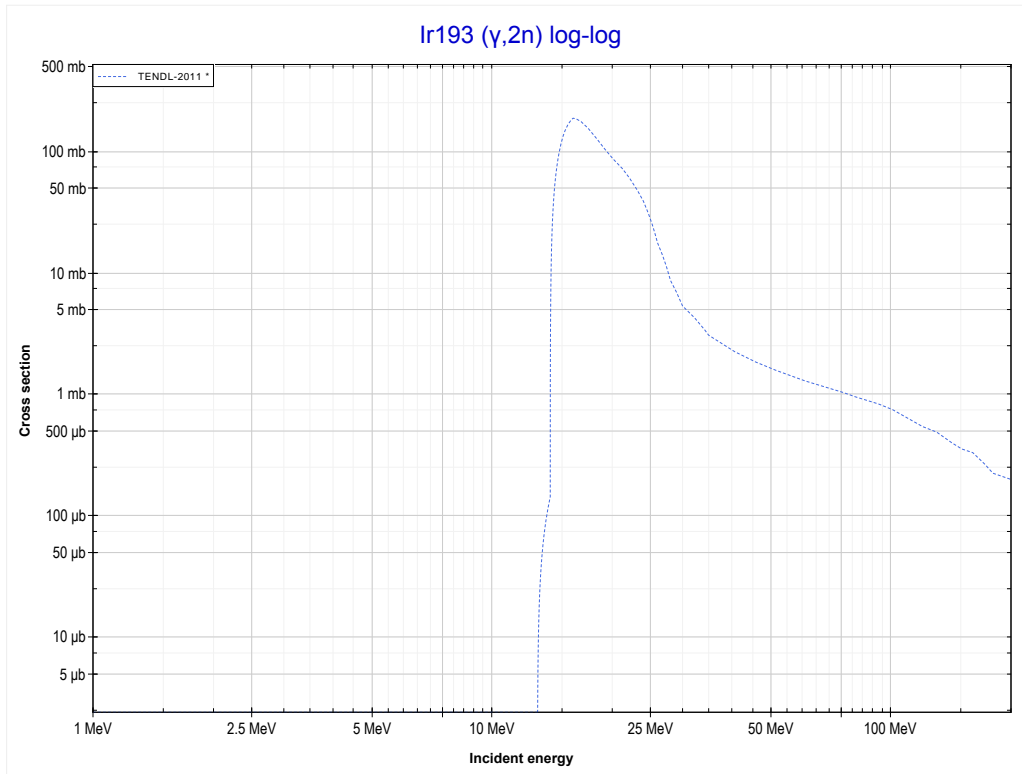
Reaction	Q-Value
Ir191(γ,d)Os189	-10856.72 keV
Ir191($\gamma,n+p$)Os189	-13081.29 keV

<< 77-Ir-191	77-Ir-193	78-Pt-194 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Ir192 production)	MT16 ($\gamma, 2n$) >>



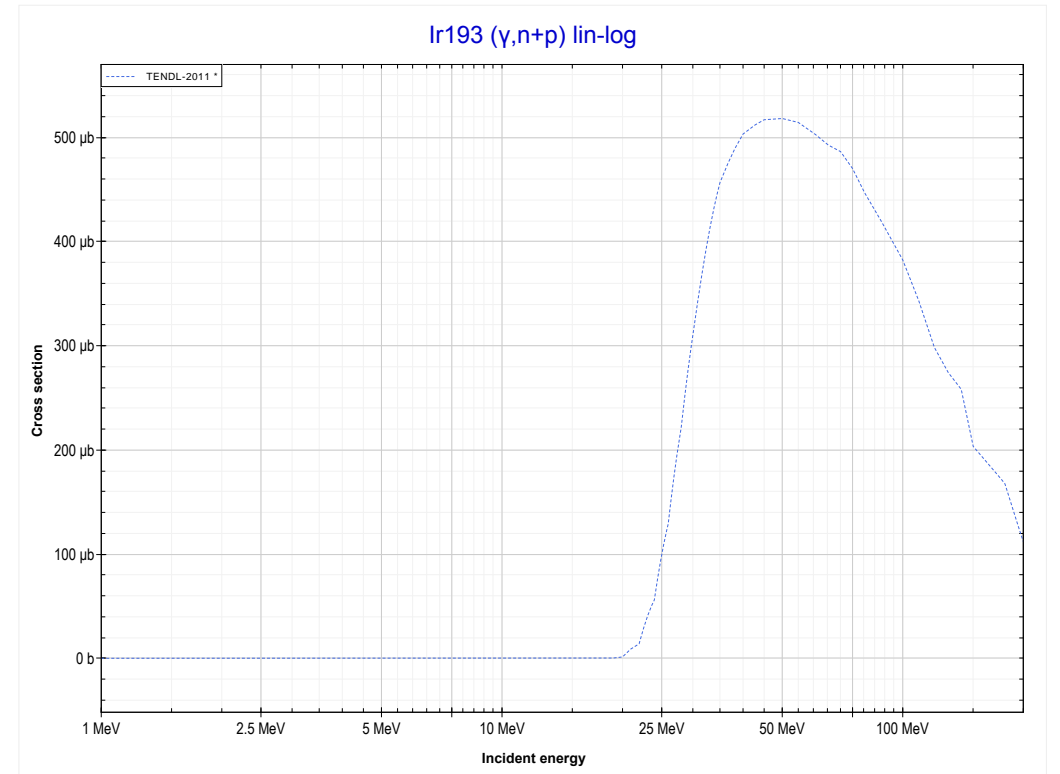
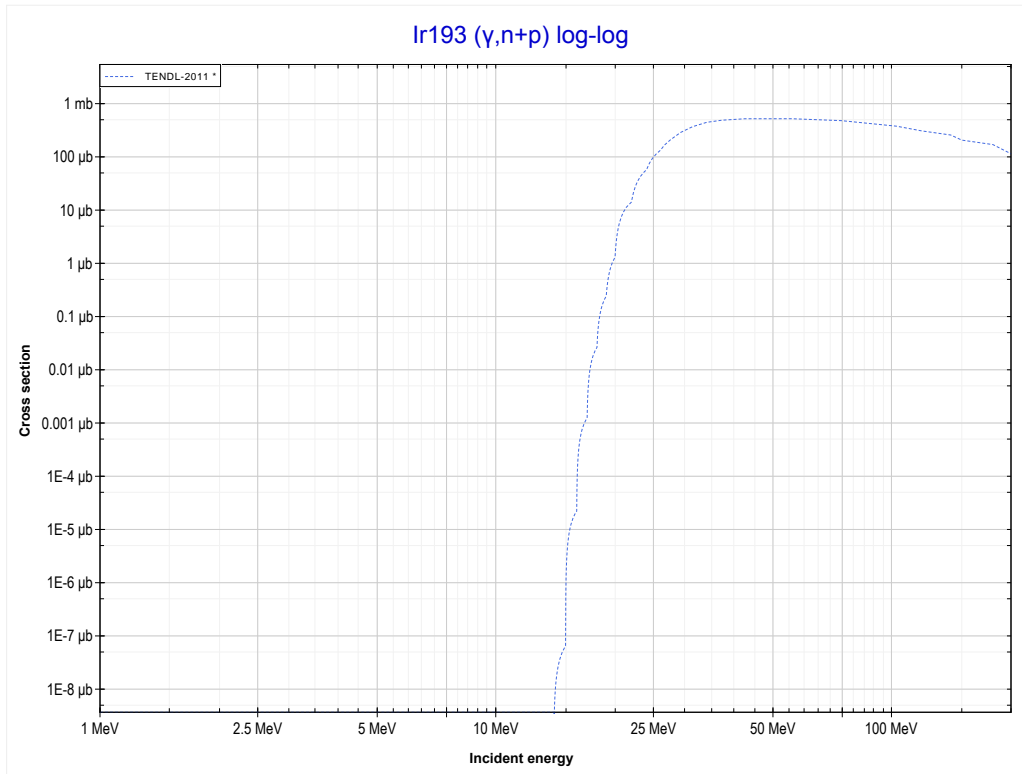
Reaction	Q-Value
Ir193(γ, n)Ir192	-7771.92 keV

<< 77-Ir-191	77-Ir-193	78-Pt-194 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Ir191 production)	MT28 ($\gamma,n+p$) >>



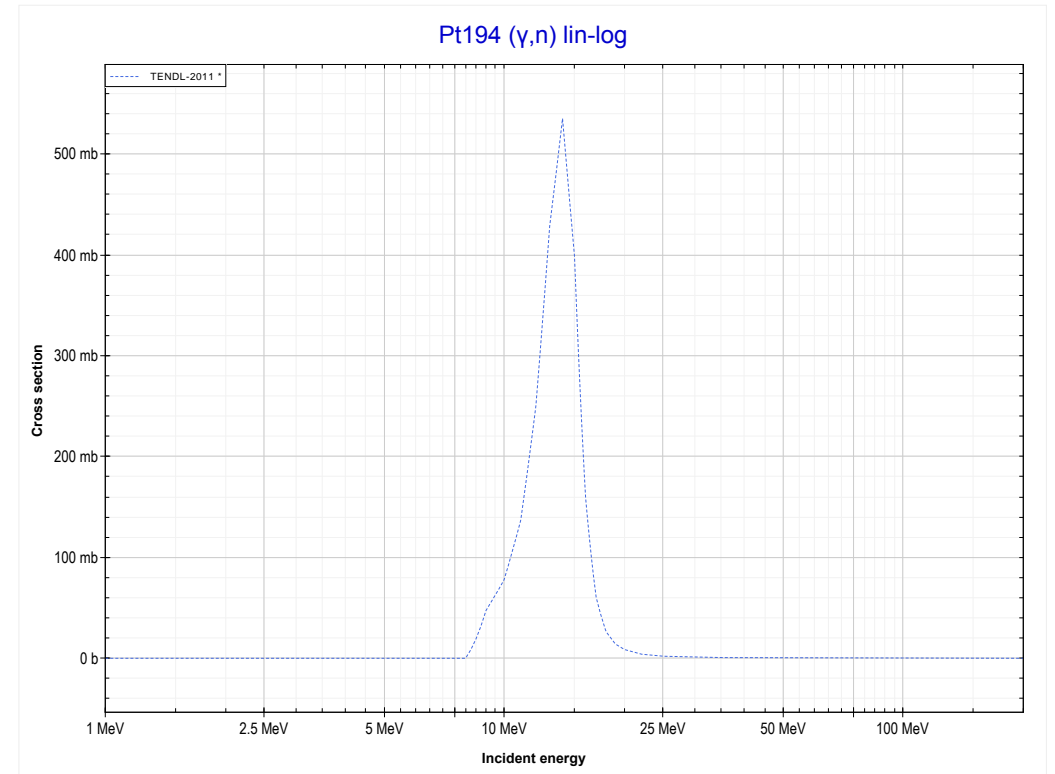
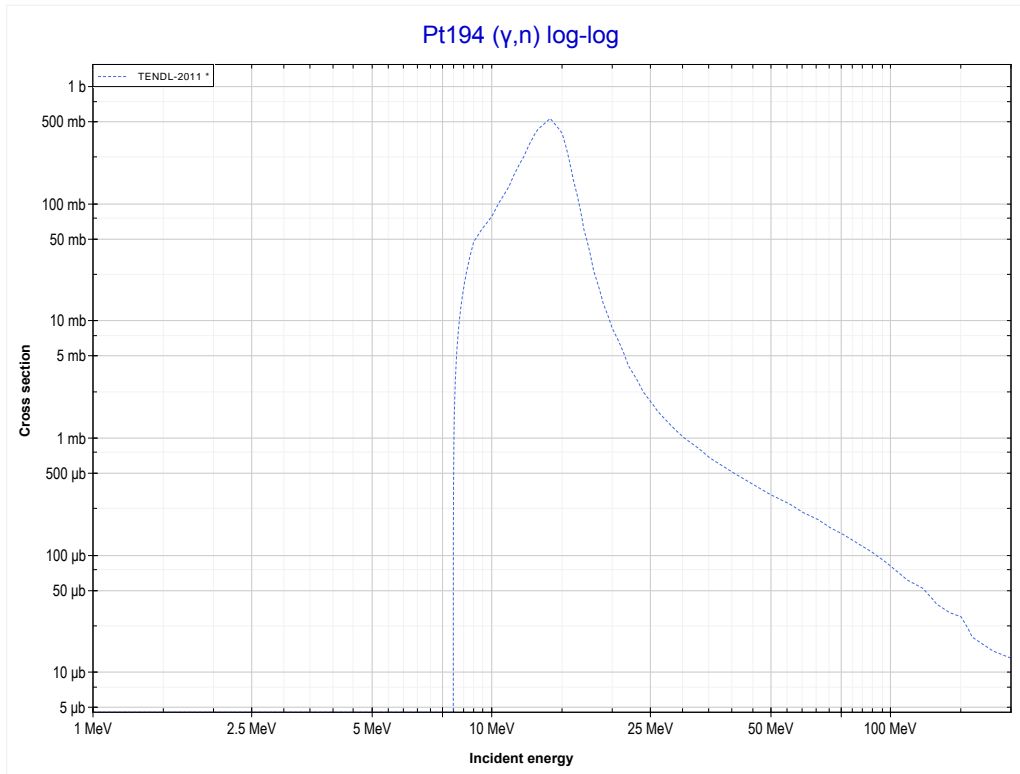
Reaction	Q-Value
Ir193($\gamma,2n$)Ir191	-13970.03 keV

<< 77-Ir-191	77-Ir-193	78-Pt-194 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Os191 production)	MT4 (γ,n) >>



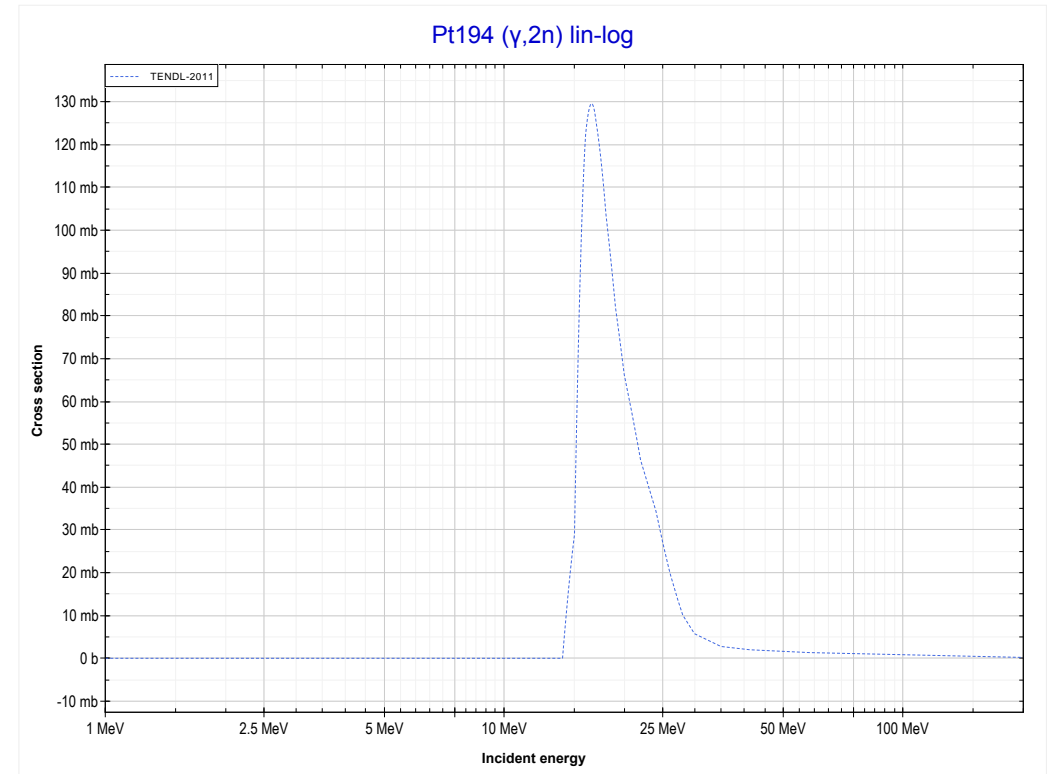
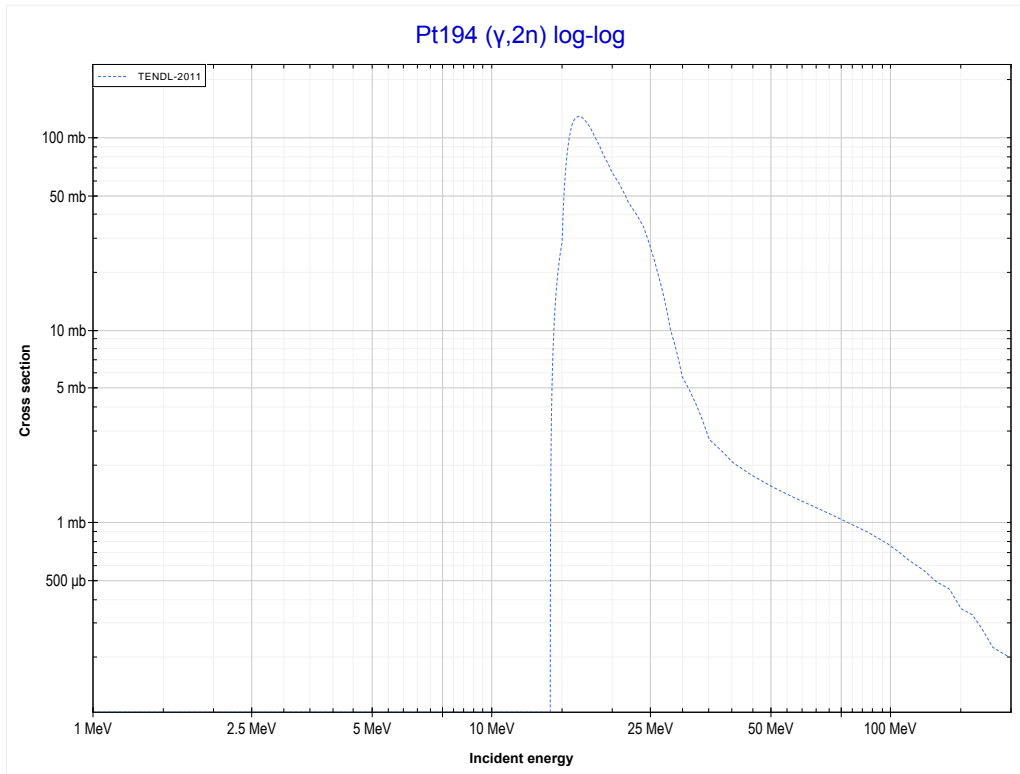
Reaction	Q-Value
Ir193(γ,d)Os191	-11275.82 keV
Ir193($\gamma,n+p$)Os191	-13500.39 keV

<< 77-Ir-193	78-Pt-194	78-Pt-196 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Pt193 production)	MT16 ($\gamma, 2n$) >>



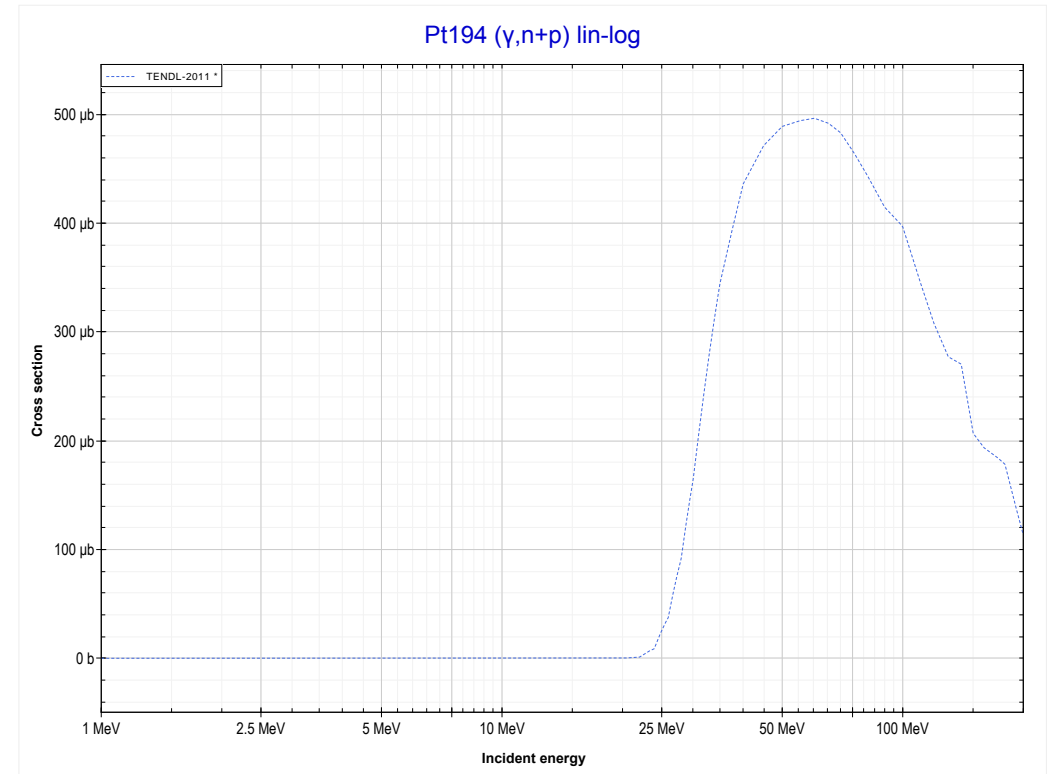
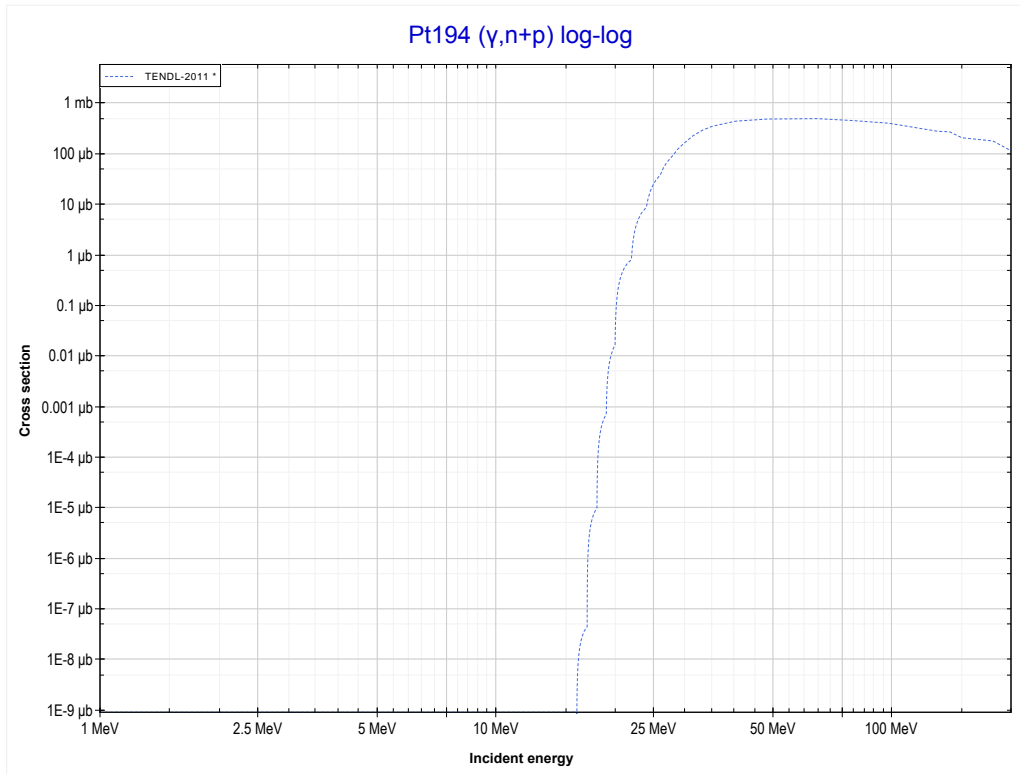
Reaction	Q-Value
Pt194(γ, n)Pt193	-8357.42 keV

<< 77-Ir-193	78-Pt-194	78-Pt-196 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Pt192 production)	MT28 ($\gamma,n+p$) >>



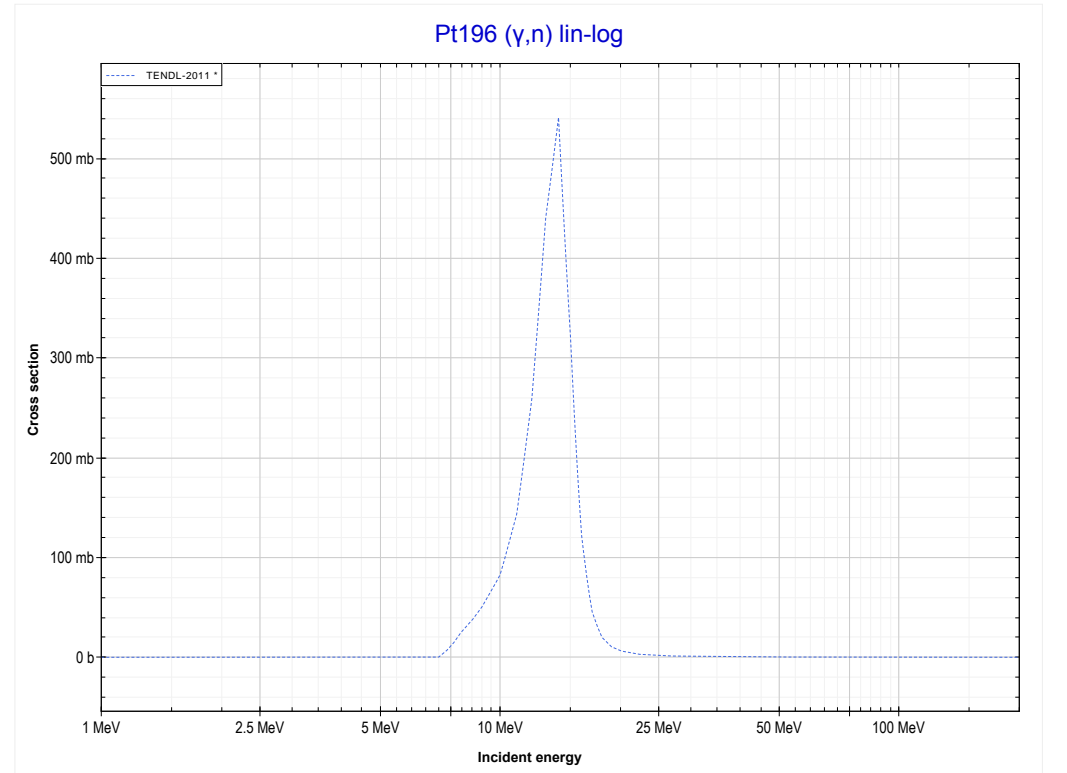
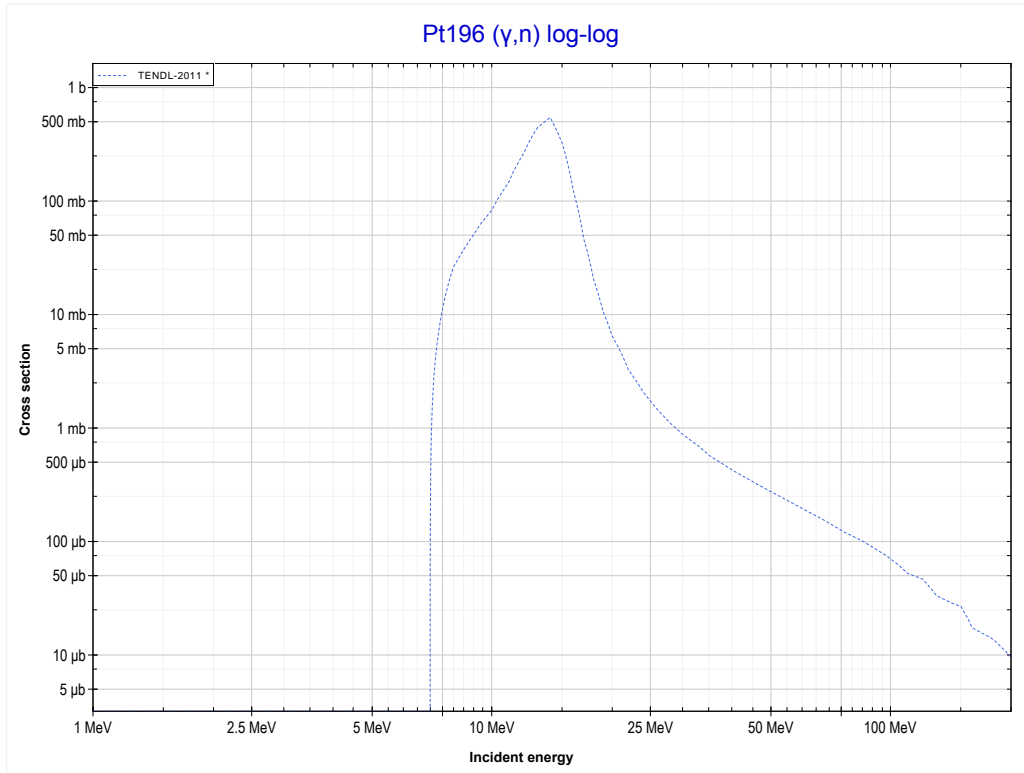
Reaction	Q-Value
Pt194($\gamma,2n$)Pt192	-14612.83 keV

<< 77-Ir-193	78-Pt-194	78-Pt-196 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ir192 production)	MT4 (γ,n) >>



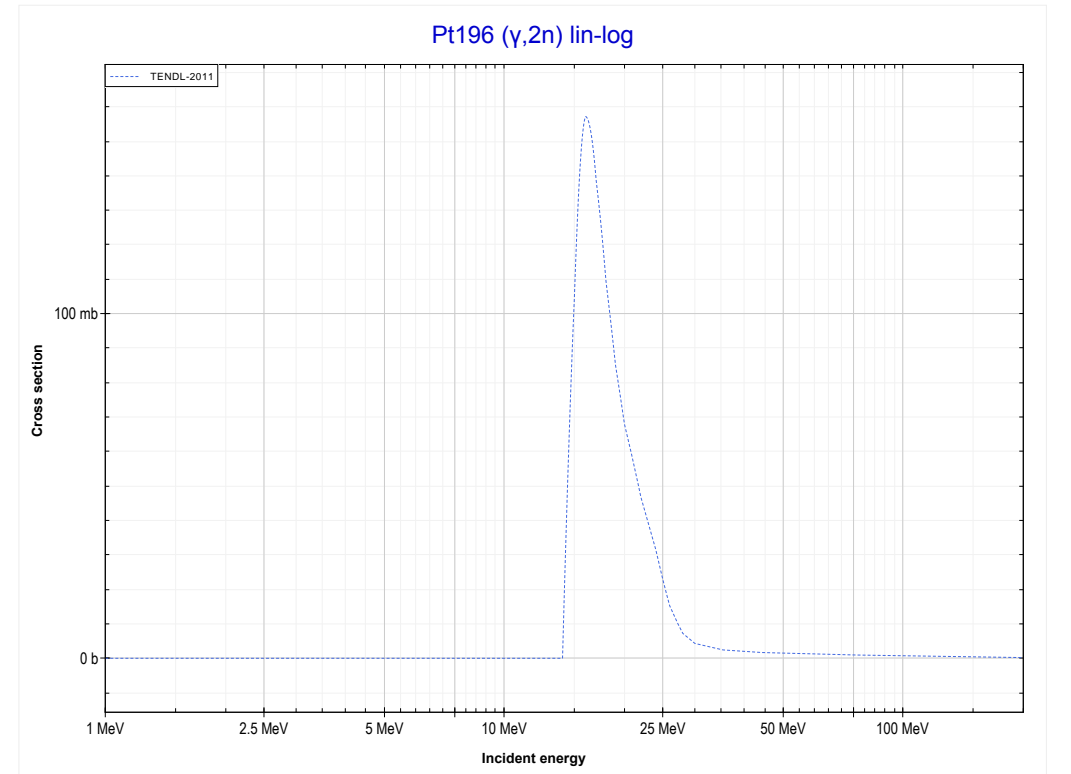
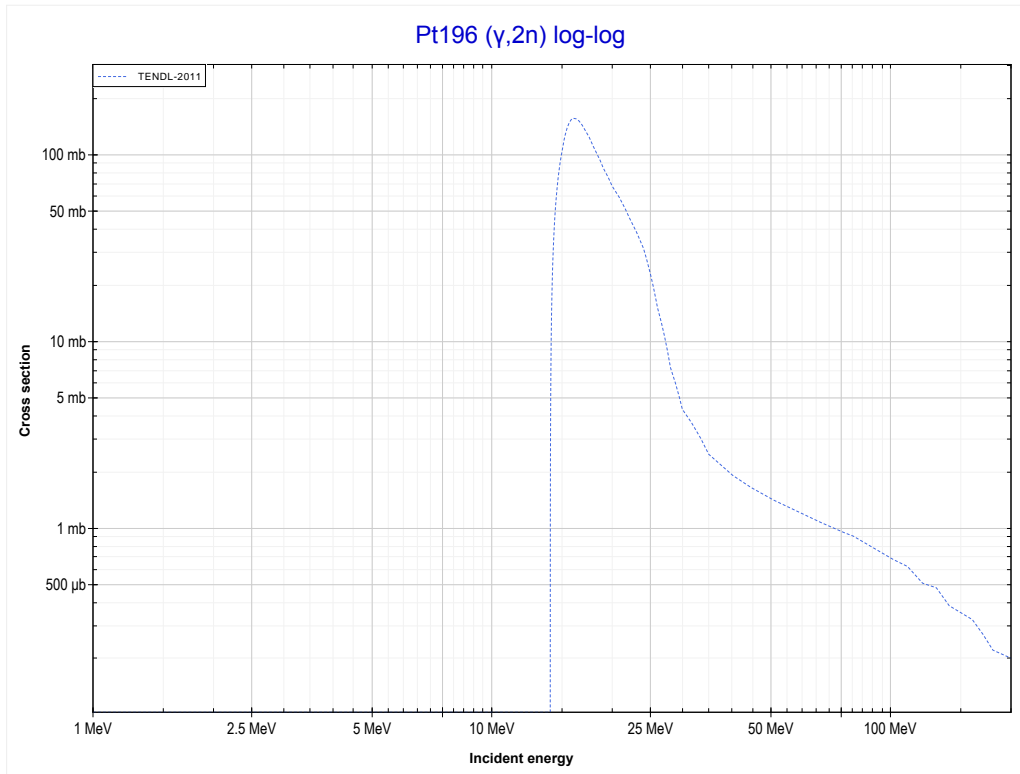
Reaction	Q-Value
Pt194(γ,d)Ir192	-13065.62 keV
Pt194($\gamma,n+p$)Ir192	-15290.19 keV

<< 78-Pt-194	78-Pt-196	79-Au-197 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Pt195 production)	MT16 ($\gamma, 2n$) >>



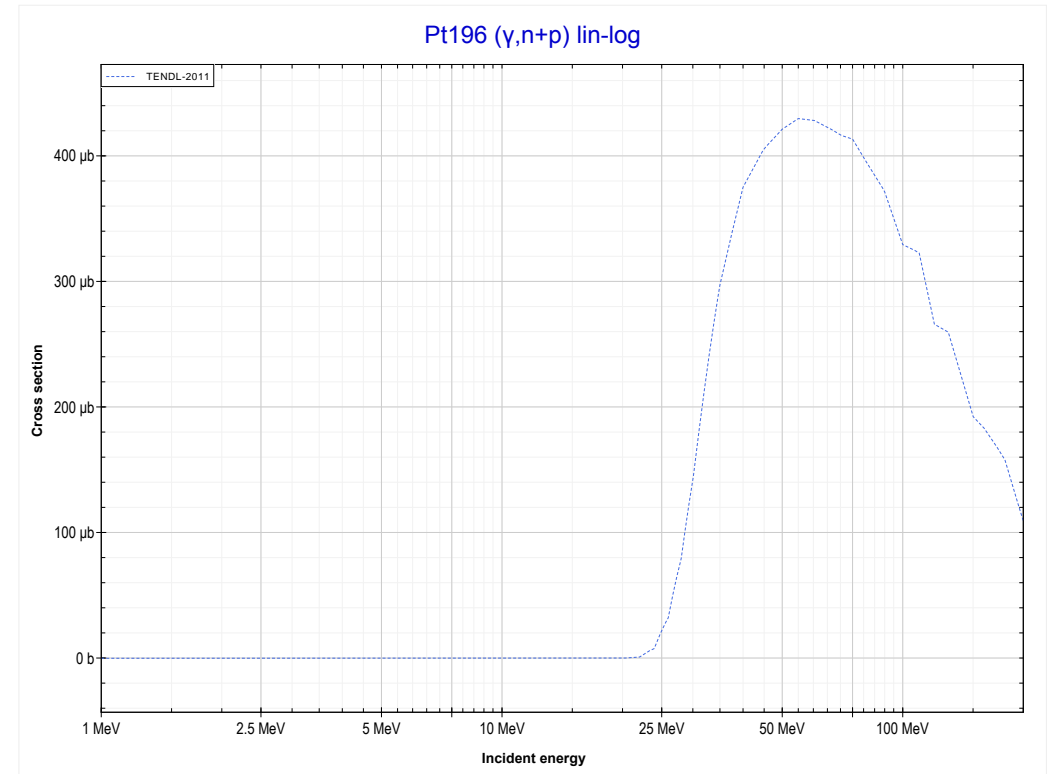
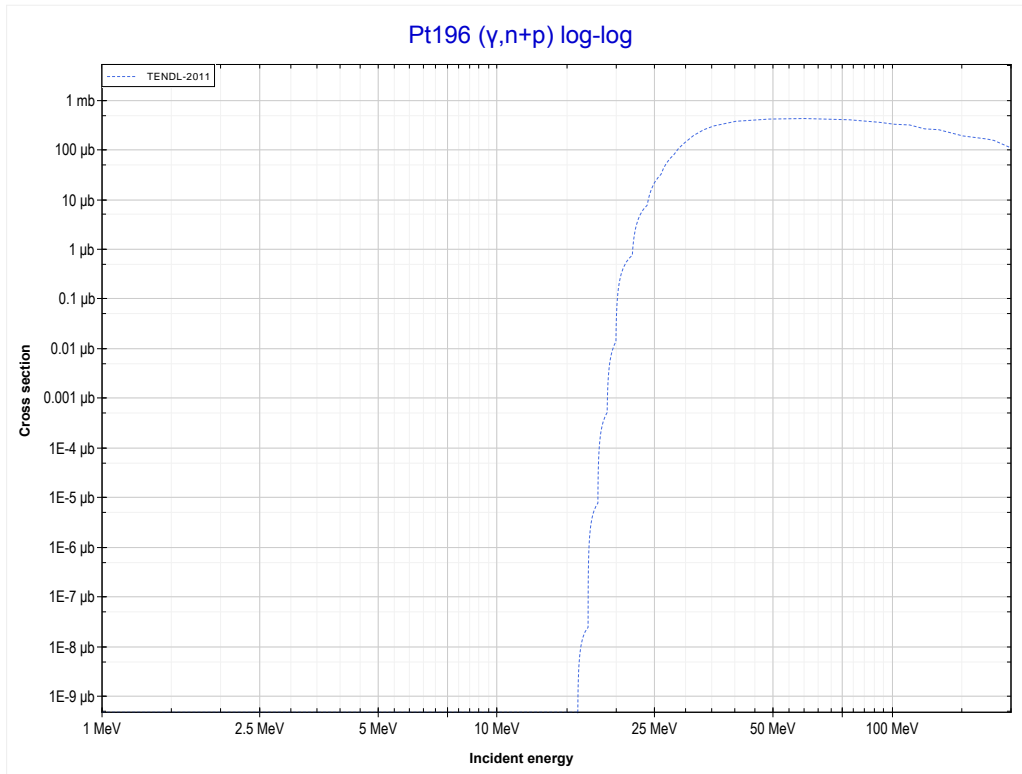
Reaction	Q-Value
Pt196(γ, n)Pt195	-7921.92 keV

<< 78-Pt-194	78-Pt-196	79-Au-197 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Pt194 production)	MT28 ($\gamma, n+p$) >>



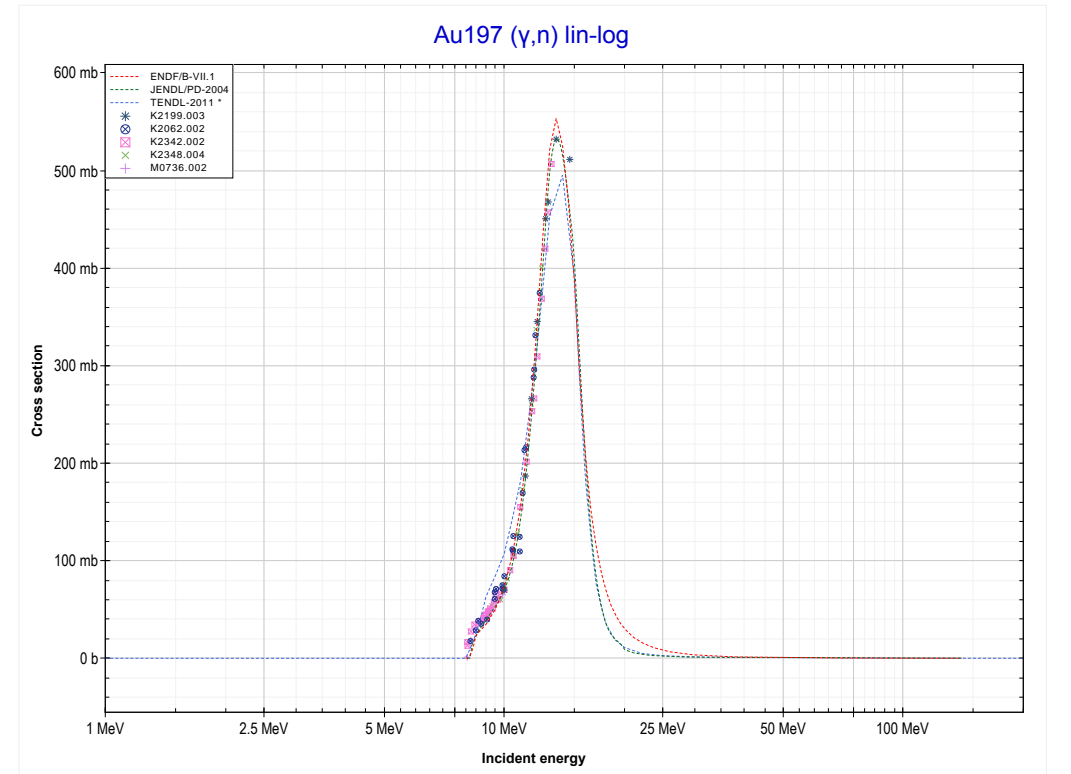
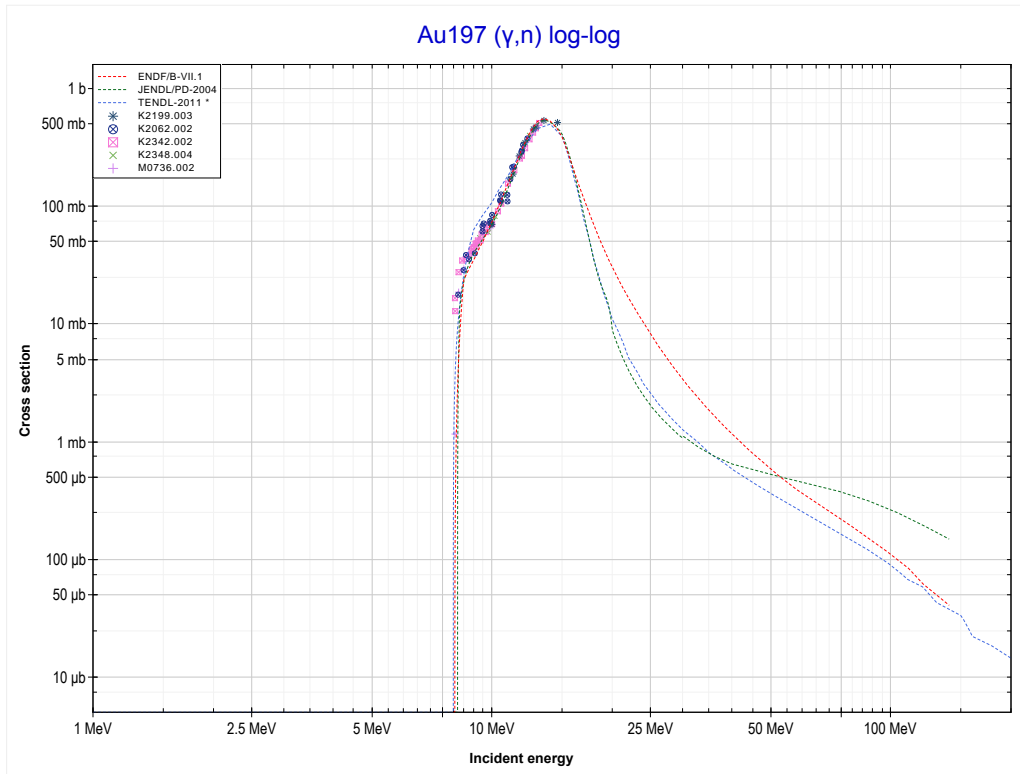
Reaction	Q-Value
Pt196($\gamma, 2n$)Pt194	-14026.93 keV

<< 78-Pt-194	78-Pt-196	79-Au-197 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (Ir194 production)	MT4 (γ,n) >>



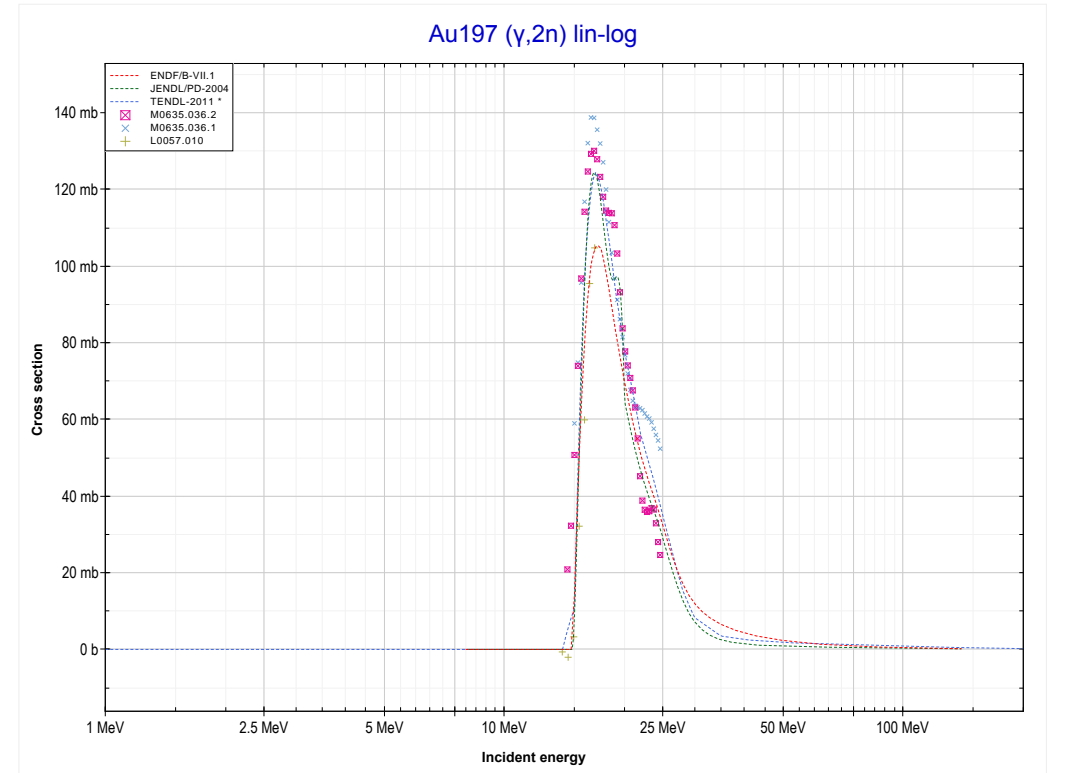
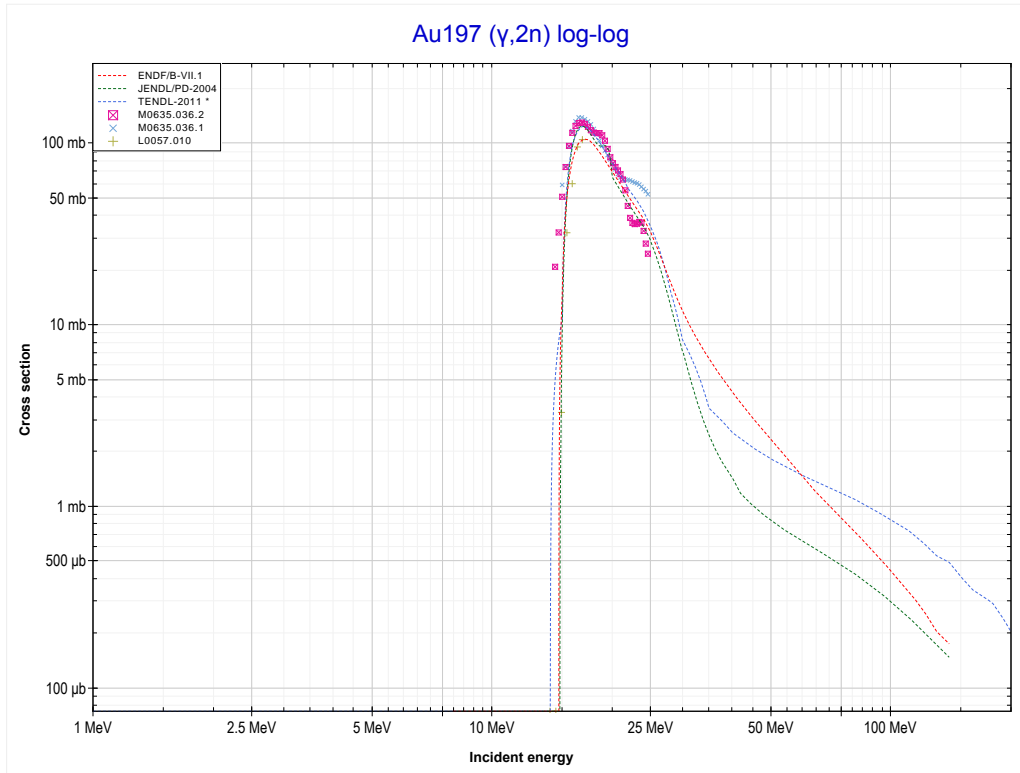
Reaction	Q-Value
Pt196(γ,d)Ir194	-13253.82 keV
Pt196($\gamma,n+p$)Ir194	-15478.39 keV

<< 78-Pt-196	79-Au-197	80-Hg-198 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Au196 production)	MT16 ($\gamma, 2n$) >>



