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**NUCLEAR ENERGY AGENCY  
STEERING COMMITTEE FOR NUCLEAR ENERGY**

**Data Bank Management Committee**

**JEFF Nuclear Data Week**

**25-29 April 2022**

Hybrid meeting

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## JEFF Nuclear Data Week – April 2022

### Monday 25

Session	Time	Durat.	Speaker	Affiliation	Title	JEFDOC
Experiments	09:00	5	Maëlle Kerveno	IPHC, FR	Introduction by the chair Maëlle Kerveno	-
	09:05	20+5	Anatoly Kochetkov	SCK-CEN, BLG	Integral experiments at VENUS	J-2116
	09:30	20+5	Michal Košťál	CVŘ, CZ	New integral experiments in LR-0 Rez	J-2117
	09:55	20+5	Luka Snoj	IJS, SLO	Integral experiments at the JSI Triga reactor	J-2118
	10:20	20+5	Olga Ogorodnikova	MEPHI, RU	Simulation of radiation damage in W, Mo, Fe using high energy protons, fission and fusion neutrons	J-2119
	10:45	30	<i>Coffee Break</i>			
Nuclear Data Uncertainties	11:15	5	Raphaelle Ichou / Cyrille De Saint Jean	IRSN, FR / CEA-BRC, FR	Introduction by the chairs Raphaelle Ichou and Cyrille De Saint Jean	-
	11:20	15+5	Luca Fiorito	SCK-CEN, BLG	SANDY application to JEFF-4.0	J-2120
	11:40	10+5	Nuria Garcia-Herranz	UPM, SPN	Impact of nuclear data uncertainties for advanced reactors	J-2121
	11:55	20+5	David Regnier	CEA-SACLAY, FR	Towards an exact Bayesian inference of the prompt fission neutron observables	J-2122
	12:20	60	<i>Lunch Break</i>			
Fission Observables	13:20	5	Olivier Serot	CEA-CAD, FR	Introduction by the chair Olivier Serot	-
	13:25	20+5	Abdelaziz Chebboubi	CEA-CAD, FR	Isomeric ratio measurements with the LOHENGRIN spectrometer	J-2123
	13:50	15+5	Shin Okumura	IAEA	Recent progress of TALYS for the description of fission observables	J-2124
	14:10	20+5	Audrey Chatillon	CEA-BRC, FR	Overview of the results obtained within the SOFIA experimental campaigns	J-2125
	14:35	15+5	Robert Mills	NNL,UK	Recent FY evaluations with the emphasis on Cs137, Eu153 and Nd148	J-2126
	14:55	20+5	Olivier Serot	CEA-CAD, FR	Status on Fission Yield Evaluations for JEFF-4	J-2127
	15:20	10+5	Vanessa Vallet	CEA-CAD, FR	Impact of new 235U thermal fission yields evaluation and covariances on decay heat applications	J-2128
	15:35	30	<i>Coffee Break</i>			

Decay Data	16:05	5	Alejandro Algora / Mark Kellett	IFIC, SPN / CEA-BRC, FR	Introduction by the chairs Alejandro Algora and Mark Kellett	-
	16:10	15+5	Alejandro Algora	IFIC, SPN	TBD	J-2129
	16:30	20+5	Victor Guadilla Gomez	FUW, POL	Beta decay of fission fragments with isomeric states: the case of <sup>96</sup> Y	J-2130
	17:55	5+5	Alejandro Algora	IFIC, SPN	IAEA update report	J-2131
	17:05	5	<i>Break</i>			
Depletion	17:10	5	David Bernard	CEA-CAD, FR	Introduction by the chair David Bernard	-
	17:15	10+5	David Bernard	CEA-CAD, FR	LWRs fuel pins calculations: JEFF-x	J-2132
	17:30		<i>The End</i>			

