

TERMS AND CONDITIONS FOR THE LICENCE

This licence is divided in two separate licenses which apply to the two volumes of the SINBAD database Version 1.

LICENSE 1 applies to Volume 1 of SINBAD Version 1 which comprises the following data:

1. [AGH-UST, Poland] Juelich Li Metal Blanket Experiment
2. [ARCS, Austria] Simulation of the lineal energy distribution of the energy deposition in biological cells, TEPC-FLUKA Comparison
3. [Cadarache, France - Harmonie] Cadarache Sodium
4. [CEA, France] NAÏADE 1 Graphite Benchmark (60cm)
5. [CEA, France] NAÏADE 1 Iron Benchmark (60cm)
6. [CEA, France] NAÏADE 1 Light Water Benchmark (60cm)
7. [CEA, France] NAÏADE 1 Concrete Benchmark (60cm)
8. [CERN, Switzerland] ROESTI I, II and III
9. [CERN, Switzerland] CERF Bonner Sphere Spectrometer Response to Charged Hadrons
10. [CERN, Switzerland] CERF Radionuclide Production
11. [CERN, Switzerland] CERF Residual Dose Rates
12. [CERN, Switzerland] CERF Neutron Energy Spectra behind Shielding of a 120 GeV/c Hadron Beam Facility
13. [CERN, Switzerland] CERN 200 and 400 GeV/c protons activation experiments
14. [FNS/JAEA, Japan] FNS Experimental data for fusion neutronics benchmark
15. [FNS/JAEA, Japan] FNS Integral Experiment on Graphite Cylindrical Assembly
16. [FNS/JAEA, Japan] FNS Liquid Oxygen
17. [FNS/JAEA, Japan] FNS Vanadium Cube
18. [FNS/JAEA, Japan] FNS Tungsten
19. [FNS/JAEA, Japan] FNS Skyshine
20. [FNS/JAEA, Japan] FNS Dogleg Duct Streaming
21. [FNG/ENEA, Italy] FNG-ITER Neutron Streaming (integral)
22. [FNG/ENEA, Italy] FNG-ITER Dose Rate Experiment
23. [FNG/ENEA, Italy] FNG Silicon Carbide (integral)
24. [FNG/ENEA, Italy] FNG Tungsten (integral)
25. [FNG/ENEA, Italy] FNG HCPB Tritium Breeder Module (integral measurements)
26. [FNG/Italy, TUD/Germany] FNG/TUD ITER Blanket Bulk Shield (spectra measurements)
27. [FNG/Italy, TUD/Germany] FNG/TUD Silicon Carbide (spectra)
28. [FNG/Italy, TUD/Germany] FNG/TUD Tungsten (spectra measurements)
29. [TUD, Germany] TUD Iron Slab Experiment
30. [FzK, Germany] Karlsruhe Iron Sphere
31. [FzK, Germany] KANT Spherical Beryllium Shells
32. [IPPE - FzK] IPPE Vanadium Shells
33. [IPPE, Russia] IPPE Iron Shells
34. [IPPE, Russia] IPPE Th shell with 14 MeV and Cf-252 source neutrons
35. [IPPE, Russia] IPPE neutron transmission through bismuth shell
36. [IRI - TUB] Streaming Through Ducts
37. [ISPRA Univ. of Pavia, Italy - EURACOS II] Ispra Iron Benchmark
38. [ISPRA Univ. of Pavia, Italy - EURACOS II] Ispra Sodium Benchmark
39. [JAEA, Japan] Radioactivity induced by GeV-Protons and Spallation Neutrons using AGS accelerator
40. [JAEA, Japan] Intermediate and High-Energy Accelerator Shielding Benchmarks
41. [KEK/KENS, Japan] KENS p-500 MeV shielding experiment using 4m Concrete at KEK
42. [MEPhI, Russian Fed.] MEPhI empty slits streaming experiment
43. [NIRS, Japan] HIMAC experiments with He, C, Ne, Ar, Fe, Xe and Si ions on C, Al, Cu & Pb targets
44. [NIRS, Japan] HIMAC High energy Neutron (<800 MeV) Measurements in Iron
45. [NIRS, Japan] HIMAC High energy Neutron (<800 MeV) Measurements in Concrete
46. [NRI, Rez] Radiation field parameters for pressure vessel monitoring in NRI LR-0 VVER-440 reactor

