Technical Sessions

Monday 22

Fission Observables - 9:00-12:00
Chaired by O. Serot

- **S. Oberstedt** [30'] "*JRC Geel : nuclear fission research at GELINA and MONNET*"
- **V. Piau** [20'] "*New results on prompt gamma-rays multiplicity*"
- **S. Chiba** [30'] "*Evaluation of fission product yields and their covariance matrices*"
- **Coffee break** [20']
- **S. M. Cheikh** [20'] "*Test of models for isotopic yields evaluation*"
- **R. Mills** [20'] "*Recent FY evaluations with the emphasis on Cs137, Eu153 and Nd148*"
- **J. Taieb** [30'] "*Prompt fission neutron of 239Pu : new high accuracy measurement of nubar and PFNS*"
- **B. Geslot** [20'] "*Recent experiments at ILL for measuring delayed neutrons induced by thermal fission*"

Lunch break - 12:00-13:00

Nuclear Data Uncertainties - 13:00-15:30
Chaired by R. Ichou and C. De Saint Jean

Nuclear Data Uncertainties - 13:00-15:30 *Chaired by R. Ichou and C. De Saint Jean*

- **I. Kodeli** [20'] "*Mathematical verification of JEFF-3.3 and ENDF/B-VIII.0 covariance data*"
- **R. Ichou** [20'] "*WPNCS SG7-10 activities on nuclear data uncertainty estimation on depletion calculations for the ARIANE GU3 benchmark*"
- **D. Rochman** [20'] "*Impact of JEFF-3.3, ENDF/B-VIII.0 and JENDL-4.0 uncertainties on PIE isotopic compositions and decay heat*"
- **Coffee break** [20']
- **O. Cabellos** [20'] "*WPEC/SG46 TAR exercise: preliminary results*"
- **D. Bernard** [20'] "*Decay Heat: ND uncertainty propagation (methodology, impact of FY correlations and focus on the 239Np/endf/Decay Data) and CLAB experimental validation*"

Decay Data - 15:30-18:00
Chaired by A. Algora and M.A. Kellett

- **X. Mougeot** [20'] "*The BetaShape code to calculate accurate beta and neutrino spectra and their usefulness for JEFF*"
- **S. Leblond** [20'] "*Advances in beta spectra measurements at the LNHB*"
- **M.A. Kellett** [15'] "*The future JEFF-4 Radioactive Decay Data sub-library*"
- **Coffee break** [20']
- **A. Algora** [20'] "*TAGS measurements for reactor applications: recent results*"
- **M. Fallot** [20'] "*TAGS measurements and neutrino applications*"
- **V. Dimitriou** [20'] "*Beta-delayed neutrons: IAEA CRP and reference database*"

Tuesday 23

Experiments - 8:30-11:30

Chaired by Maëlle Kerveno

- **M. Kerveno** [5'] "*Opening remarks*"
- **A. Junghans** [20'] "*16O(n,alpha) and nat-Fe transmission experiments at nELBE*"
- **A. Negret** [20'] "*Inelastic measurements with GAINS and GRAPhEME at GELINA*"
- **S. Kopecky** [20'] "*Review of new transmission and capture data available for JEFF4*"
- **Coffee break** [20']
- **D. Cano-Ott** [20'] "*The lastest n-TOF measurements for JEFF and prospects*"
- **G. Zerovnik** [20'] "*Am-241 neutron activation measurements at JSI TRIGA reactor*"

Evaluation Methods - 11:30-12:30

Chaired by D. Rochman and L. Leal

- **R. Capote** [30'] "*INDEN evaluation of major actinides: U-235, U-238, U-233, and Pu-239*"
- **L. Leal** [30'] "*Evaluation at IRSN*"

Lunch break - 12:30-13:30

Evaluation Methods - 13:30-16:30

Chaired by D. Rochman and L. Leal

- **G. Schnabel** [30'] "*Nuclear data evaluation with Bayesian networks*"
- **A. Koning** [30'] "*New TENDL/JEFF evaluations for the isotopes of Ag, Pm, Eu and Lu*"
- **S. Kopecky** [15'] "*JRC Geel evaluation work*"
- **Coffee break** [15']
- **E. Dupont** [15'] "*n_TOF data available for JEFF-4*"
- **D. Brown** [15'] "*The recent ENDF/B-VIII efforts*"
- **G. Noguere** [15'] "*JEFFlab evaluations*"

Machine Learning - 16:30-18:00

Chaired by O. Cabellos

- **A. Koning** [15'] "*EXFOR and outliers*"
- **D. Neudecker** [15'] "*Using ML and various integral responses to identify unconstrained physics spaces in nuclear data*"
- **H. Sjöstrand** [15'] "*Using Gaussian Processes for the evaluation of Fe-56*"
- **A. Sanchez-Caballero** [15'] "*Deep Learning applied to capture cross section data analysis*"
- **R. D. Lasseri** [15'] "*Using Neural approaches to refine photo-reaction section evaluation*"
- **All** [10'] "*Discussion and comments*"