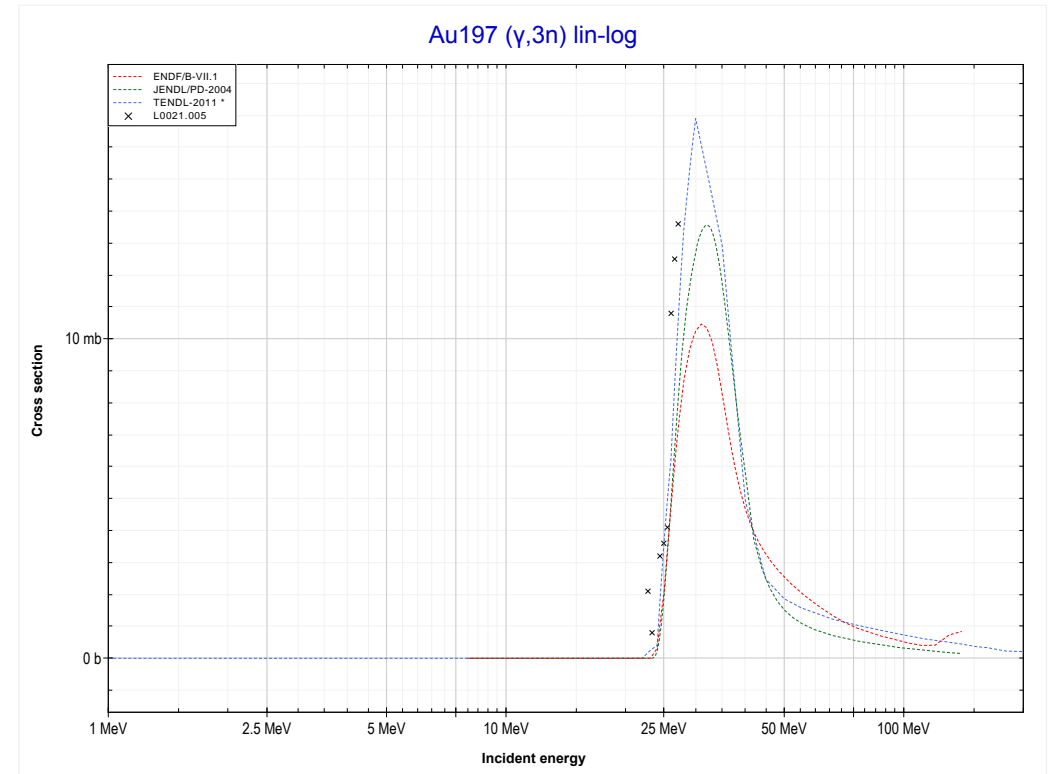
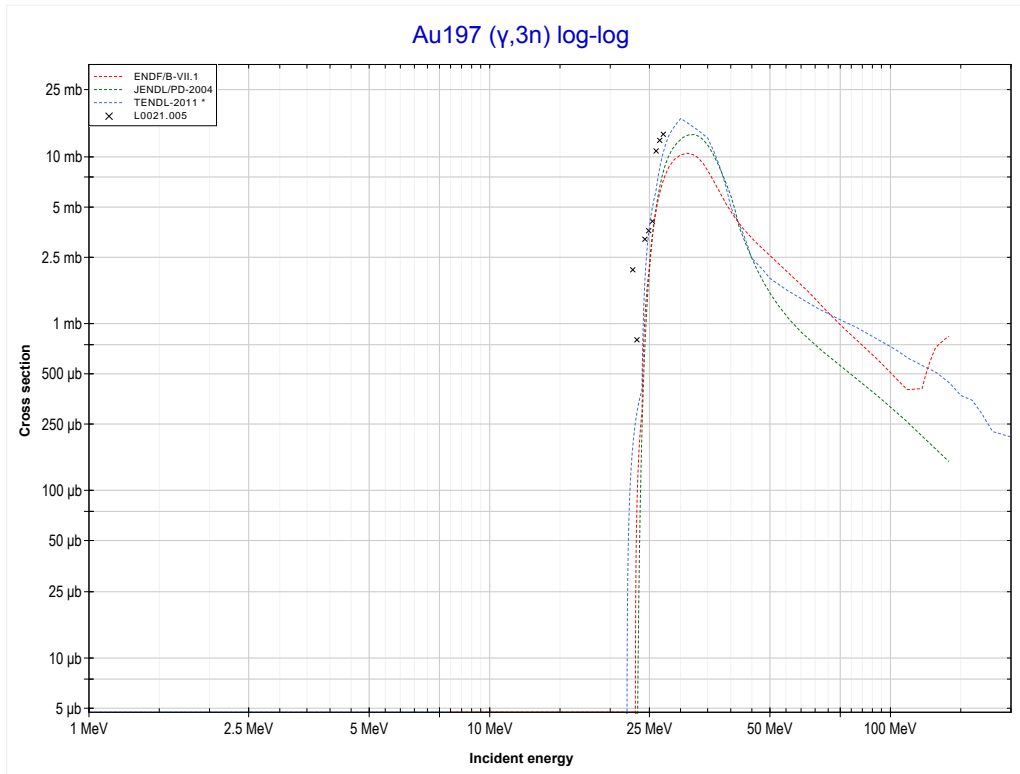
Reaction	Q-Value
Au197(γ, n)Au196	-8072.42 keV

<< 78-Pt-196	79-Au-197	82-Pb-206 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Au195 production)	MT17 ($\gamma,3n$) >>



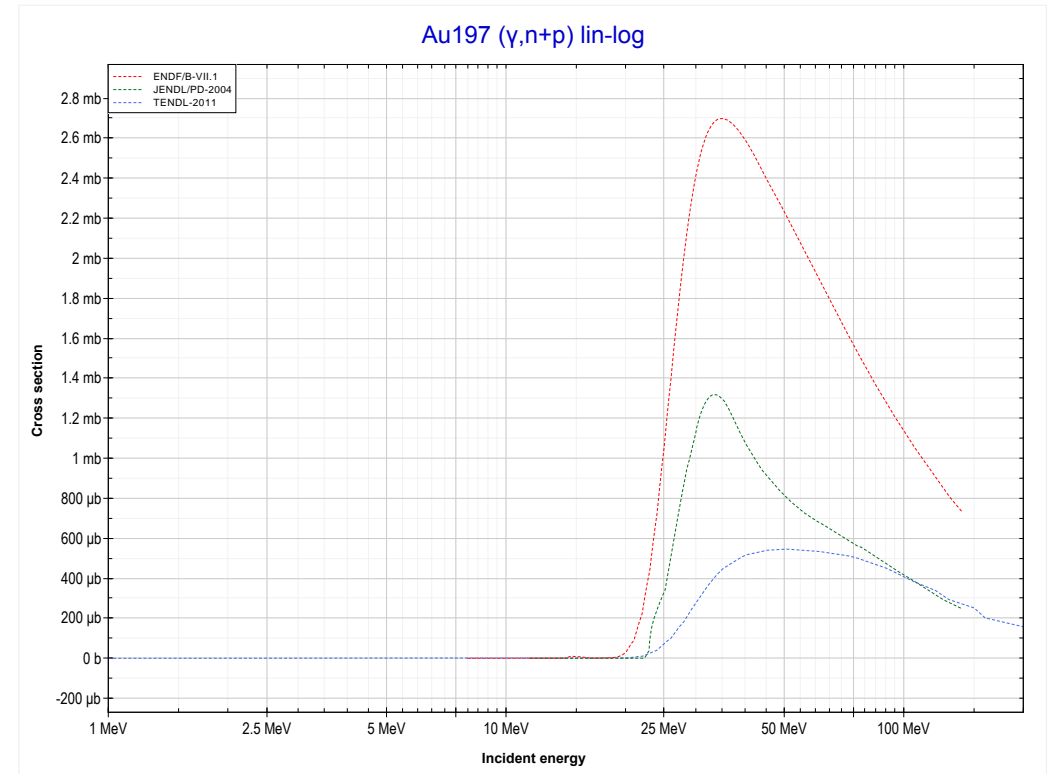
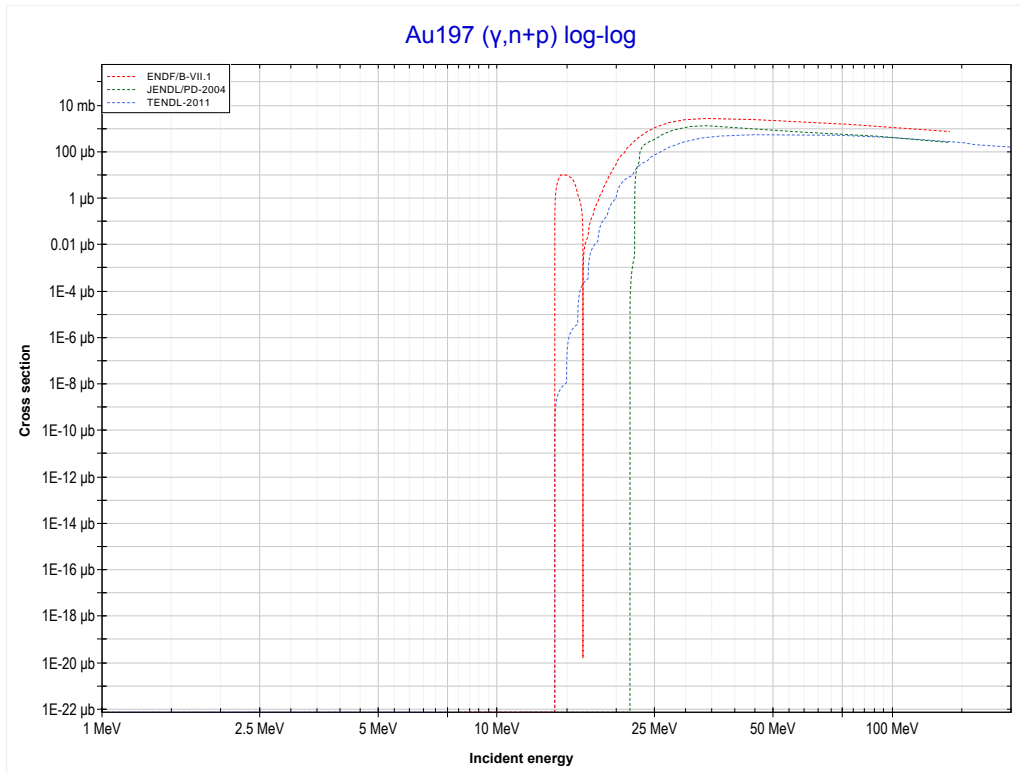
Reaction	Q-Value
Au197($\gamma,2n$)Au195	-14713.73 keV

<< 76-Os-192	79-Au-197	82-Pb-208 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Au194 production)	MT28 ($\gamma,n+p$) >>



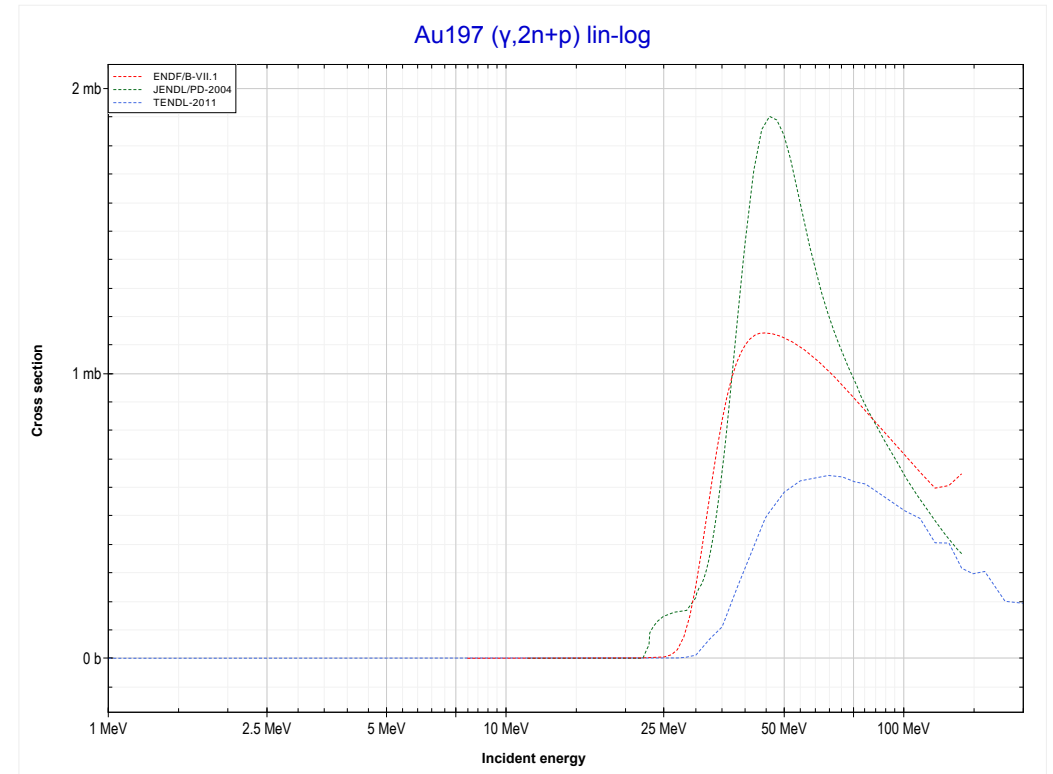
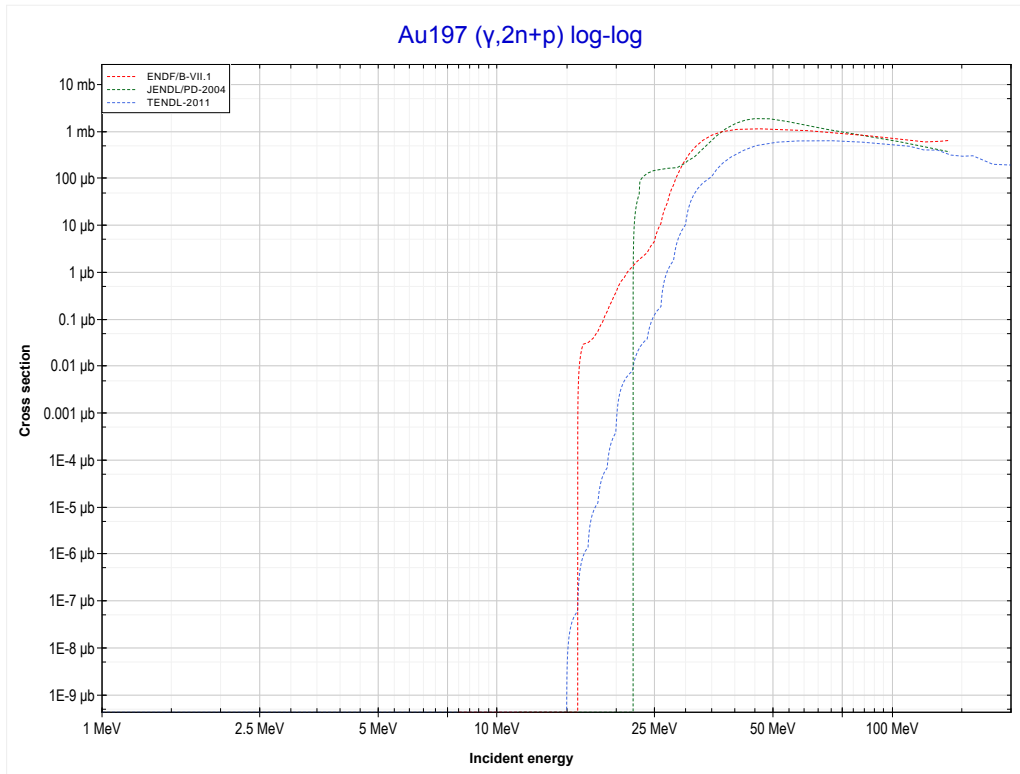
Reaction	Q-Value
Au197($\gamma,3n$)Au194	-23093.05 keV

<< 78-Pt-196	79-Au-197	82-Pb-206 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (Pt195 production)	MT41 ($\gamma,2n+p$) >>



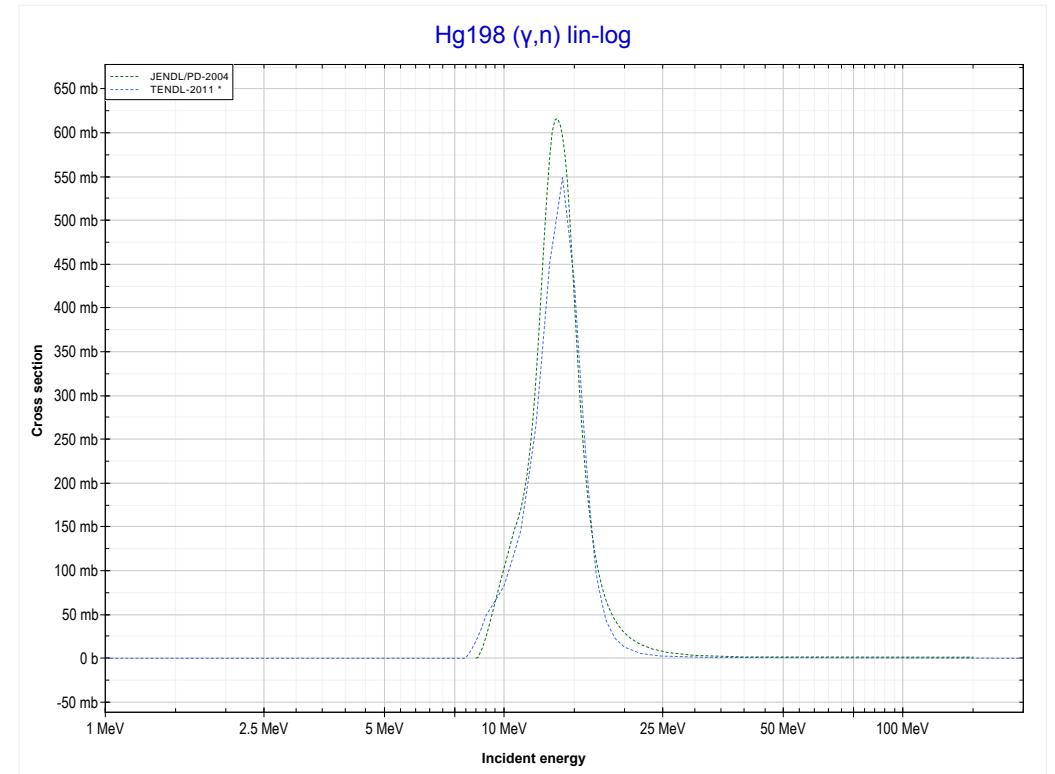
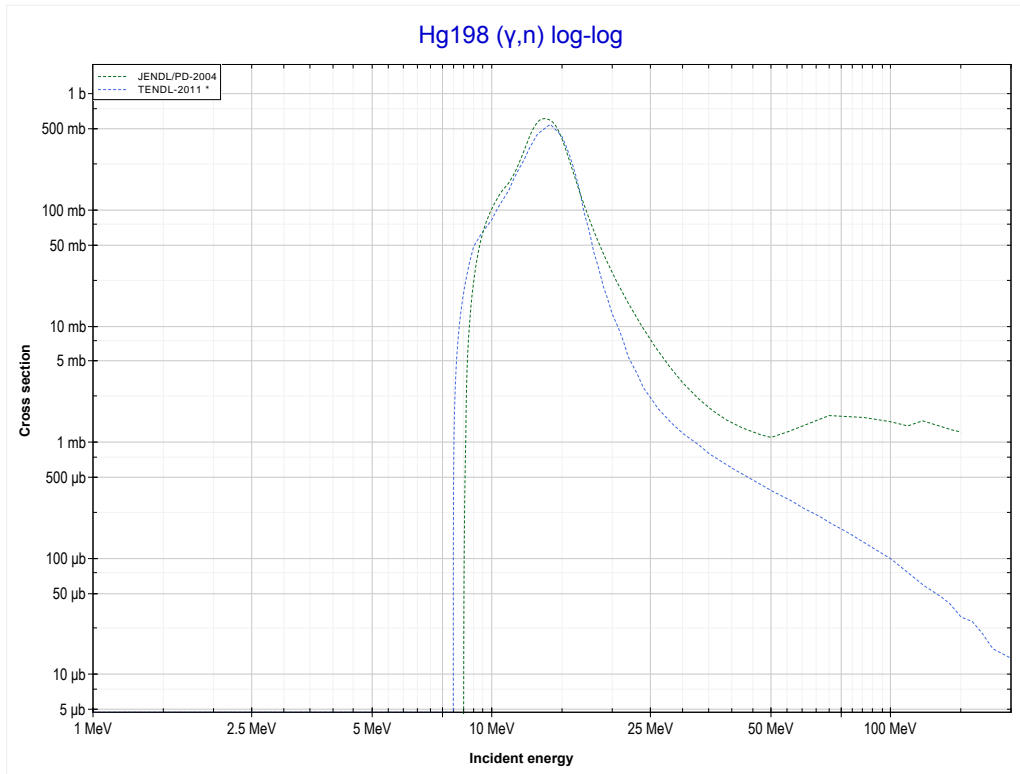
Reaction	Q-Value
Au197(γ,d)Pt195	-11480.02 keV
Au197($\gamma,n+p$)Pt195	-13704.59 keV

<< 76-Os-192	79-Au-197	82-Pb-206 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (Pt194 production)	MT4 (γ, n) >>



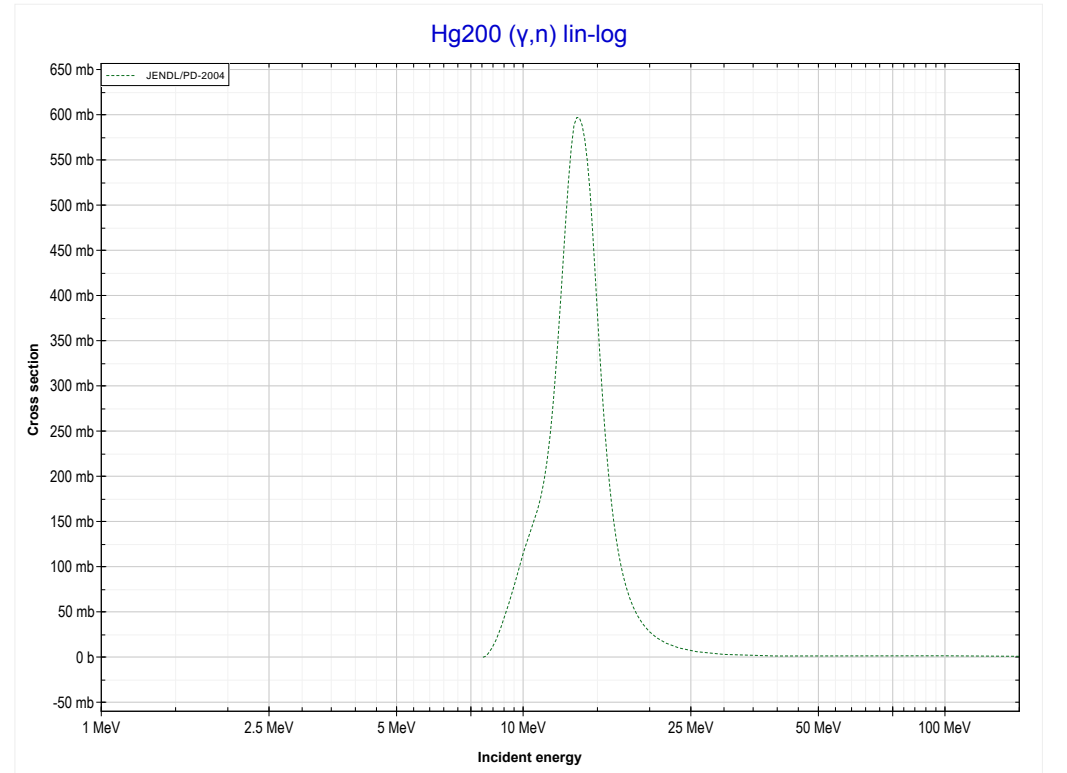
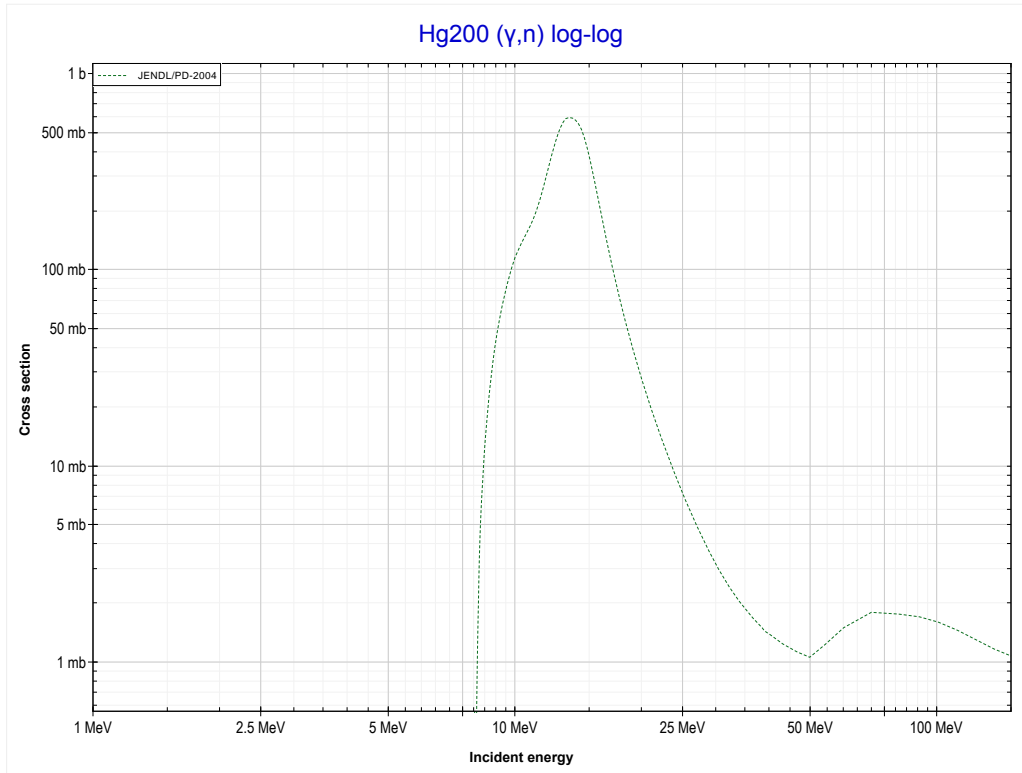
Reaction	Q-Value
Au197(γ, t)Pt194	-11327.81 keV
Au197($\gamma, n+d$)Pt194	-17585.04 keV
Au197($\gamma, 2n+p$)Pt194	-19809.60 keV

<< 79-Au-197	80-Hg-198	80-Hg-200 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Hg197 production)	MT4 (γ,n) >>



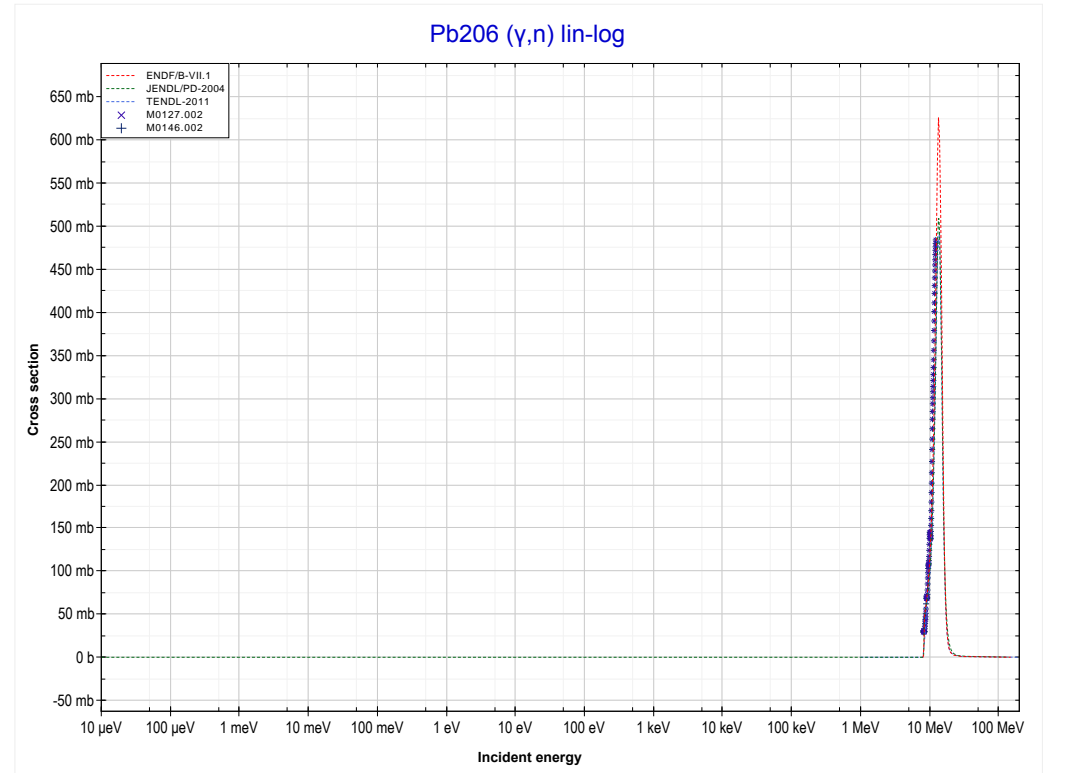
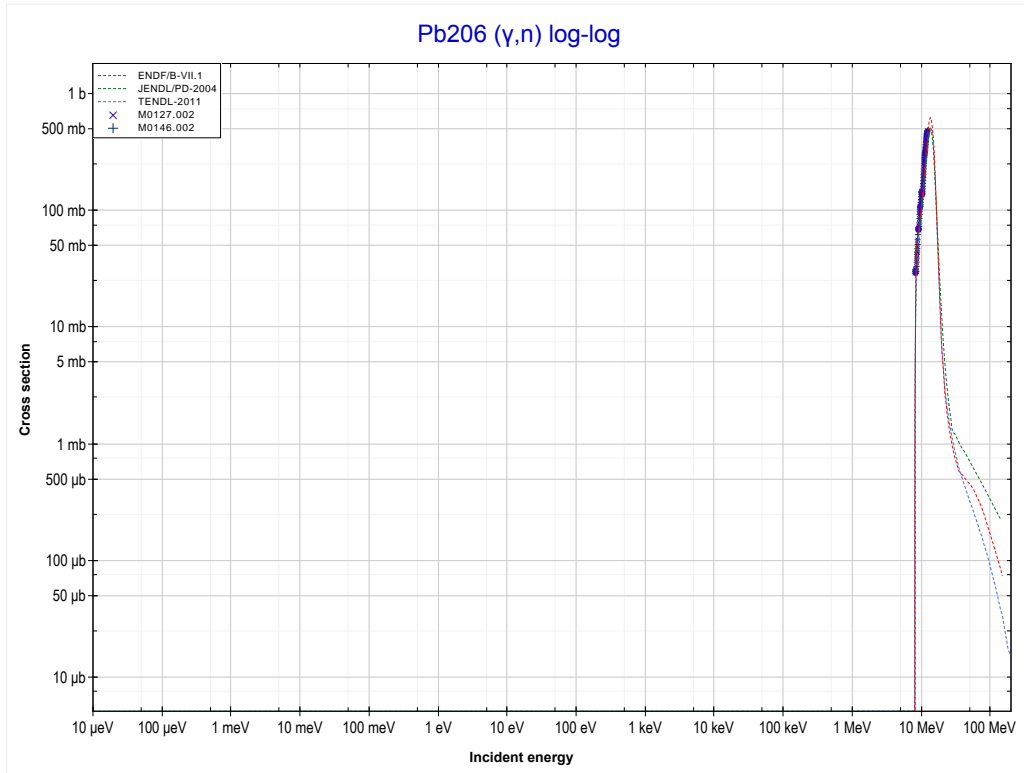
Reaction	Q-Value
Hg198(γ,n)Hg197	-8484.72 keV

<< 80-Hg-198	80-Hg-200	82-Pb-206 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Hg199 production)	MT4 (γ,n) >>



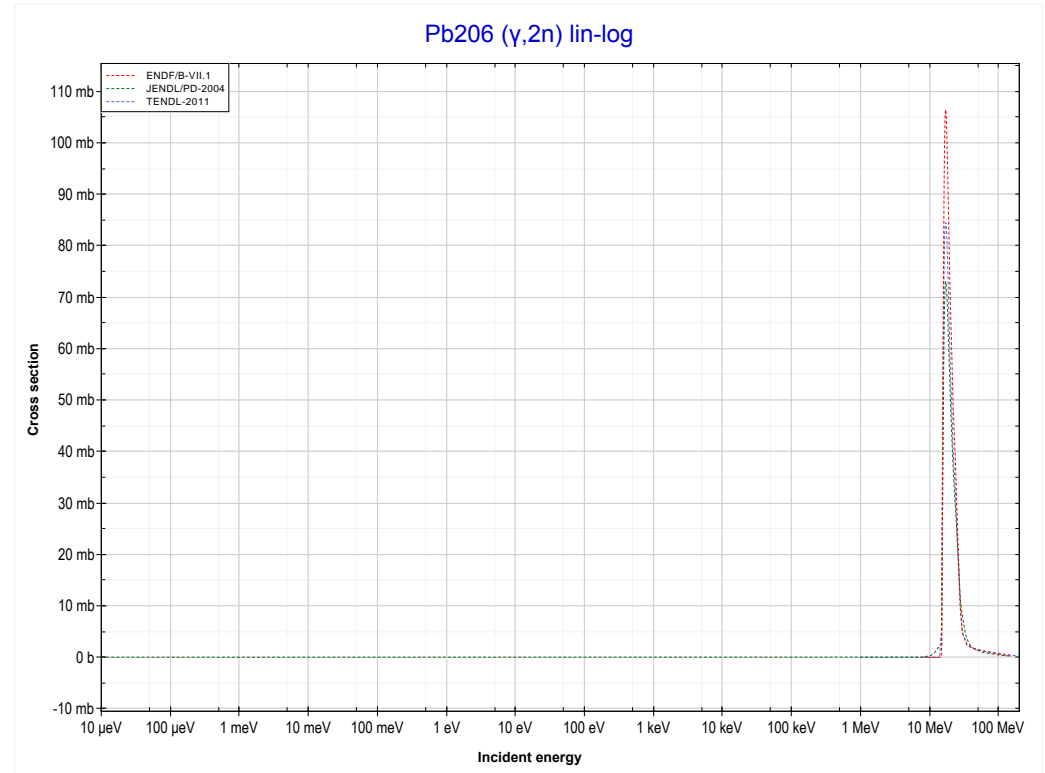
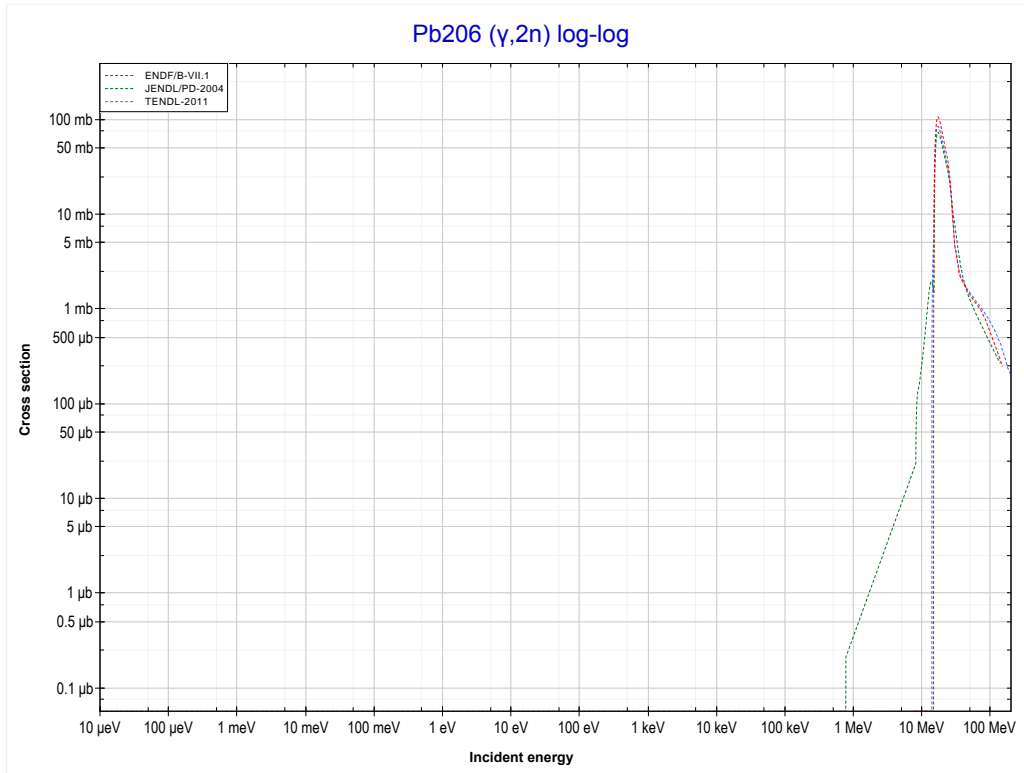
Reaction	Q-Value
Hg200(γ,n)Hg199	-8028.32 keV

<< 80-Hg-200	82-Pb-206	82-Pb-207 >>
<< MT4 (γ,n)	MT4 (γ,n) or MT5 (Pb205 production)	MT16 ($\gamma,2n$) >>



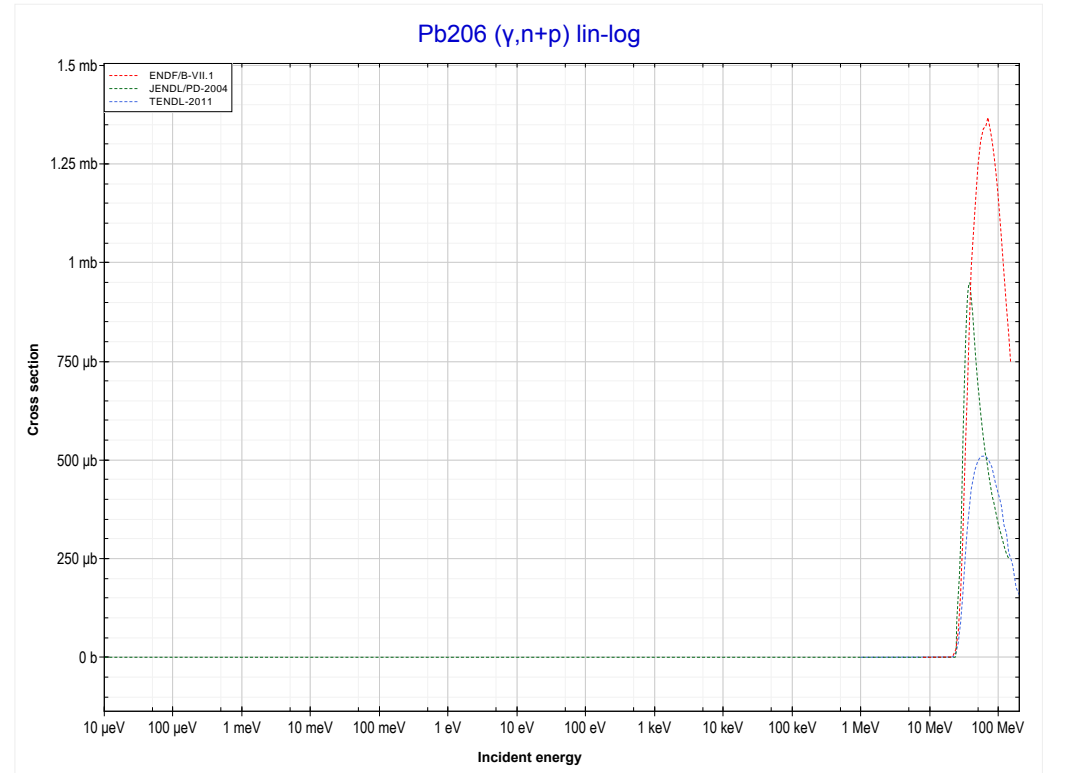
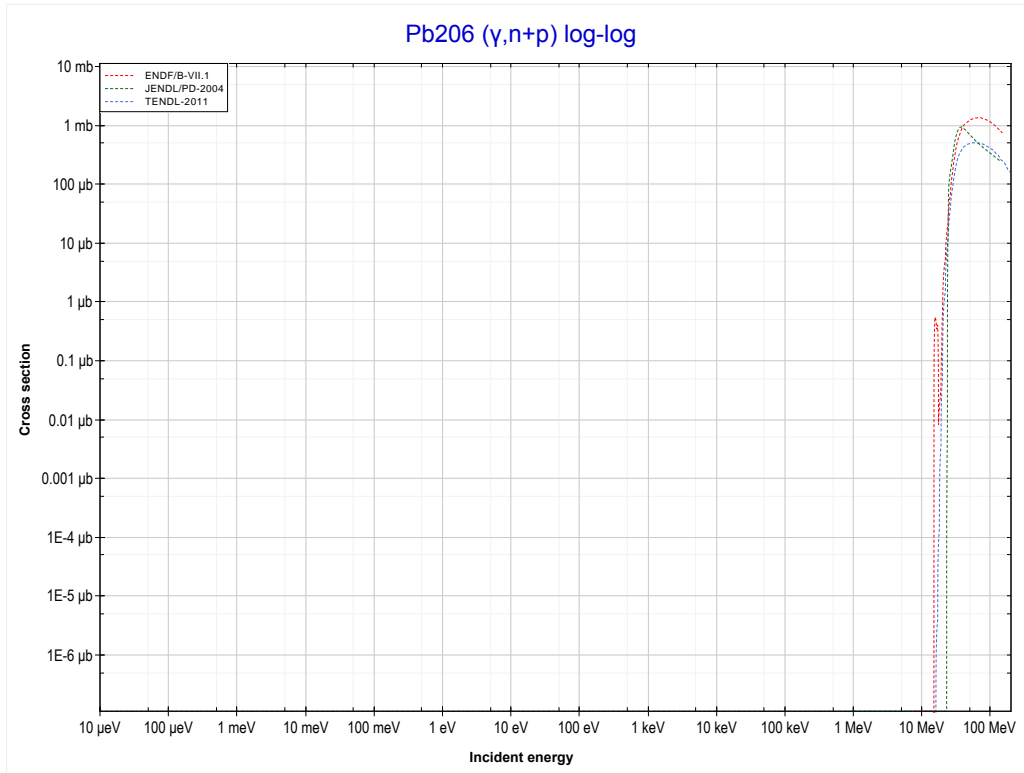
Reaction	Q-Value
Pb206(γ,n)Pb205	-8086.62 keV

<< 79-Au-197	82-Pb-206	82-Pb-207 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Pb204 production)	MT28 ($\gamma, n+p$) >>



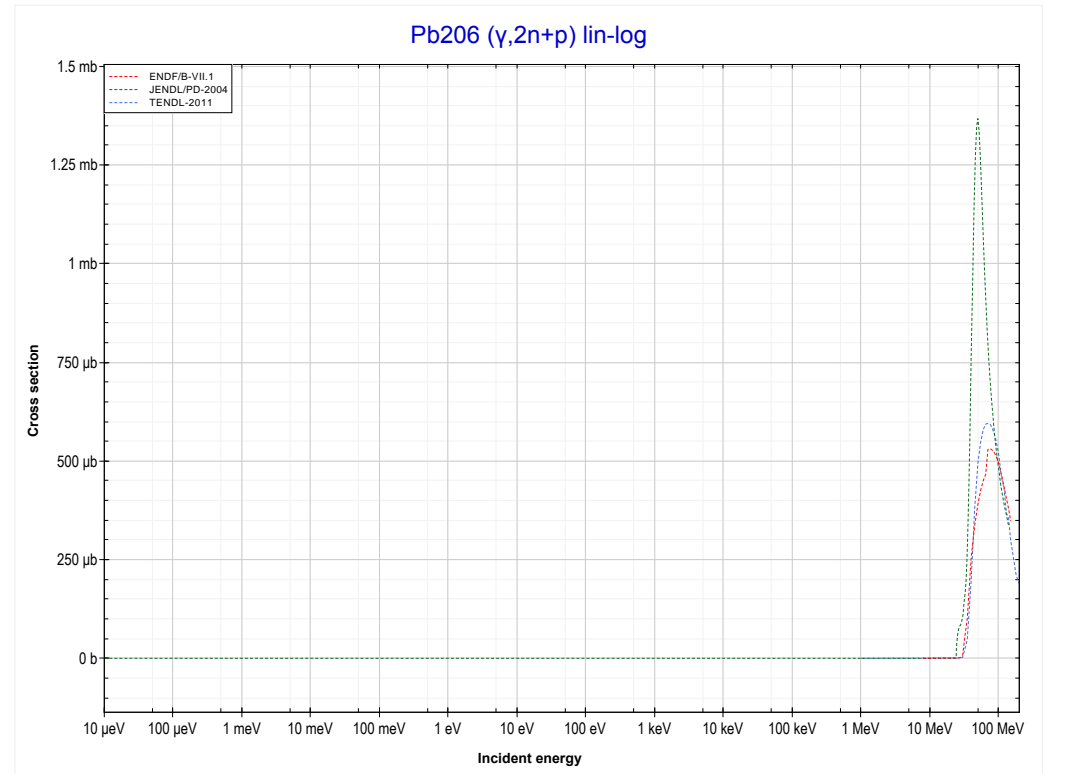
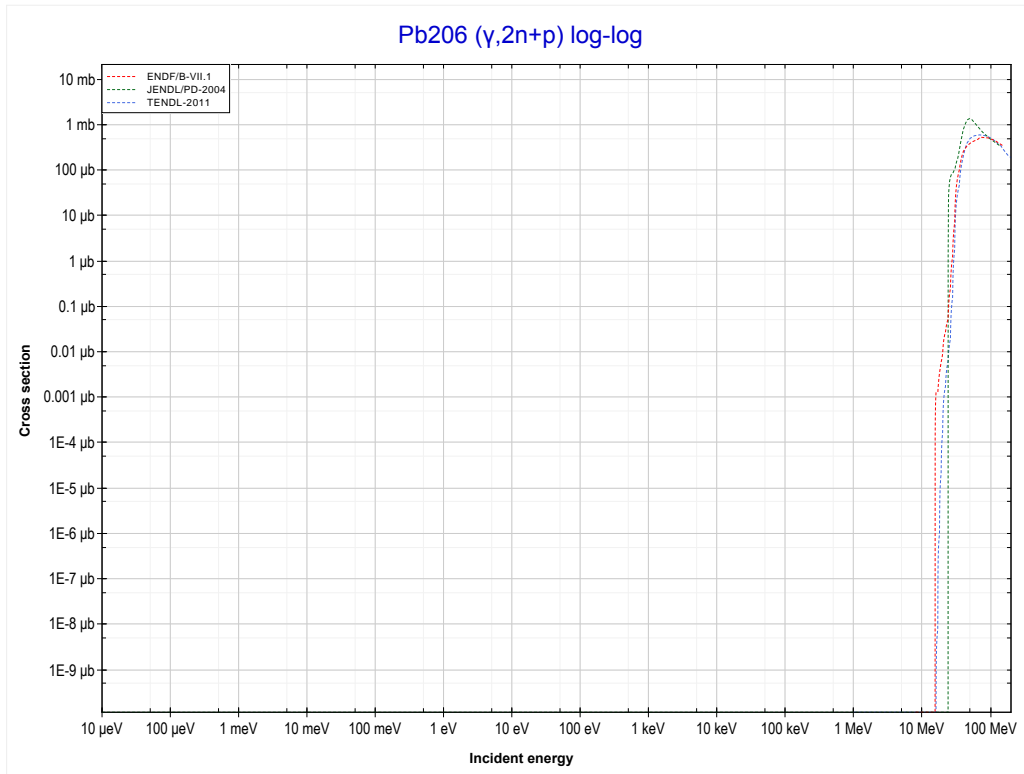
Reaction	Q-Value
Pb206($\gamma, 2n$)Pb204	-14818.33 keV

<< 79-Au-197	82-Pb-206	82-Pb-207 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (TI204 production)	MT41 ($\gamma,2n+p$) >>



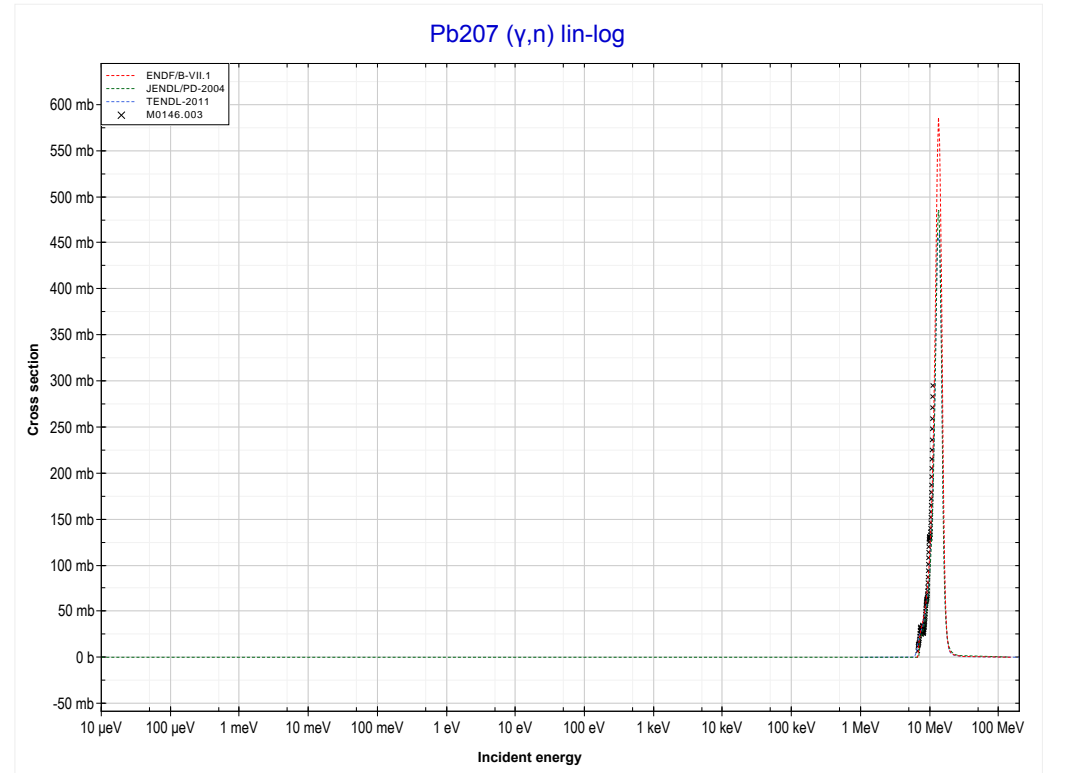
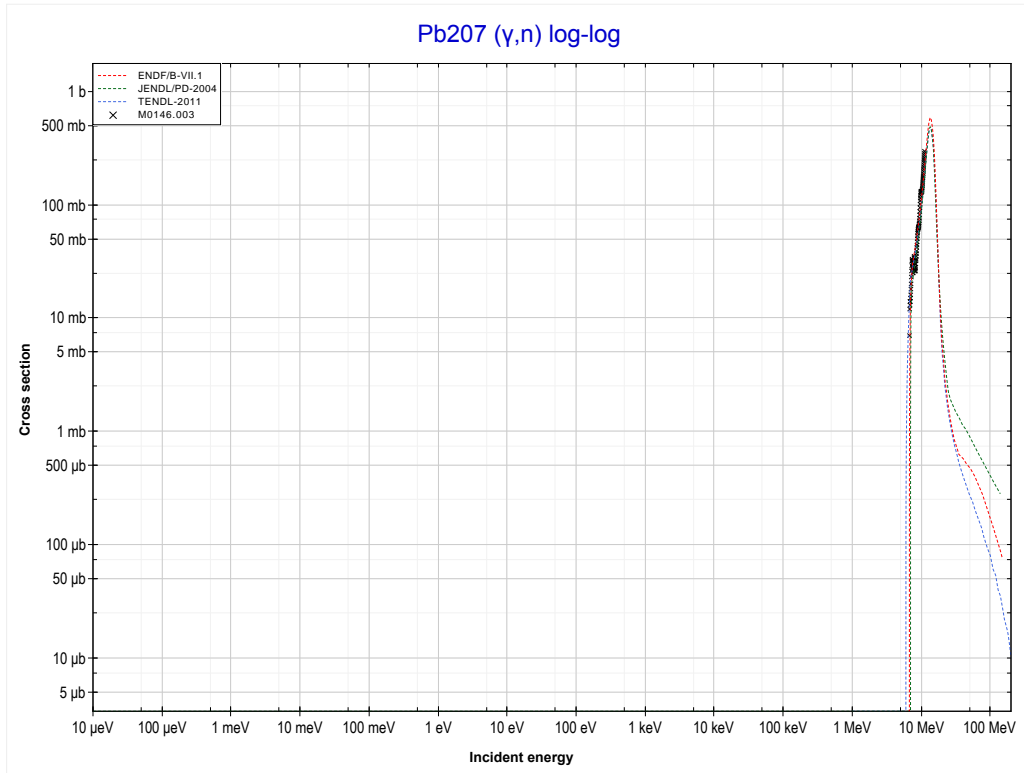
Reaction	Q-Value
Pb206(γ,d)TI204	-12575.12 keV
Pb206($\gamma,n+p$)TI204	-14799.69 keV