47. [NRI, Rez] Radiation field parameters for pressure vessel monitoring in NRI LR-0 VVER-1000 reactor
48. [PSI, Swiss] Neutron Spectra Generated by 590-MeV Protons on Thick Pb Target
49. [RAL, England] ISIS Deep-Penetration Neutrons through Concrete and Iron Shields using p-800 MeV
50. [RDIPE, Russia] Baikal-1 Skyshine Benchmark Experiment
51. [RFNC, Russia] Photon Leakage Spectra from Al, Ti, Fe, Cu, Zr, Pb, U238 Spheres
52. [RFNC, Russia] Photon Spectra from H₂O, SiO₂ and NaCl
53. [RIKEN, Japan] Quasi-monoenergetic Neutron Field in 70-210 MeV Energy Range
54. [SCK/CEN, Belgium] VENUS-3 LWR-PVS Benchmark
55. [SEC NRS/FZR, Russia/Germany] Balakovo-3 VVER-1000
56. [Univ. of Osaka, Japan - OKTAVIAN] Aluminium Sphere
57. [Univ. of Osaka, Japan - OKTAVIAN] Iron Sphere
58. [Univ. of Osaka, Japan - OKTAVIAN] Nickel Sphere
59. [Univ. of Osaka, Japan - OKTAVIAN] Silicon Sphere
60. [Univ. of Osaka, Japan - OKTAVIAN] Tungsten Sphere
61. [Univ. of Osaka, Japan - OKTAVIAN] Manganese Sphere (OKTAVIAN)
62. [Univ. of Osaka, Japan - AVF Cyclotron] Transmission of Medium Energy Neutrons through Concrete Shields (AVF Cyclotron)
63. [Univ. of Osaka and Univ. of Tokyo, Japan] Neutron Production from Thick Targets of Carbon, Iron, Copper, and Lead by 30- and 52-MeV Protons
64. [Univ. of Tokyo, Japan - INS] Transmission through Shielding Materials of Neutrons and Photons Generated by 52 MeV Protons
65. [Winfrith, England - ASPIS] Winfrith Iron Benchmark
66. [Winfrith, England - ASPIS] Winfrith Iron 88 Benchmark
67. [Winfrith, England - ASPIS] Winfrith Graphite Benchmark
68. [Winfrith, England] Winfrith Water Benchmark
69. [Winfrith, England - ASPIS] Winfrith Neutron-Gamma Ray Transport through Water/Steel Arrays
70. [Winfrith, England - ASPIS] JANUS Phase I (Neutron Transport through Mild and Stainless Steel)
71. [Winfrith, England - ASPIS] JANUS Phase VIII (Neutron Transport through Sodium and Mild Steel)
72. [Winfrith, England - ASPIS] NESDIP-2 Benchmark
73. [Winfrith, England - ASPIS] NESDIP-3 Benchmark
74. [Winfrith, England - ASPIS] Winfrith Water/Iron Benchmark
75. [Wuerenlingen, Switzerland - PROTEUS] Wuerenlingen Iron Benchmark
76. [JAEA, Japan] TIARA 40 and 65 MeV Neutron Transmission through Iron, Concrete and Polyethylene
77. [Univ. of Osaka, Japan - AVF Cyclotron] Transmission through Shielding Materials of Neutrons and Photons Generated by 65 MeV Protons
78. [RDIPE, Russia] Baikal-1 Skyshine Benchmark Experiment
79. [SCK, Belgium] Venus-3

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2. [ORNL, USA] Averaged Gamma-ray Production Cross Sections from Fast Neutron Capture in 14 elements & SS
3. [ORNL, USA] JASPER Advanced Reactor Axial Shield Measurements
4. [ORNL, USA] JASPER Advanced Reactor Intermediate Heat Exchanger Measurements
5. [ORNL, USA] JASPER Advanced Reactor Radial Shield Measurements
6. [ORNL, USA] ORNL TSF Iron Broomstick
7. [ORNL, USA] ORNL TSF Oxygen Broomstick
8. [ORNL, USA] ORNL TSF Nitrogen Broomstick
9. [ORNL, USA] ORNL TSF Sodium Broomstick
10. [ORNL, USA] ORNL TSF Stainless Steel Broomstick
11. [ORNL, USA] ORNL Neutron Transport through Iron and SS - Part I
12. [ORNL, USA] ORNL Neutron Transport in Thick Sodium
13. [ORNL, USA] Pool Critical Assembly-Pressure Vessel Facility Benchmark
14. [ORNL, USA] ORNL 14-MeV Neutron SS/Borated Poly Slab
15. [University of Illinois, USA] University of Illinois Iron Sphere (D-T)
16. [University of Illinois, USA] University of Illinois Iron Sphere (CF-252)
17. [Univ. of Tokyo, Japan - YAYOI] University of Tokyo-YAYOI Iron Slab
18. [FNG/ENEA, Italy] FNG-SS Shield (integral meas.)
19. [FNG/ENEA, Italy] FNG-ITER Blanket Bulk Shield (integral meas.)
20. [NRC, USA] H.B. Robinson-2 Pressure Vessel
21. [LBNL, USA] BEVALAC Experiment with Nb Ions on Nb & Al Targets
22. [MSU, USA] Experiment with He & C ions on Al target
23. [NIST, USA] Neutron Leakage from Water Spheres

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