Wednesday 24

Benchmarking - 9:00-12:00

Chaired by N. Leclaire

- **N. Leclaire** [20'] "*Calculation of the kritz-LWR-RESR-004 benchmark with MORET 5 CODE*"
- **O. Cabellos** [20'] "*Testing of the JEFF-3.3 with IRPhEP/LWR KRITZ Benchmark*"
- **D. Rochman** [20'] "*Selection of Pu239 and TSL for JEFF-4.0, based on random sampling and criticality benchmarks*"

- **I. Hill** [20'] "*Updates to the NEA Nuclear Data and Sensitivity Tool (NDaST)*"
- **Coffee break** [15']
- **S. Van der Marck** [20'] "*Observations based on benchmarking results for JEFF-4T0*"
- **F. Alvarez Velarde** [20'] "*Nuclear data recommendations from sensitivity calculations done in EURAD EU project*"
- **T. Taylor** [20'] "*Nuclear data for chloride fast reactors*"
- **A. Jimenez-Carrascosa** [10'] "*Impact of Doppler calculation in SEFOR Benchmark due to the differences between JEFF-3.3 and JEFF-3.1.1*"*

Lunch break - 12:00-13:00

Thermal Scattering Law - 13:00-15:30
Chaired by J. I. Marquez Damian

- **V. Jaiswal** [20'] "*Thermal Scattering Cross-Sections for Hydrogen Fluoride*"
- **J. I. Marquez Damian** [20'] "*NJOY+NCrystal: Update of the Code and Thermal Scattering Library*"
- **Coffee break** [20']
- **K. Ramic** [20'] "*Thermal Neutron Scattering Evaluation for Polyethylene from RPI/ORNL/ESS*"
- **G. Noguere** [20'] "*Thermal Scattering Law activities at CEA/DES Cadarache*"
- **H. Ayman** [20'] "*WPEC Subgroup (SG) 48: Advances in Thermal Scattering Law Analysis*"

Theory - 15:30-17:00
Chaired by S. Hilaire

- **T. Kawano** "*Recent progress in statistical nuclear reaction theories for nuclear data evaluation*"
- **R. Capote** "*TBC*"
- **G. Nobre** "*TBC*"
- **A. Mengoni** "*DRC modeling for nuclear data evaluations*"
- **M. Dupuis** "*Modeling of direct and pre-equilibrium reactions : focus on spin distributions*"

Thursday 25

Processing - 9:00-10:30
Chaired by O. Cabellos

- **A. Jimenez-Carrascosa** "*Processing of JEFF ND libraries for the SCALE Code System and testing with criticality experiments*"*
- **K. Tada** "*Nuclear Data Processing Code FRENDY Version 2*"
- **O. Cabellos** "*Processing covariances for WPEC/SG46 TAR Exercise*"
- **E. Alhassan** "*On the use of Bayesian Model Averaging in nuclear data evaluations*"

Depletion - 10:30-12:00
Chaired by D. Bernard

- **O. Cabellos** "*Comparison of Burnup Calculations for ND Validation Activities*"*
- **R. Ichou** "*Investigations on the kinf results with burnup using recent JEFF libraries*"
- **D. Bernard** "*The huge (and unknown) 135mXe(n,gamma) xs and the 239Pu(n_th,f)153Eu FY in JEFF-4.0 (and JEFF-3.3) and their impact on LWR-Xe poisoning peak and on the reactivity loss versus burnup respectively*"
- **A. Trkov** [20'] "*Impact of new INDEN evaluations in depletion*"

Lunch break - 12:00-13:00

JEFF-4 Status - 13:00-17:00
Chaired by A. Plompen

- **A. Plompen / D. Foligno** "*Survey results*"
- **M. Kerveno** "*Summary Experiments session*"
- **O. Serot** "*Summary Fission Observables session*"
- **A. Algora / M. Kellet** "*Summary Decay-Data session*"
- **R. Ichou / C. De Saint Jean** "*Summary ND Uncertainties session*"
- **D. Rochman / L. Leal** "*Summary Evaluation Methods session*"
- **O. Cabellos** "*Summary Machine Learning session*"
- **N. Leclaire** "*Summary Benchmarking session*"
- **J. I. Marquez Damian** "*Summary Thermal Scattering Law session*"
- **S. Hilaire** "*Summary Theory session*"
- **O. Cabellos** "*Summary Processing session*"
- **D. Bernard** "*Summary Depletion session*"
- **D. Leichtle** "*Summary Fusion session*"
- **All** "*Discussion*"

[Cocktail 17:00-18:00]

A cocktail reception will take place at the Château de La Muette, just after the Thursday's sessions.

Friday 26

JEFF Co-Ordination Group - 8:30-13:00 *Chaired by A. Plompen*

Reserved to the CG members