<< 79-Au-197	82-Pb-206	82-Pb-207 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (TI203 production)	MT4 (γ, n) >>



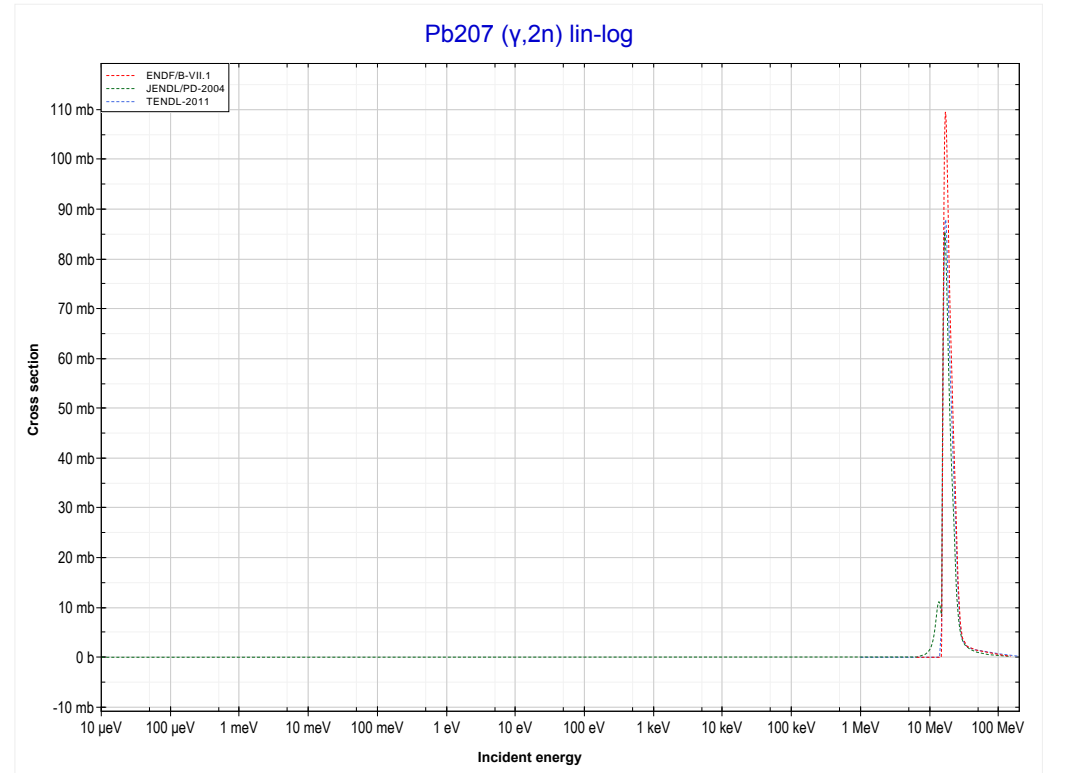
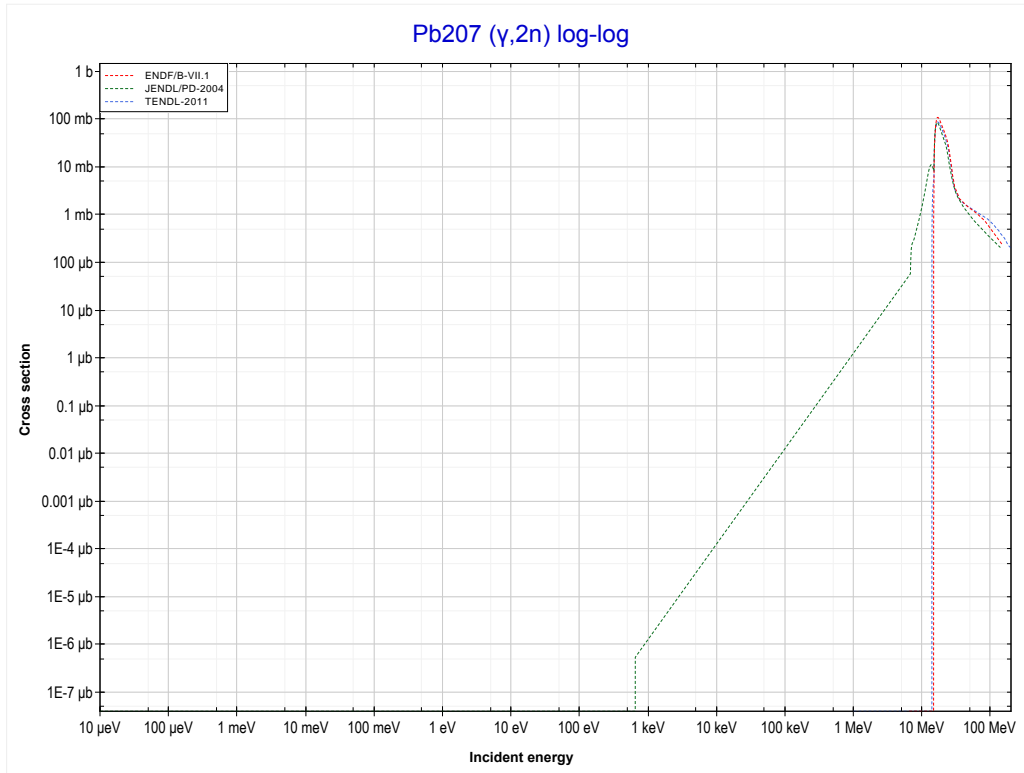
Reaction	Q-Value
Pb206(γ, t)TI203	-12974.01 keV
Pb206($\gamma, n+d$)TI203	-19231.24 keV
Pb206($\gamma, 2n+p$)TI203	-21455.80 keV

<< 82-Pb-206	82-Pb-207	82-Pb-208 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Pb206 production)	MT16 ($\gamma,2n$) >>



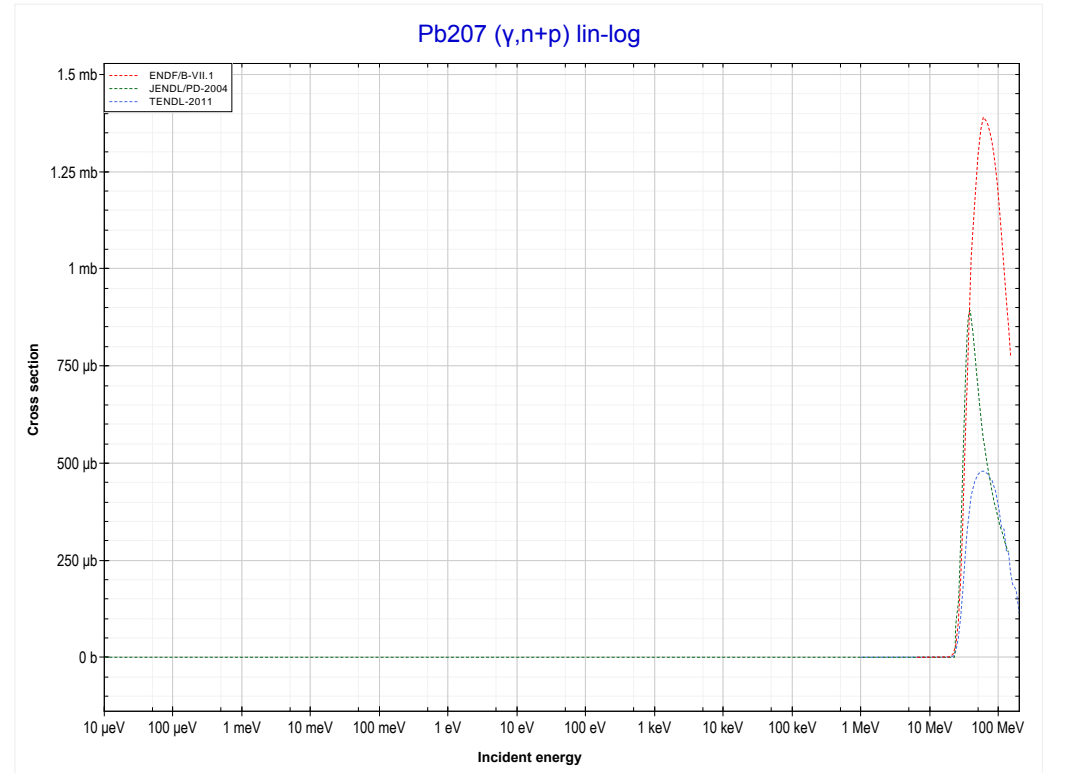
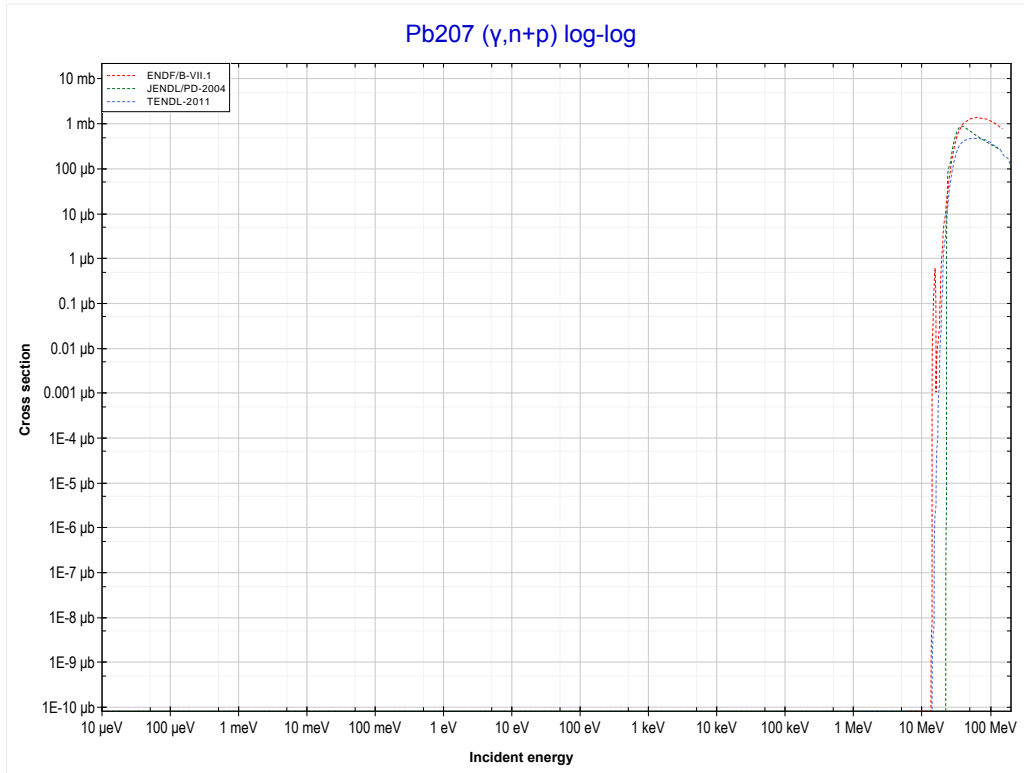
Reaction	Q-Value
Pb207(γ,n)Pb206	-6737.82 keV

<< 82-Pb-206	82-Pb-207	82-Pb-208 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Pb205 production)	MT28 ($\gamma,n+p$) >>



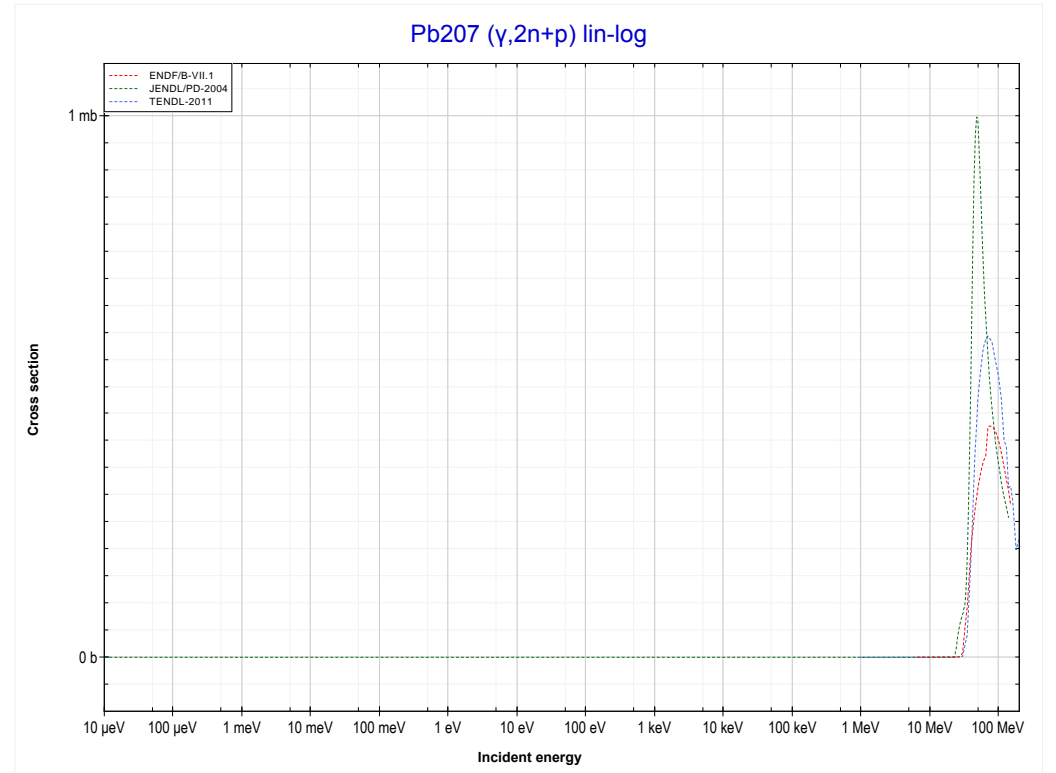
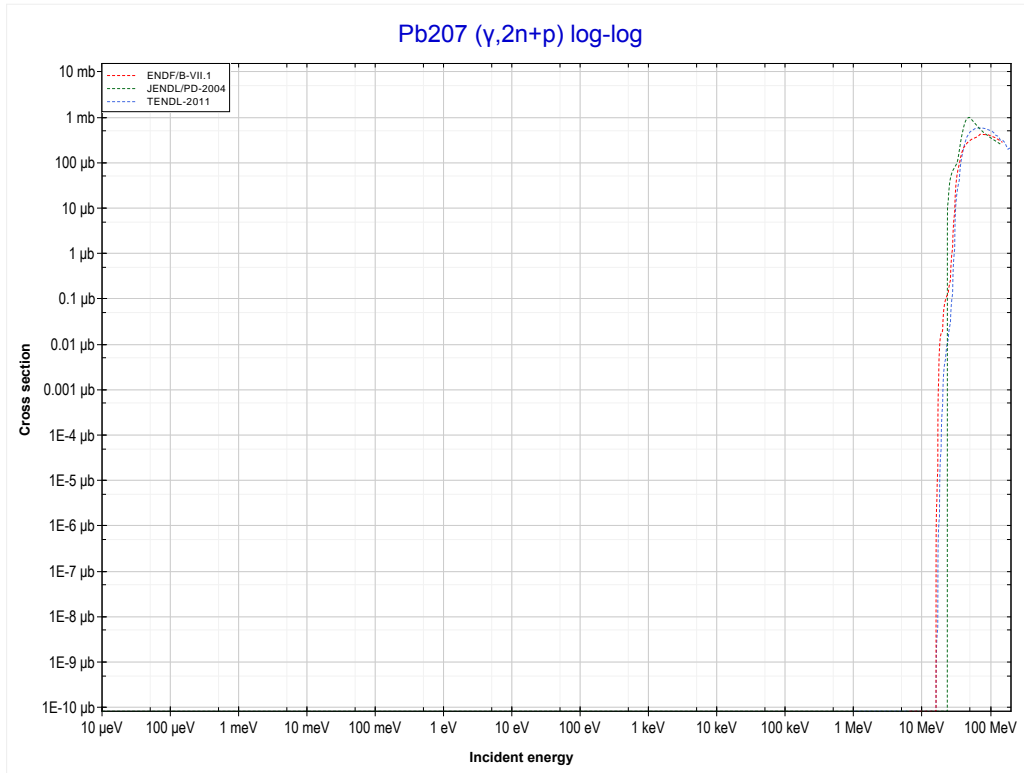
Reaction	Q-Value
Pb207($\gamma,2n$)Pb205	-14824.43 keV

<< 82-Pb-206	82-Pb-207	82-Pb-208 >>
<< MT16 ($\gamma,2n$)	MT28 ($\gamma,n+p$) or MT5 (TI205 production)	MT41 ($\gamma,2n+p$) >>



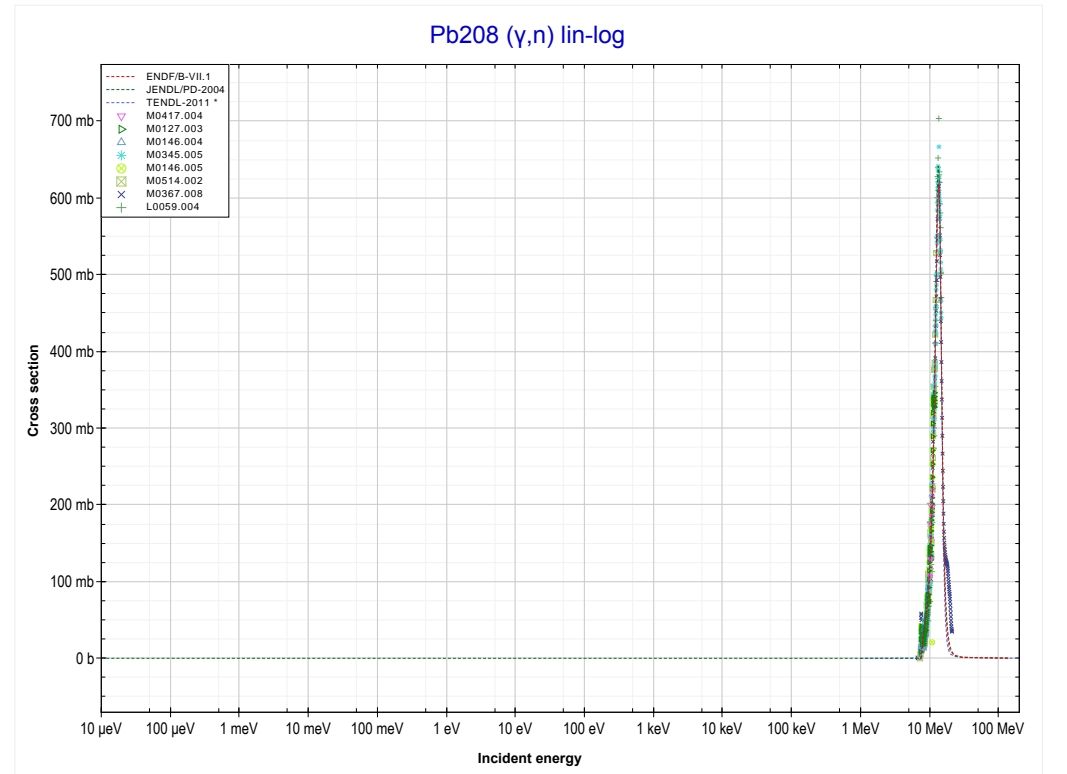
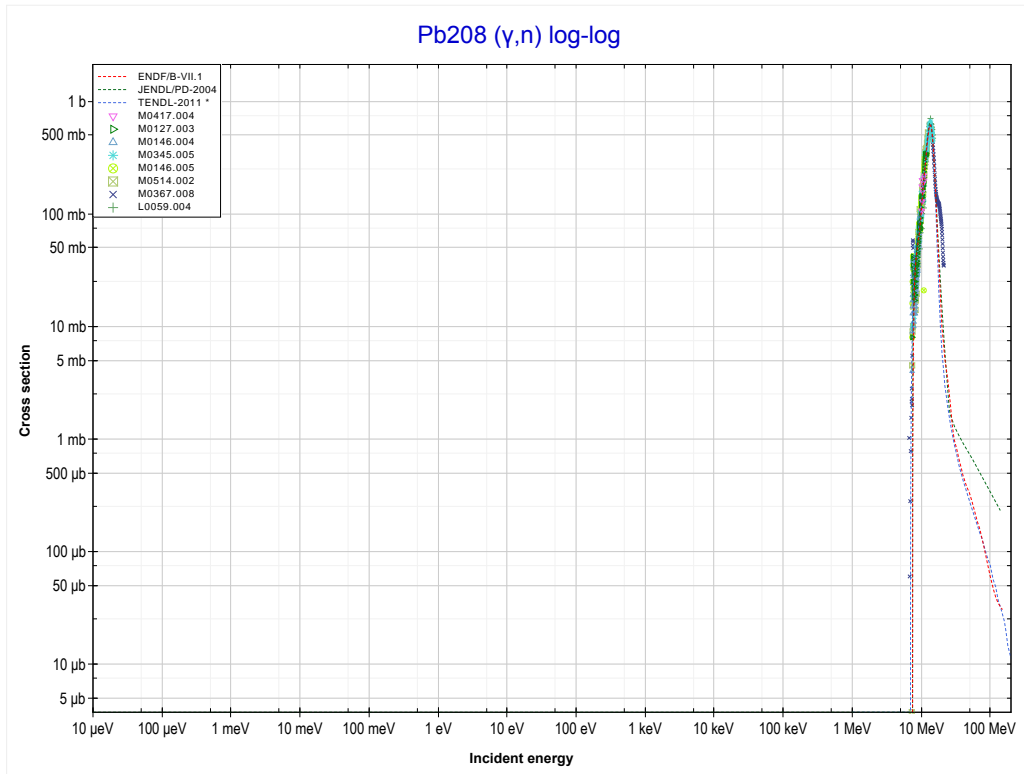
Reaction	Q-Value
Pb207(γ,d)TI205	-11767.02 keV
Pb207($\gamma,n+p$)TI205	-13991.59 keV

<< 82-Pb-206	82-Pb-207	82-Pb-208 >>
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (TI204 production)	MT4 (γ, n) >>



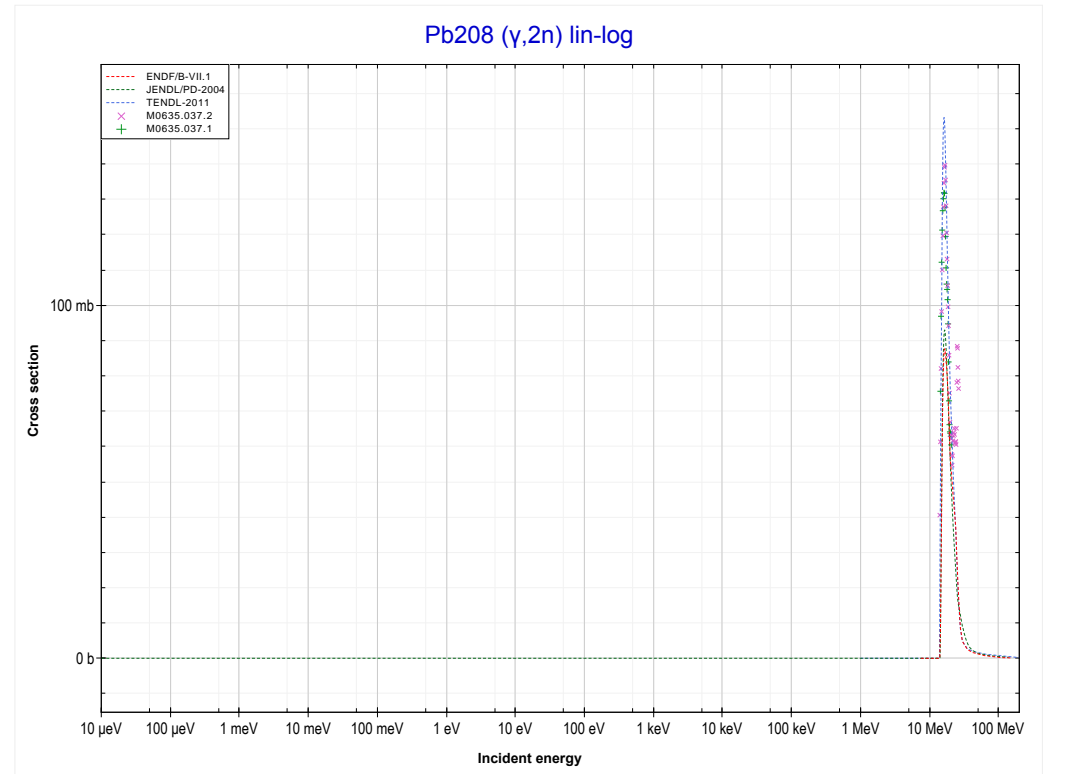
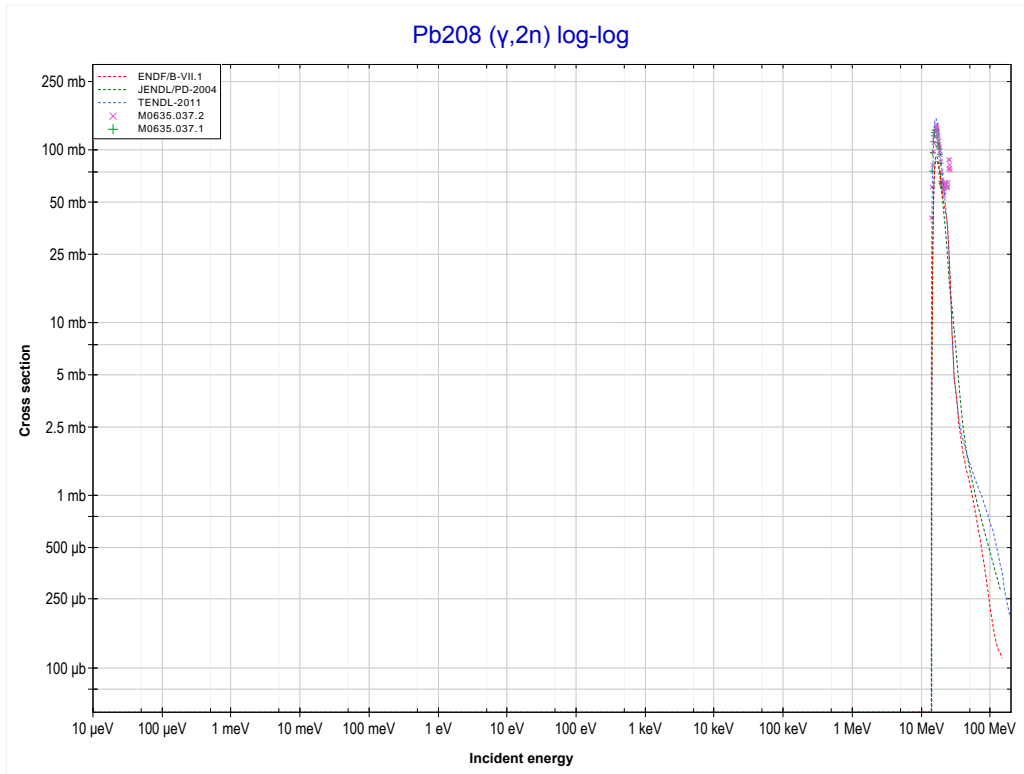
Reaction	Q-Value
Pb207(γ, t)TI204	-13055.71 keV
Pb207($\gamma, n+d$)TI204	-19312.94 keV
Pb207($\gamma, 2n+p$)TI204	-21537.50 keV

<< 82-Pb-207	82-Pb-208	83-Bi-209 >>
<< MT41 ($\gamma,2n+p$)	MT4 (γ,n) or MT5 (Pb207 production)	MT16 ($\gamma,2n$) >>



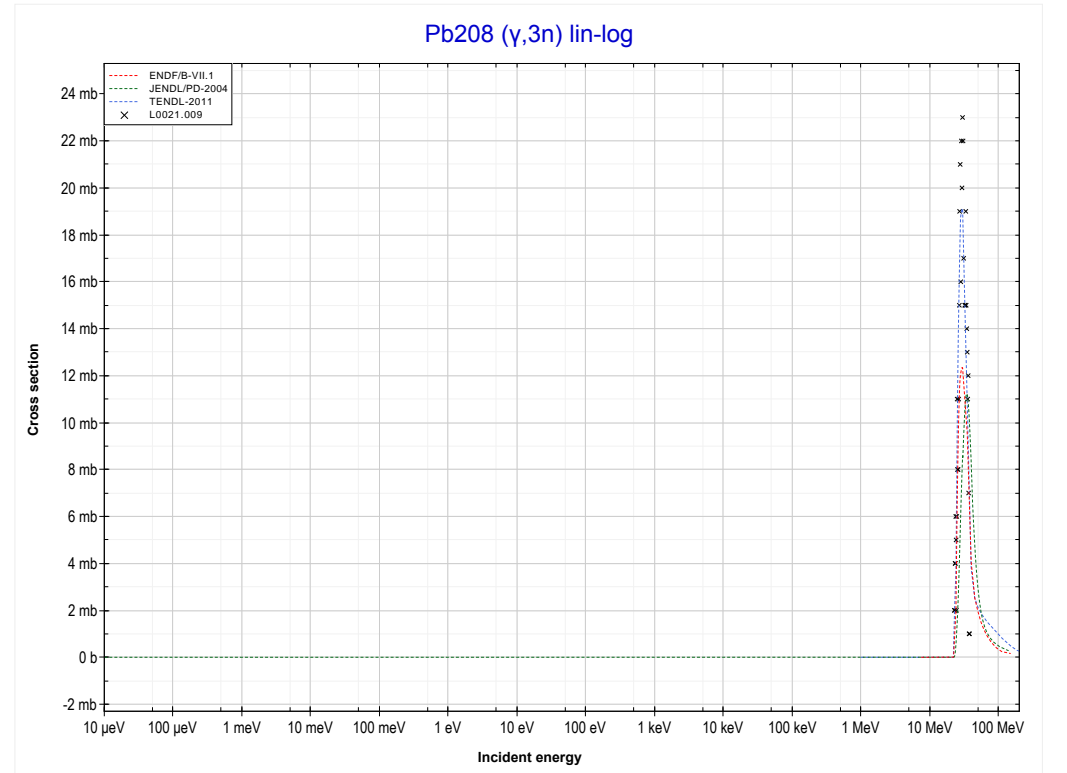
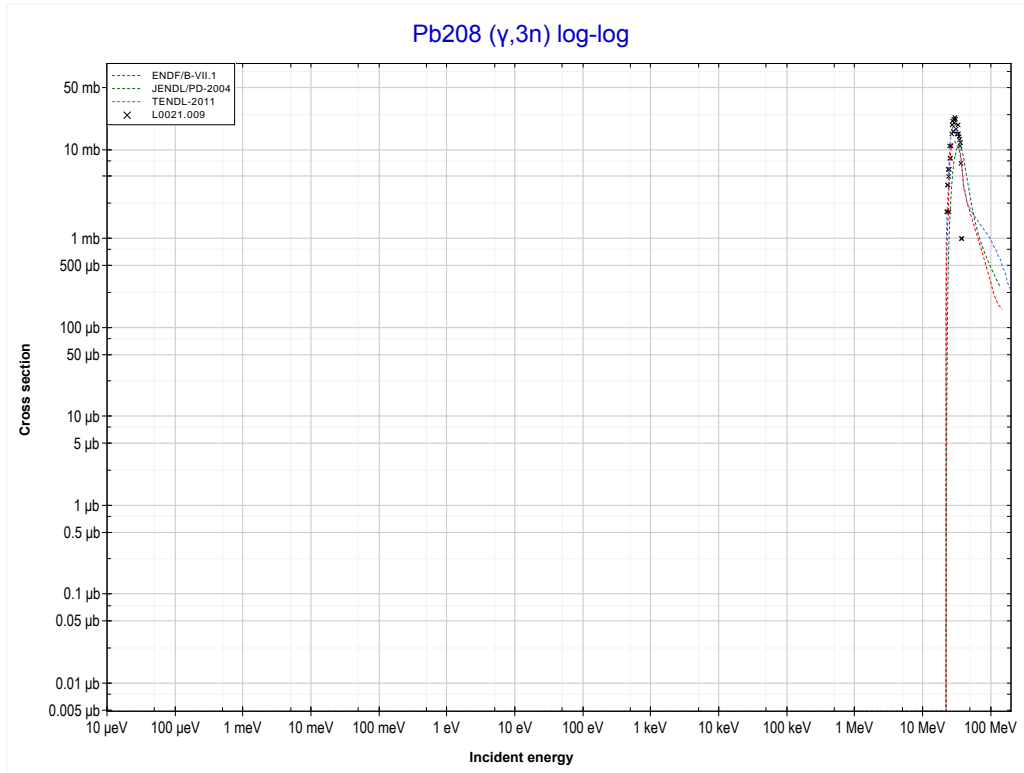
Reaction	Q-Value
Pb208(γ,n)Pb207	-7367.92 keV

<< 82-Pb-207	82-Pb-208	83-Bi-209 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Pb206 production)	MT17 ($\gamma,3n$) >>



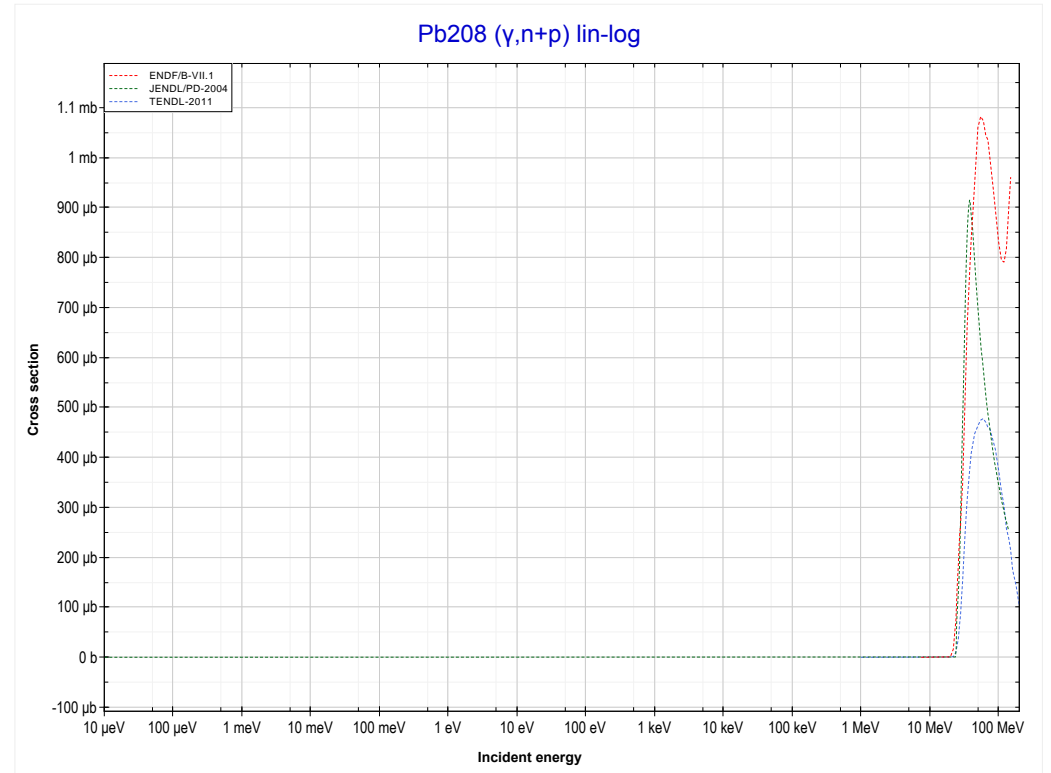
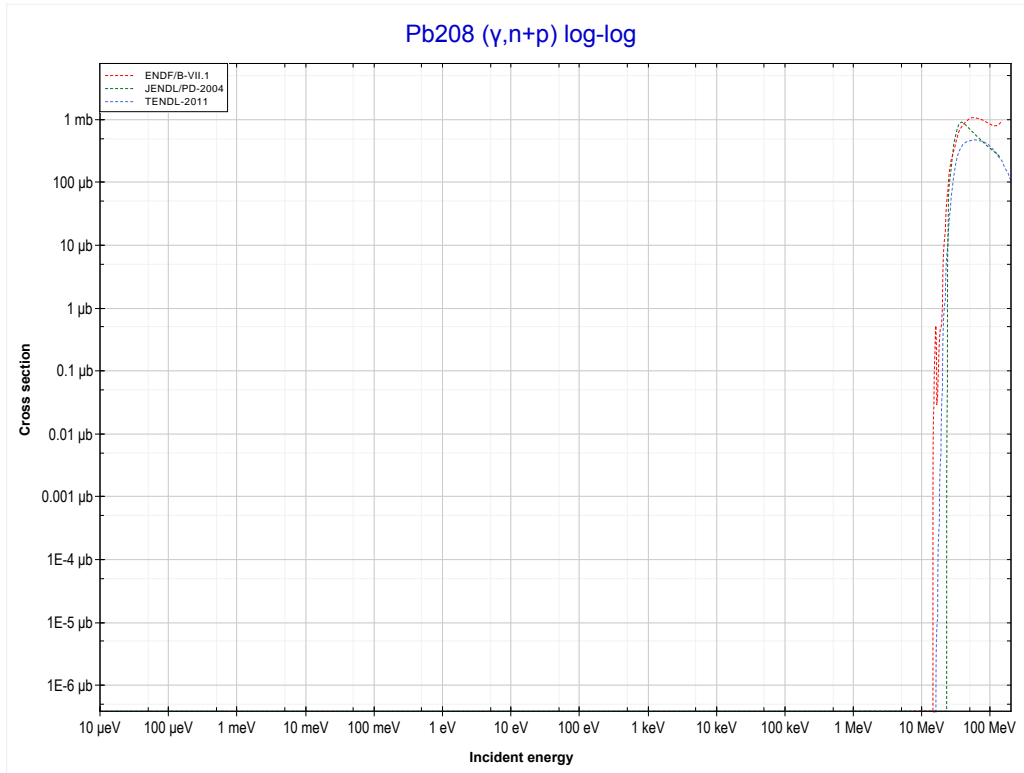
Reaction	Q-Value
Pb208($\gamma,2n$)Pb206	-14105.73 keV

<< 79-Au-197	82-Pb-208	83-Bi-209 >>
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Pb205 production)	MT28 ($\gamma,n+p$) >>



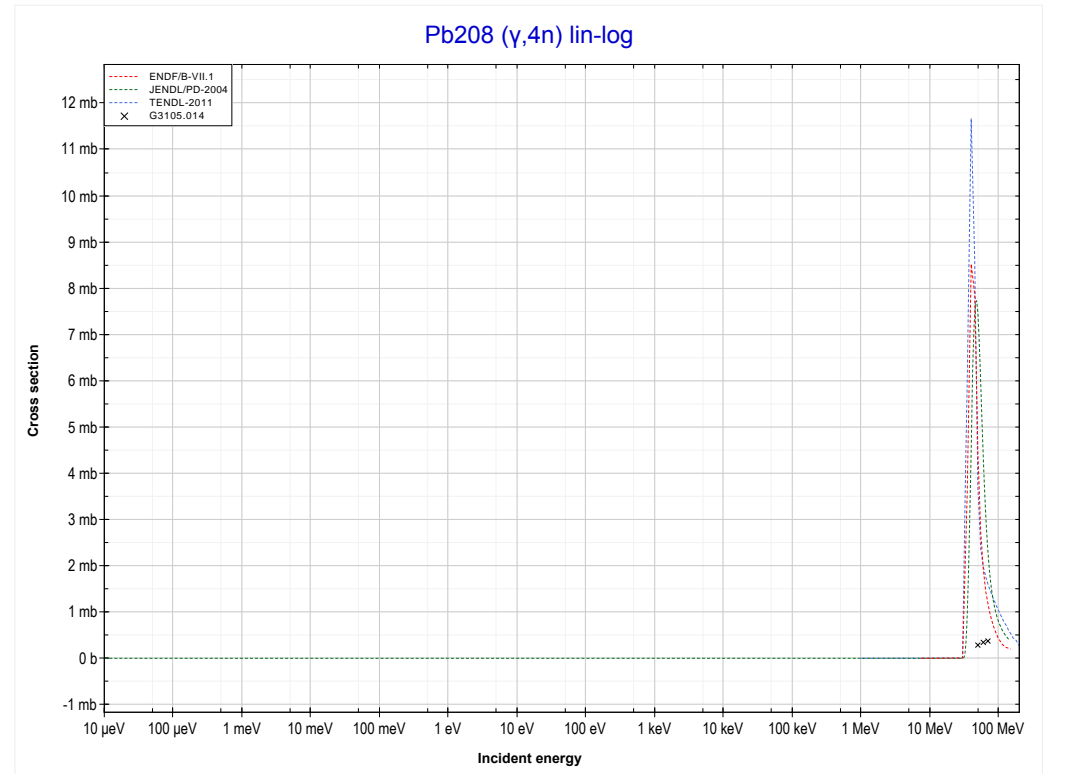
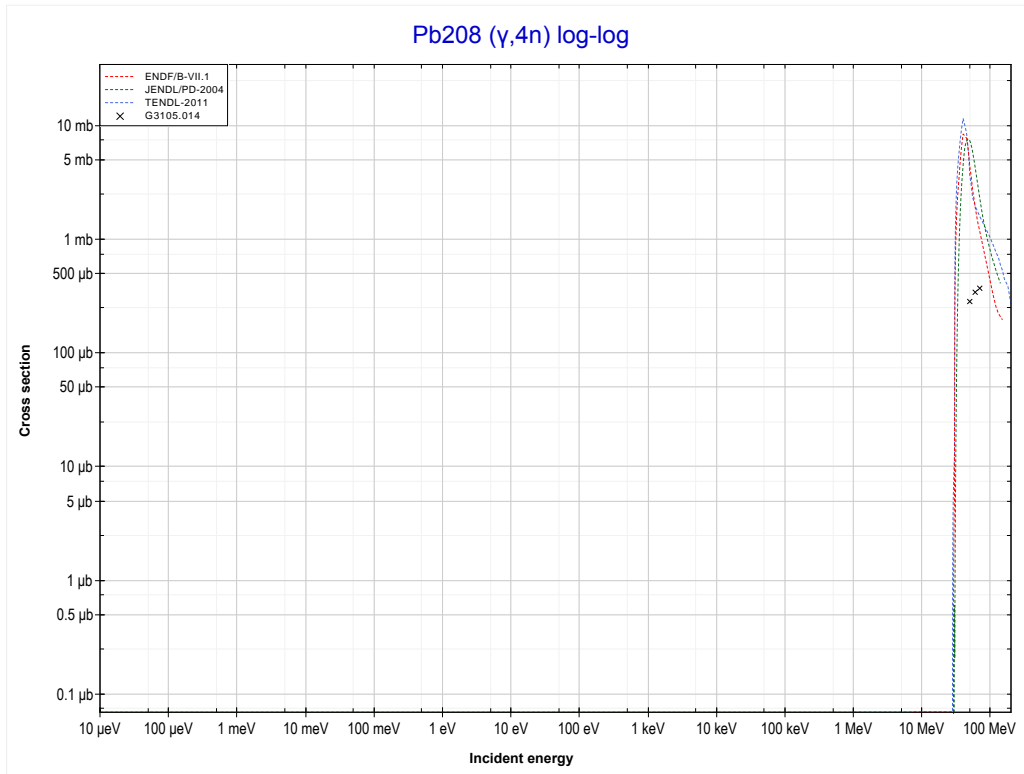
Reaction	Q-Value
Pb208($\gamma,3n$)Pb205	-22192.35 keV

<< 82-Pb-207	82-Pb-208	83-Bi-209 >>
<< MT17 ($\gamma,3n$)	MT28 ($\gamma,n+p$) or MT5 (TI206 production)	MT37 ($\gamma,4n$) >>



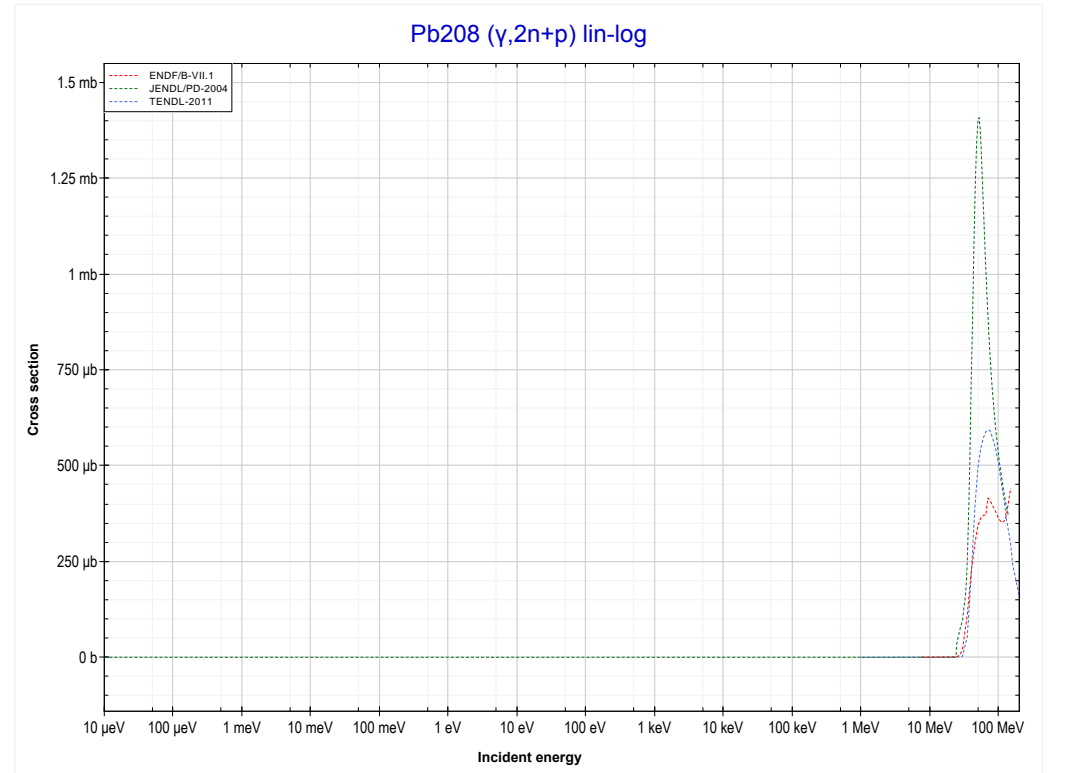
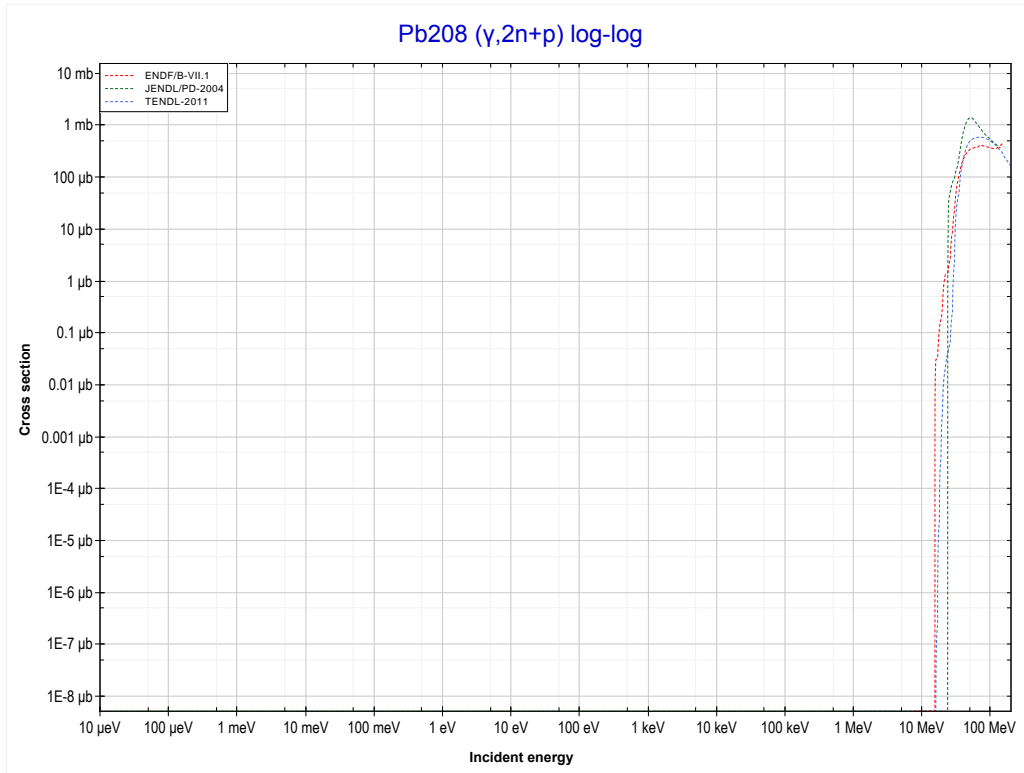
Reaction	Q-Value
Pb208(γ,d)TI206	-12631.12 keV
Pb208($\gamma,n+p$)TI206	-14855.69 keV

<< 41-Nb-93	82-Pb-208	83-Bi-209 >>
<< MT28 ($\gamma, n+p$)	MT37 ($\gamma, 4n$) or MT5 (Pb204 production)	MT41 ($\gamma, 2n+p$) >>



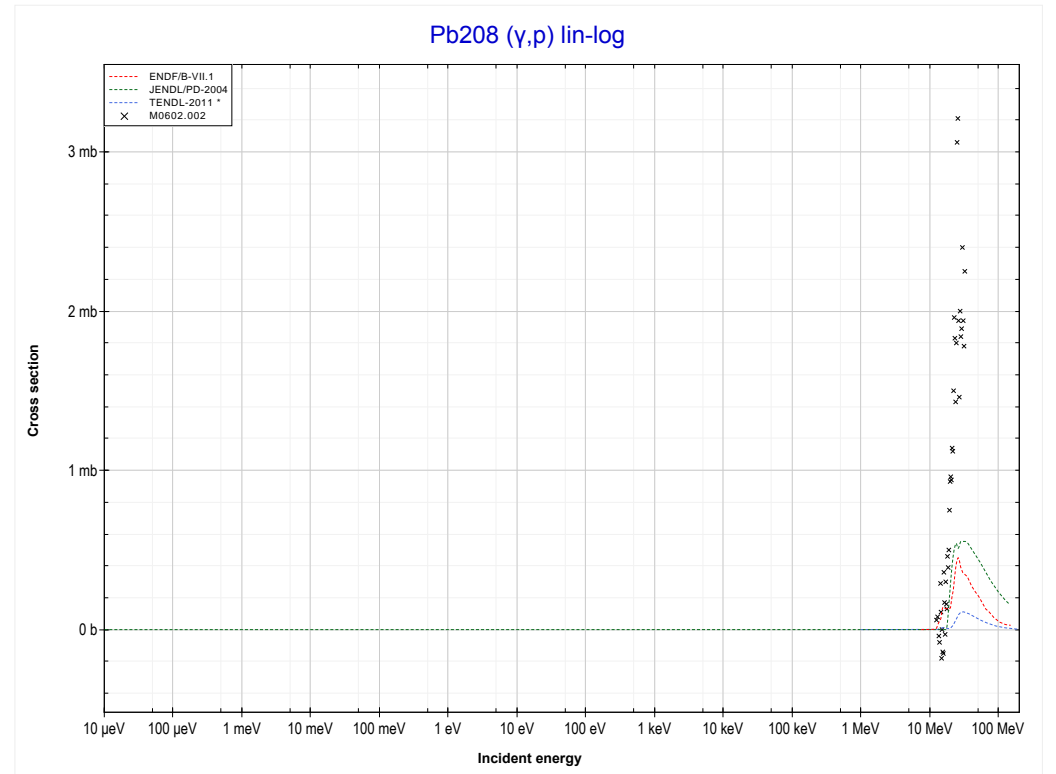
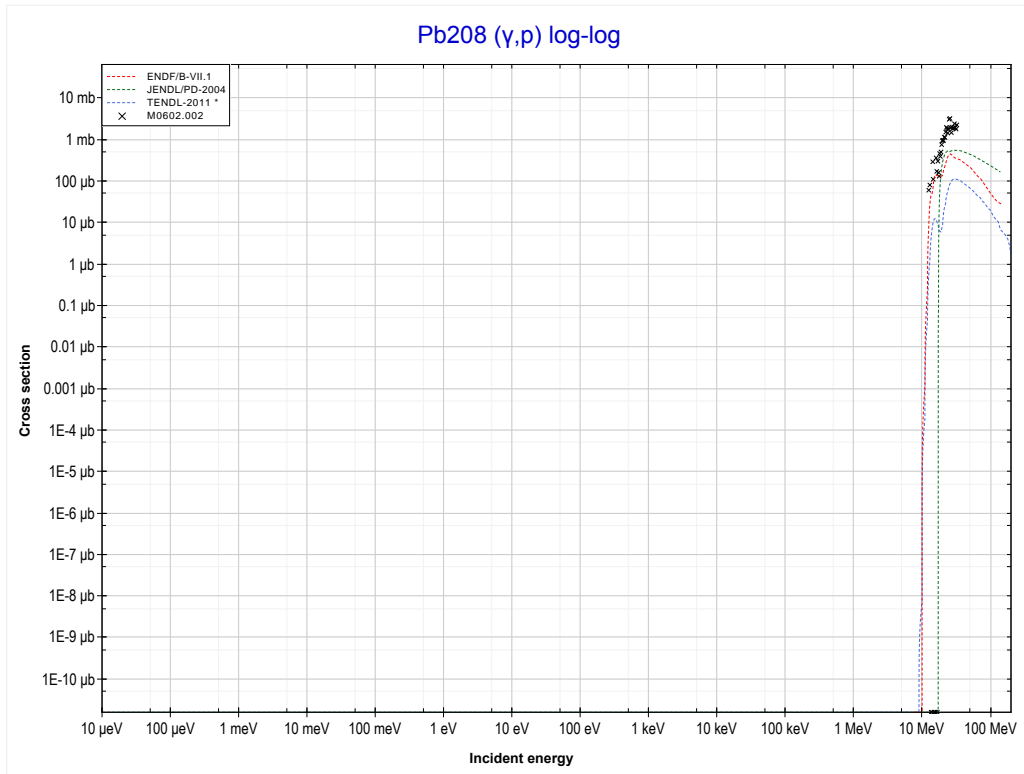
Reaction	Q-Value
Pb208($\gamma, 4n$)Pb204	-28924.07 keV

<< 82-Pb-207	82-Pb-208	83-Bi-209 >>
<< MT37 ($\gamma,4n$)	MT41 ($\gamma,2n+p$) or MT5 (TI205 production)	MT103 (γ,p) >>



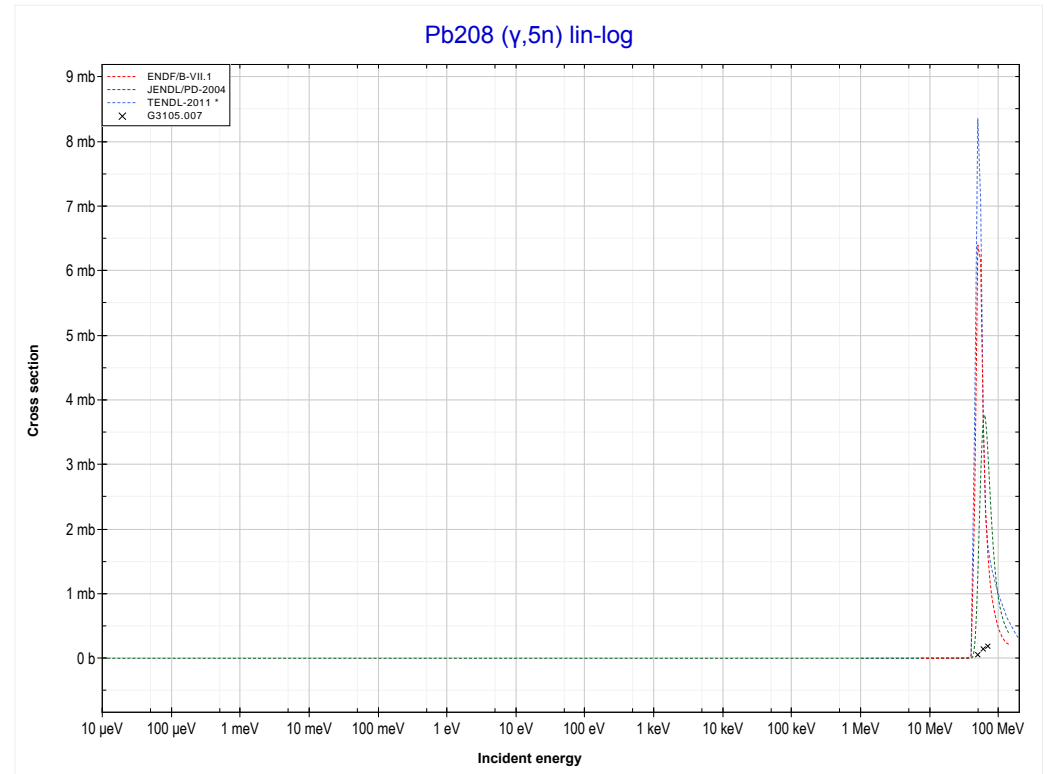
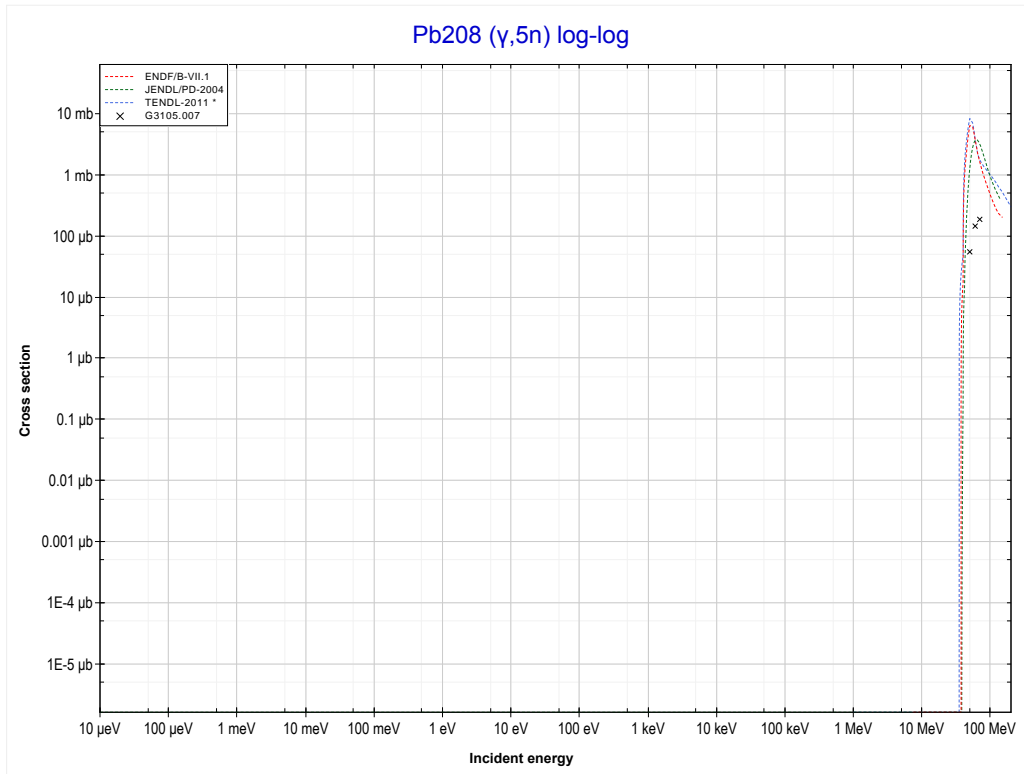
Reaction	Q-Value
$\text{Pb208}(\gamma,t)\text{TI205}$	-12877.71 keV
$\text{Pb208}(\gamma,n+d)\text{TI205}$	-19134.94 keV
$\text{Pb208}(\gamma,2n+p)\text{TI205}$	-21359.50 keV

<< 64-Gd-160	82-Pb-208	
<< MT41 ($\gamma,2n+p$)	MT103 (γ,p) or MT5 (TI207 production)	MT152 ($\gamma,5n$) >>



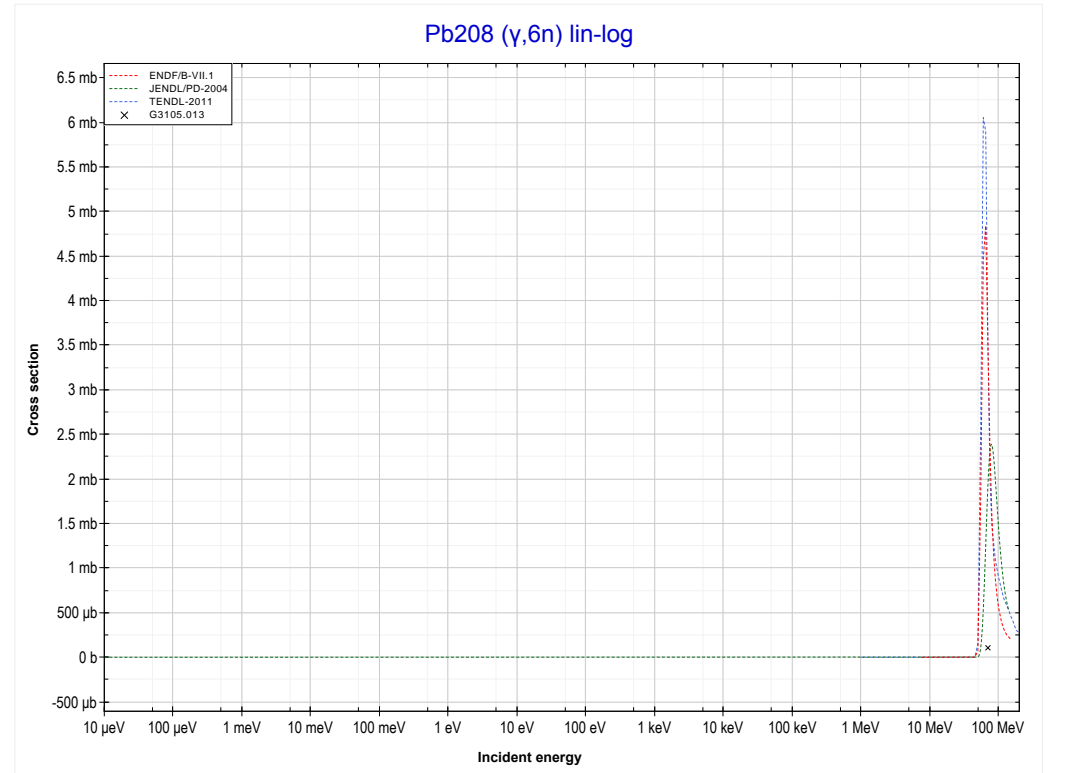
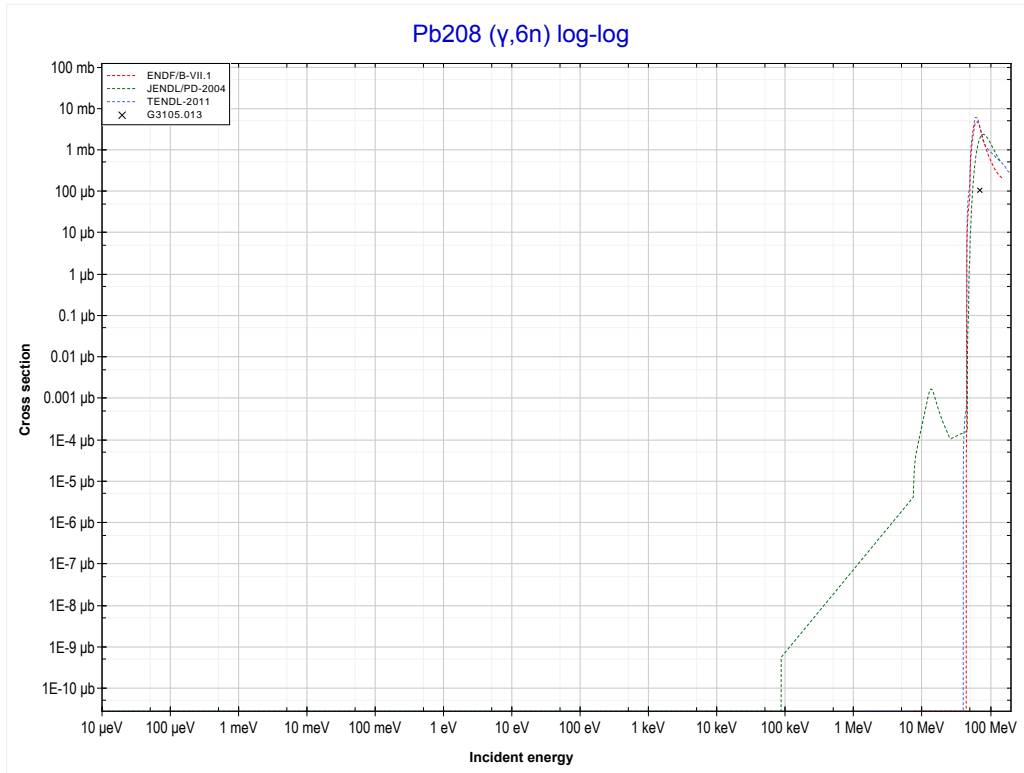
Reaction	Q-Value
Pb208(γ,p)TI207	-8003.47 keV

	82-Pb-208	83-Bi-209 >>
<< MT103 (γ,p)	MT152 (γ,5n) or MT5 (Pb203 production)	MT153 (γ,6n) >>



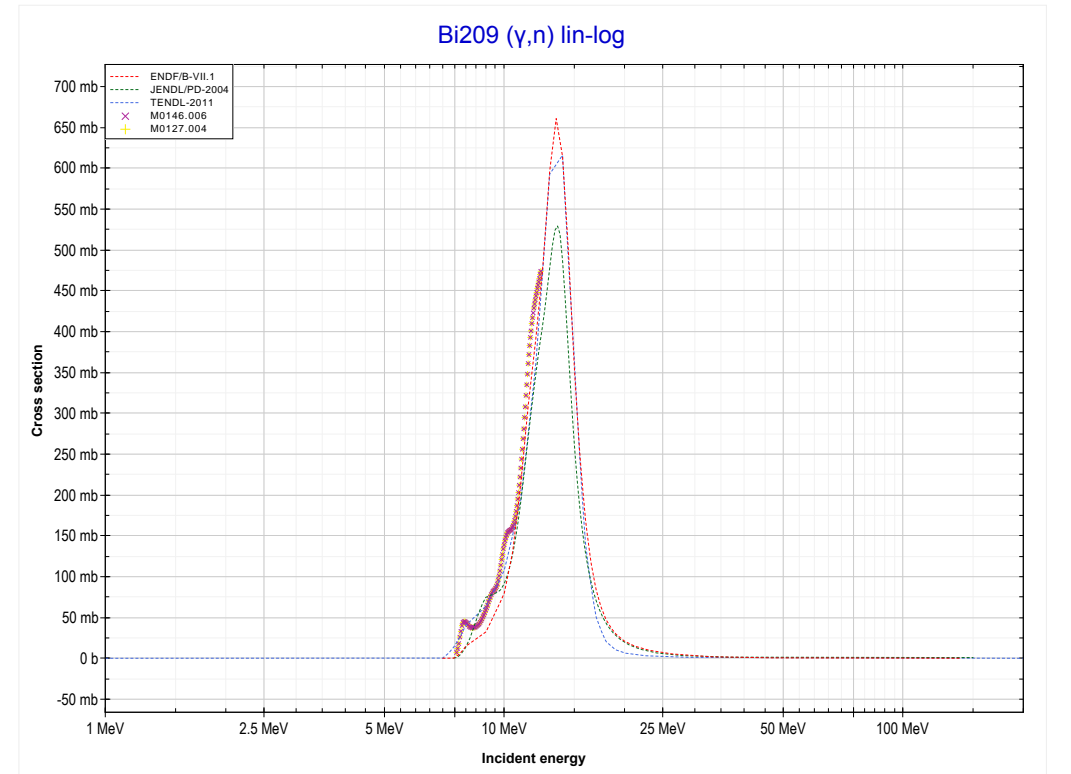
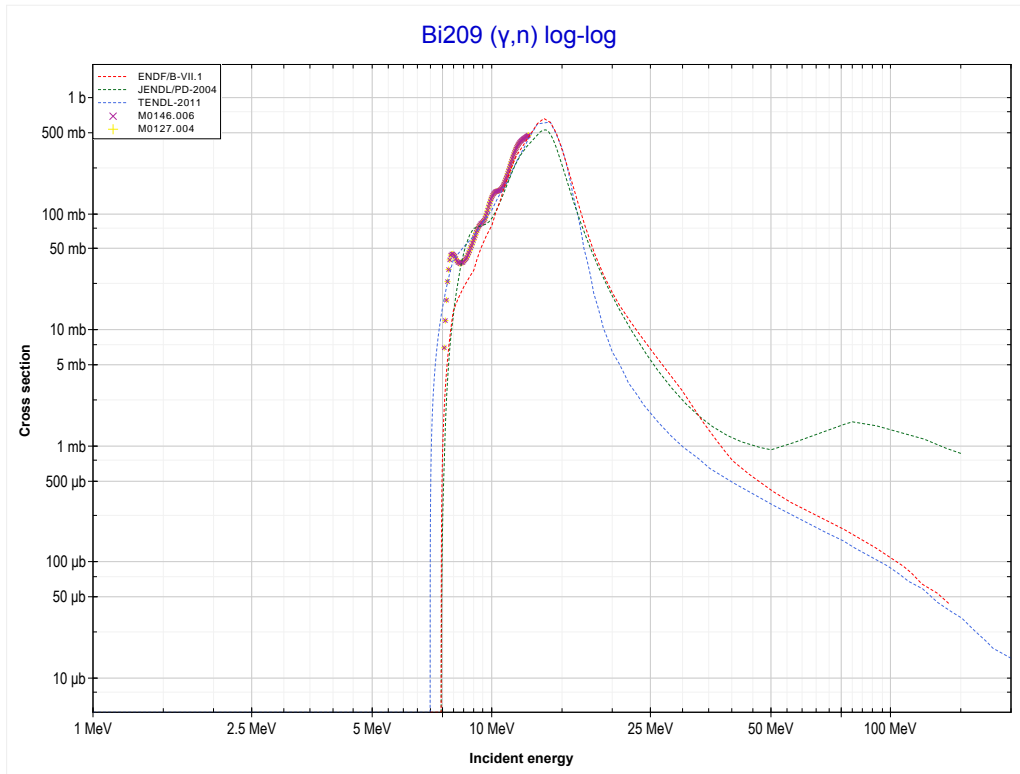
Reaction	Q-Value
Pb208(γ,5n)Pb203	-37318.09 keV

	82-Pb-208	83-Bi-209 >>
<< MT152 ($\gamma,5n$)	MT153 ($\gamma,6n$) or MT5 (Pb202 production)	MT4 (γ,n) >>



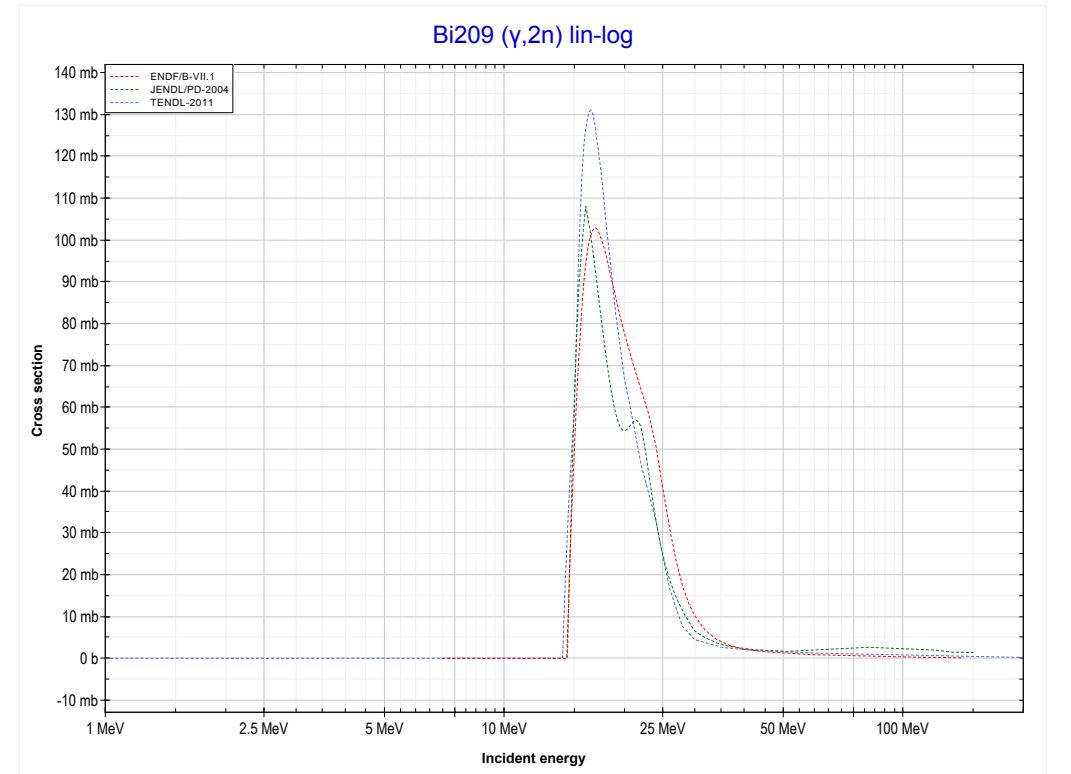
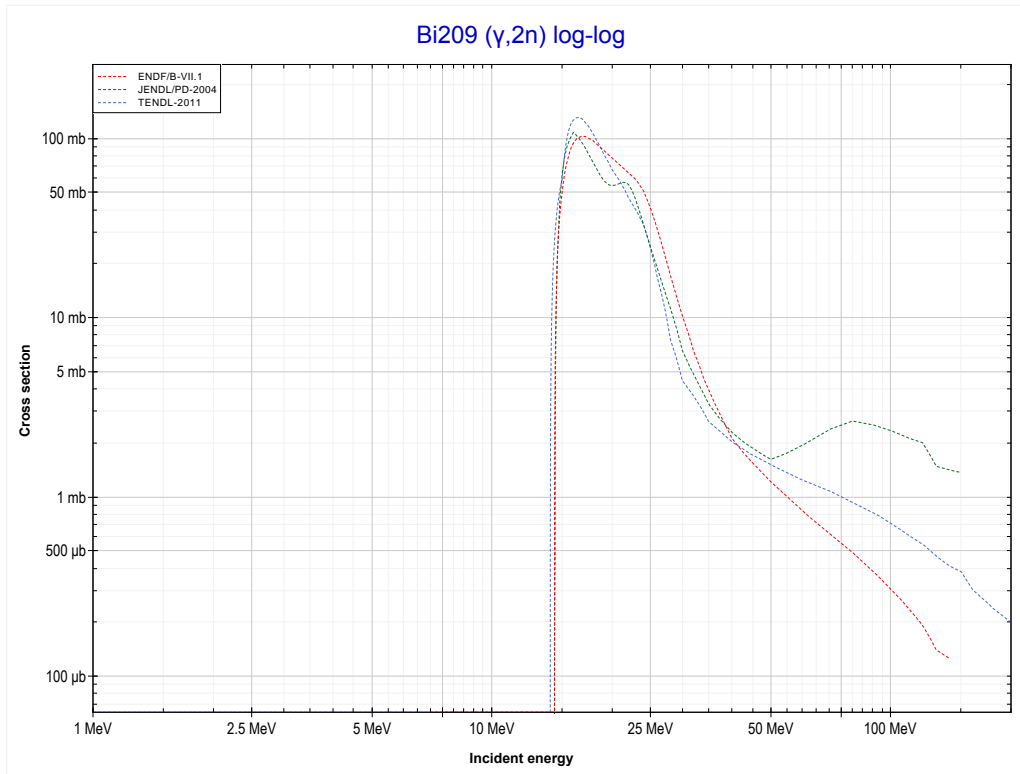
Reaction	Q-Value
Pb208($\gamma,6n$)Pb202	-44242.40 keV

<< 82-Pb-208	83-Bi-209	90-Th-232 >>
<< MT153 ($\gamma,6n$)	MT4 (γ,n) or MT5 (Bi208 production)	MT16 ($\gamma,2n$) >>



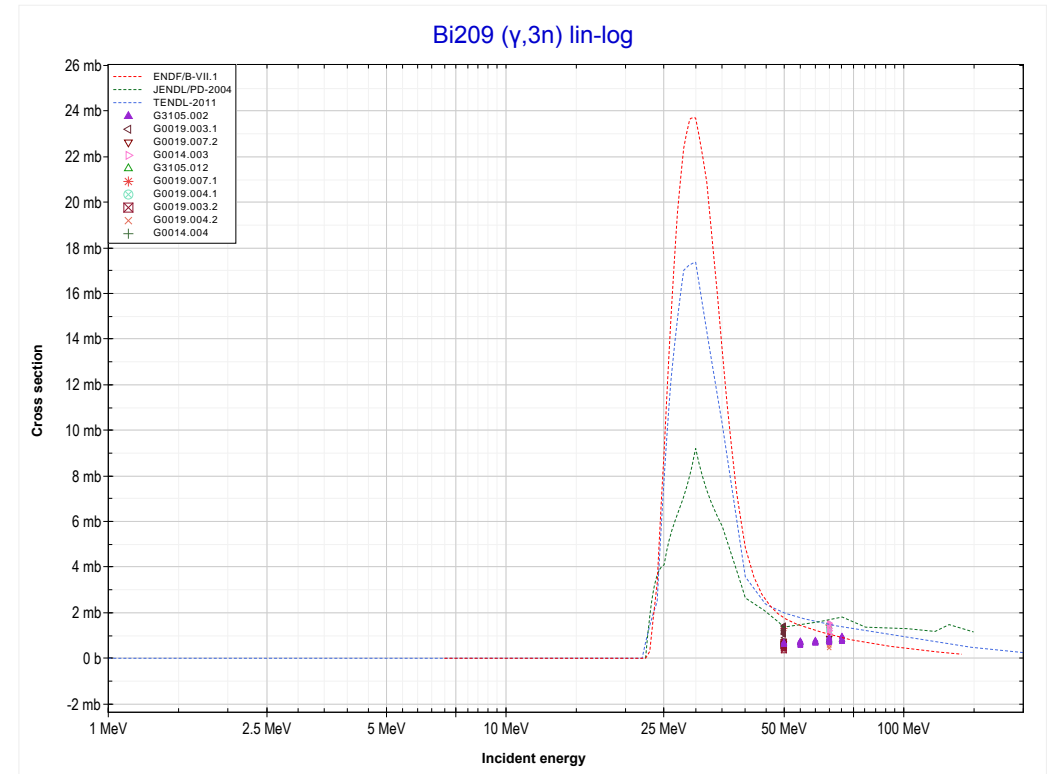
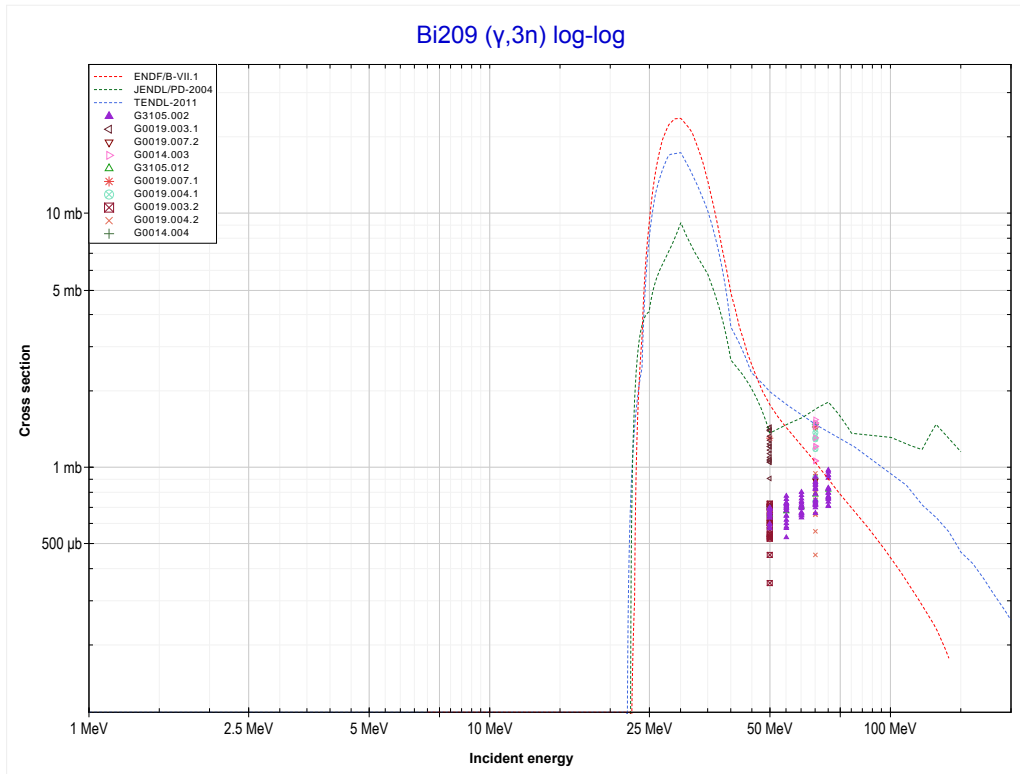
Reaction	Q-Value
Bi209(γ,n)Bi208	-7459.82 keV

<< 82-Pb-208	83-Bi-209	90-Th-232 >>
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Bi207 production)	MT17 ($\gamma, 3n$) >>



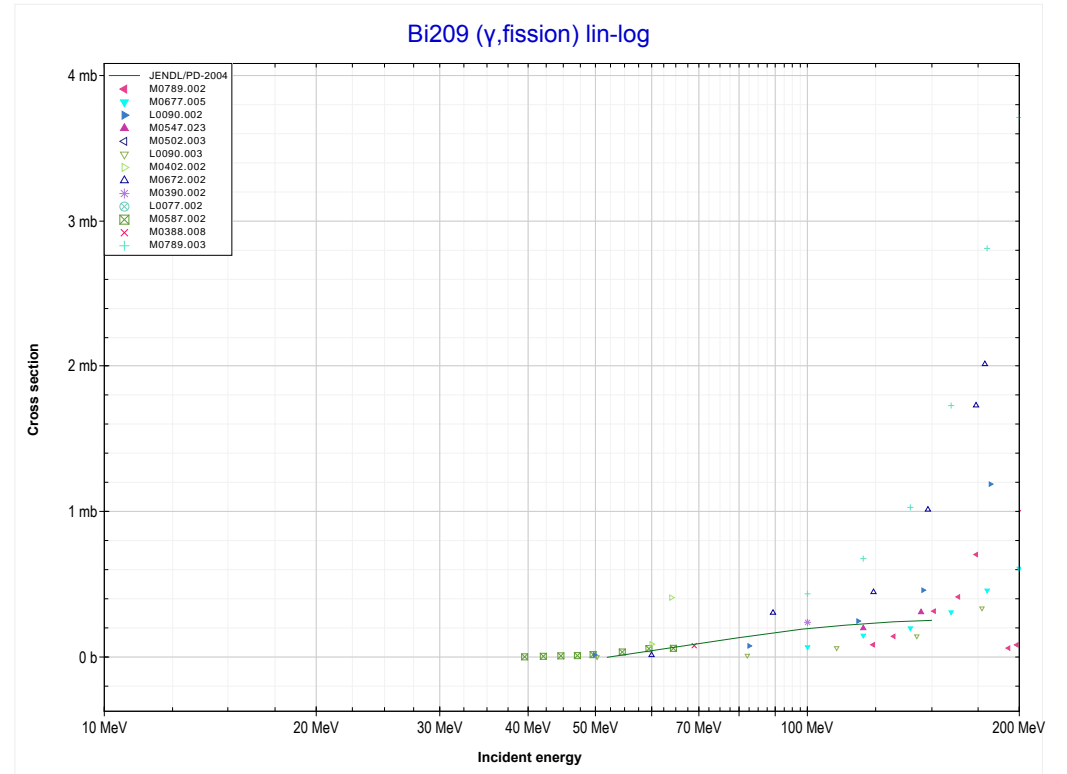
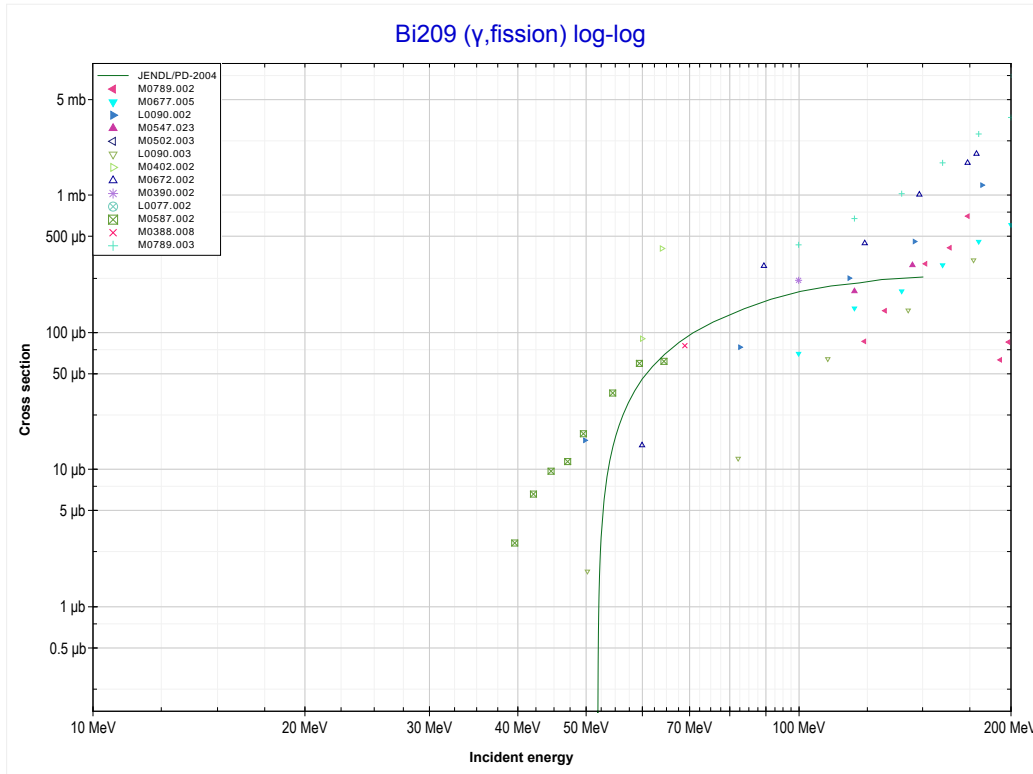
Reaction	Q-Value
Bi209($\gamma, 2n$)Bi207	-14346.73 keV

<< 82-Pb-208	83-Bi-209	
<< MT16 ($\gamma,2n$)	MT17 ($\gamma,3n$) or MT5 (Bi206 production)	MT18 (γ ,fission) >>

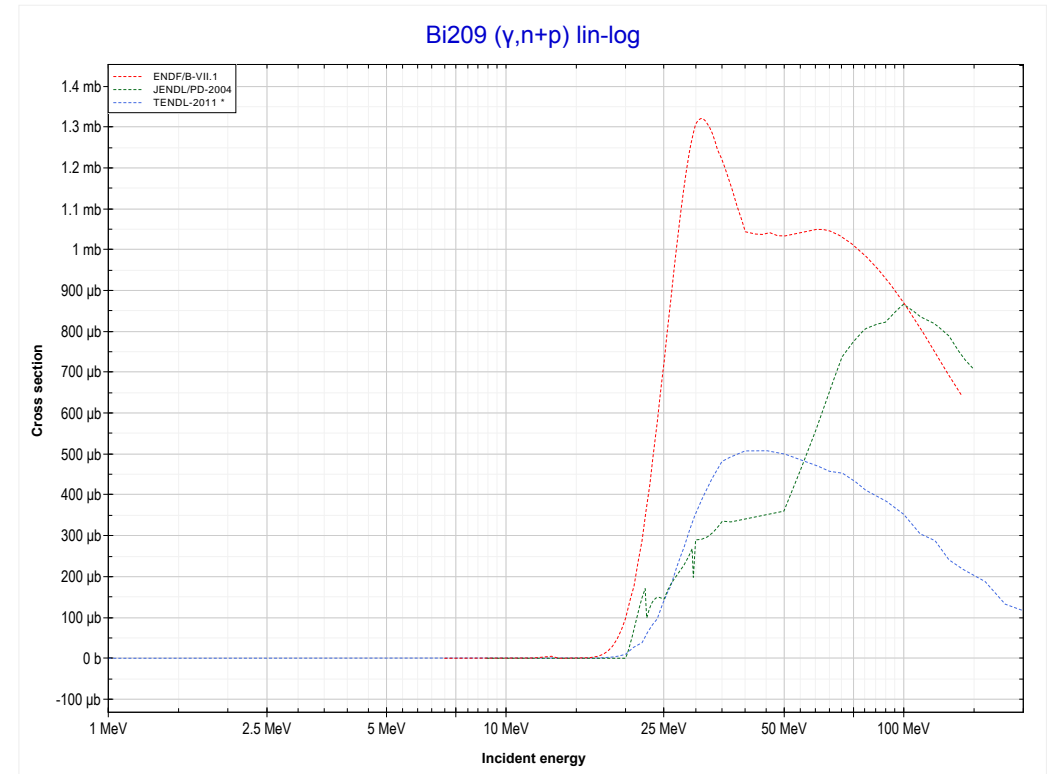
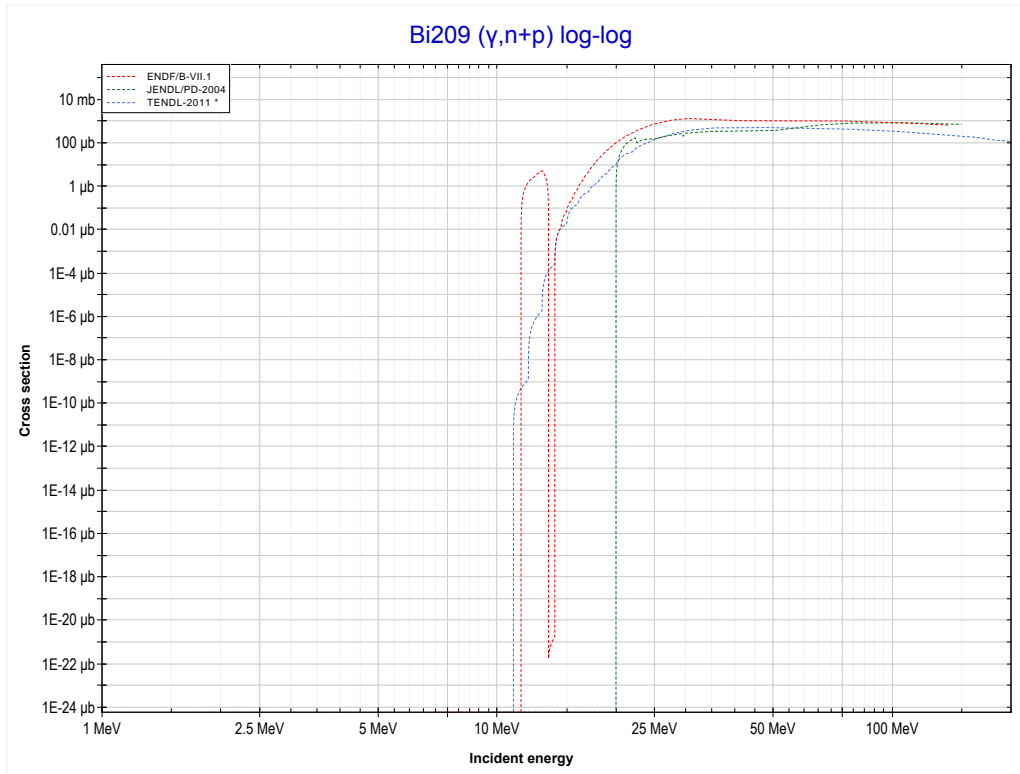


Reaction	Q-Value
Bi209($\gamma,3n$)Bi206	-22444.45 keV

	83-Bi-209	90-Th-232 >>
<< MT17 ($\gamma,3n$)	MT18 (γ,fission)	MT28 (γ ,n+p) >>

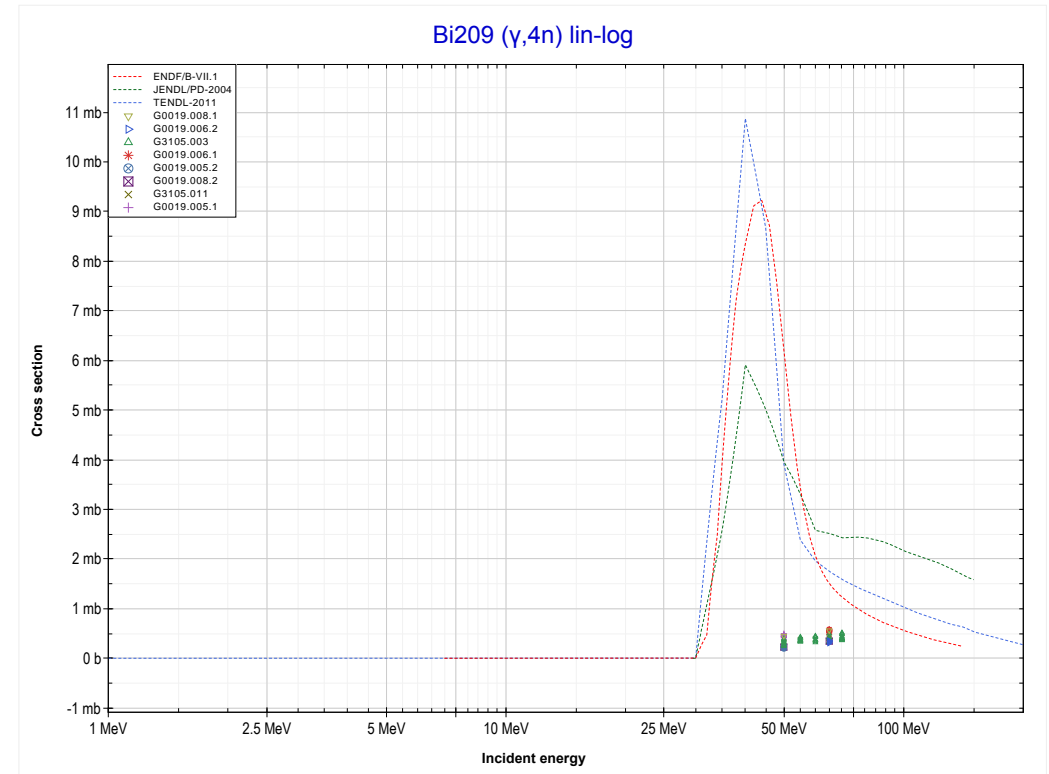
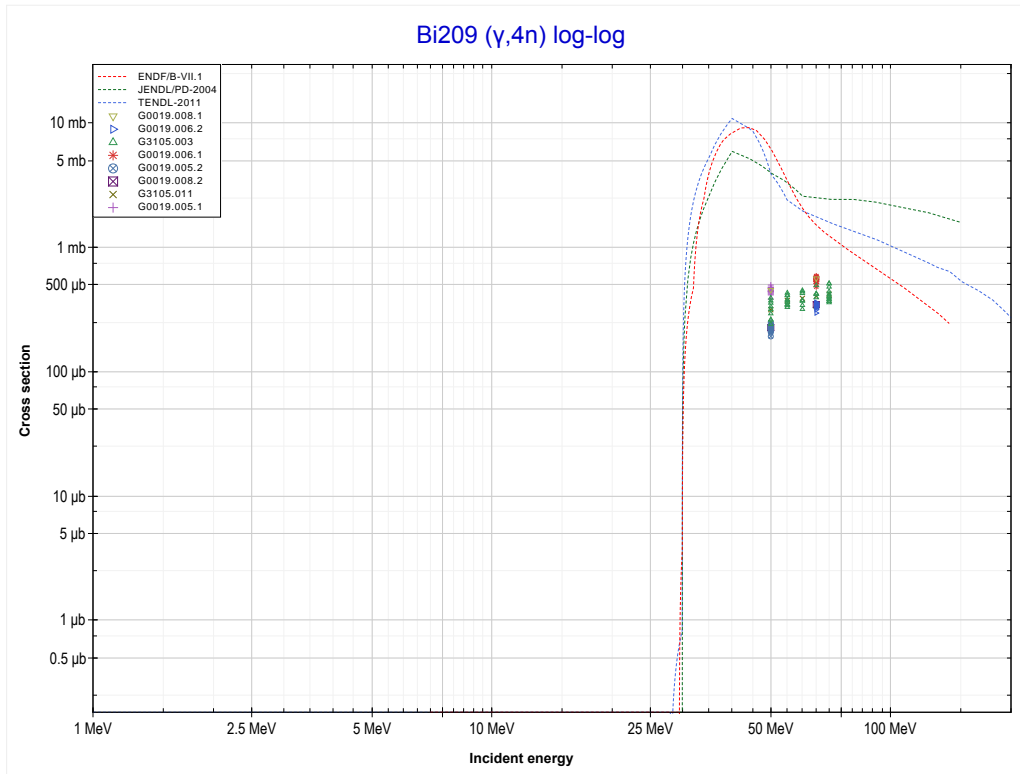


<< 82-Pb-208	83-Bi-209	90-Th-232 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Pb207 production)	MT37 (γ ,4n) >>



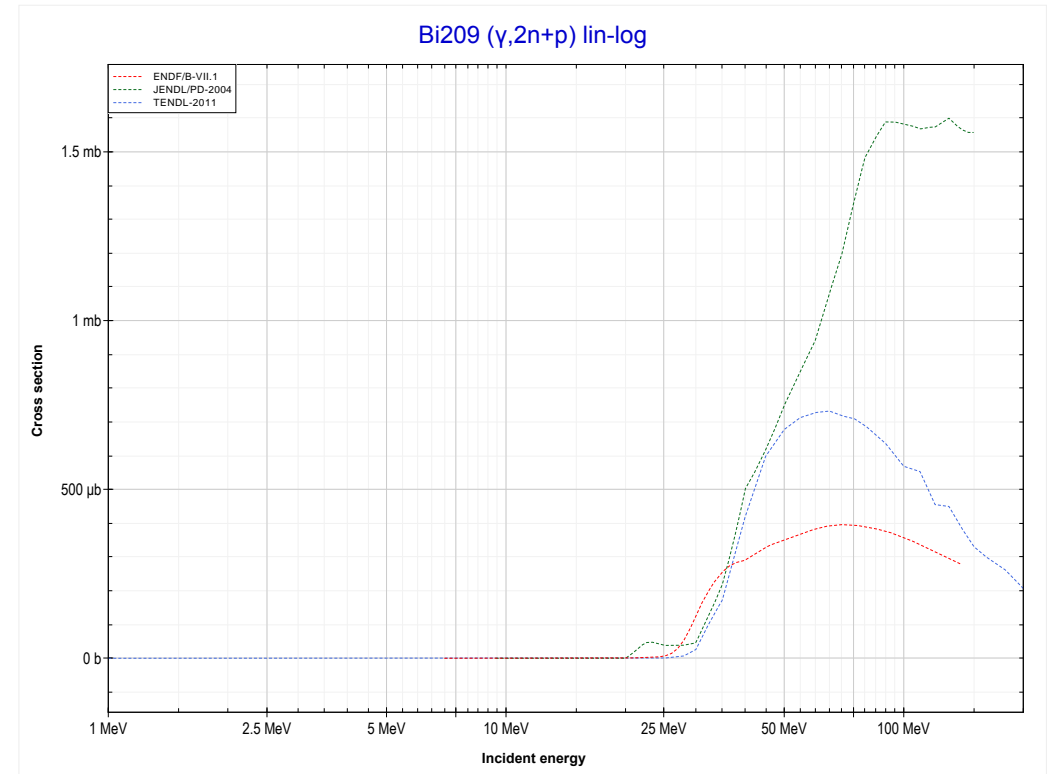
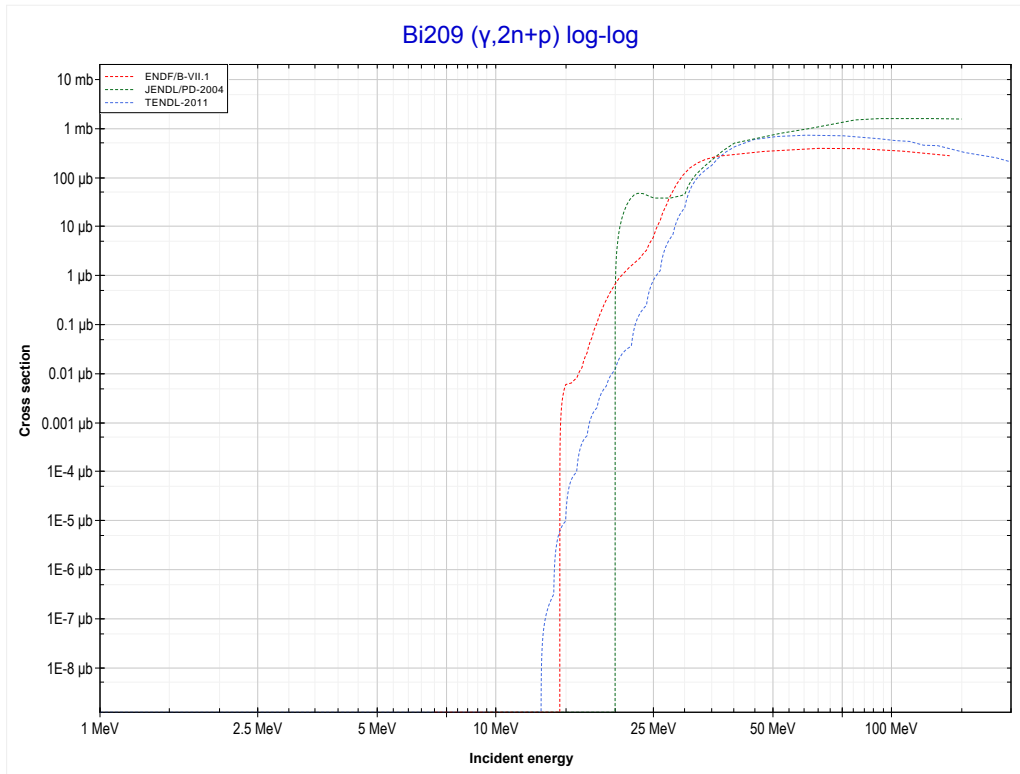
Reaction	Q-Value
Bi209(γ ,d)Pb207	-8942.32 keV
Bi209(γ ,n+p)Pb207	-11166.89 keV

<< 82-Pb-208	83-Bi-209	
<< MT28 ($\gamma, n+p$)	MT37 ($\gamma, 4n$) or MT5 (Bi205 production)	MT41 ($\gamma, 2n+p$) >>



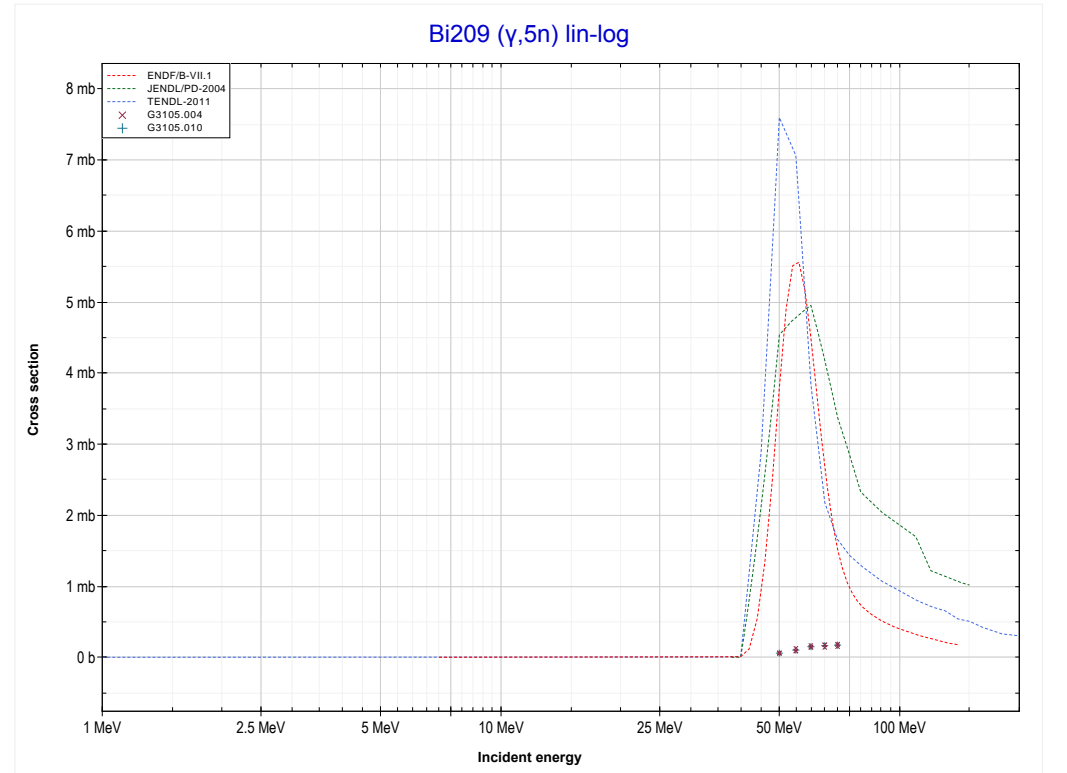
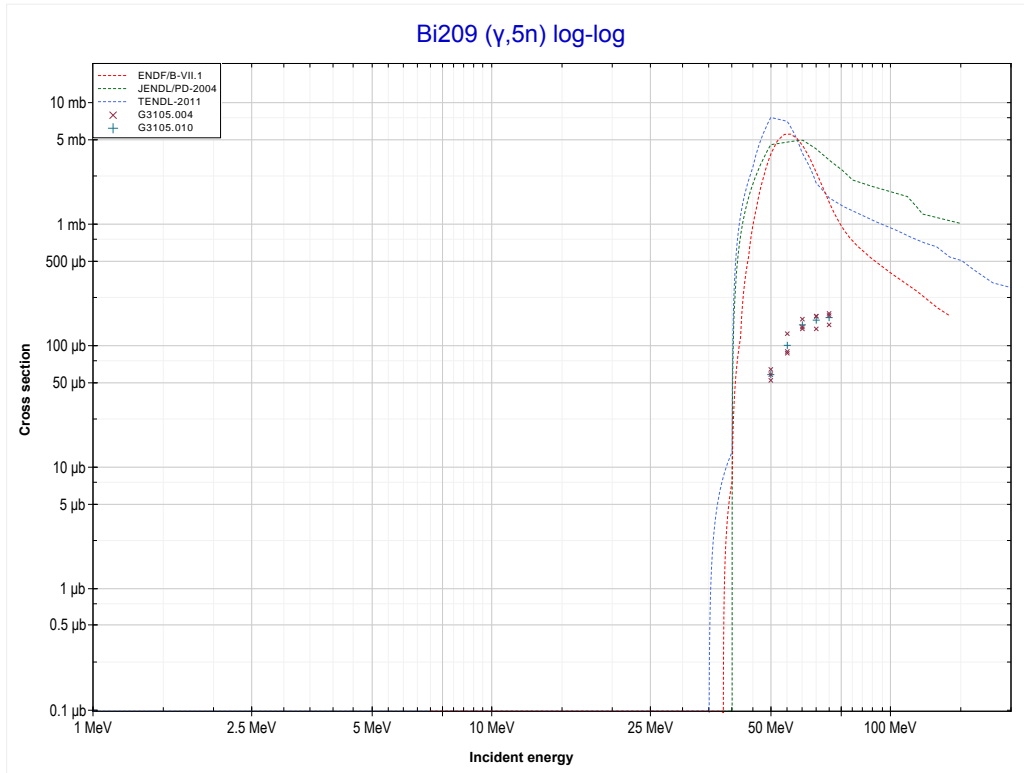
Reaction	Q-Value
Bi209($\gamma, 4n$)Bi205	-29481.77 keV

<< 82-Pb-208	83-Bi-209	93-Np-237 >>
<< MT37 ($\gamma,4n$)	MT41 ($\gamma,2n+p$) or MT5 (Pb206 production)	MT152 ($\gamma,5n$) >>



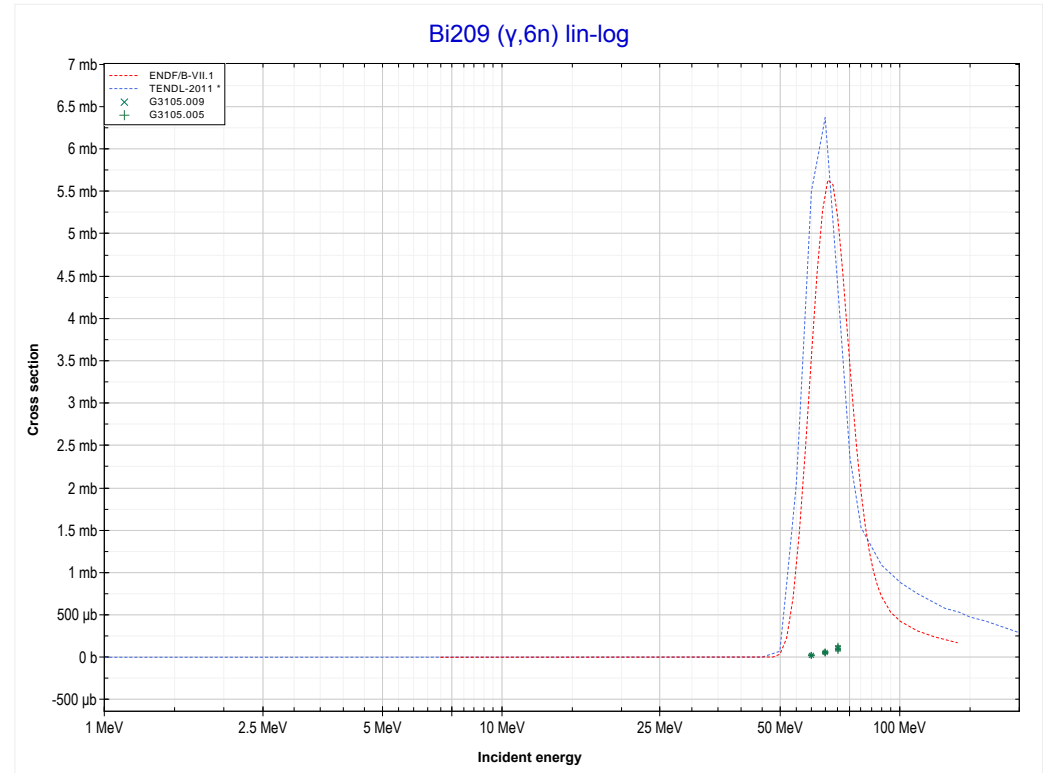
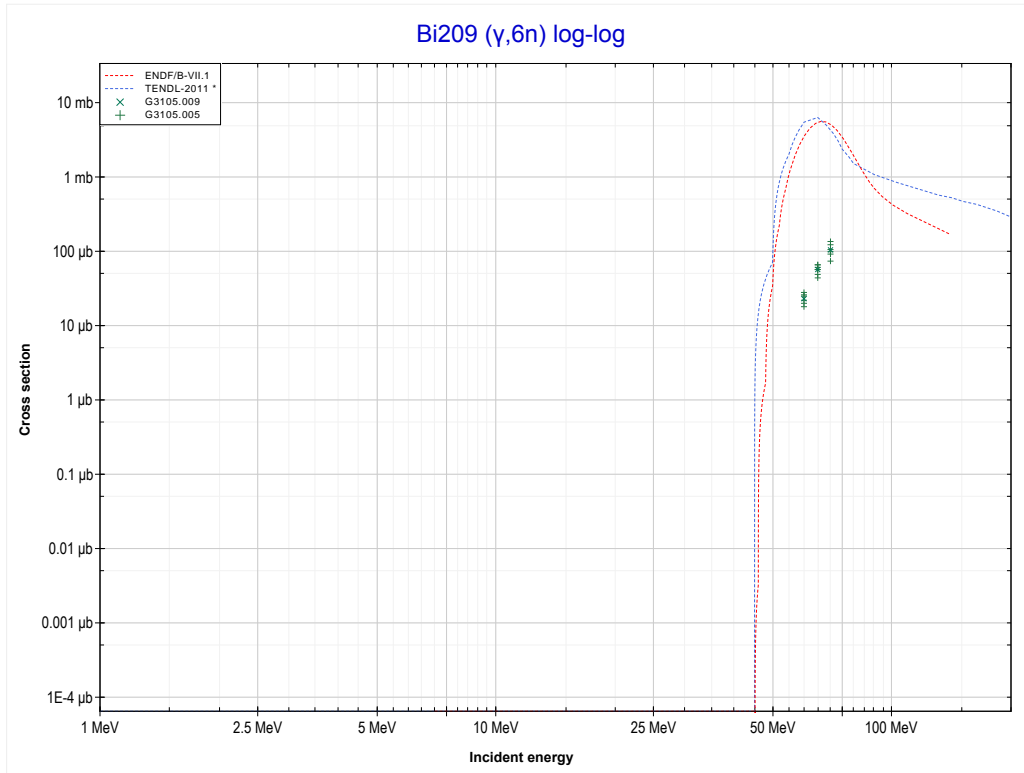
Reaction	Q-Value
Bi209(γ,t)Pb206	-9422.91 keV
Bi209($\gamma,n+d$)Pb206	-15680.14 keV
Bi209($\gamma,2n+p$)Pb206	-17904.70 keV

<< 82-Pb-208	83-Bi-209	
<< MT41 ($\gamma,2n+p$)	MT152 ($\gamma,5n$) or MT5 (Bi204 production)	MT153 ($\gamma,6n$) >>



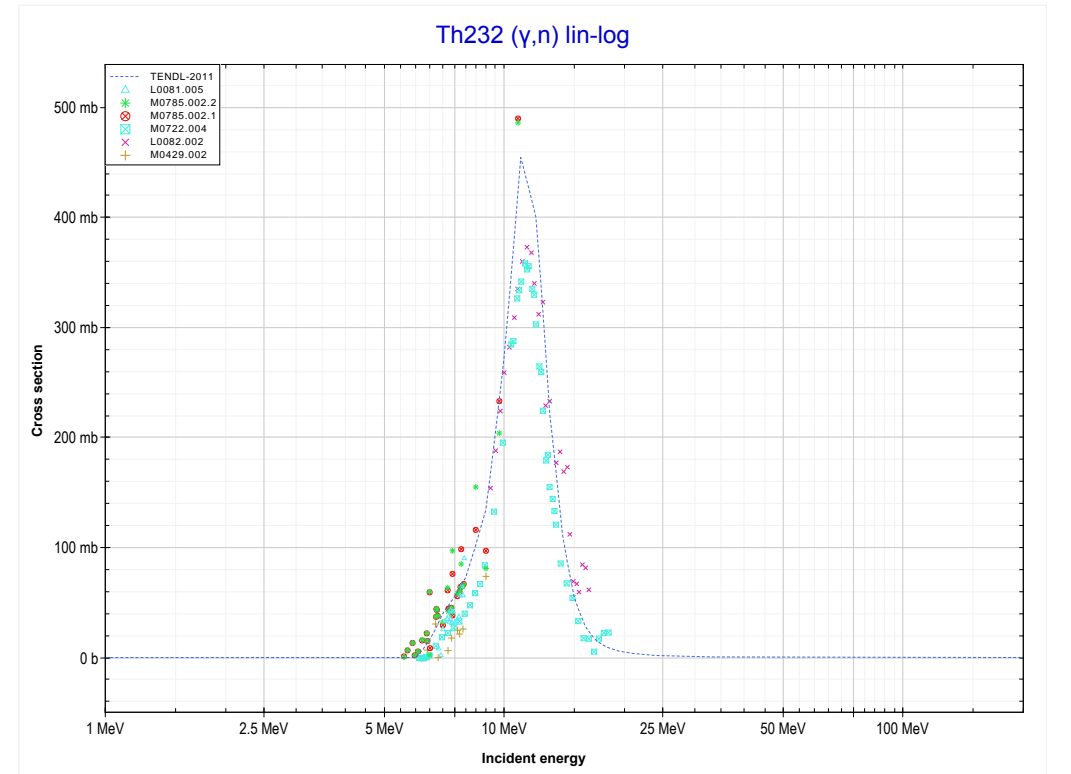
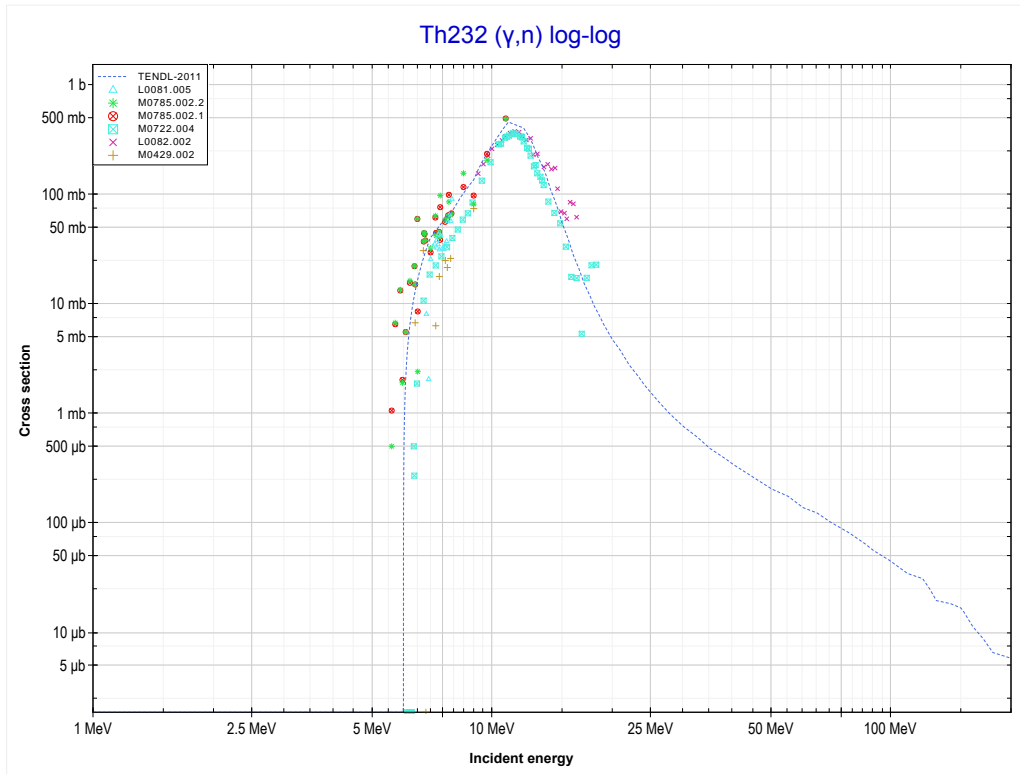
Reaction	Q-Value
Bi209($\gamma,5n$)Bi204	-37948.09 keV

<< 82-Pb-208	83-Bi-209	
<< MT152 ($\gamma,5n$)	MT153 ($\gamma,6n$) or MT5 (Bi203 production)	MT4 (γ,n) >>



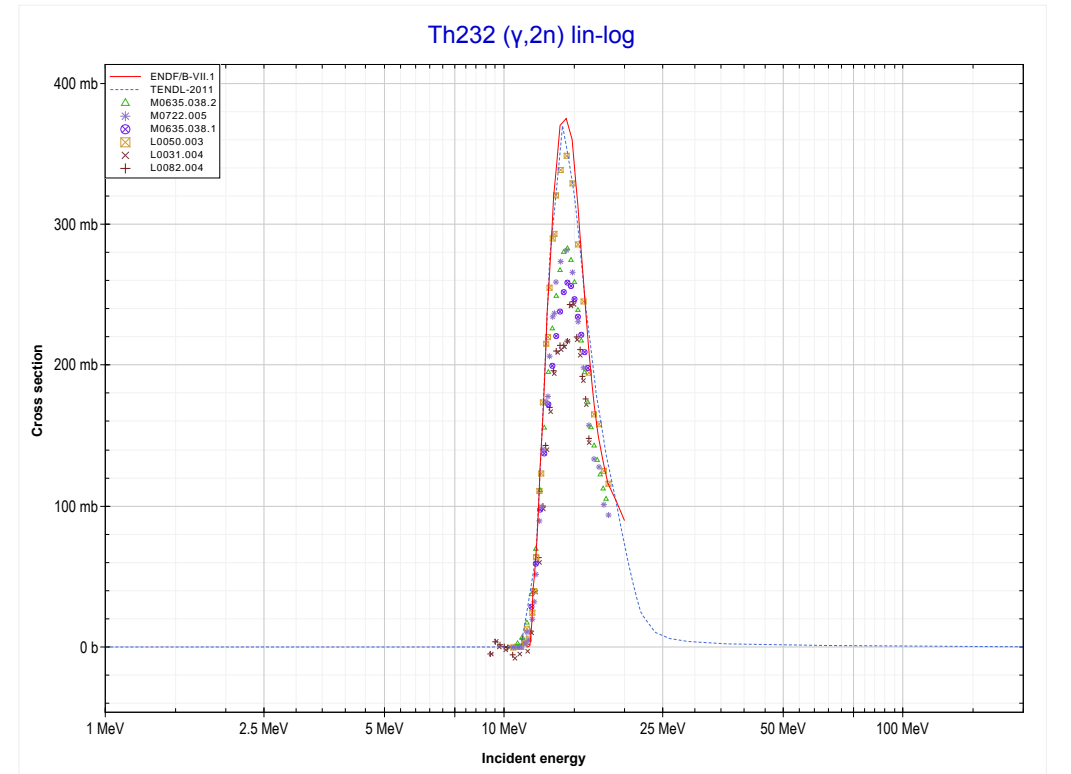
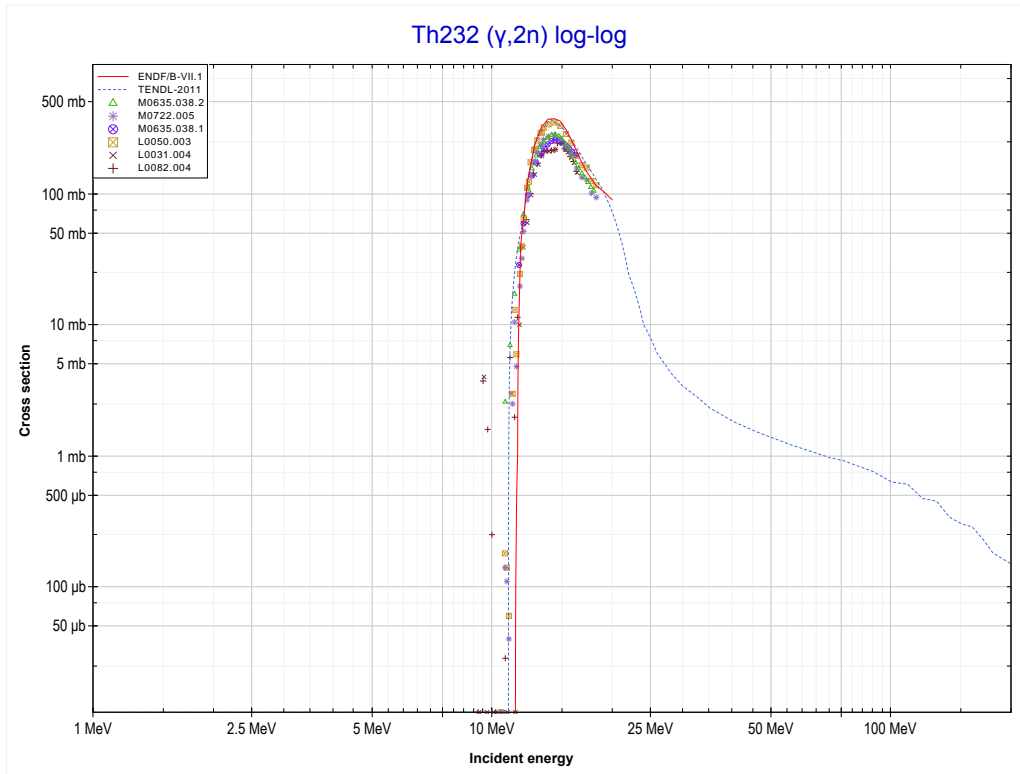
Reaction	Q-Value
Bi209($\gamma,6n$)Bi203	-45146.40 keV

<< 83-Bi-209	90-Th-232	92-U-233 >>
<< MT153 ($\gamma,6n$)	MT4 (γ,n) or MT5 (Th231 production)	MT16 ($\gamma,2n$) >>



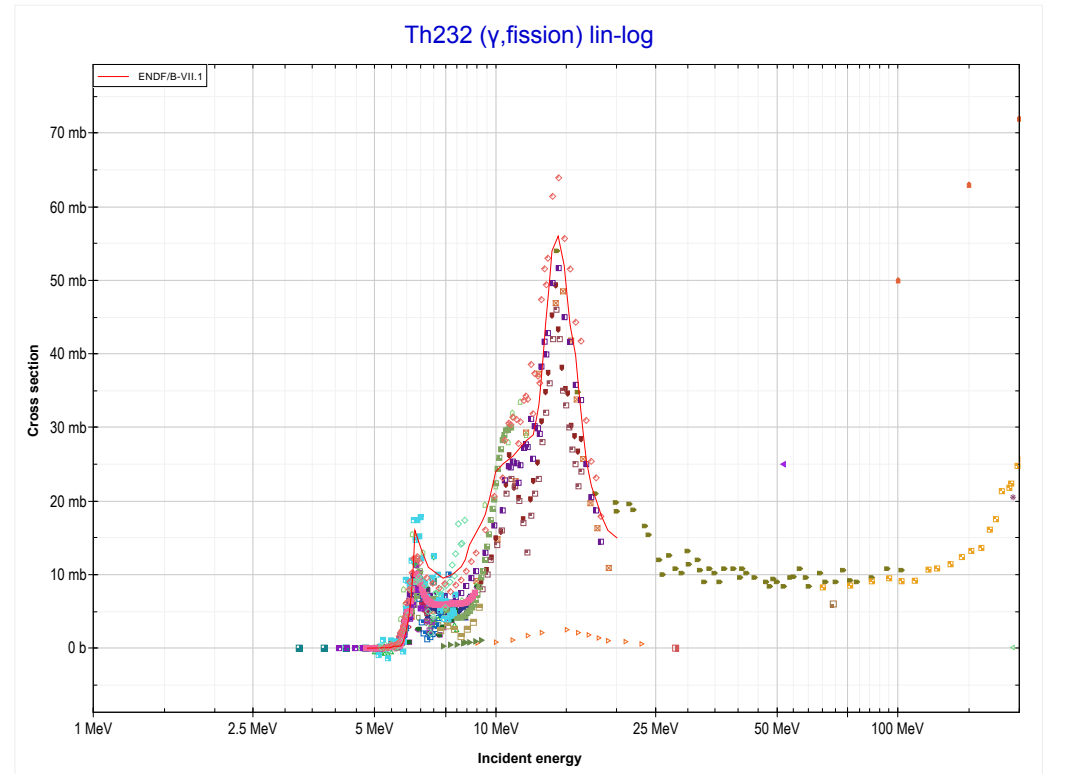
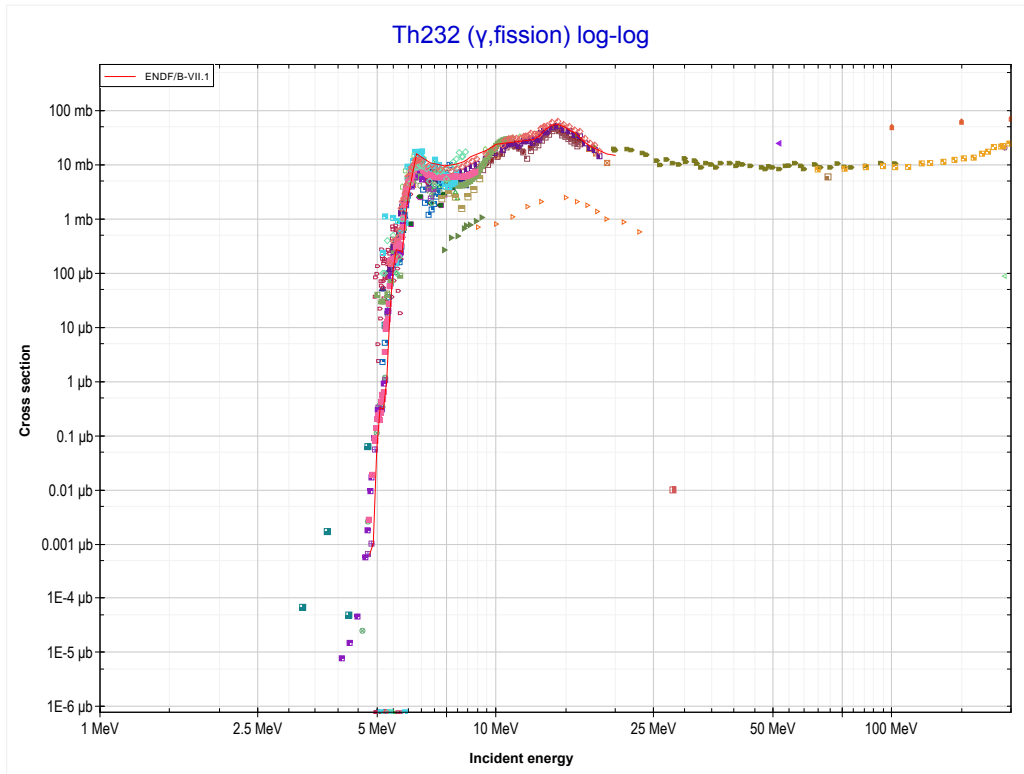
Reaction	Q-Value
Th232(γ,n)Th231	-6440.32 keV

<< 83-Bi-209	90-Th-232	92-U-235 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Th230 production)	MT18 ($\gamma,fission$) >>

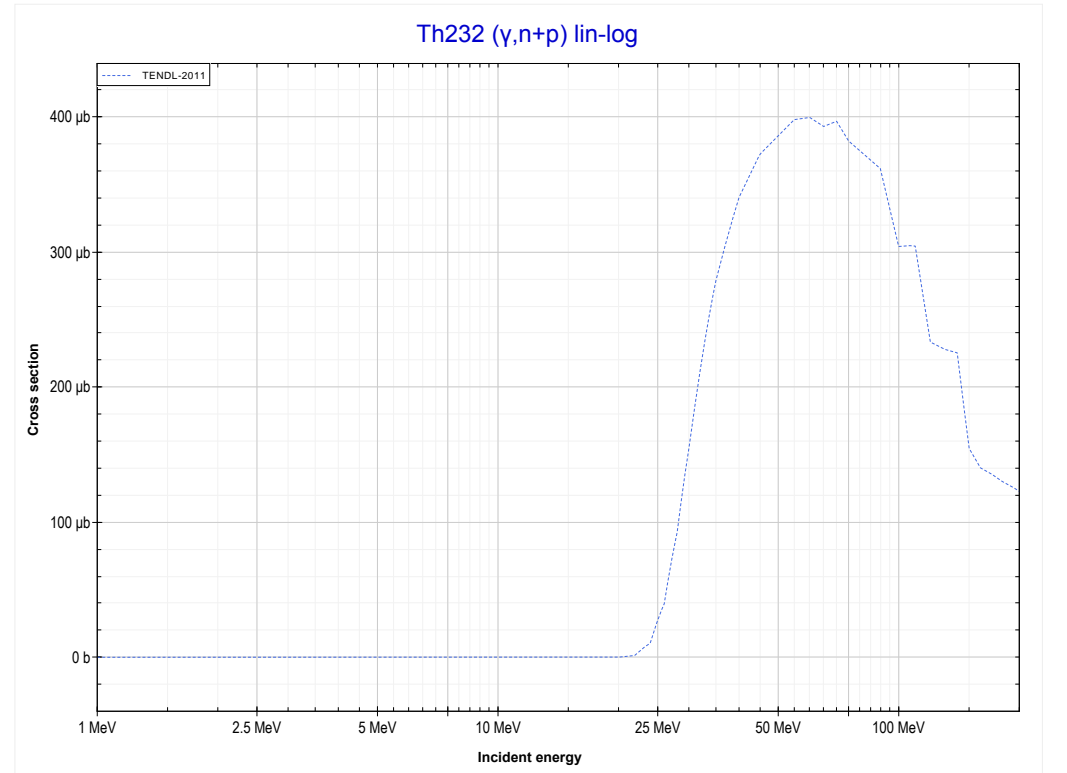
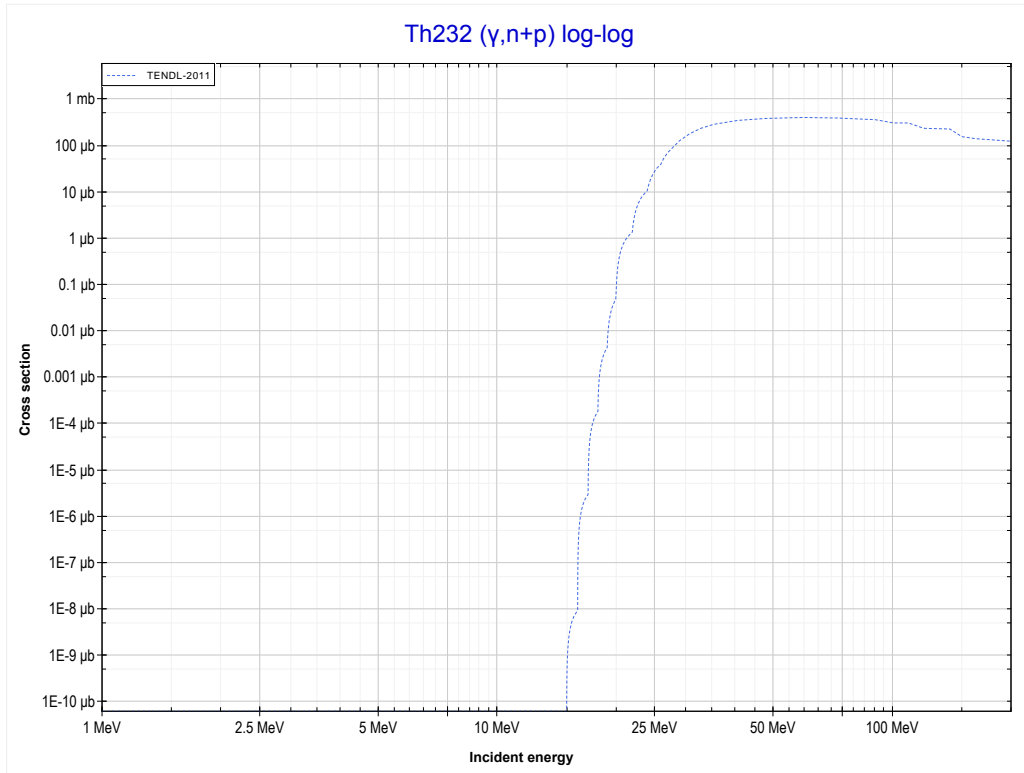


Reaction	Q-Value
Th232($\gamma,2n$)Th230	-11558.33 keV

<< 83-Bi-209	90-Th-232	92-U-233 >>
<< MT16 ($\gamma,2n$)	MT18 (γ,fission)	MT28 (γ ,n+p) >>

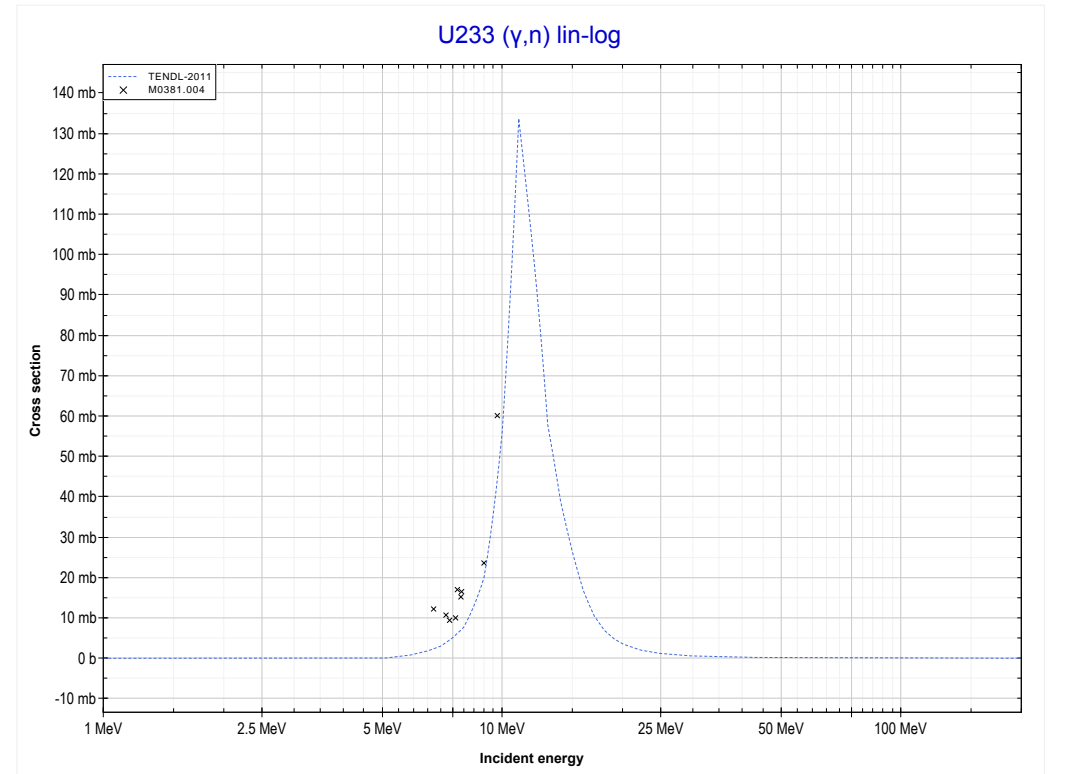
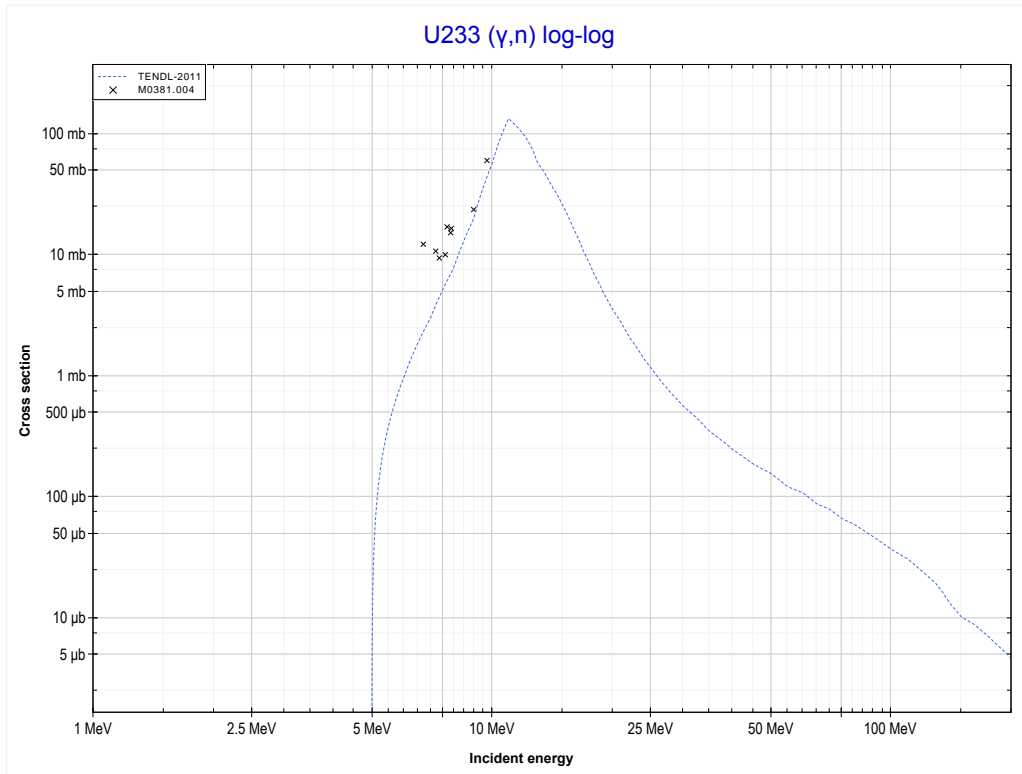


<< 83-Bi-209	90-Th-232	92-U-233 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Ac230 production)	MT4 (γ ,n) >>



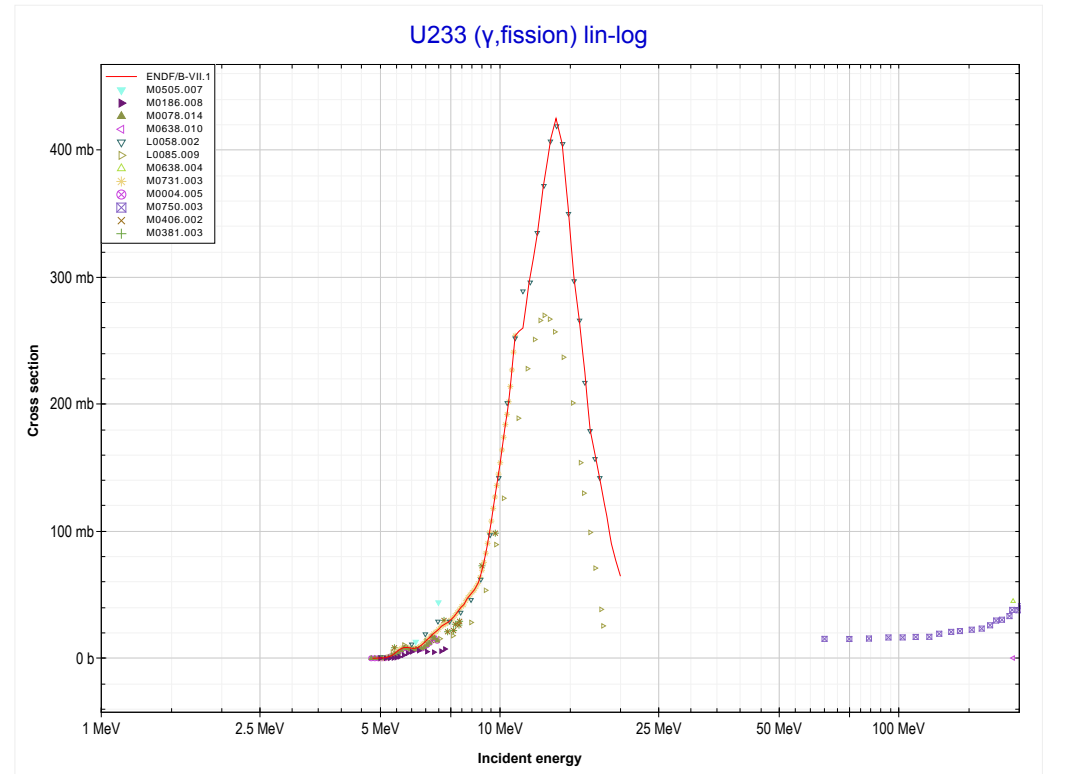
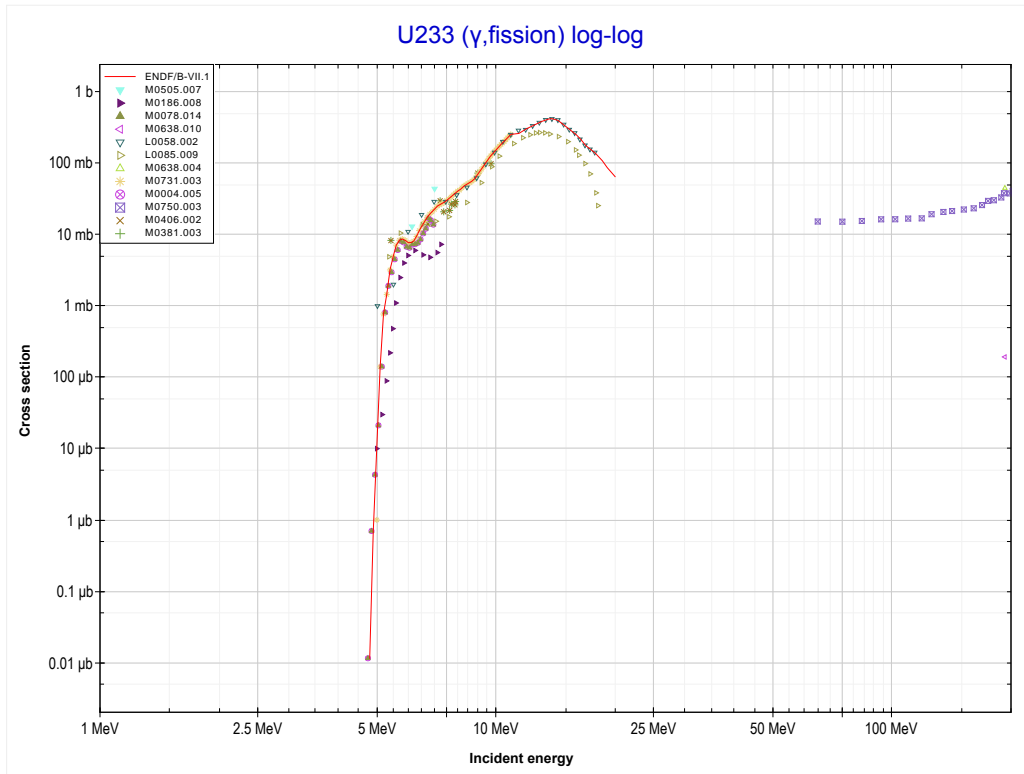
Reaction	Q-Value
Th232(γ ,d)Ac230	-11497.42 keV
Th232(γ ,n+p)Ac230	-13721.99 keV

<< 90-Th-232	92-U-233	92-U-234 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (U232 production)	MT18 ($\gamma, fission$) >>

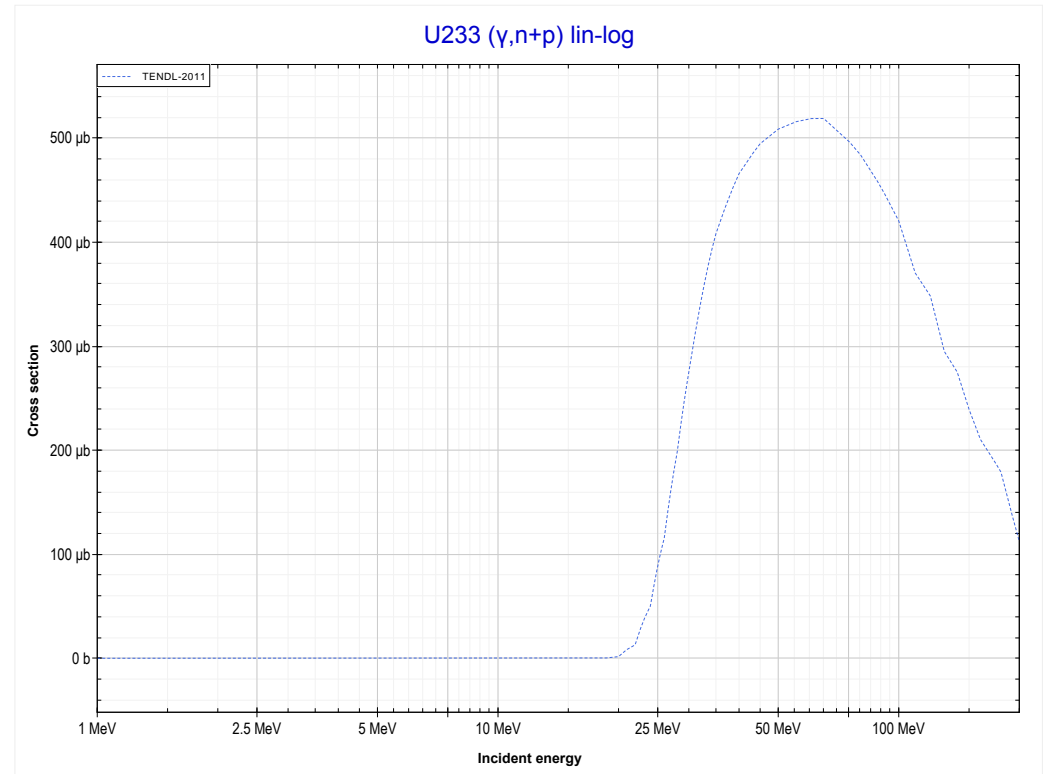
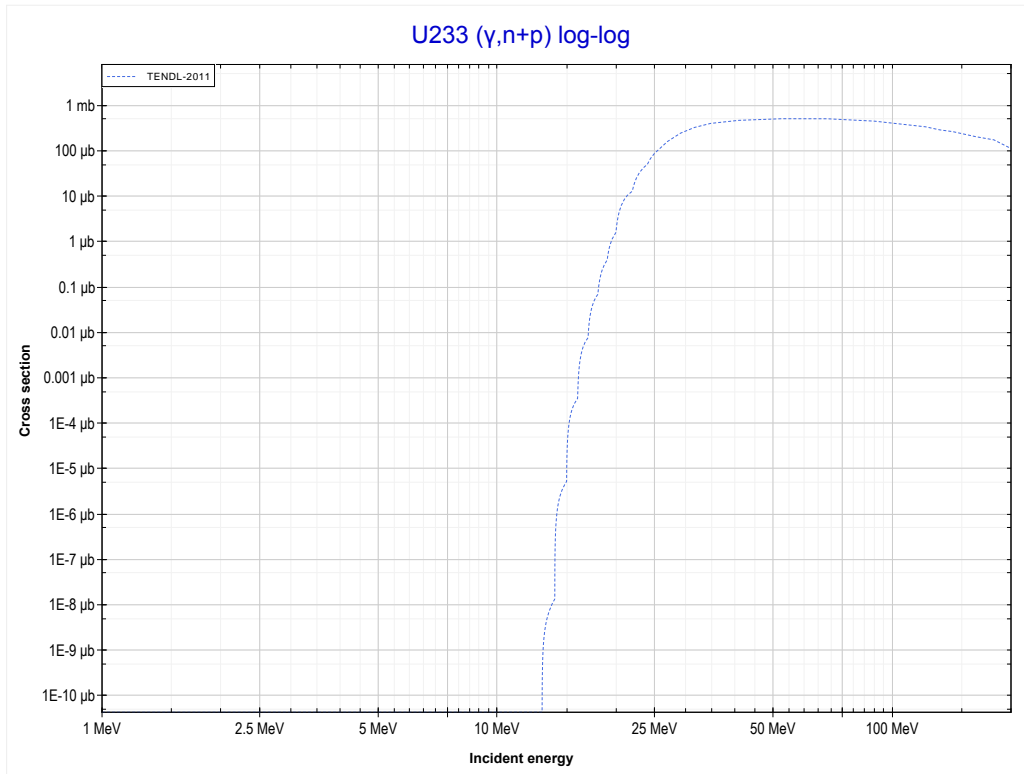


Reaction	Q-Value
U233(γ, n)U232	-5762.02 keV

<< 90-Th-232	92-U-233	92-U-234 >>
<< MT4 (γ,n)	MT18 (γ,fission)	MT28 ($\gamma,n+p$) >>

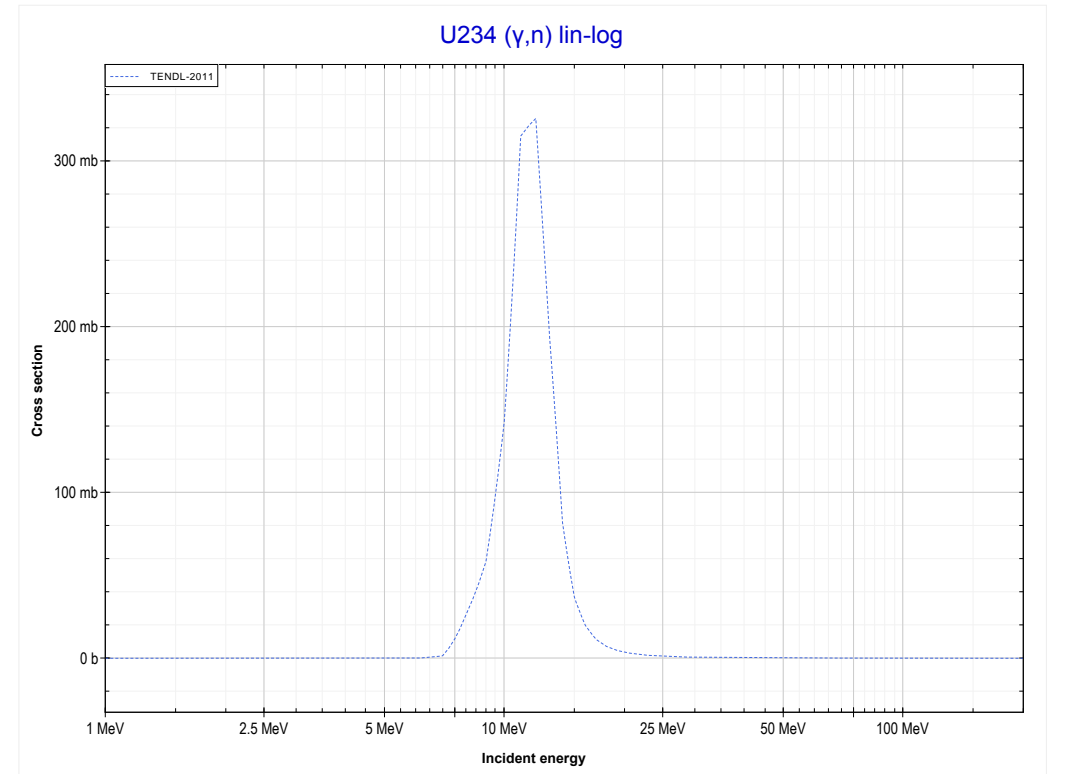
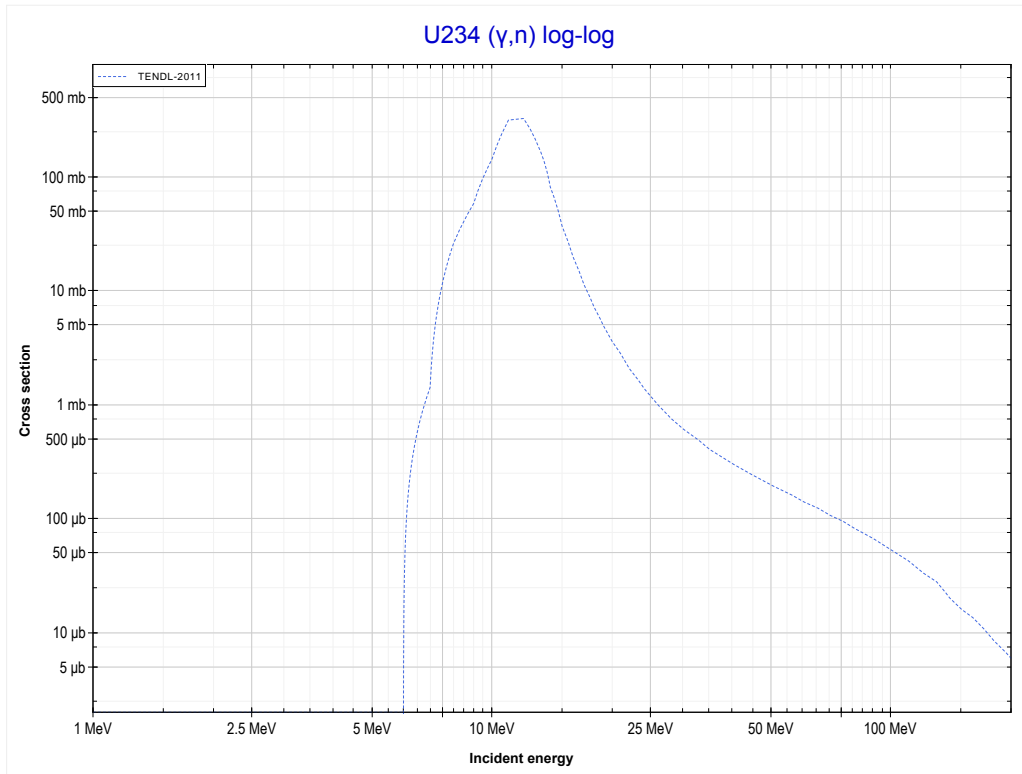


<< 90-Th-232	92-U-233	92-U-234 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Pa231 production)	MT4 (γ ,n) >>



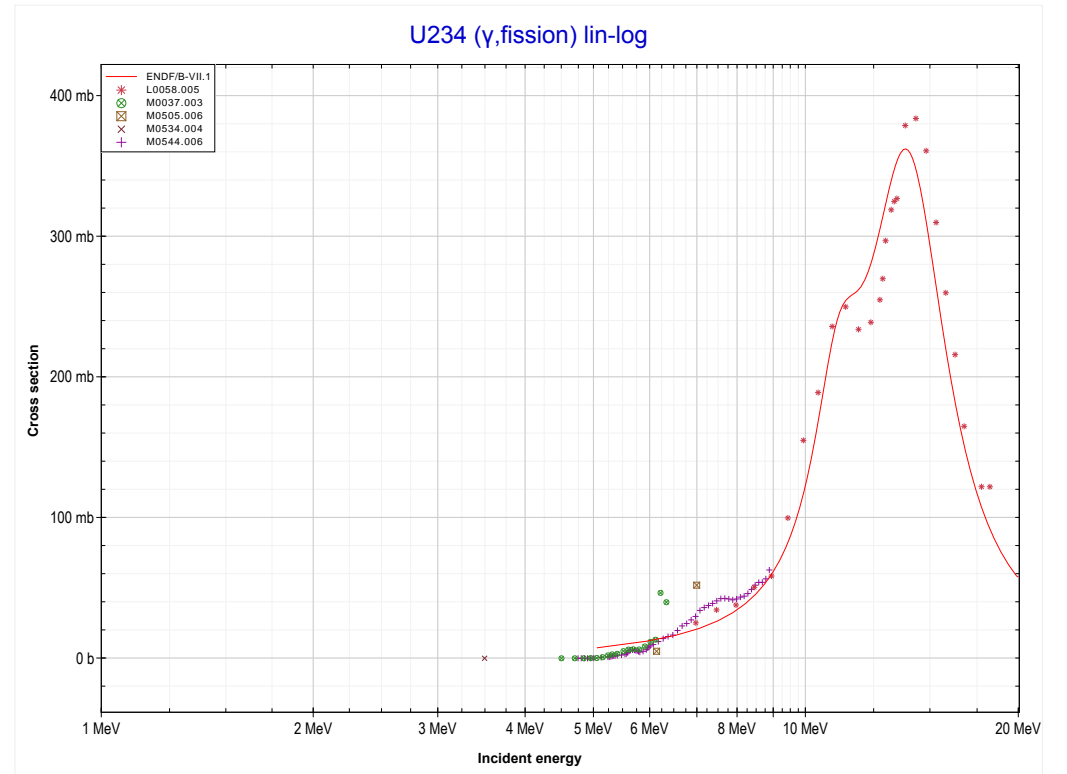
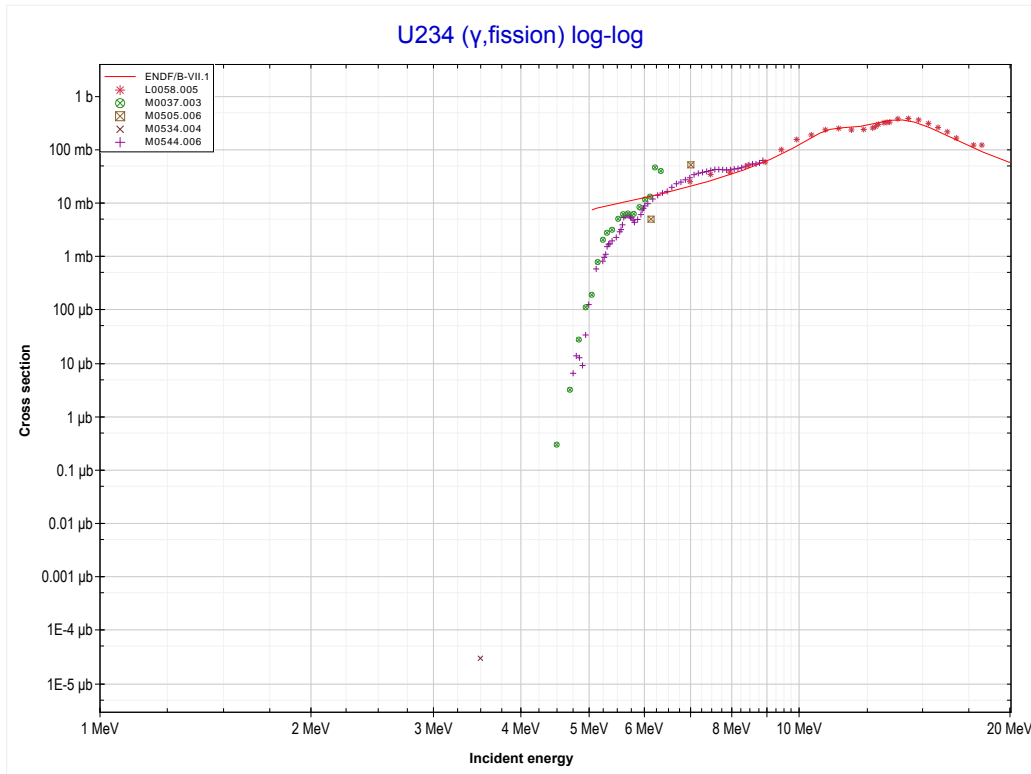
Reaction	Q-Value
$^{233}\text{U}(\gamma, d)\text{Pa}231$	-9641.42 keV
$^{233}\text{U}(\gamma, n+p)\text{Pa}231$	-11865.99 keV

<< 92-U-233	92-U-234	92-U-235 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (U233 production)	MT18 ($\gamma, fission$) >>

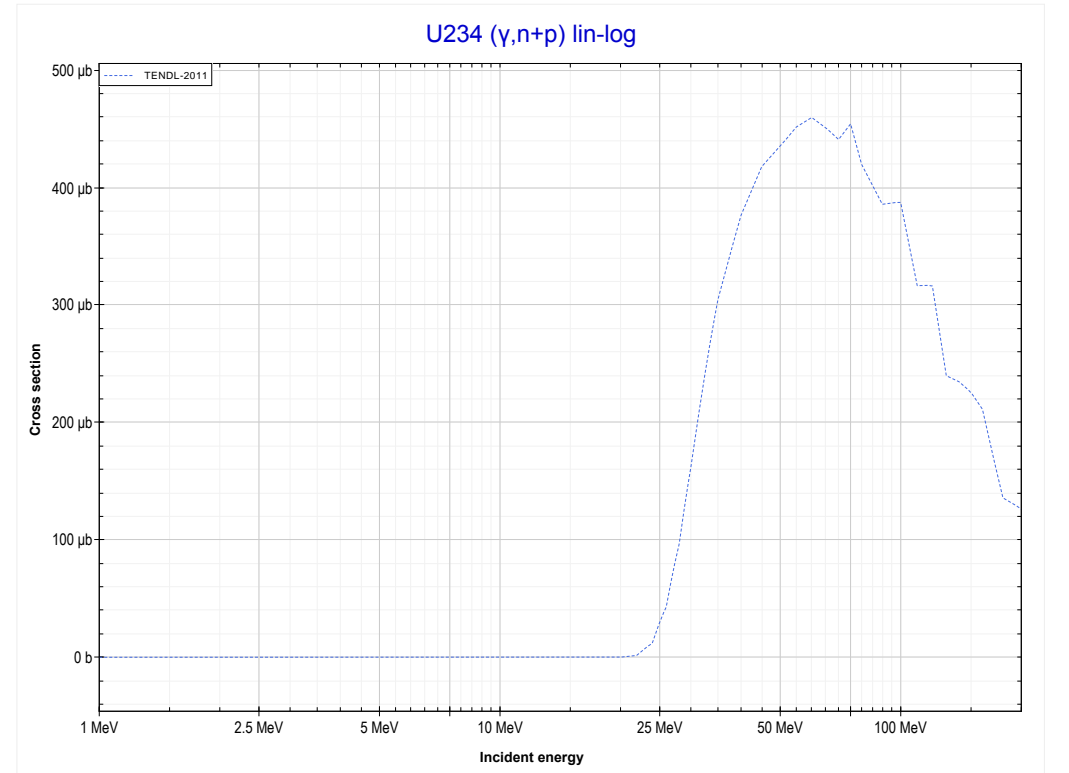
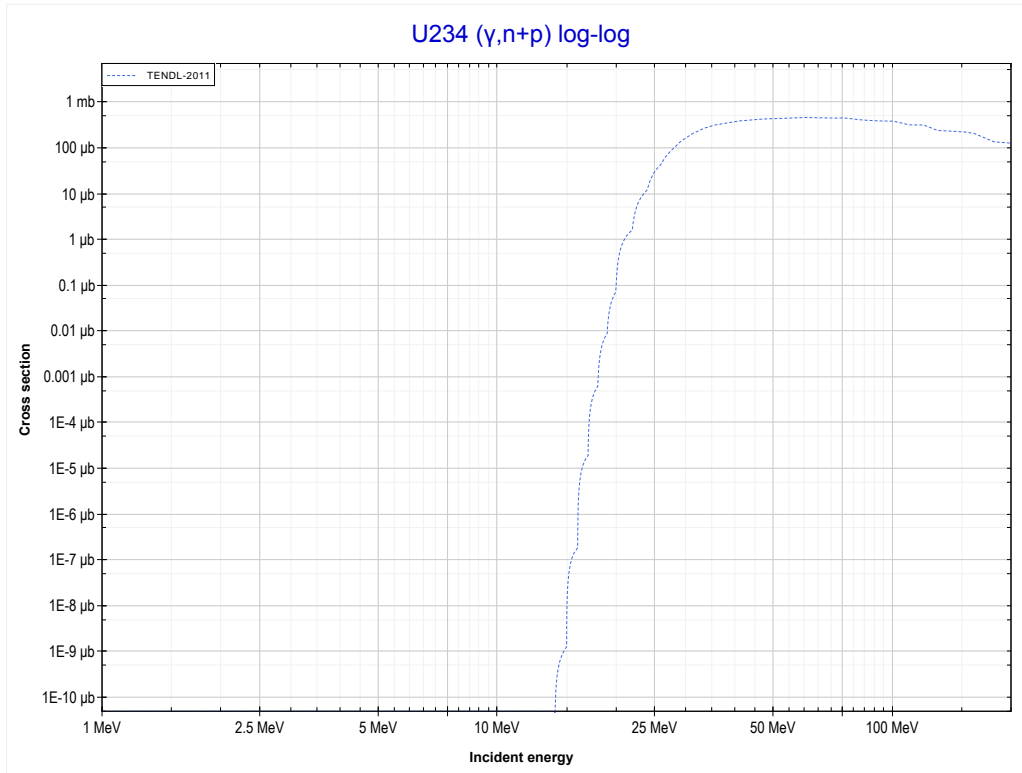


Reaction	Q-Value
U234(γ, n)U233	-6844.72 keV

<< 92-U-233	92-U-234	92-U-235 >>
<< MT4 (γ,n)	MT18 ($\gamma,fission$)	MT28 ($\gamma,n+p$) >>

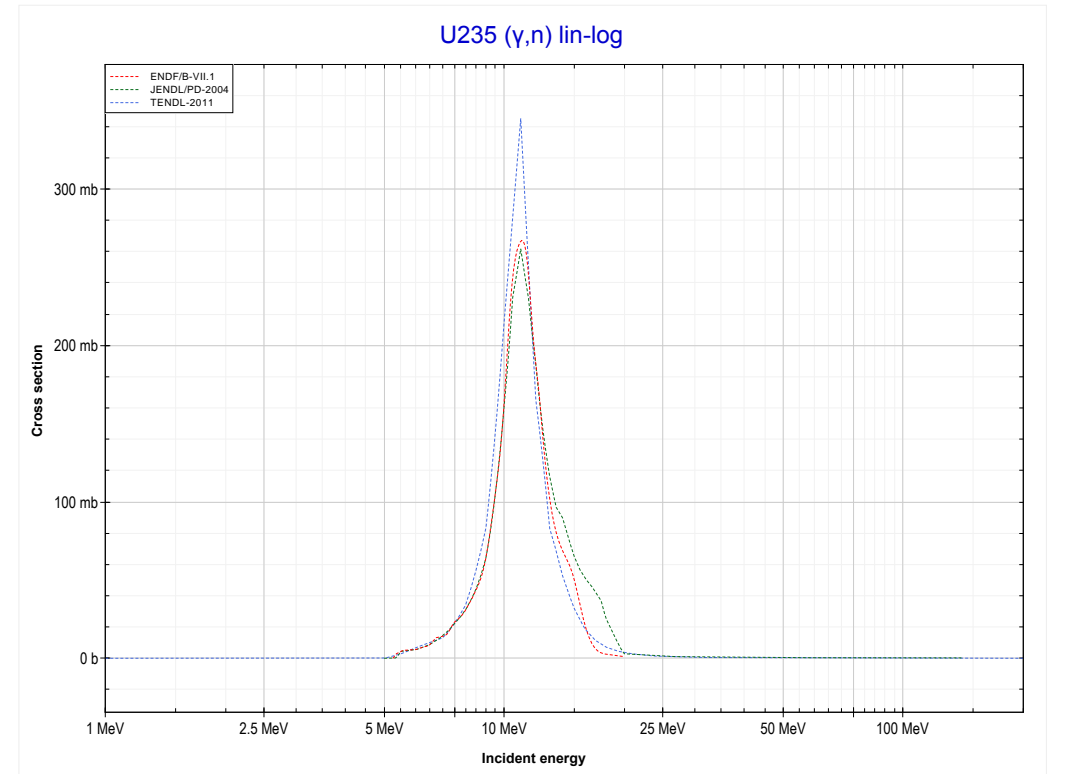
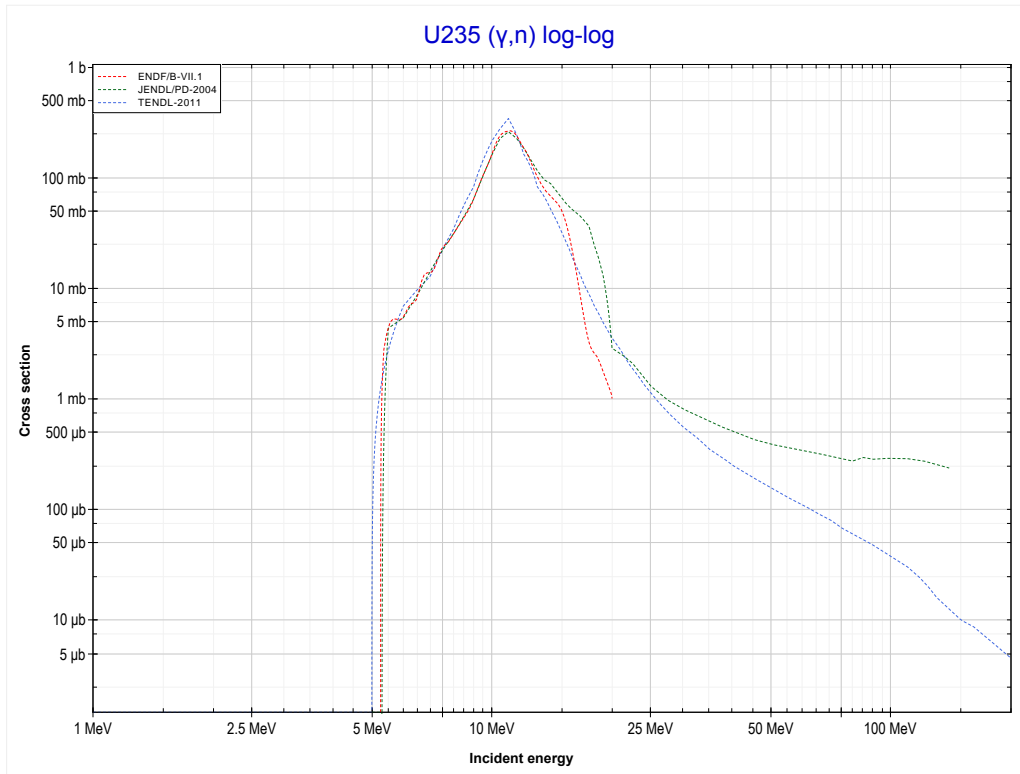


<< 92-U-233	92-U-234	92-U-235 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Pa232 production)	MT4 (γ ,n) >>



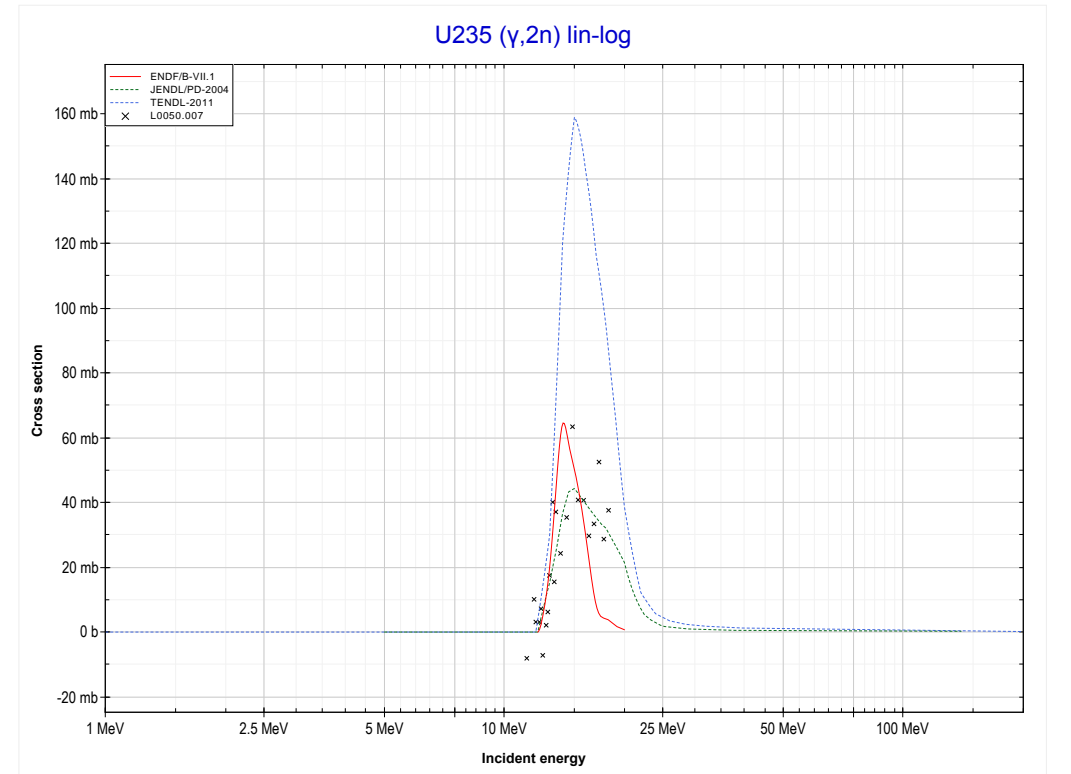
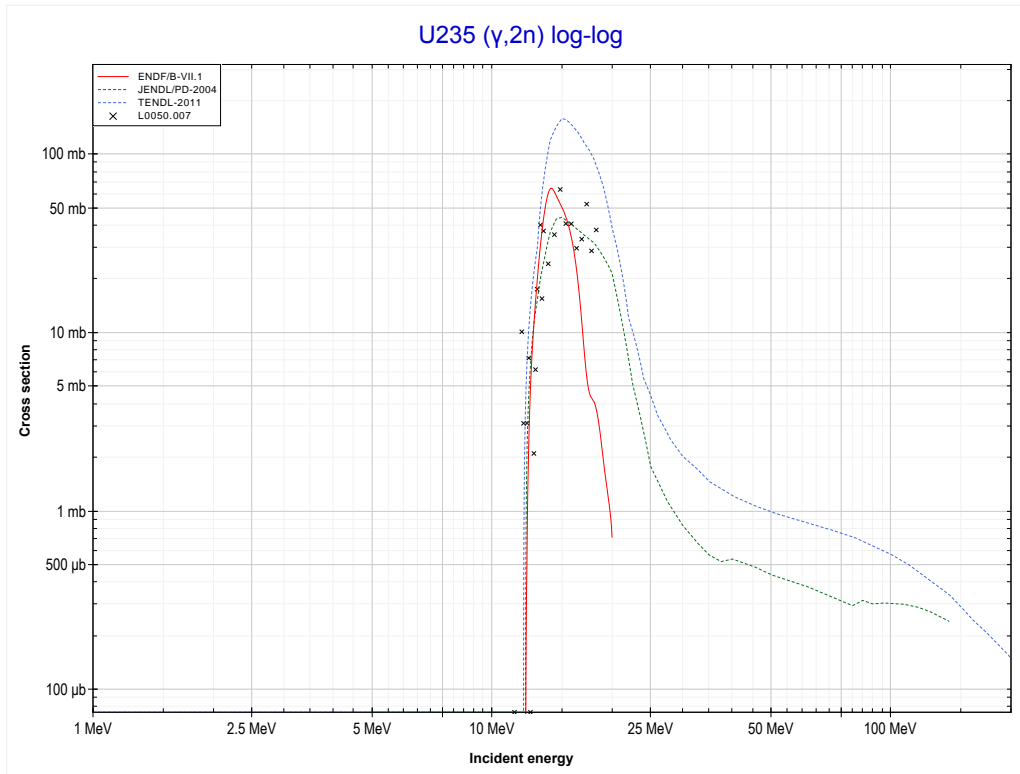
Reaction	Q-Value
U234(γ ,d)Pa232	-10937.12 keV
U234(γ ,n+p)Pa232	-13161.69 keV

<< 92-U-234	92-U-235	92-U-236 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (U234 production)	MT16 ($\gamma, 2n$) >>



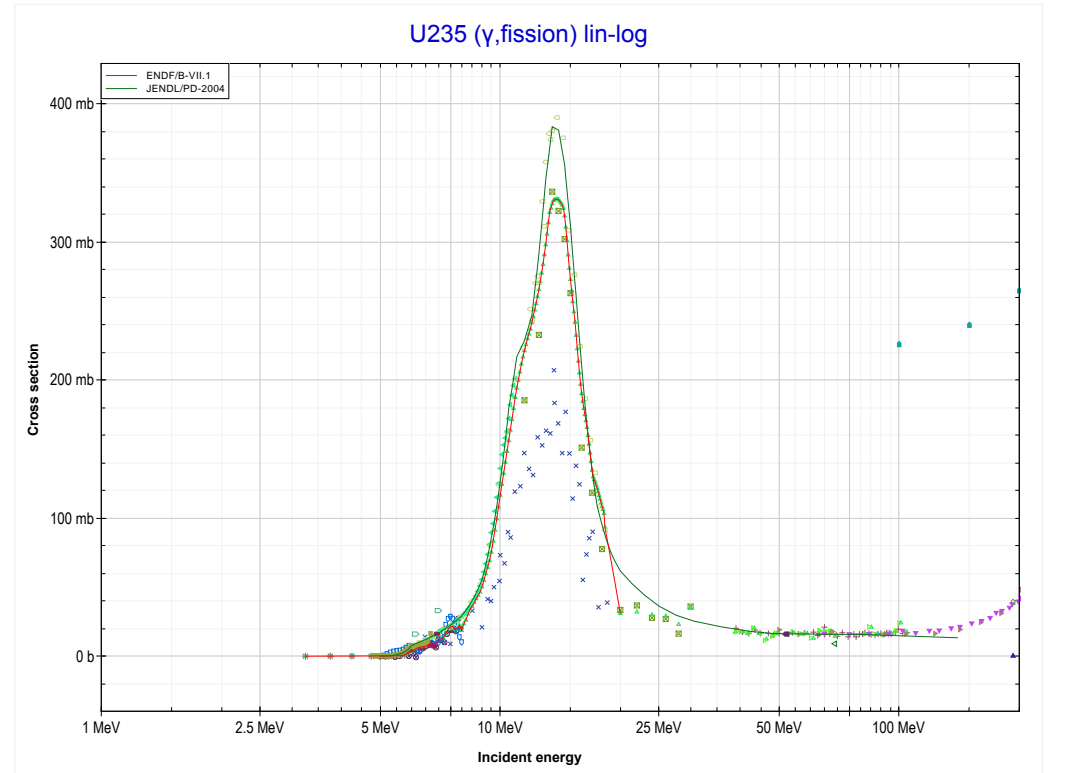
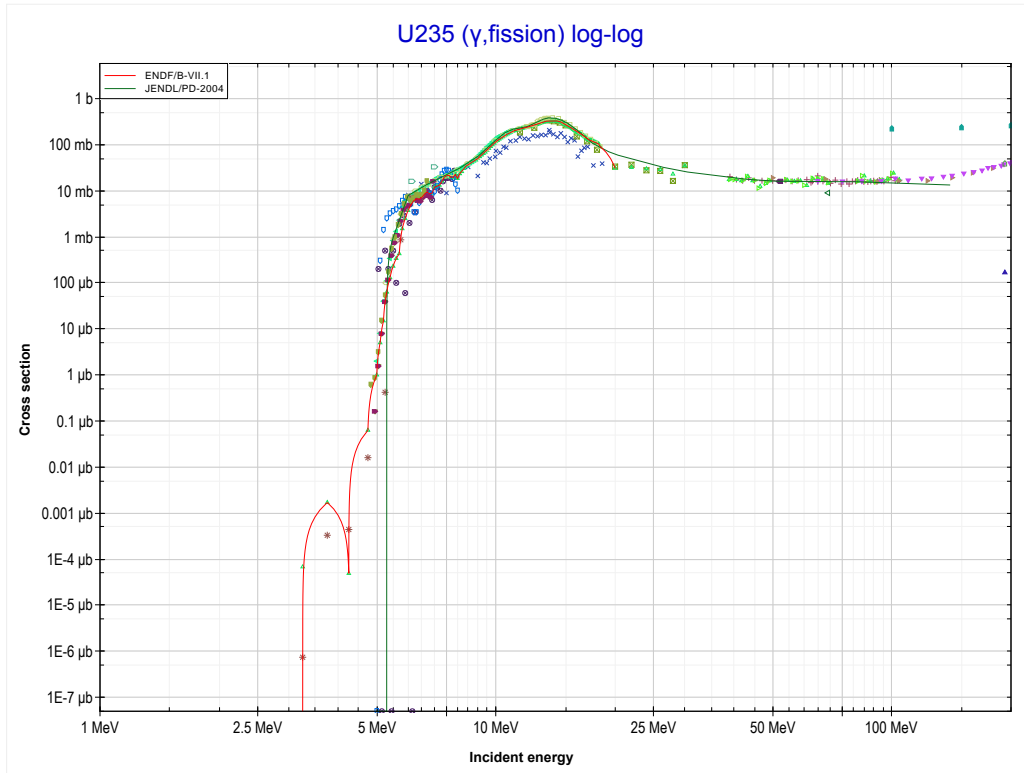
Reaction	Q-Value
U235(γ, n)U234	-5297.42 keV

<< 90-Th-232	92-U-235	92-U-236 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (U233 production)	MT18 ($\gamma,fission$) >>

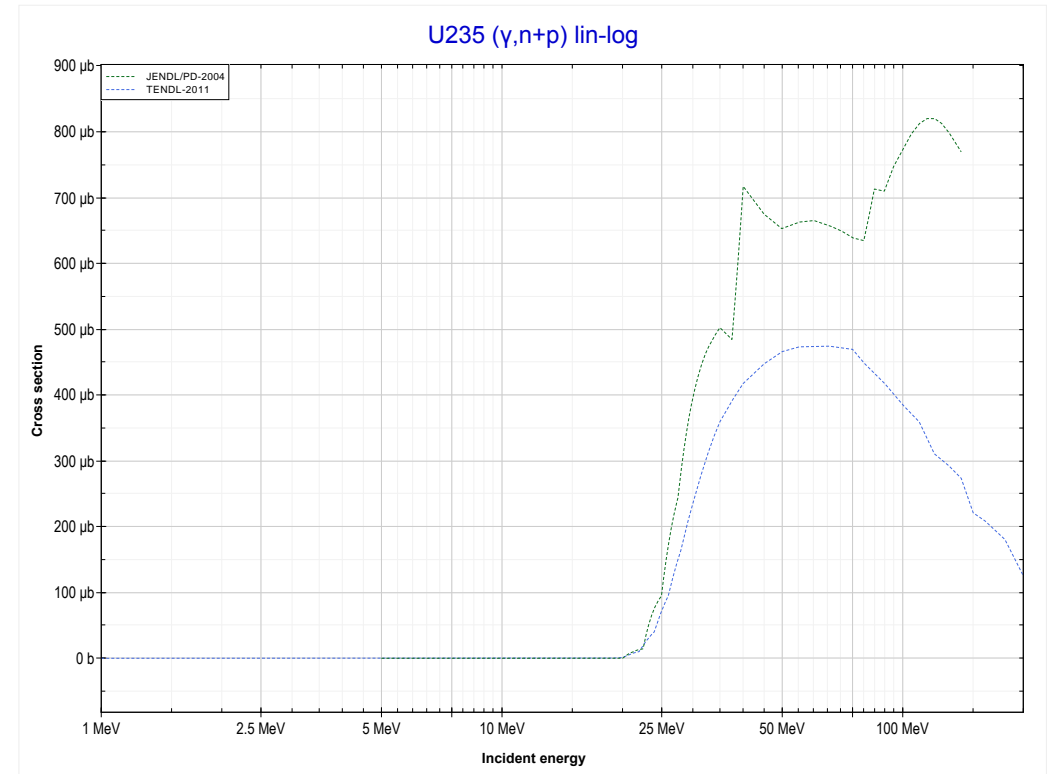
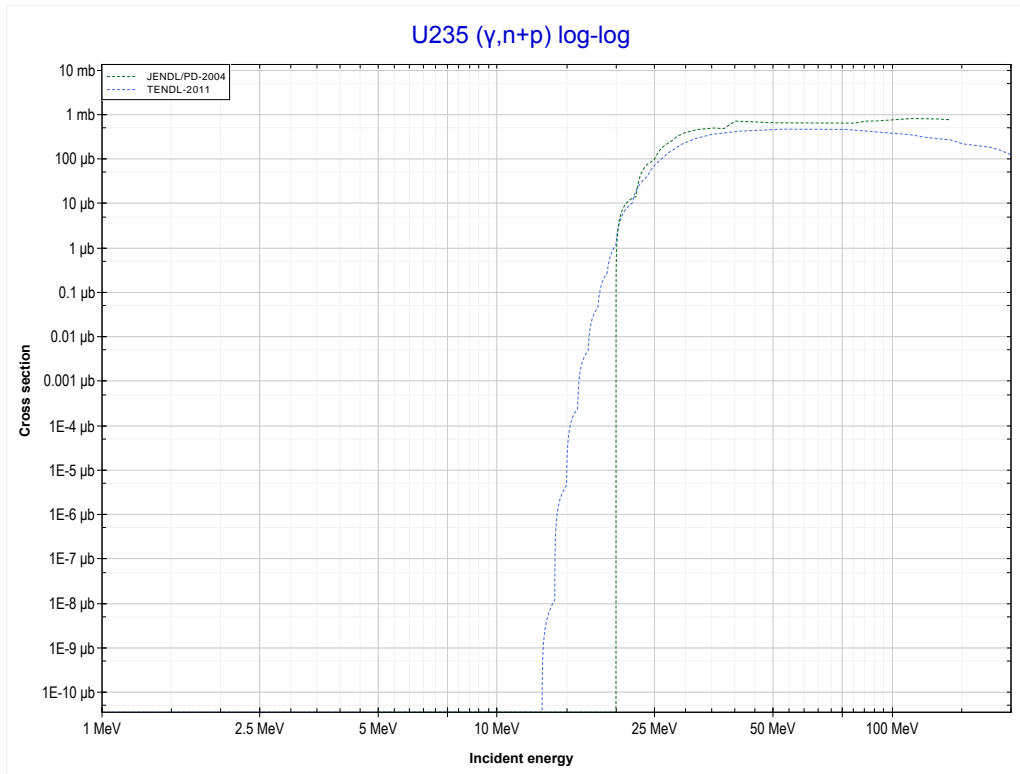


Reaction	Q-Value
U235($\gamma,2n$)U233	-12142.13 keV

<< 92-U-234	92-U-235	92-U-236 >>
<< MT16 ($\gamma,2n$)	MT18 (γ,fission)	MT28 ($\gamma,n+p$) >>

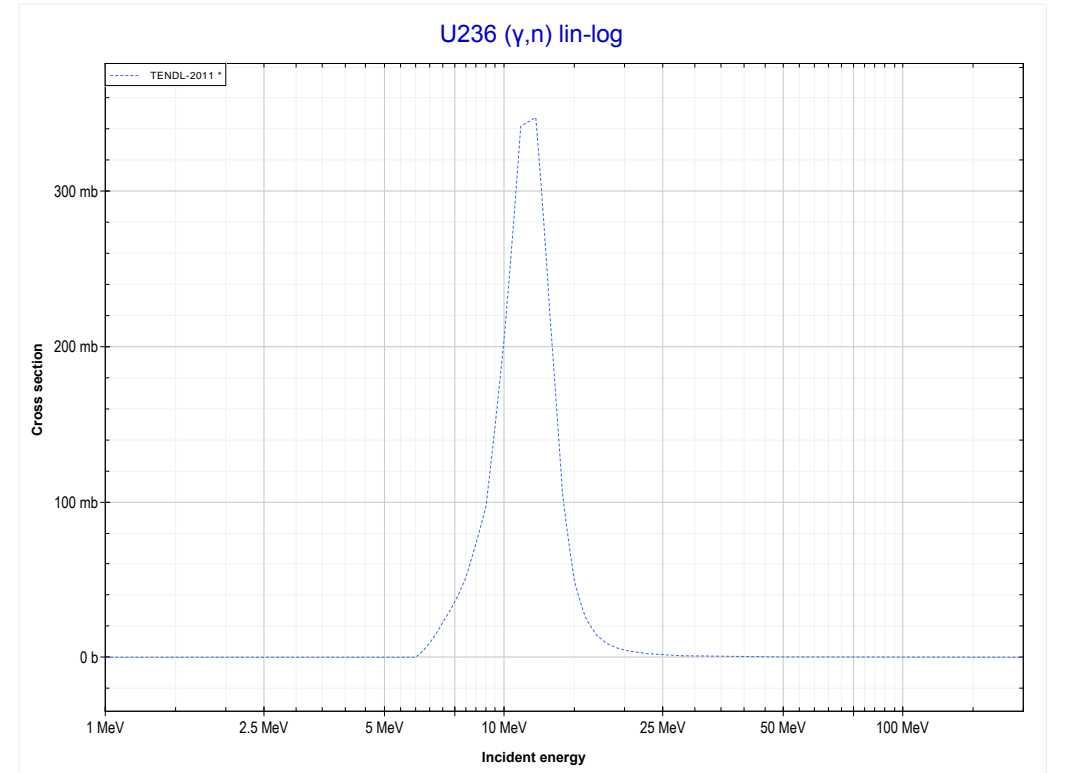
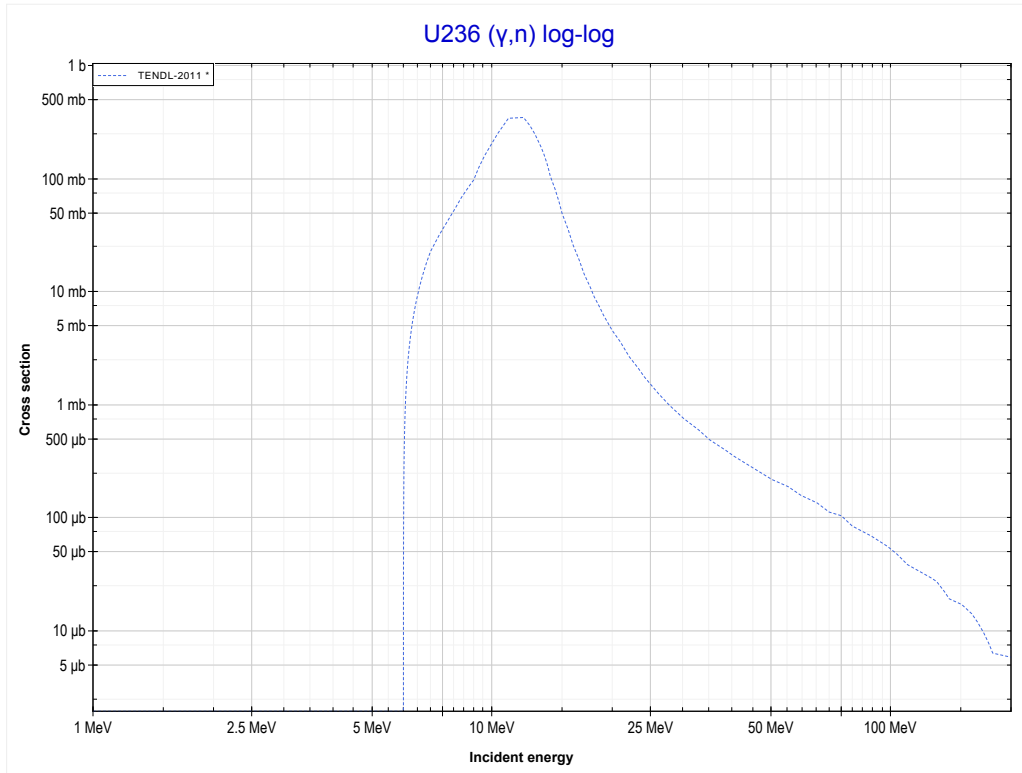


<< 92-U-234	92-U-235	92-U-236 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Pa233 production)	MT4 (γ ,n) >>



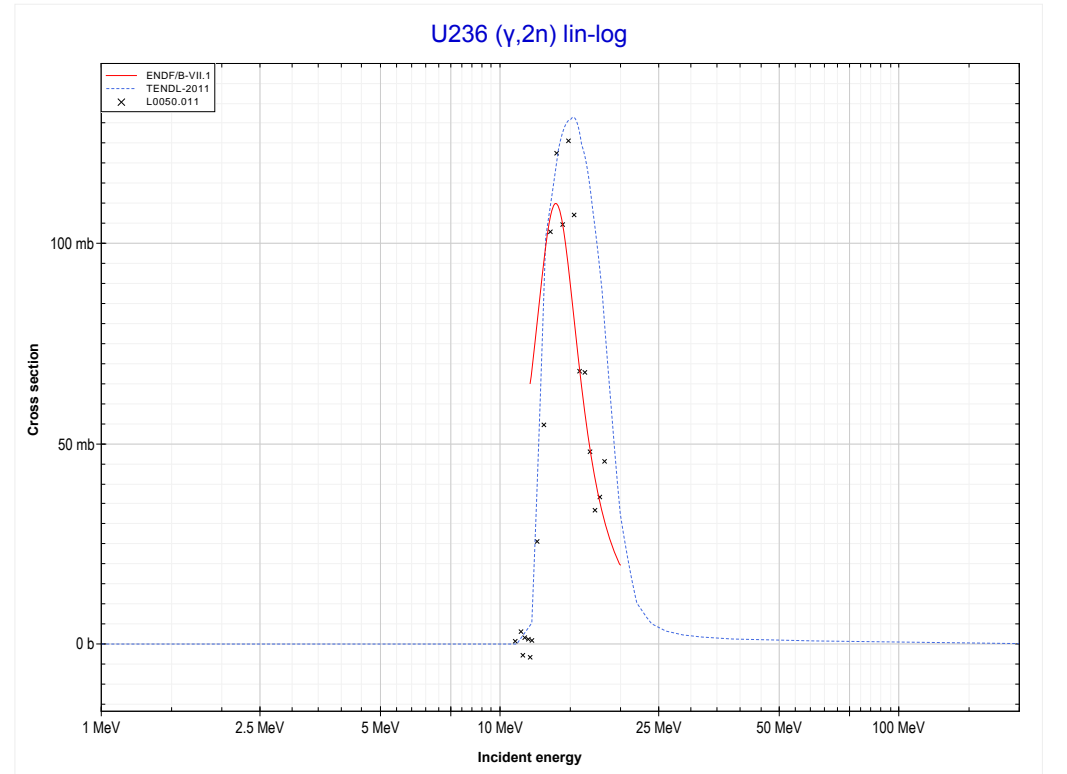
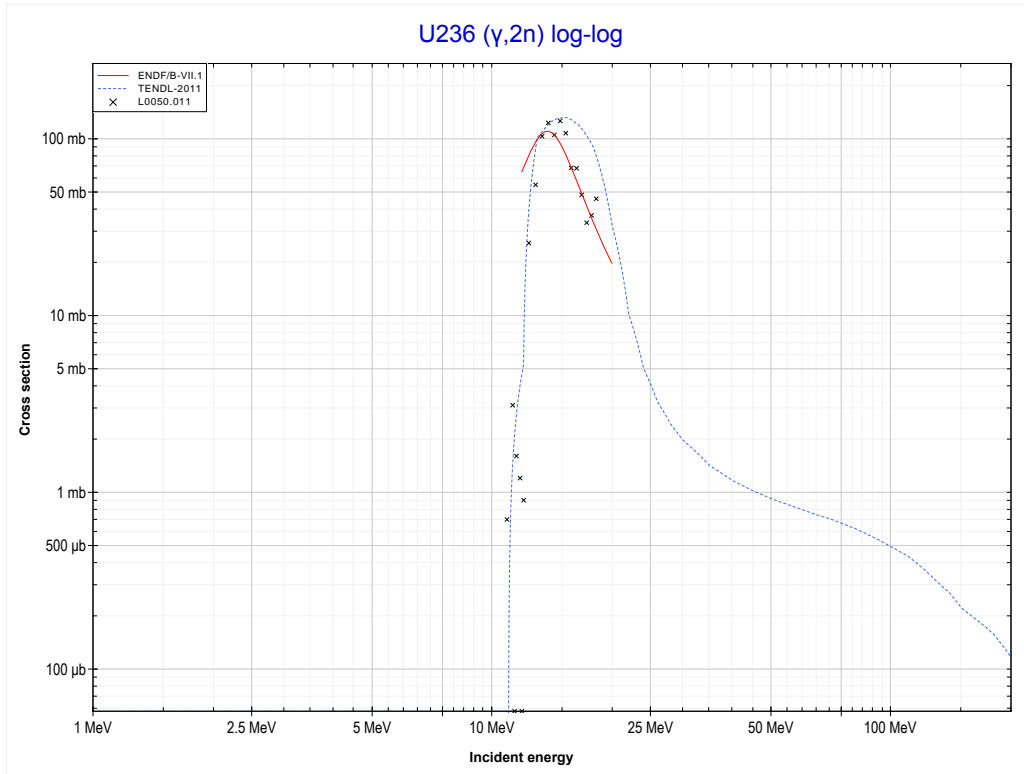
Reaction	Q-Value
U235(γ ,d)Pa233	-9705.32 keV
U235(γ ,n+p)Pa233	-11929.89 keV

<< 92-U-235	92-U-236	92-U-238 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (U235 production)	MT16 ($\gamma, 2n$) >>



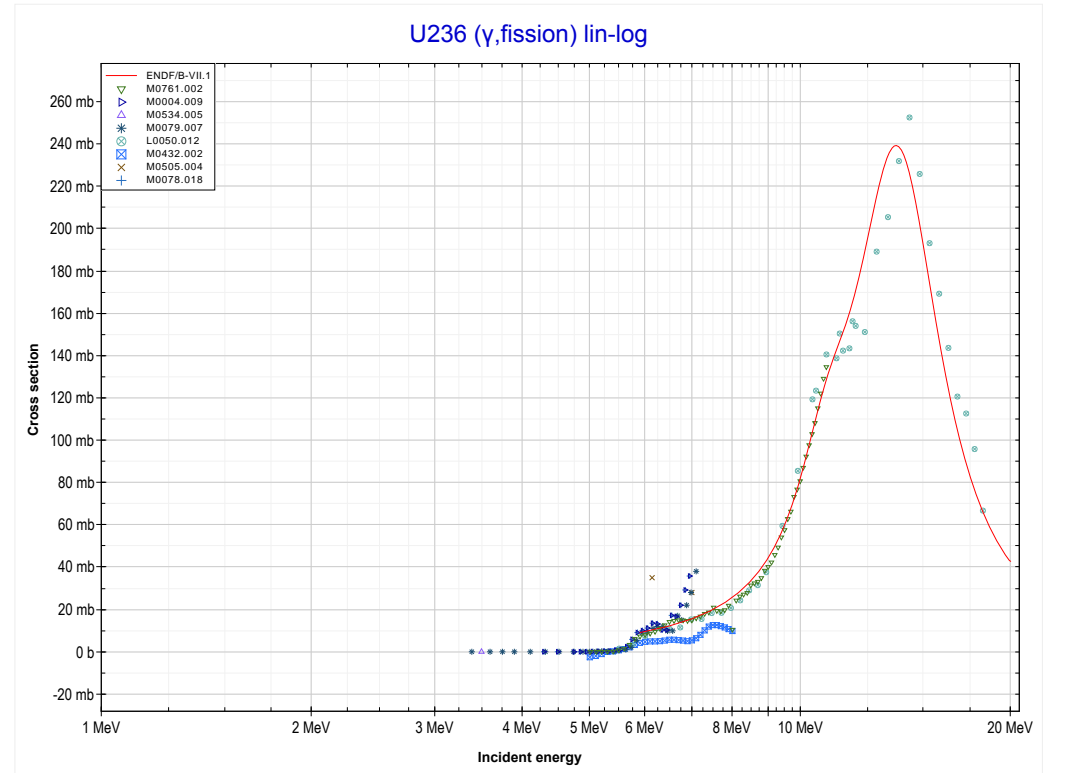
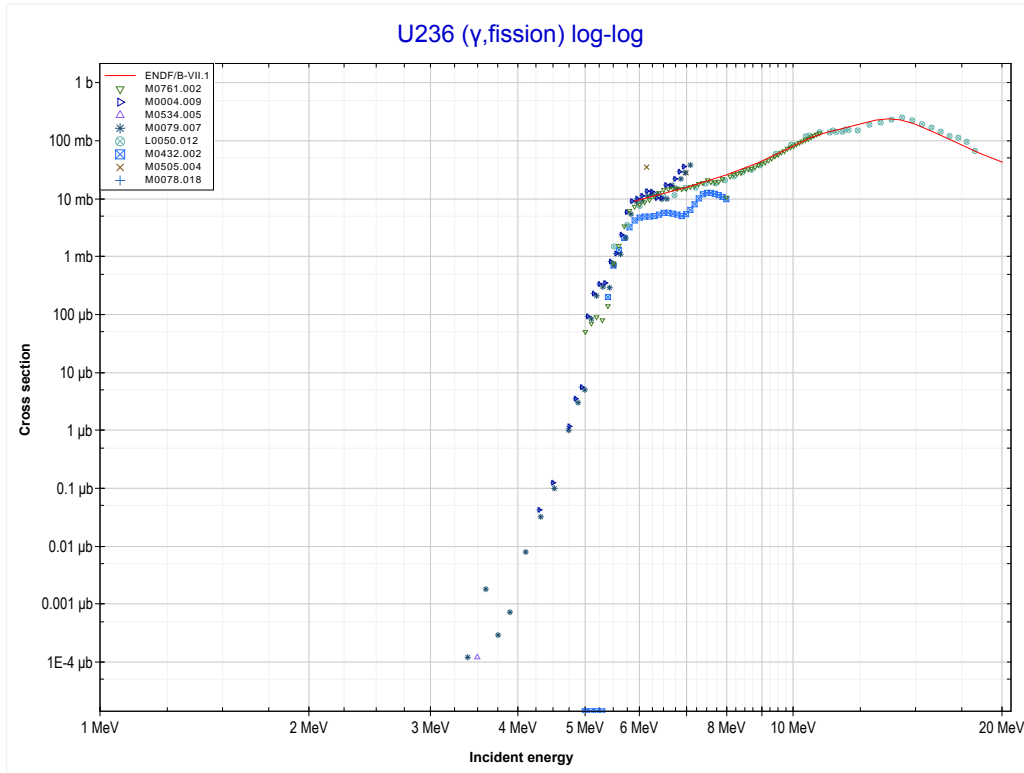
Reaction	Q-Value
U236(γ, n)U235	-6545.52 keV

<< 92-U-235	92-U-236	92-U-238 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (U234 production)	MT18 ($\gamma,fission$) >>

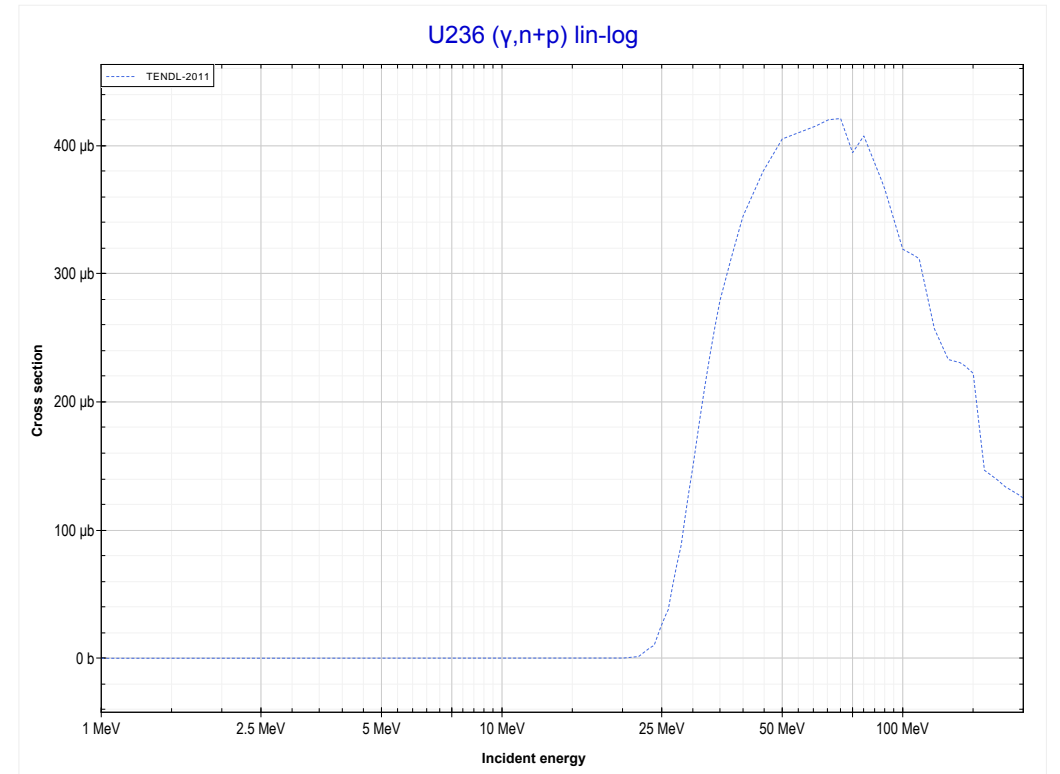
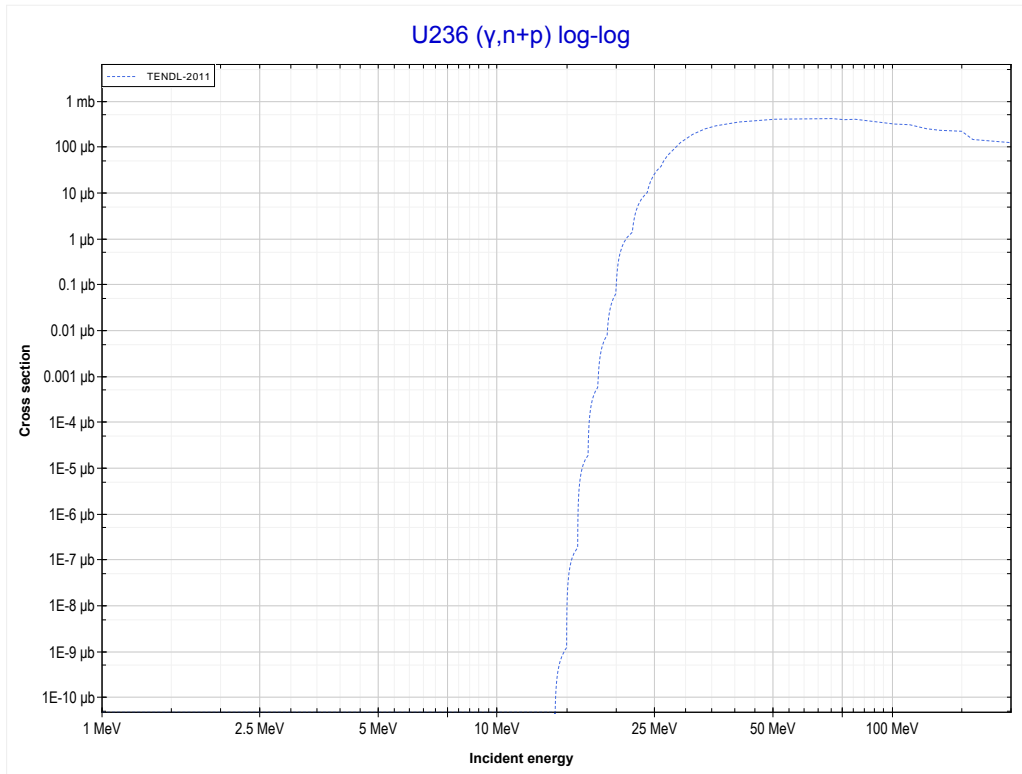


Reaction	Q-Value
U236($\gamma,2n$)U234	-11842.93 keV

<< 92-U-235	92-U-236	92-U-238 >>
<< MT16 ($\gamma,2n$)	MT18 (γ,fission)	MT28 (γ ,n+p) >>

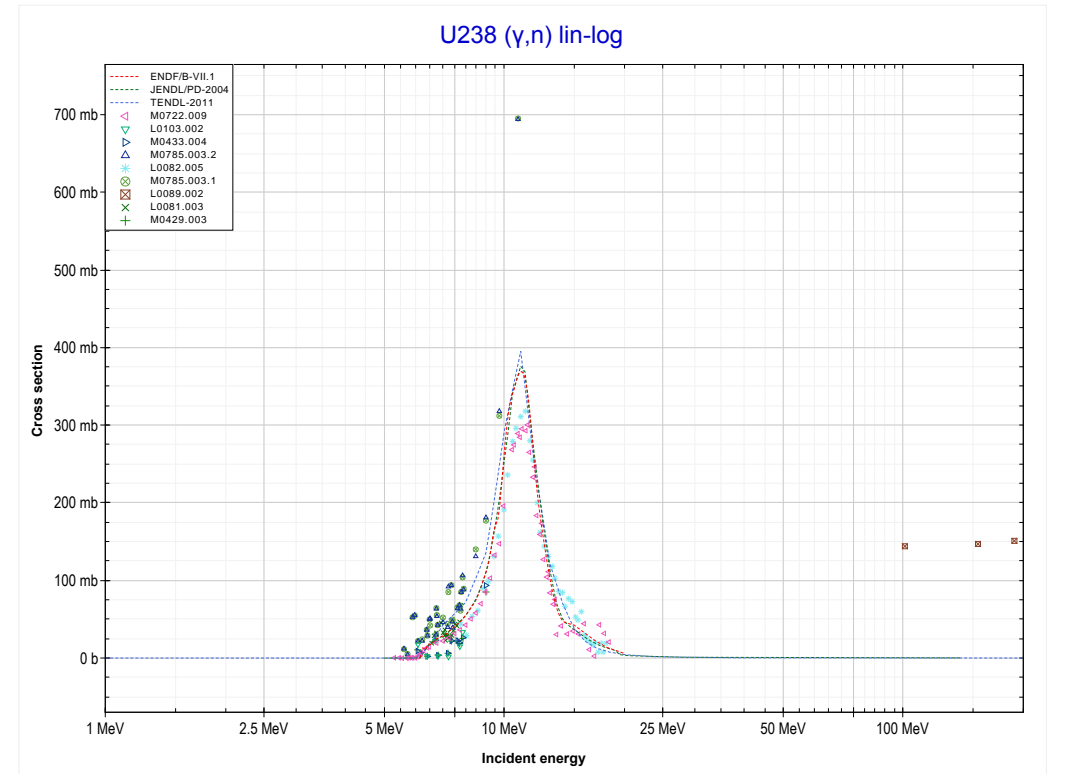
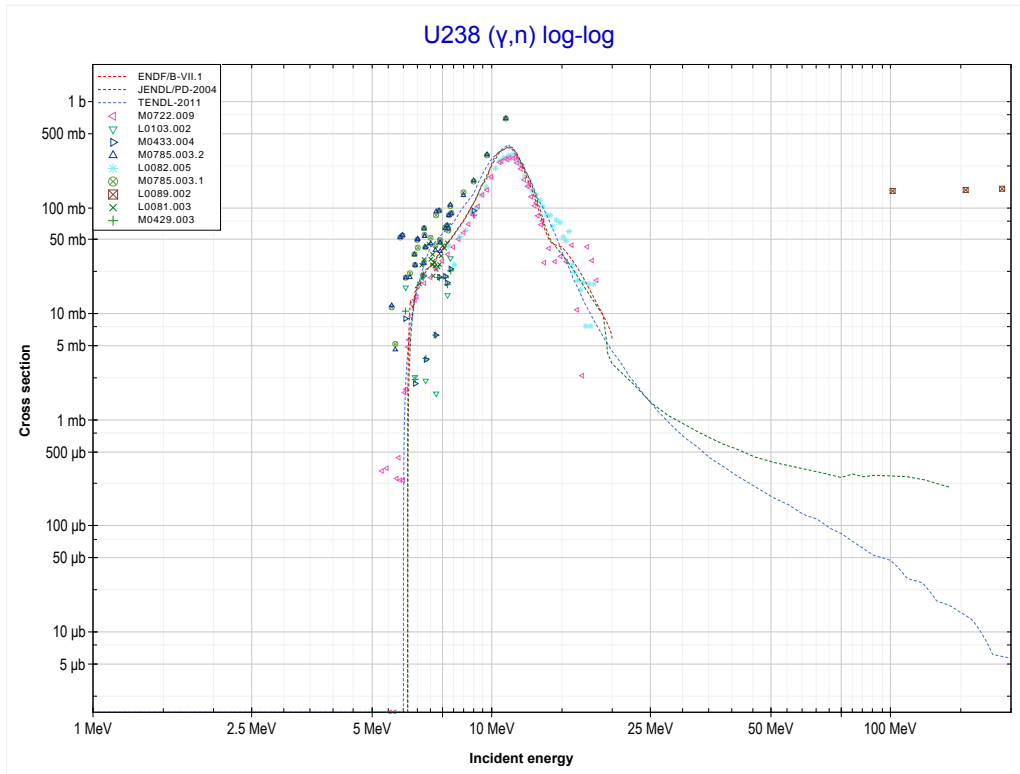


<< 92-U-235	92-U-236	92-U-238 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Pa234 production)	MT4 (γ ,n) >>



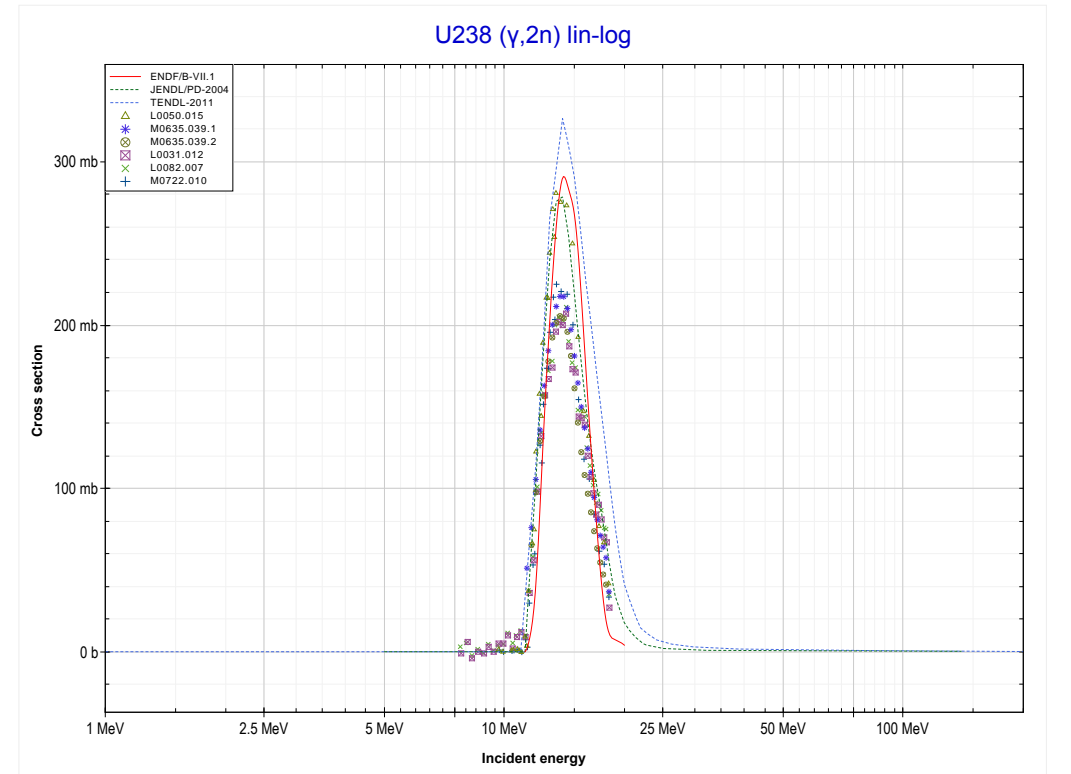
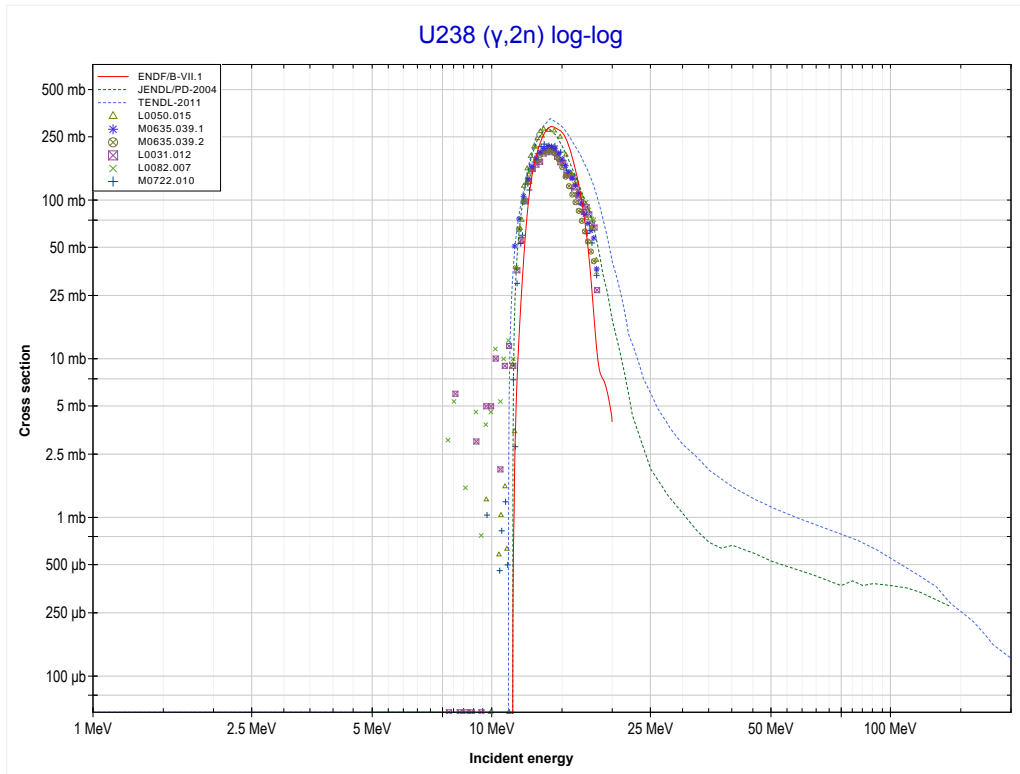
Reaction	Q-Value
U236(γ ,d)Pa234	-11030.42 keV
U236(γ ,n+p)Pa234	-13254.99 keV

<< 92-U-236	92-U-238	93-Np-237 >>
<< MT28 ($\gamma,n+p$)	MT4 (γ,n) or MT5 (U237 production)	MT16 ($\gamma,2n$) >>



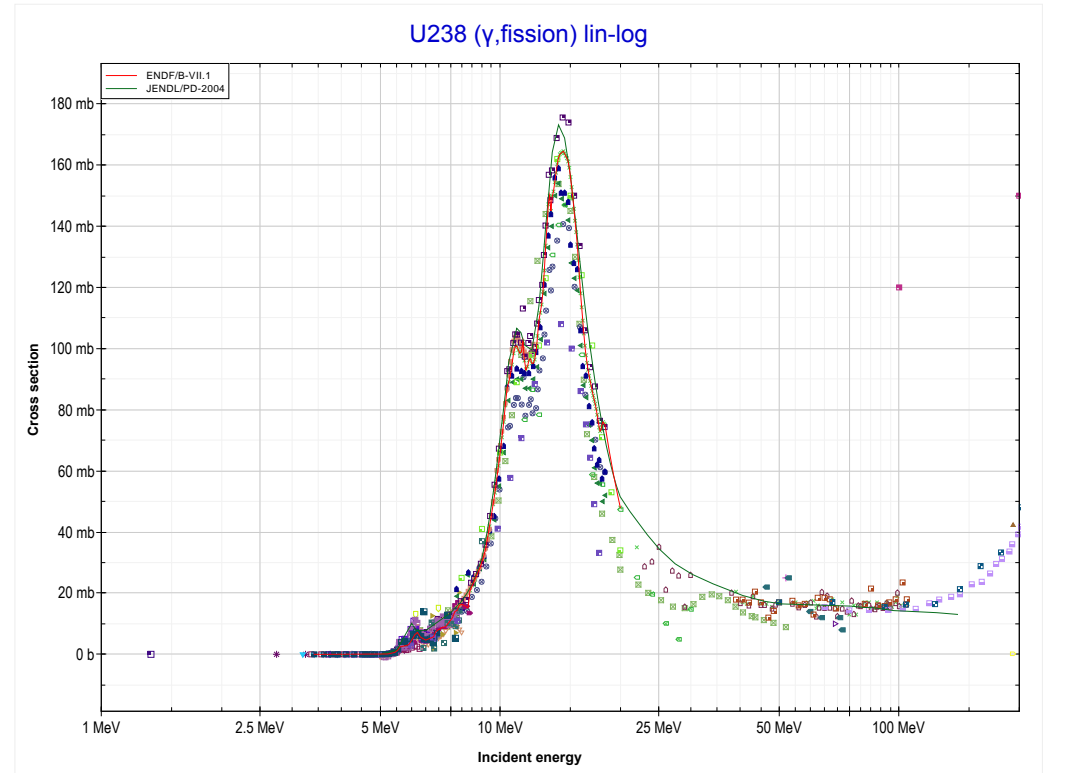
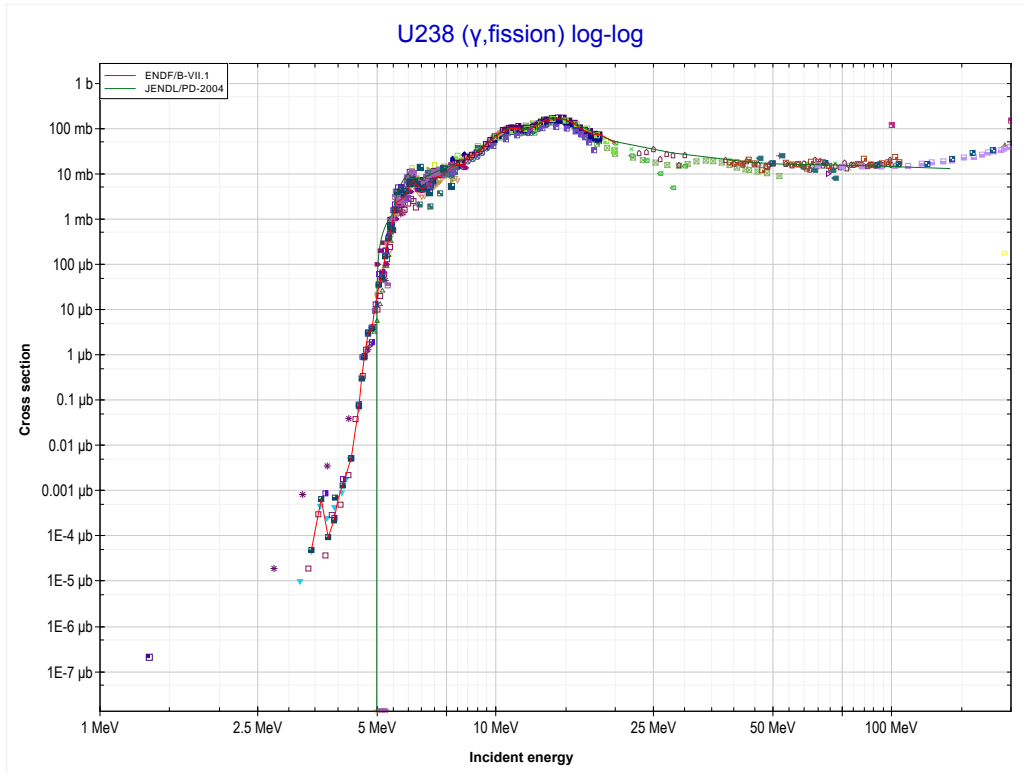
Reaction	Q-Value
U238(γ,n)U237	-6154.32 keV

<< 92-U-236	92-U-238	93-Np-237 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (U236 production)	MT18 ($\gamma,fission$) >>

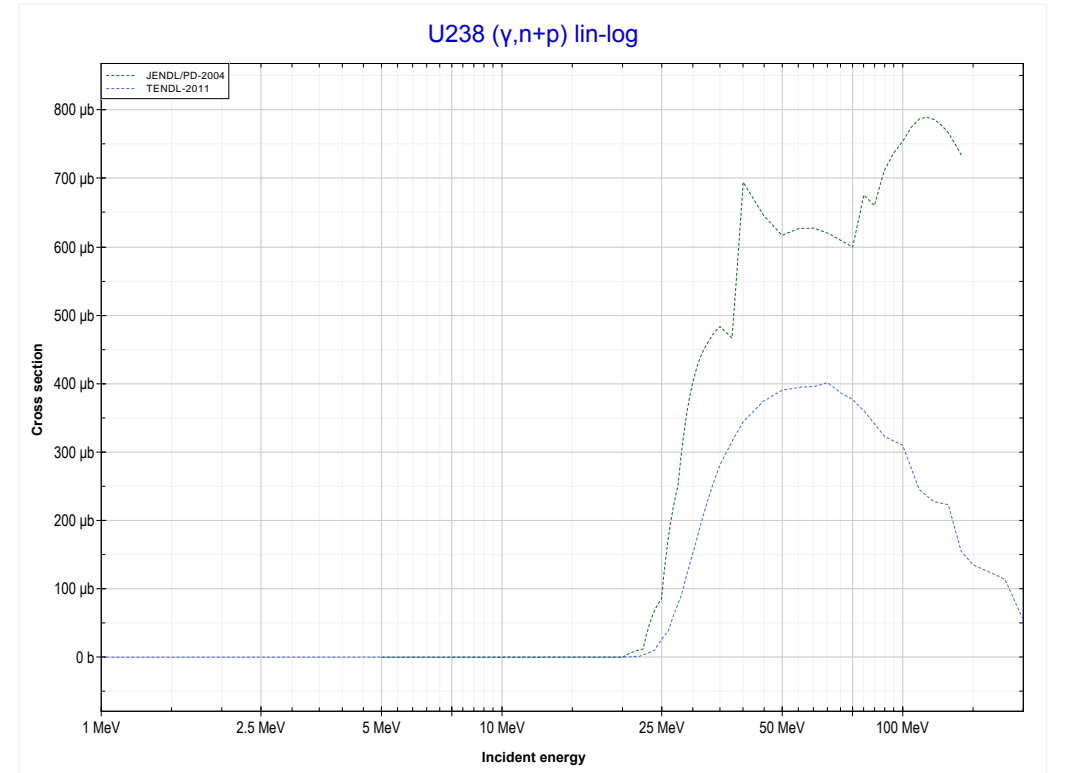
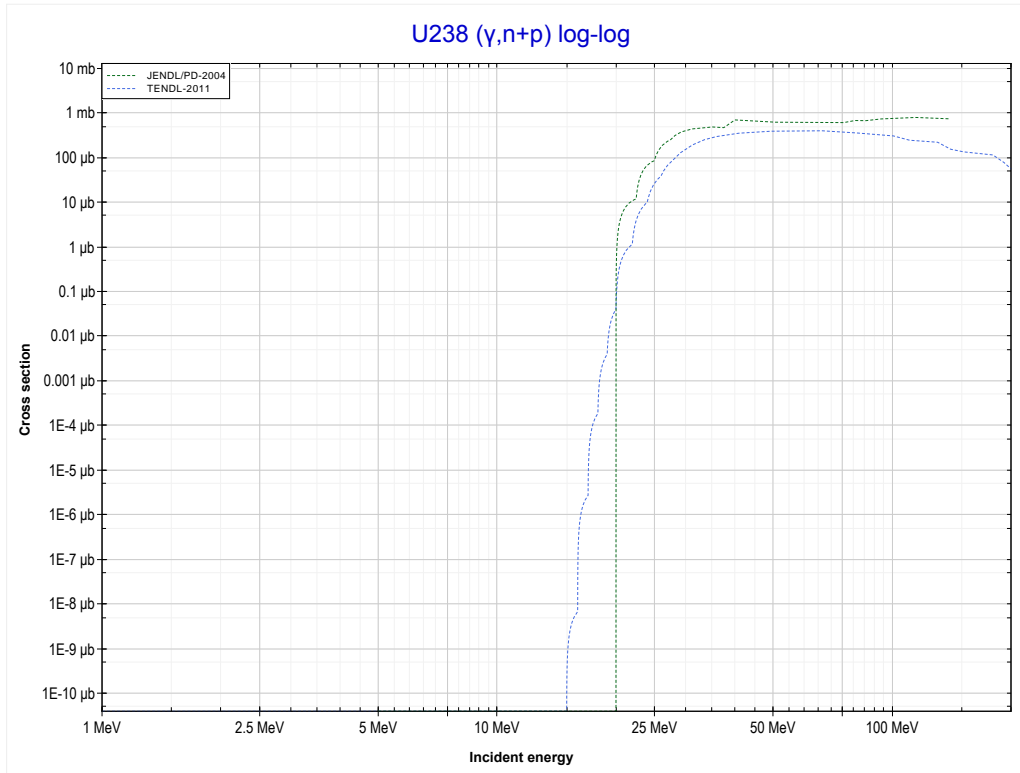


Reaction	Q-Value
U238($\gamma,2n$)U236	-11280.03 keV

<< 92-U-236	92-U-238	93-Np-237 >>
<< MT16 ($\gamma,2n$)	MT18 (γ,fission)	MT28 (γ ,n+p) >>

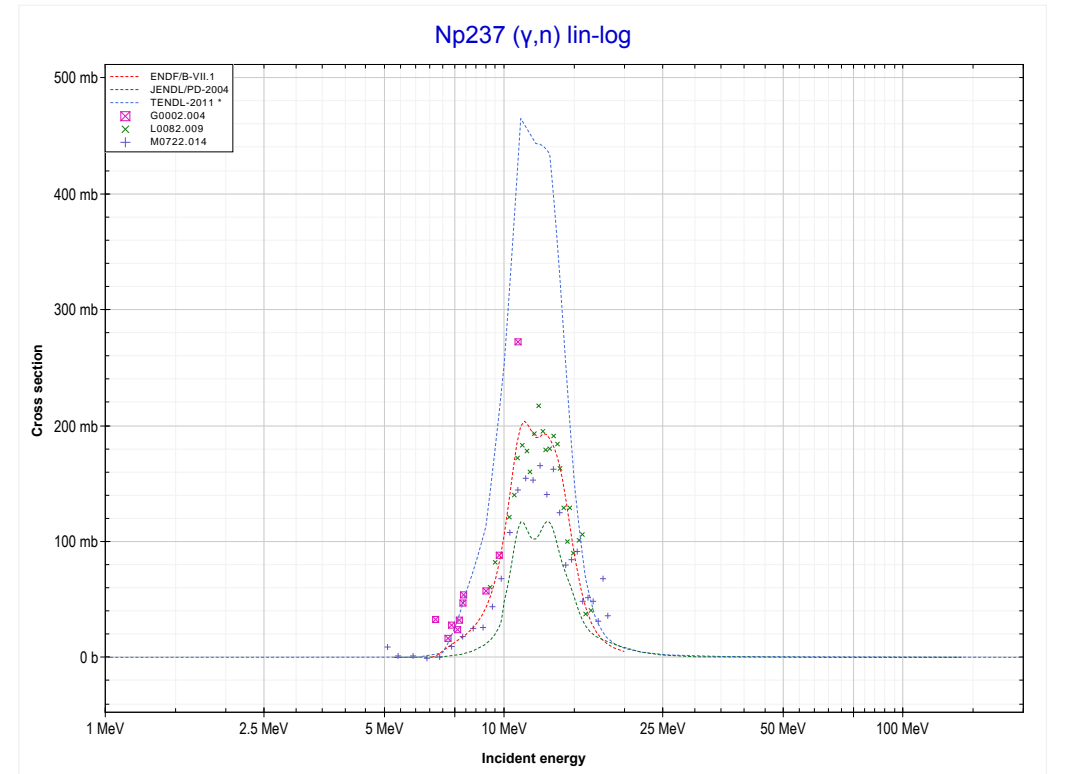
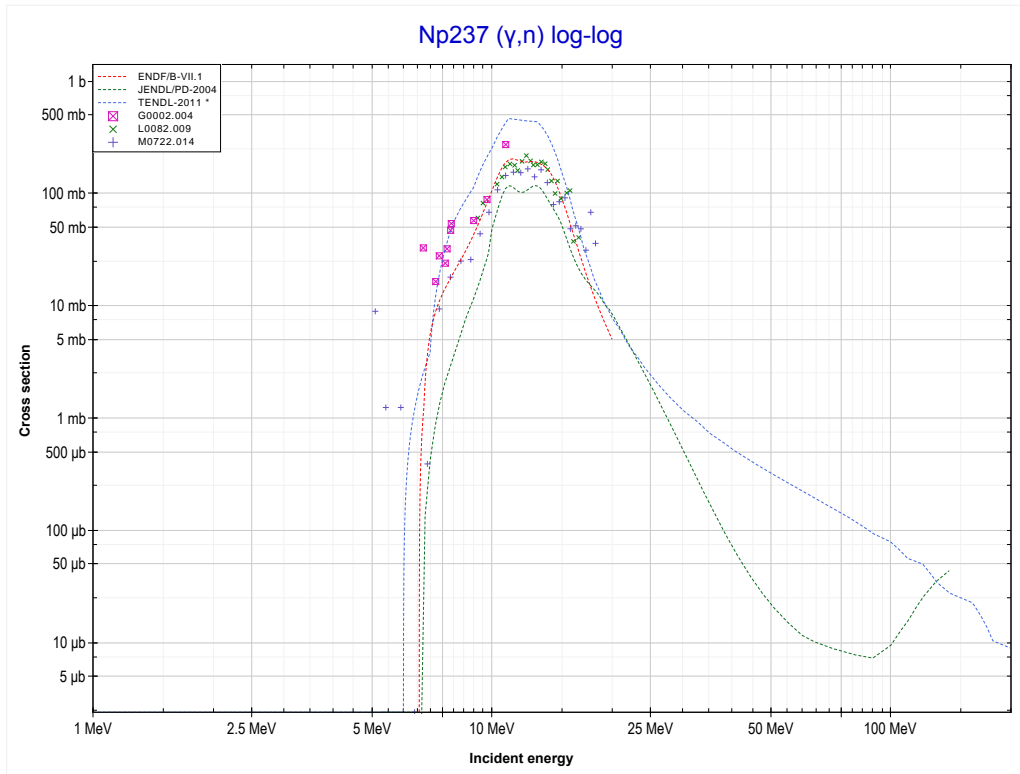


<< 92-U-236	92-U-238	93-Np-237 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Pa236 production)	MT4 (γ ,n) >>



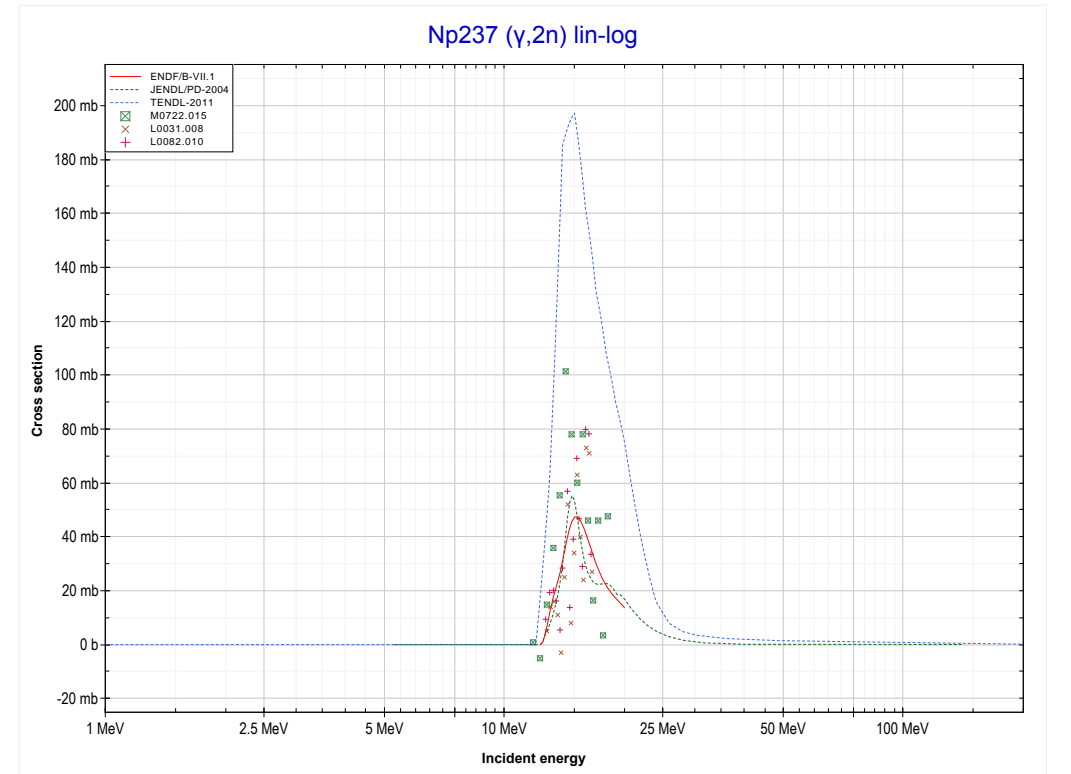
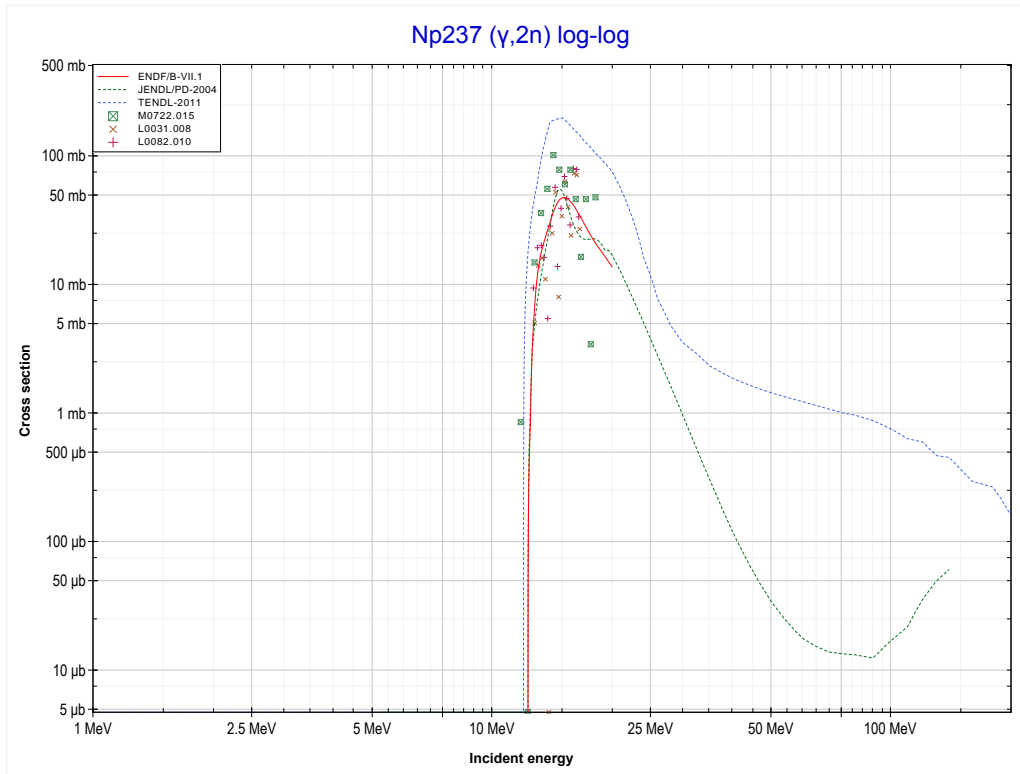
Reaction	Q-Value
U238(γ ,d)Pa236	-11176.82 keV
U238(γ ,n+p)Pa236	-13401.39 keV

<< 92-U-238	93-Np-237	94-Pu-239 >>
<< MT28 ($\gamma, n+p$)	MT4 (γ, n) or MT5 (Np236 production)	MT16 ($\gamma, 2n$) >>



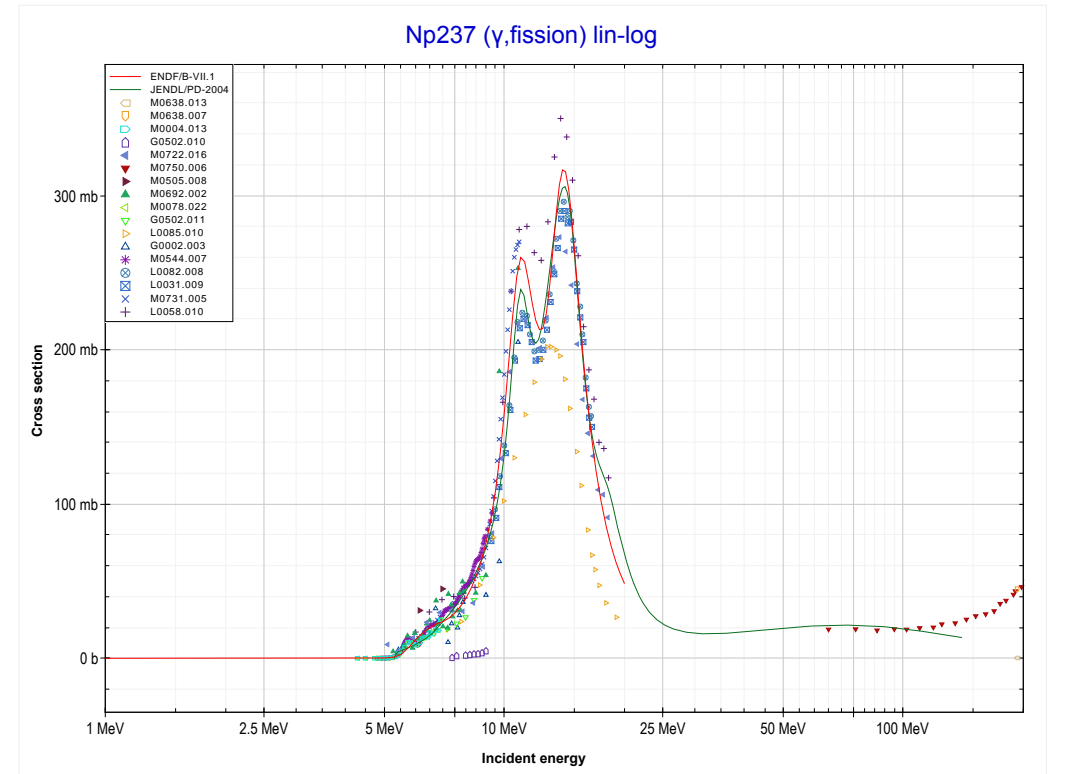
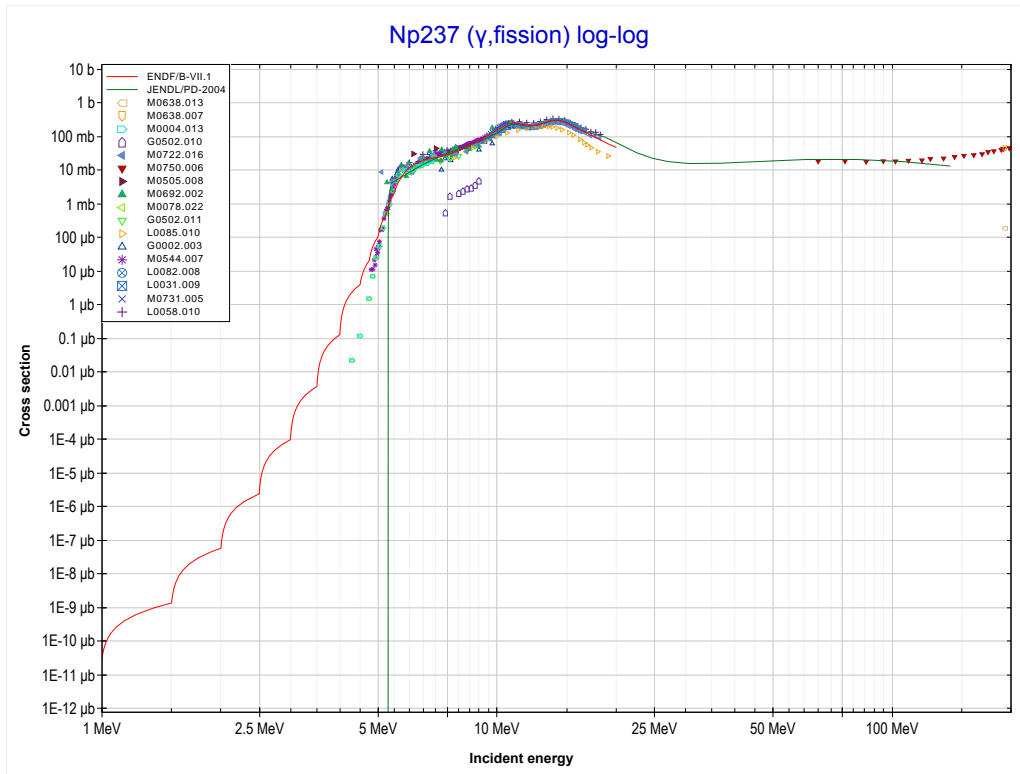
Reaction	Q-Value
Np237(γ, n)Np236	-6578.02 keV

<< 92-U-238	93-Np-237	94-Pu-239 >>
<< MT4 (γ,n)	MT16 ($\gamma,2n$) or MT5 (Np235 production)	MT18 (γ ,fission) >>

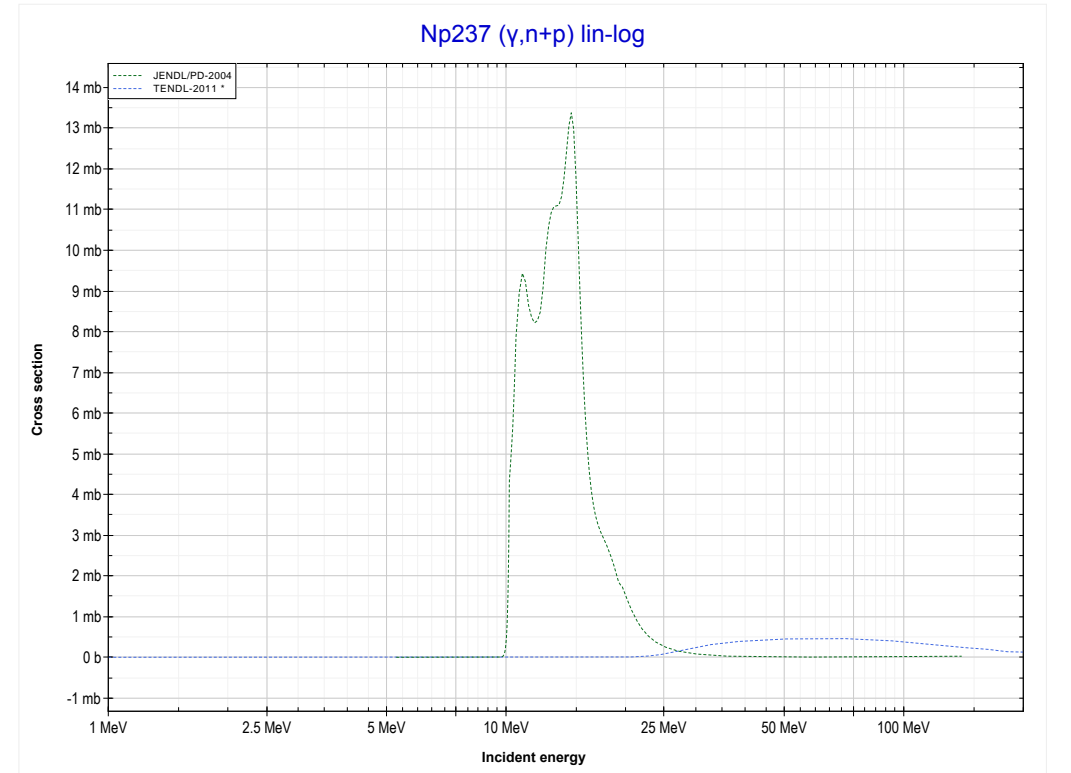
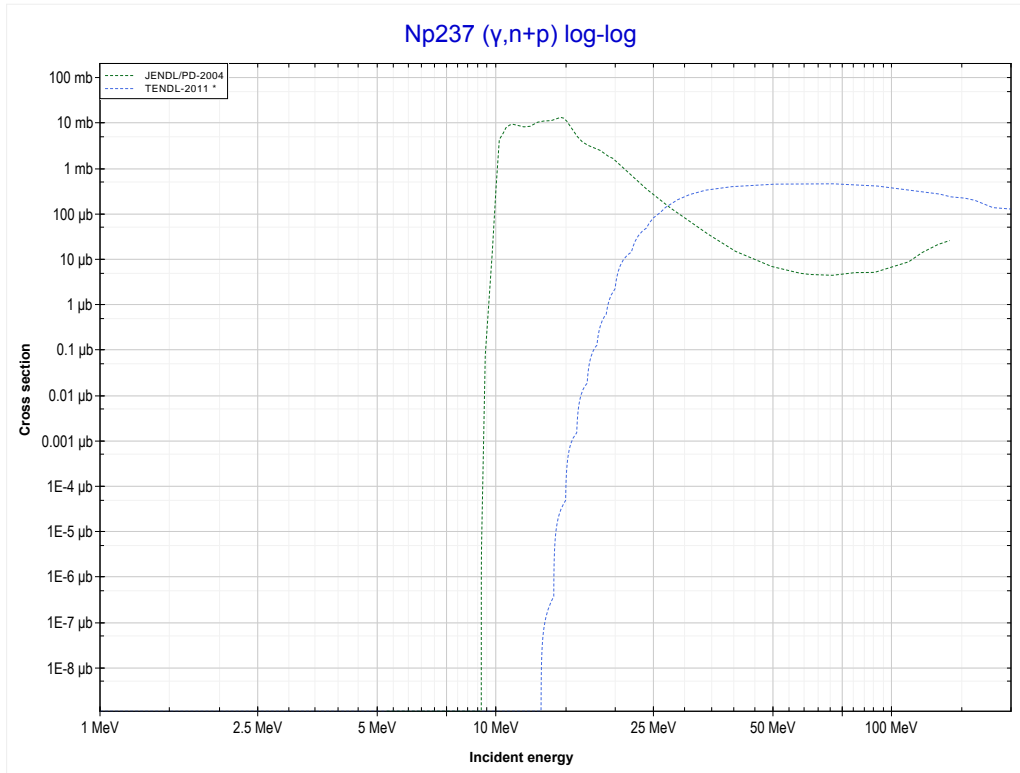


Reaction	Q-Value
Np237($\gamma,2n$)Np235	-12314.03 keV

<< 92-U-238	93-Np-237	94-Pu-238 >>
<< MT16 ($\gamma,2n$)	MT18 (γ,fission)	MT28 (γ ,n+p) >>

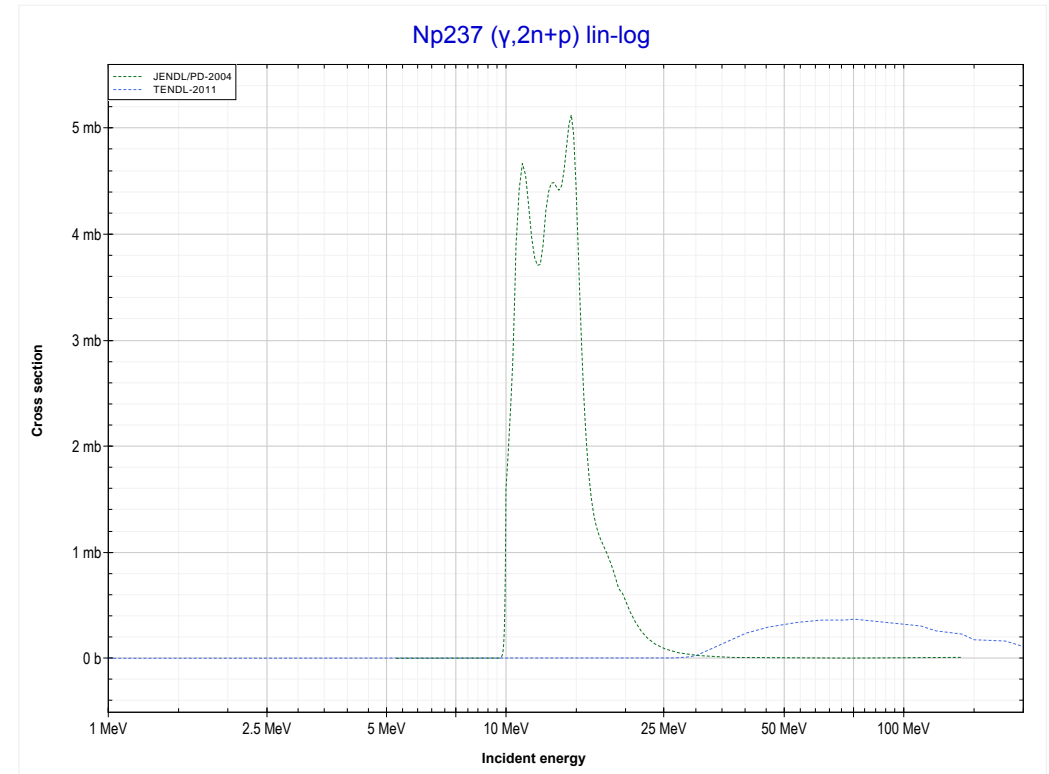
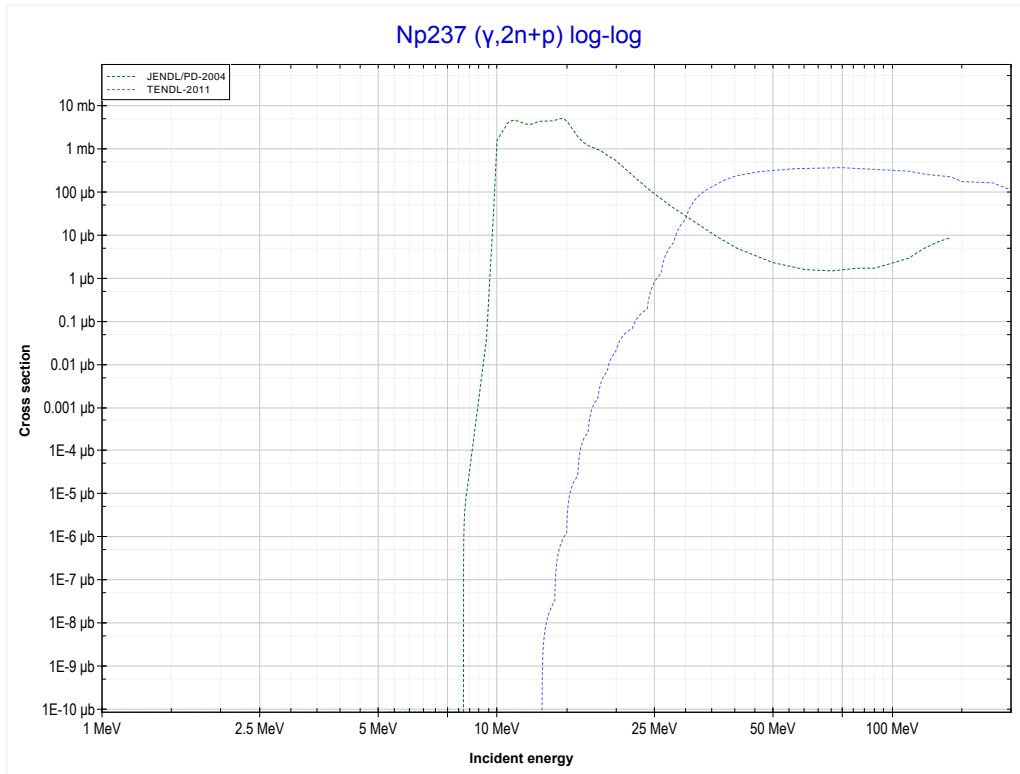


<< 92-U-238	93-Np-237	94-Pu-239 >>
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (U235 production)	MT41 (γ ,2n+p) >>



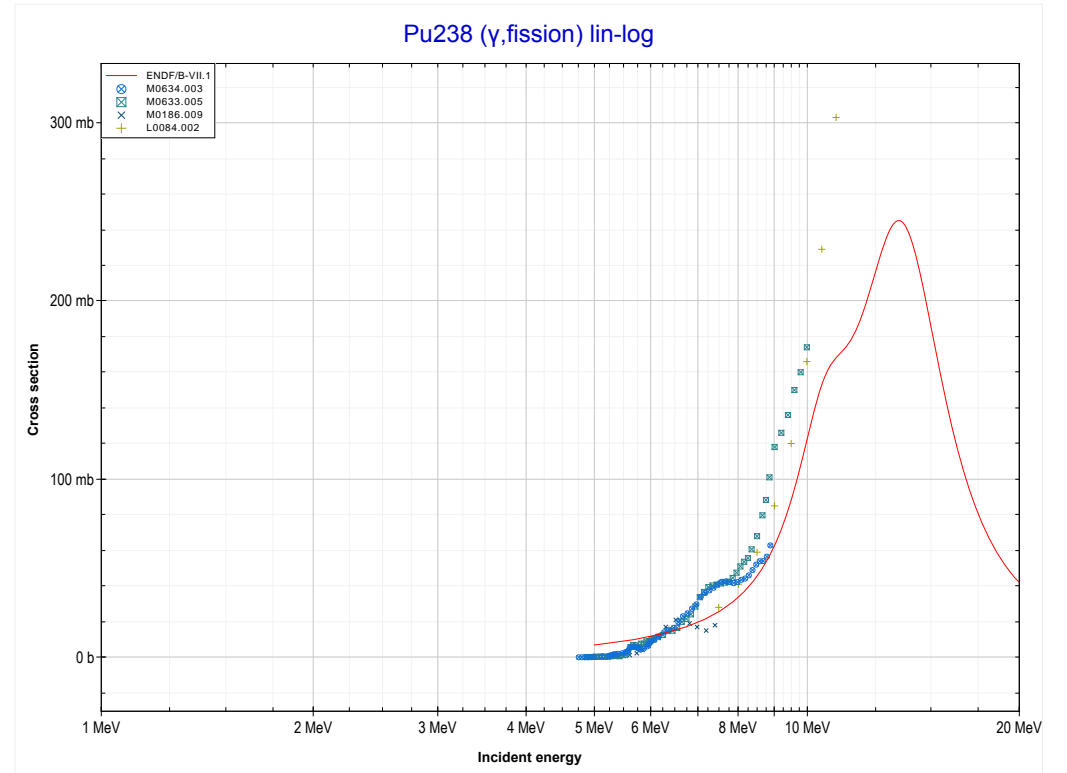
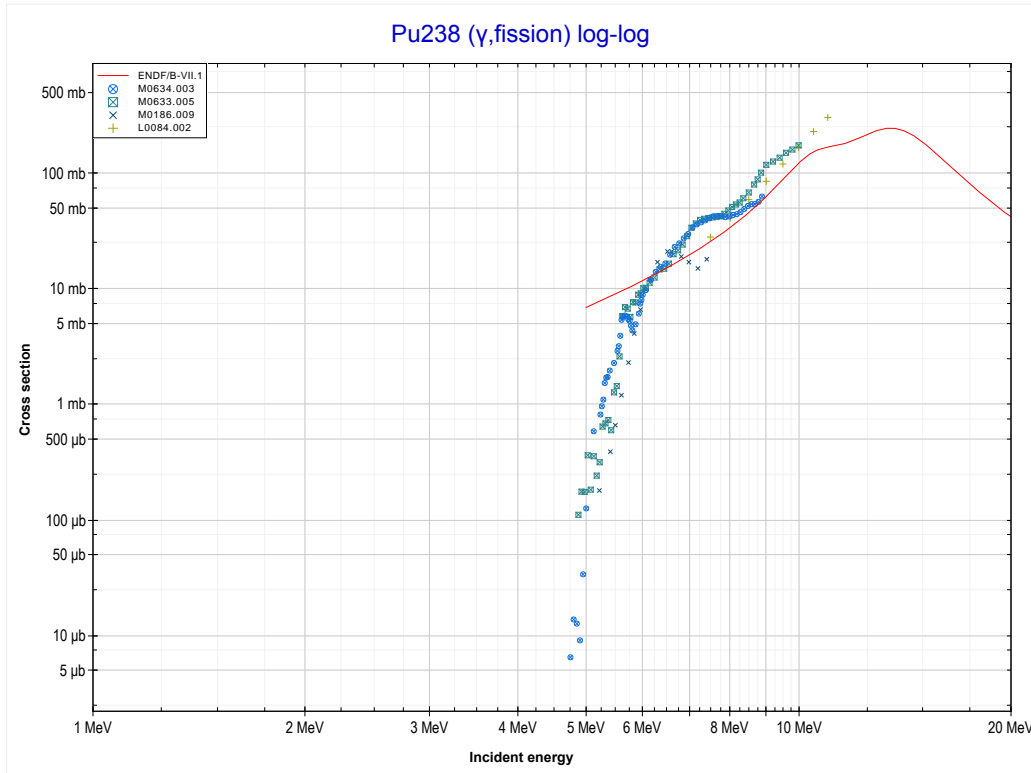
Reaction	Q-Value
Np237(γ ,d)U235	-9182.92 keV
Np237(γ ,n+p)U235	-11407.49 keV

<< 83-Bi-209	93-Np-237	
<< MT28 ($\gamma, n+p$)	MT41 ($\gamma, 2n+p$) or MT5 (U234 production)	MT18 ($\gamma, fission$) >>

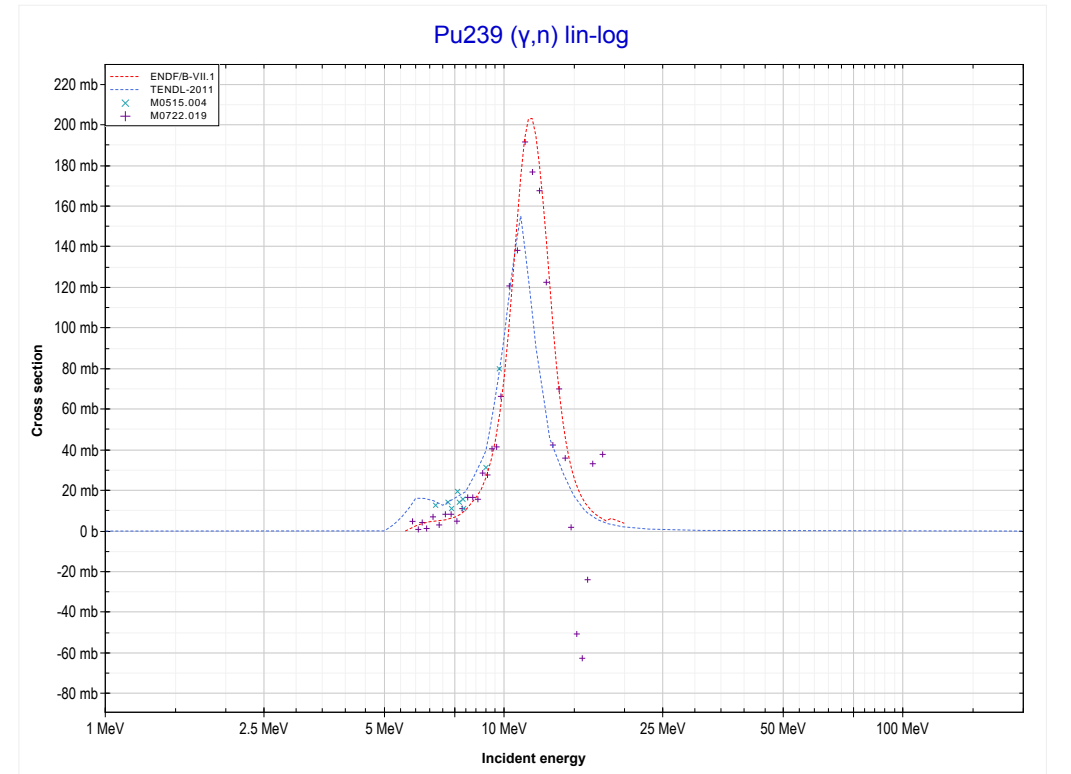
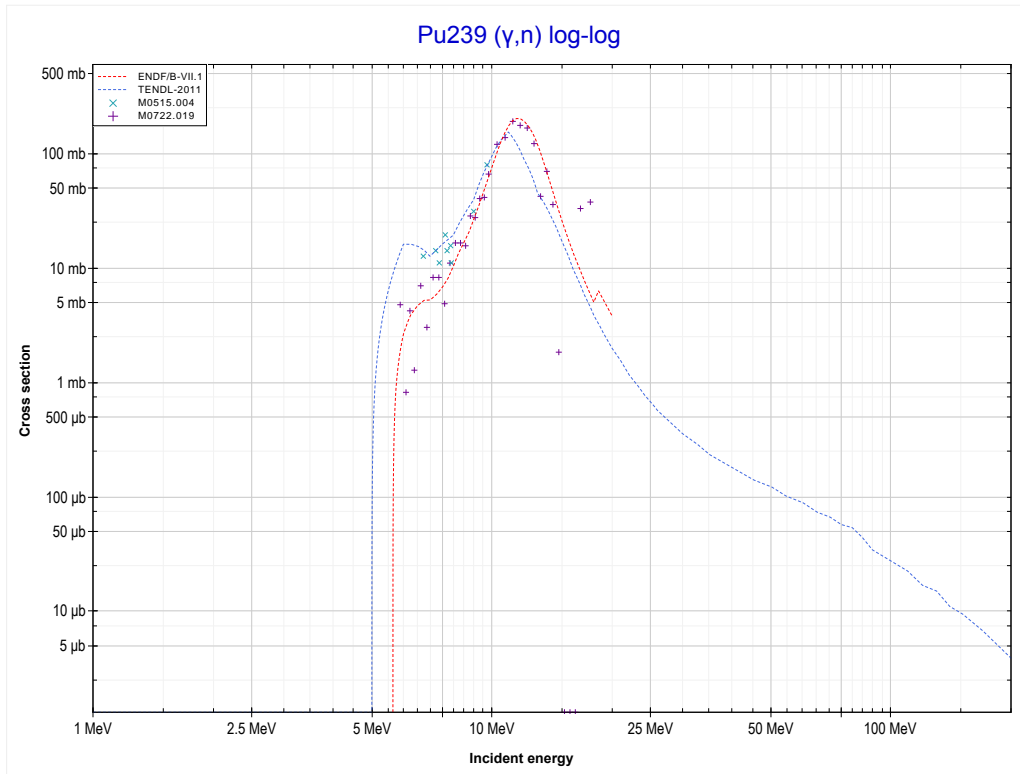


Reaction	Q-Value
Np237(γ, t)U234	-8223.11 keV
Np237($\gamma, n+d$)U234	-14480.34 keV
Np237($\gamma, 2n+p$)U234	-16704.90 keV

<< 93-Np-237	94-Pu-238	94-Pu-239 >>
<< MT41 ($\gamma,2n+p$)	MT18 (γ,fission)	MT4 (γ,n) >>

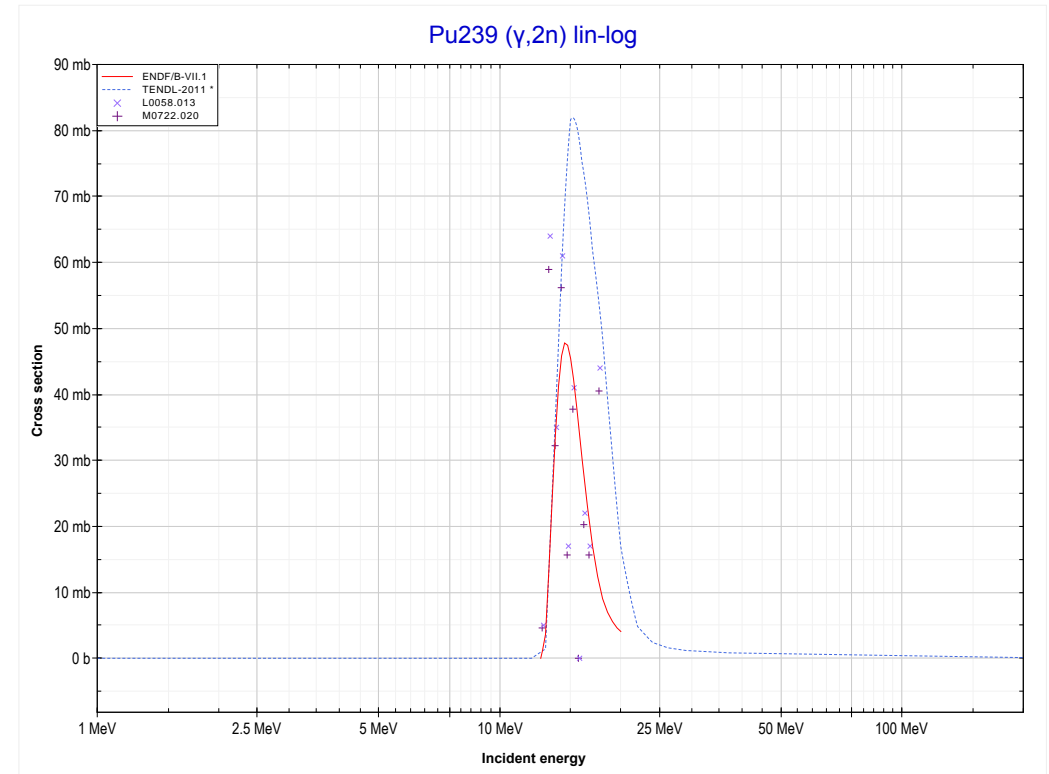
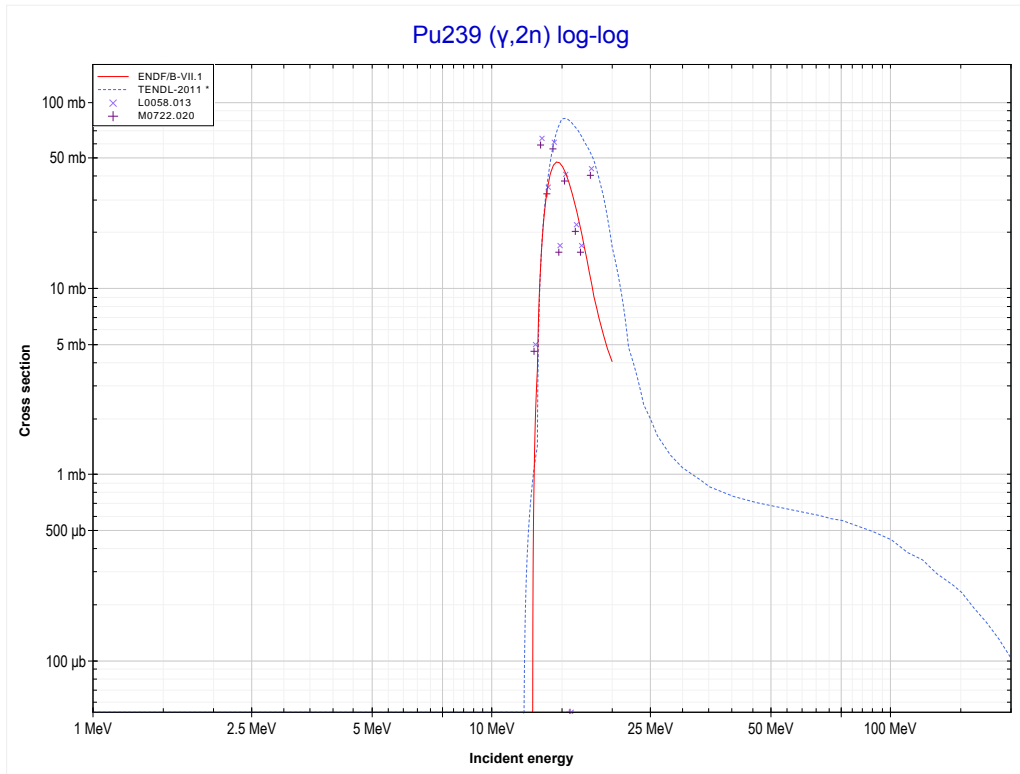


<< 93-Np-237	94-Pu-239	95-Am-241 >>
<< MT18 (γ ,fission)	MT4 (γ,n) or MT5 (Pu238 production)	MT16 (γ ,2n) >>



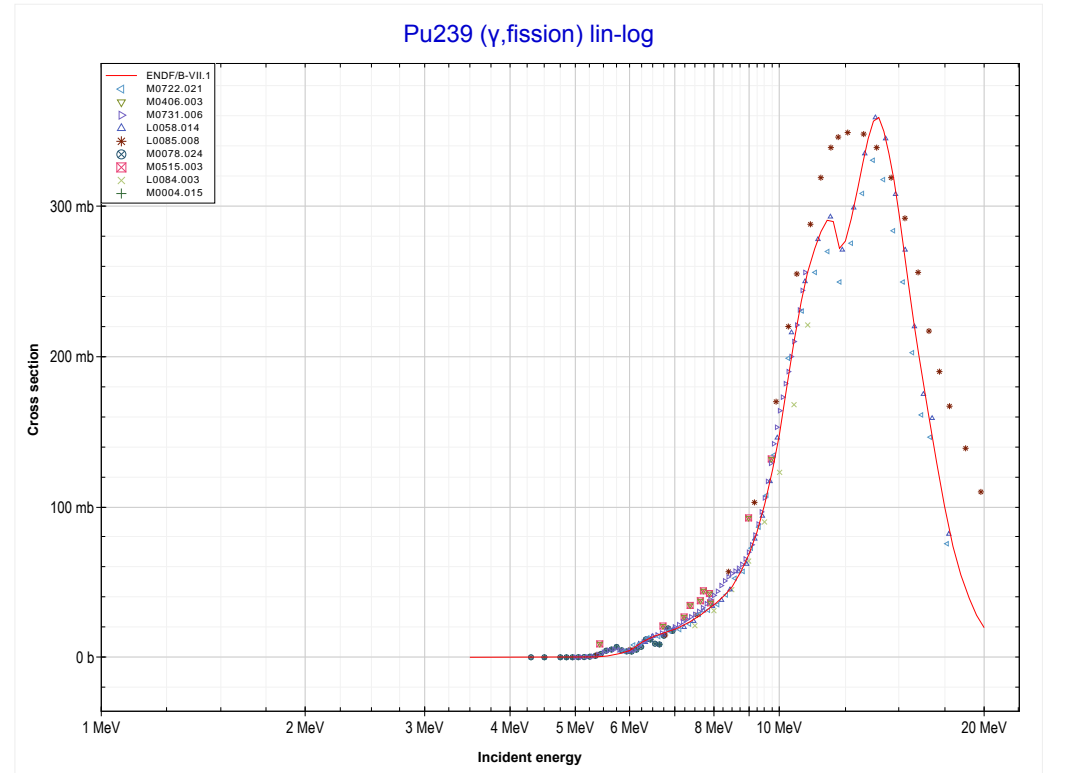
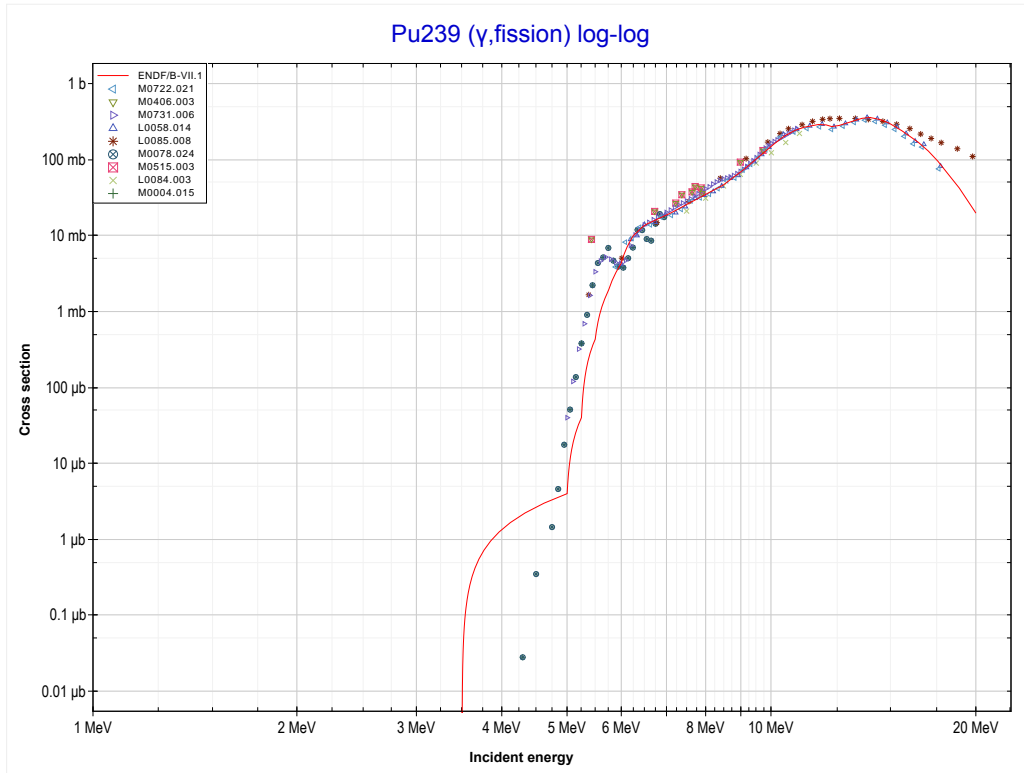
Reaction	Q-Value
Pu239(γ ,n)Pu238	-5646.12 keV

<< 93-Np-237	94-Pu-239	
<< MT4 (γ, n)	MT16 ($\gamma, 2n$) or MT5 (Pu237 production)	MT18 ($\gamma, fission$) >>

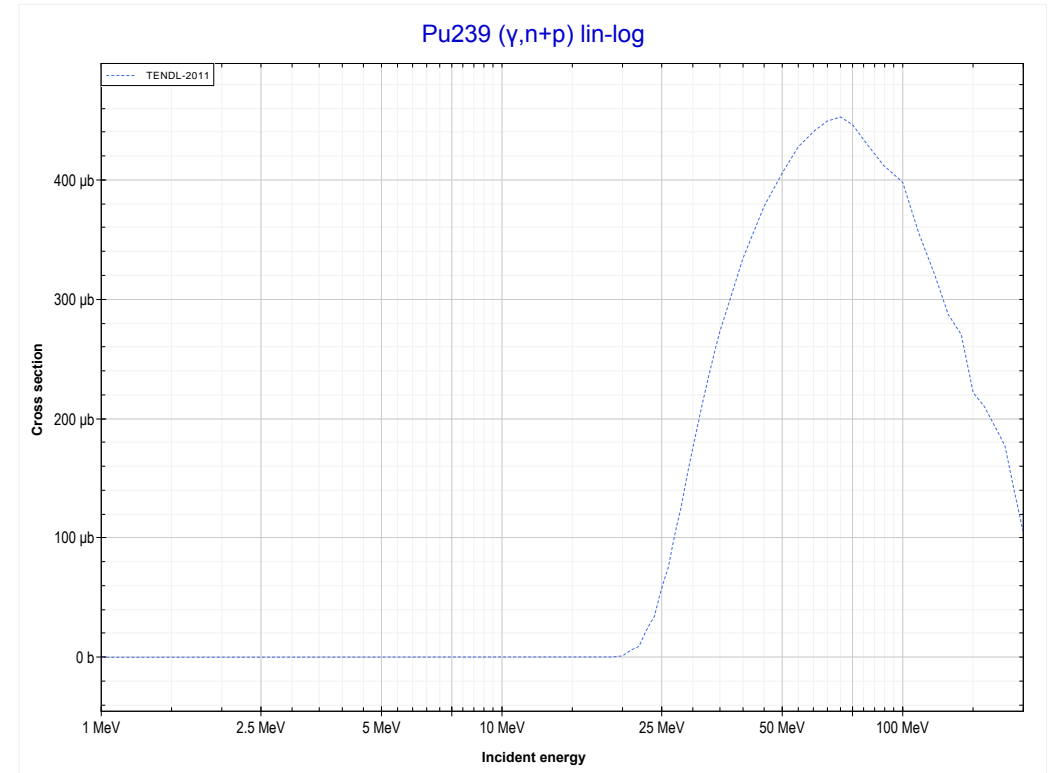
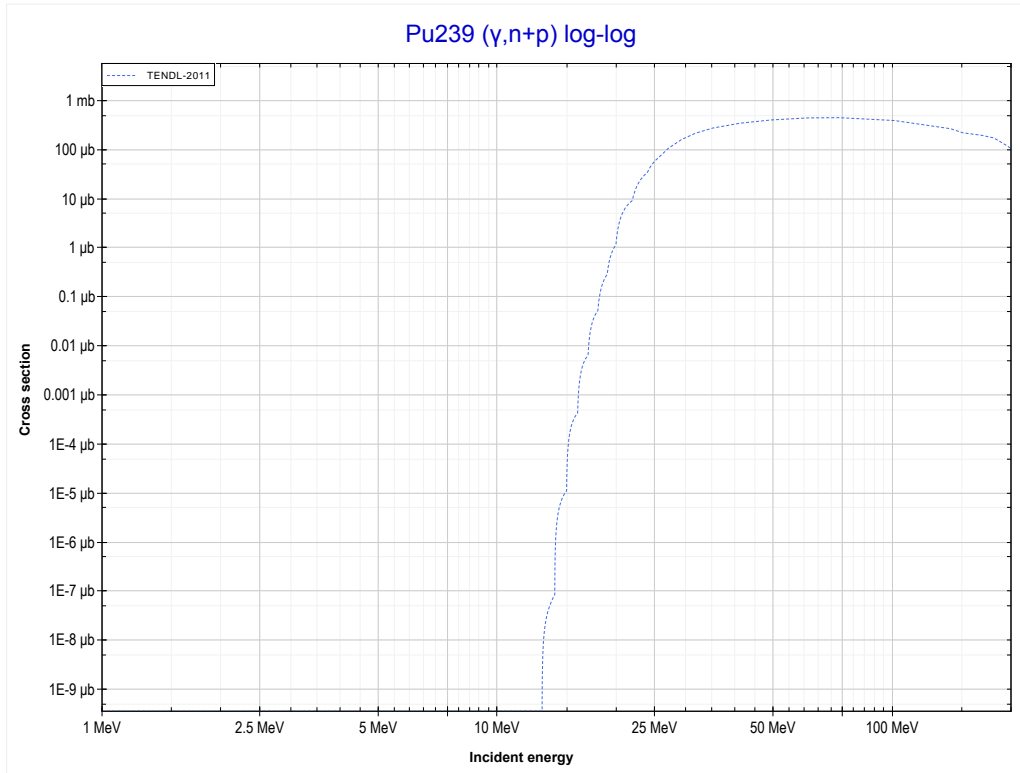


Reaction	Q-Value
Pu239($\gamma, 2n$)Pu237	-12646.03 keV

<< 94-Pu-238	94-Pu-239	94-Pu-240 >>
<< MT16 ($\gamma,2n$)	MT18 (γ,fission)	MT28 ($\gamma,n+p$) >>

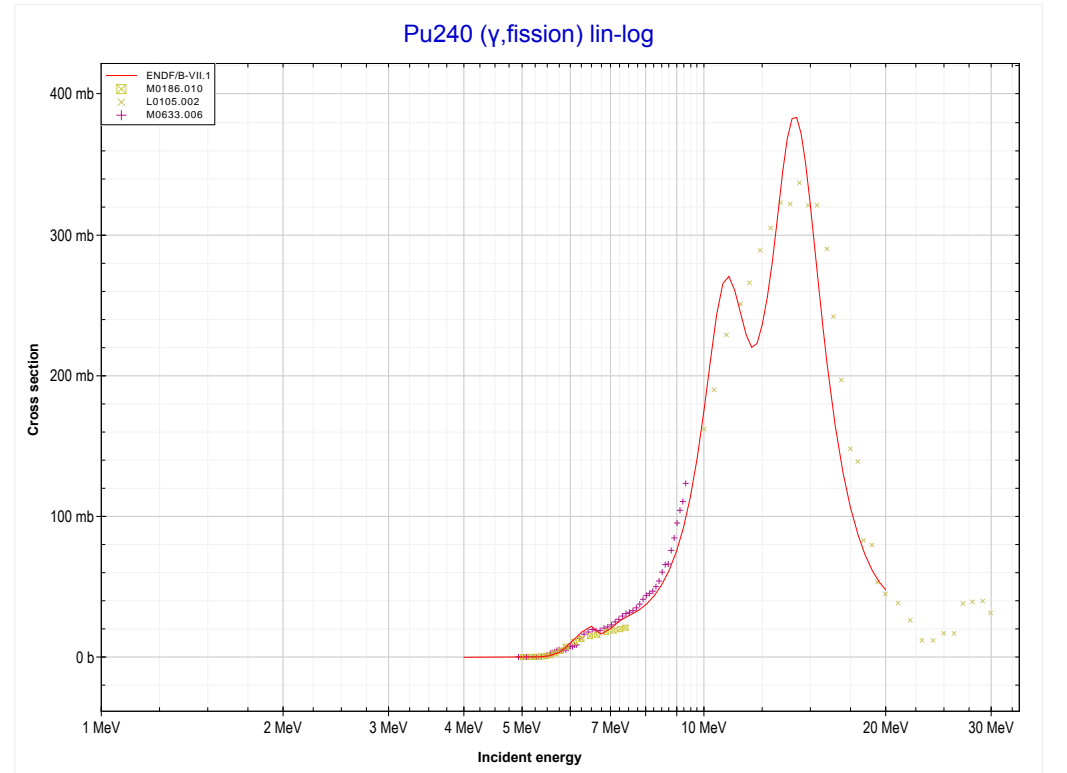
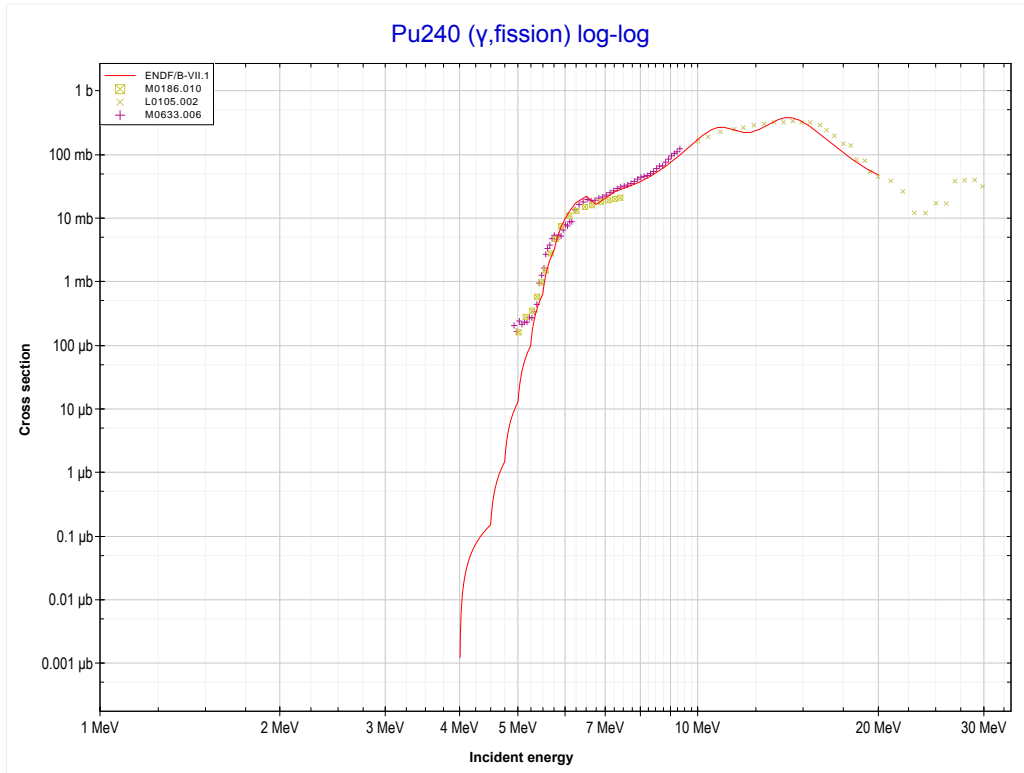


<< 93-Np-237	94-Pu-239	
<< MT18 (γ ,fission)	MT28 (γ,n+p) or MT5 (Np237 production)	MT18 (γ ,fission) >>

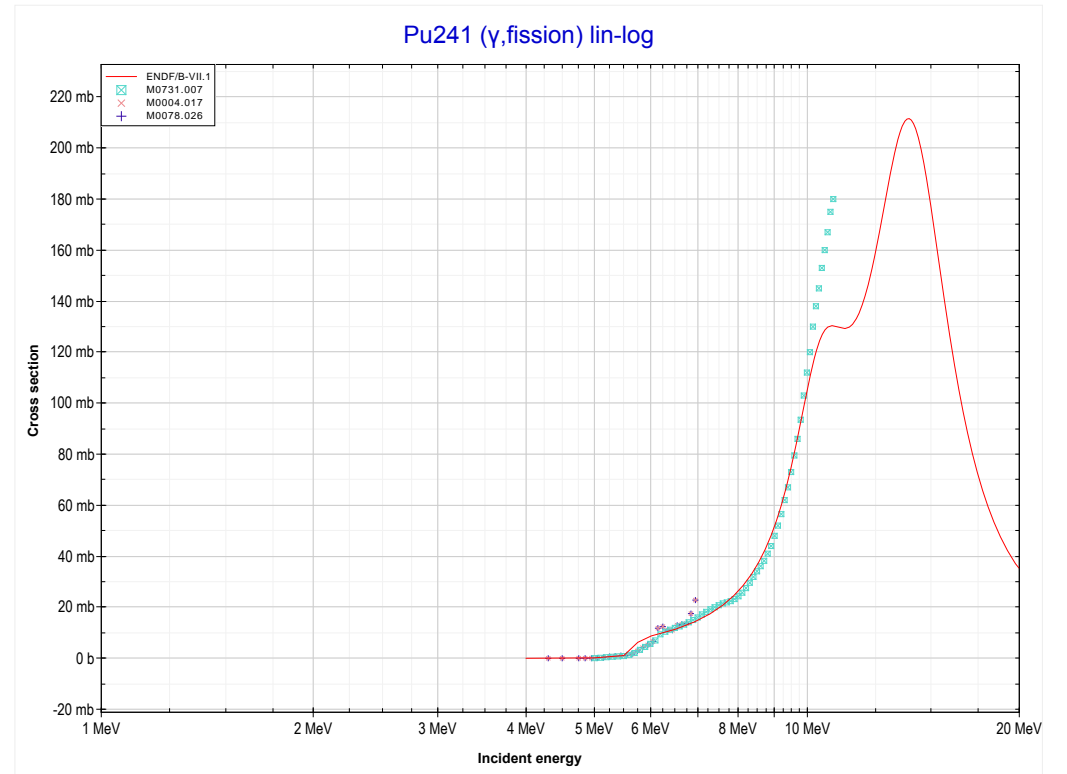
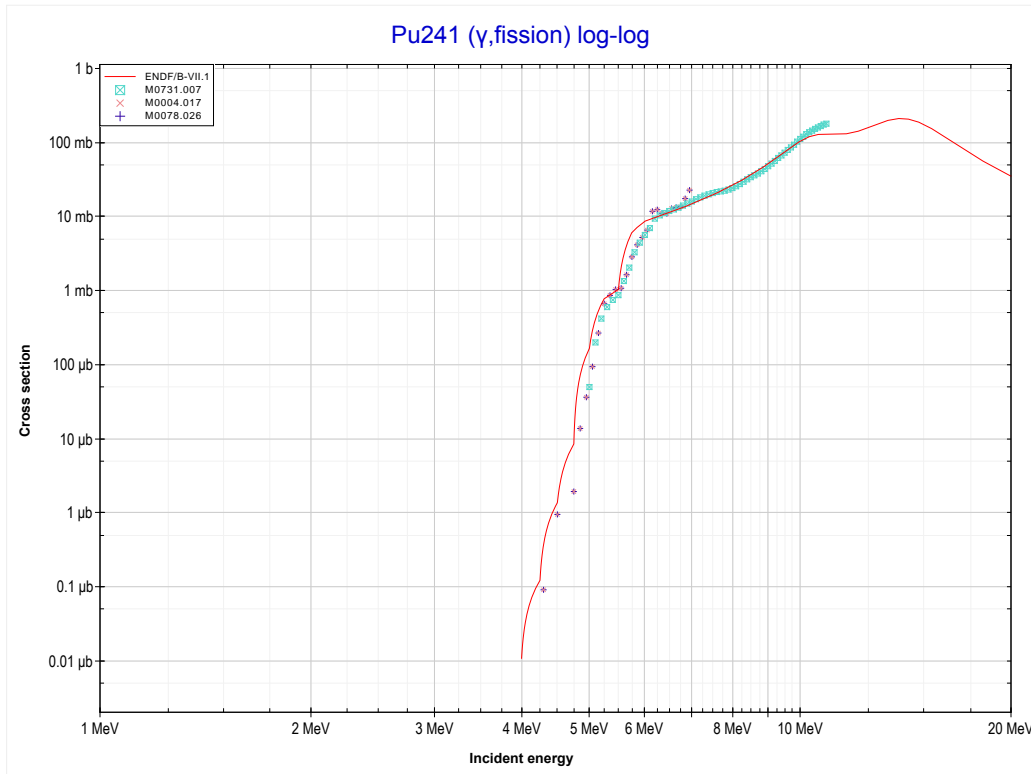


Reaction	Q-Value
Pu239(γ ,d)Np237	-9419.12 keV
Pu239(γ ,n+p)Np237	-11643.69 keV

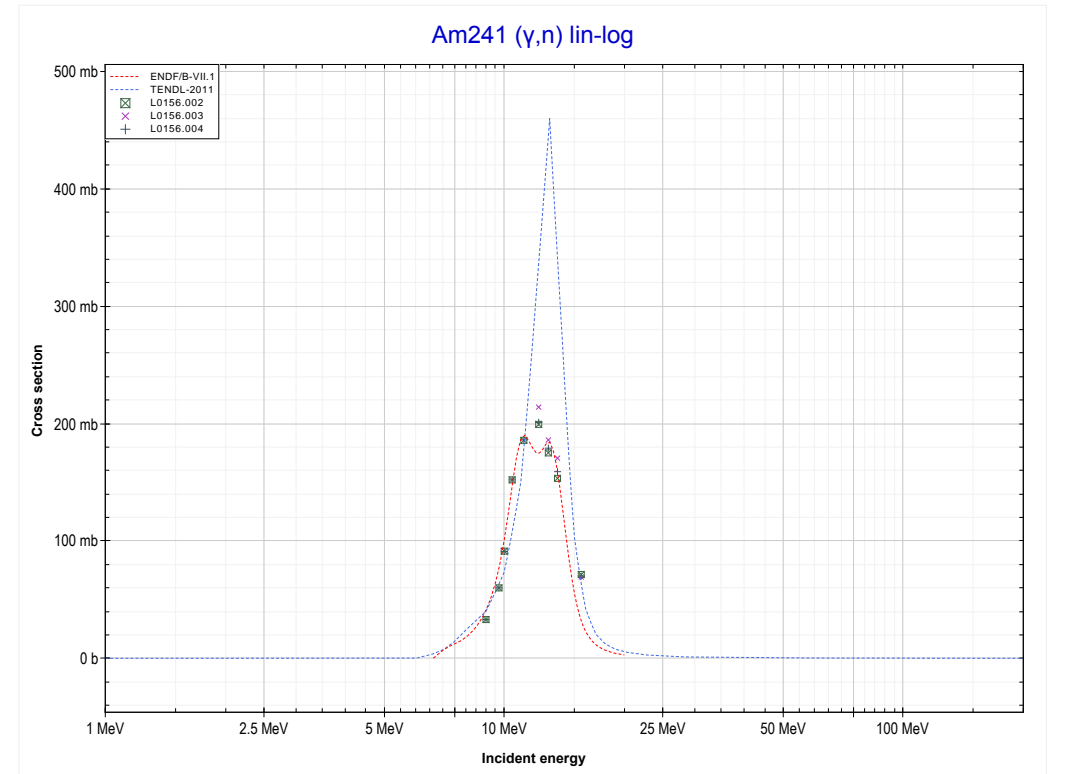
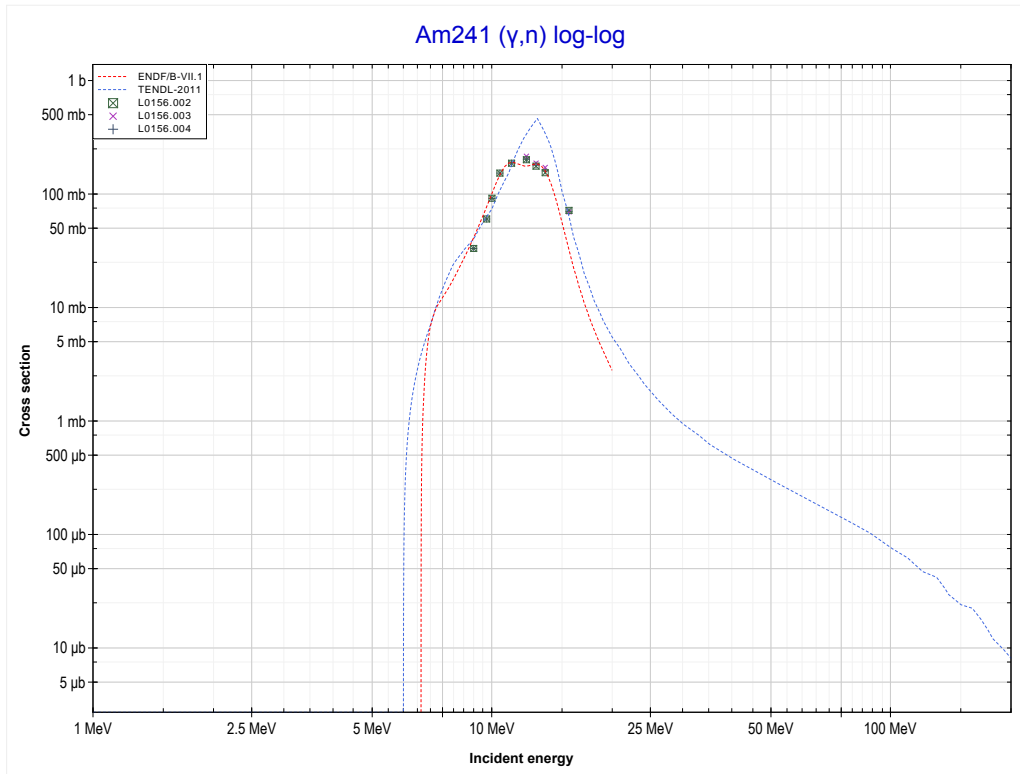
<< 94-Pu-239	94-Pu-240	94-Pu-241 >>
<< MT28 ($\gamma, n+p$)	MT18 ($\gamma, fission$)	MT18 ($\gamma, fission$) >>



<< 94-Pu-240	94-Pu-241	95-Am-241 >>
<< MT18 (γ ,fission)	MT18 (γ,fission)	MT4 (γ ,n) >>

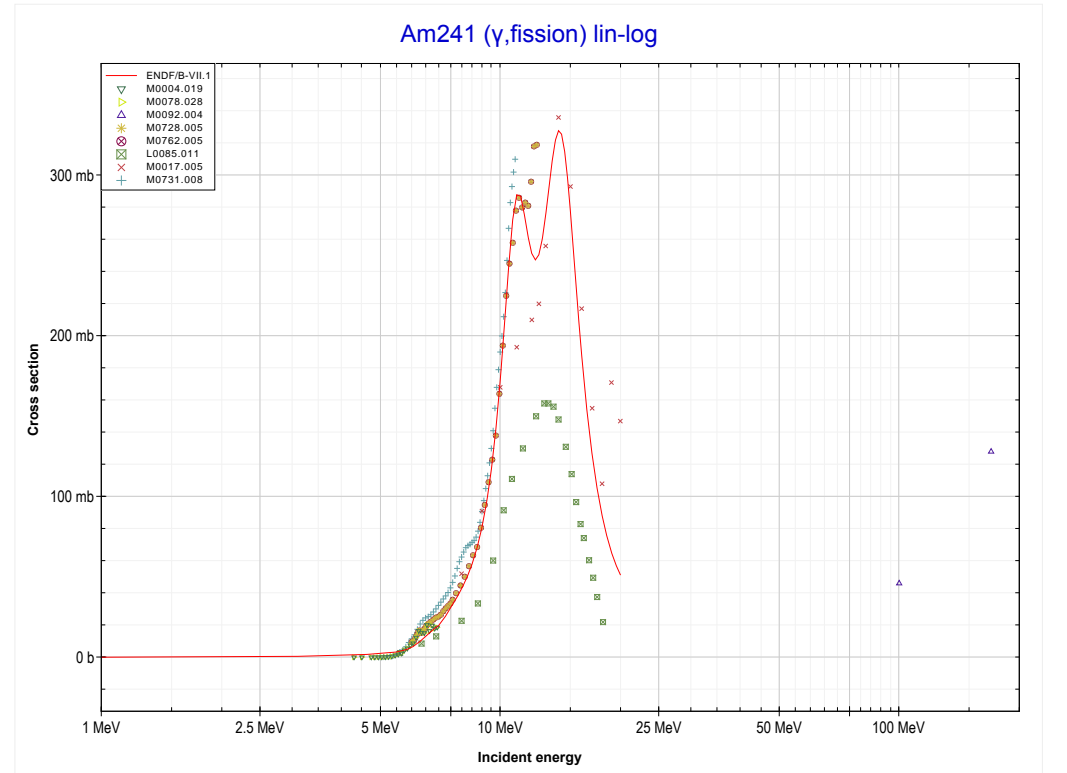
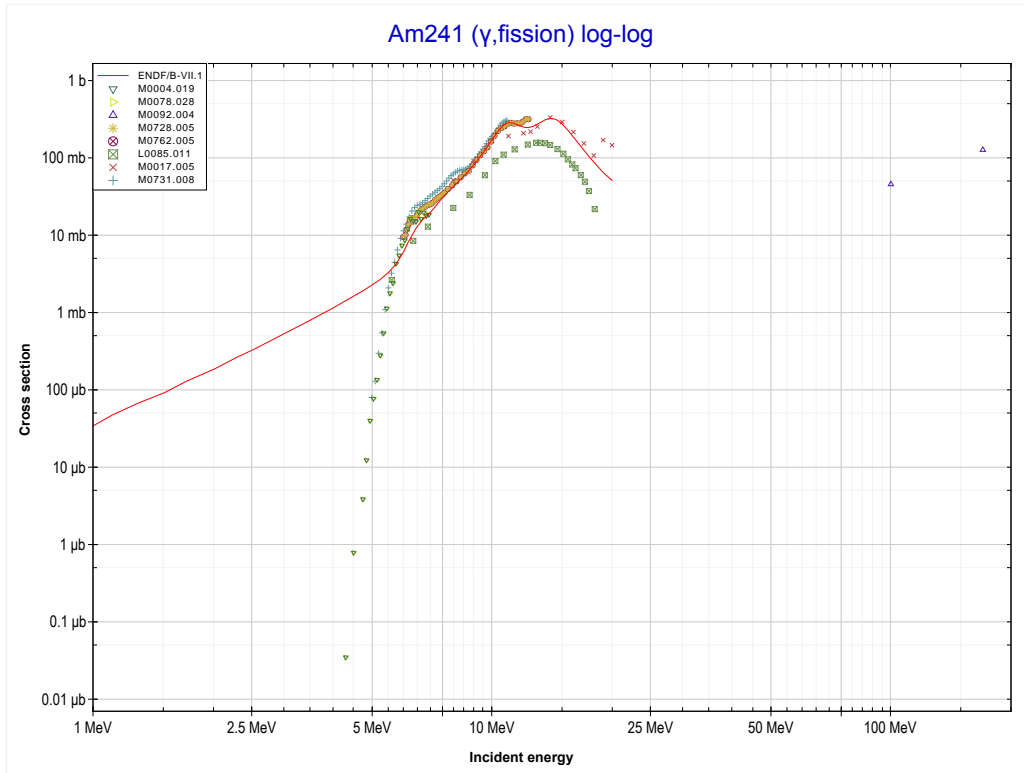


<< 94-Pu-239	95-Am-241	95-Am-243 >>
<< MT18 (γ ,fission)	MT4 (γ,n) or MT5 (Am240 production)	MT18 (γ ,fission) >>

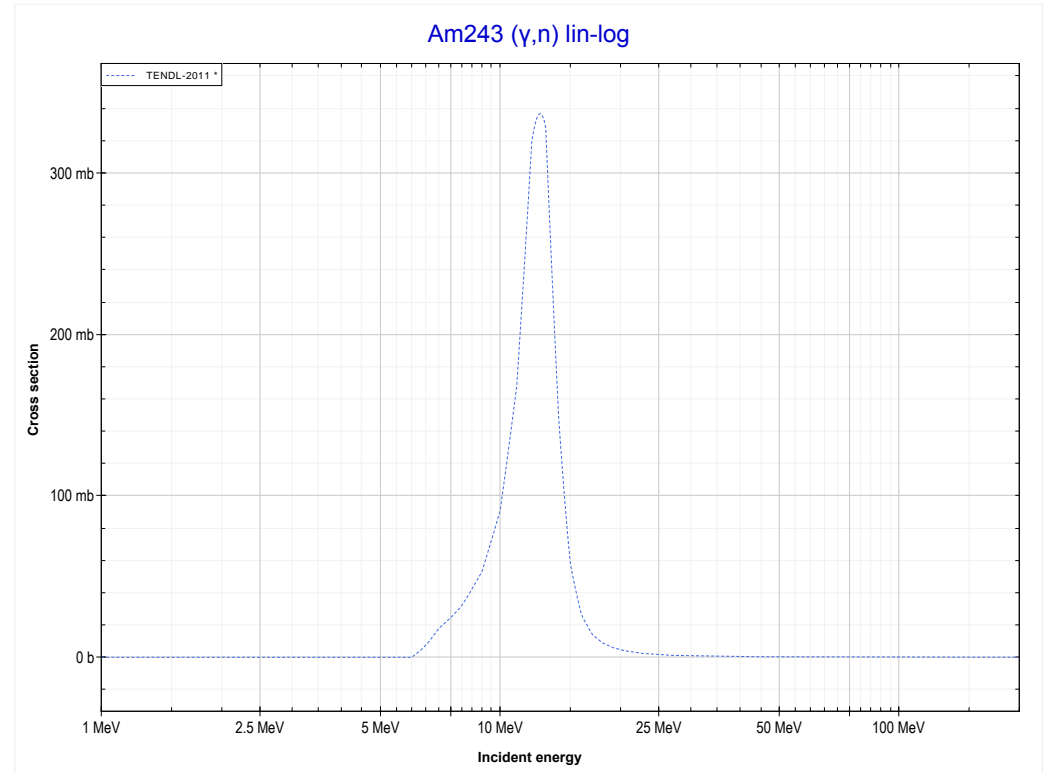
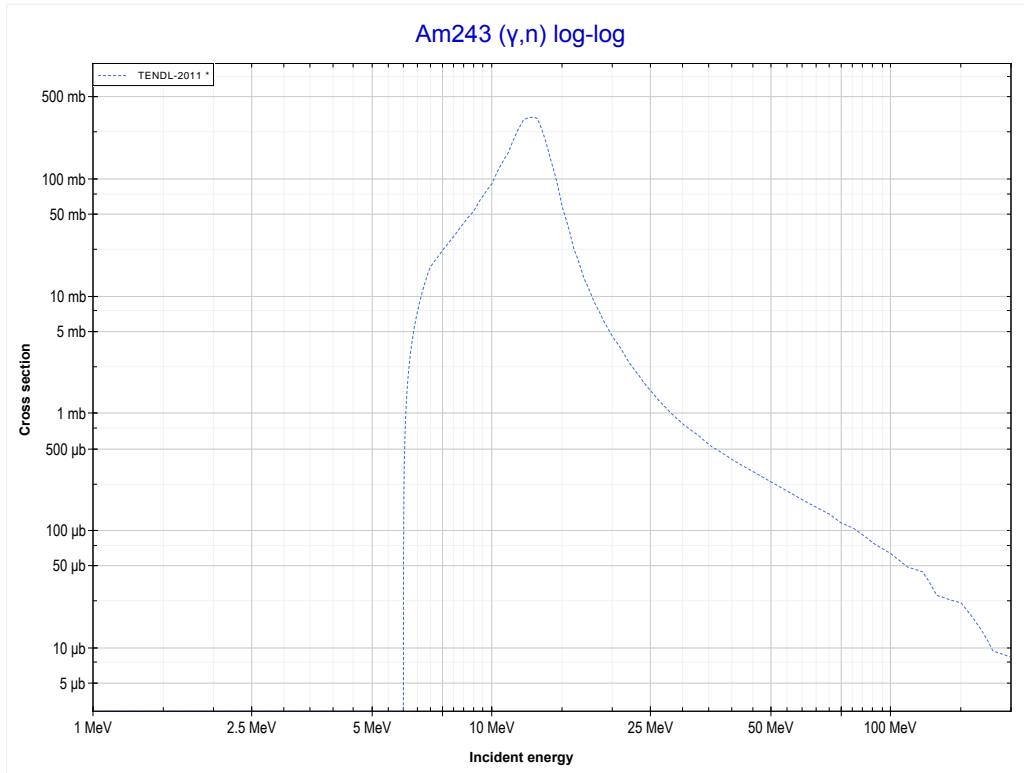


Reaction	Q-Value
Am241(γ ,n)Am240	-6647.32 keV

<< 94-Pu-241	95-Am-241	
<< MT4 (γ,n)	MT18 (γ,fission)	MT4 (γ,n) >>



<< 95-Am-241	95-Am-243	
<< MT18 (γ ,fission)	MT4 (γ,n) or MT5 (Am242 production)	



Reaction	Q-Value
Am243(γ ,n)Am242	-6364.92 keV