## Tuesday 26

Session	Time	Durat.	Speaker	Affiliation	Title	JEFDOC
	08:30	45	EUROfusion administration			
	09:15	10	<i>Break</i>			
Fusion	09:25	5	Dieter Leichtle	KIT, GER	Introduction by the Chair Dieter Leichtle	E-1469
	09:30	10	Dieter Leichtle	KIT, GER	Minutes of last meeting, review of actions	E-1470
	09:40	15+5	Alexander Konobeev	KIT, GER	Status of the work for neutron displacement cross-sections for JEFF-4T0	E-1471
	10:00	20+5	Vlad Avrigeanu	NIPNE, RUM	Progress Report on evaluation of fast-neutron induced alpha-emission	E-1472
	10:25	20	<i>Coffee Break</i>			
	10:45	20+5	Marilena Avrigeanu	NIPNE, RUM	Progress Report on analysis of deuteron-induced reactions on structural materials	E-1473
	11:10	5+5	Greg Bailey	UKAEA, UK	TBD	E-1474
	11:20	10+5	Philippe Filliatre	CEA-CAD, FR	Online neutron measurement systems in fission reactors: applicability to breeding blankets of DEMO	E-1475
	11:35	10+5	Axel Klix	KIT, GER	Preparation of neutron and photon spectra measurements in the Tungsten shielding assembly	E-1476

	11:50	10+5	Maurizio Angelone	ENEA, IT	Status of the Tungstene Shielding Experiment	E-1477
	12:05	60	<i>Lunch Break</i>			
	13:05	10+5	Alexander Prokofiev	UPPSALA, SWD	Measurements of neutron-induced light-ion production at NFS (progress report)	E-1478
	13:20	15+5	Ivan Alexander Kodeli	UKAEA, UK	Justification of Fe(n,a) measurement, XSUN news	E-1479
	13:40	15+5	Gasper Zerovnik	IJS, SLO	Validation of JEFF-4T evaluations for isotopes of V and Si using fusion shielding benchmarks	E-1480
	14:00	10+5	Olga Ogorodnikova	MEPHI, RU	Effect of He production due to fusion neutrons on T retention in W and Eurofer	E-1481
	14:15	15+5	Victor Lopez Ochoa	UNED, SPN	Compatibility of the MCNP code with deuteron libraries and the parameterization for breakup reaction	E-1482
	14:35	5	Dieter Leichtle	KIT, GER	Wrap-up, actions, next meeting	E-1483
	14:40	5	Dieter Leichtle	KIT, GER	AOB	E-1484
	14:45	5	<i>Break</i>			
Processing	14:50	5	Oscar Cabellos	UPM, SPN	Introduction by the chair Oscar Cabellos	-
	15:55	15+5	Cedric Jouanne	CEA-SAC, FR	Processing and benchmarking of JEFF40T1, JENDL5 and TENDL21 libraries with TRIPOLI-4 Monte Carlo Code	J-2133
	15:15	20+10	Jean-Christophe Sublet	IAEA	JEFF-4.0T1 processing trails and landmarks	J-2134
	15:45	30	<i>Coffee Break</i>			
Theory and Models	16:15	5	Stephane Hilaire	CEA-BRC, FR	Introduction by the chair Stephane Hilaire	-
	16:20	20+10	Ron Dagan	KIT, GER	Determination of scattering kernels in KeV energy range	J-2135
	16:50	15+5	Vlad Avrigeanu	NIPNE, RUM	Charged-particle optical potentials proved besides the stability line	J-2136
	17:10	15+5	Marilena Avrigeanu	NIPNE, RUM	Analysis of the deuteron activation of neutron-rich Mo nuclei	J-2137
	17:30	20+10	Olivier Bouland	CEA-CAD, FR	Feedback on 239-Pu neutron-induced cross sections from recent work below 12MeV	J-2138
	18:00		<i>The End</i>			

## Wednesday 27

Session	Time	Durat.	Speaker	Affiliation	Title	JEFDOC
Benchmarks	09:00	5	Nicolas Leclaire	IRSN, FR	Introduction by the chair Nicolas Leclaire	-
	09:05	15+5	Luca Fiorito	SCK-CEN, BLG	TBD	J-2139
	09:25	20+5	Nicolas Leclaire	IRSN, FR	Feedback on JEFF-4T1 on a selection of critical experiments	J-2140
	09:50	20+5	Ivan Alexander Kodeli	UKAEA, UK	V&V of JEFF-4T and FENDL-3.2a iron cross sections against shielding benchmarks	J-2141
	10:15	30	<i>Coffee Break</i>			
	10:45	20+5	Marco Fabbri	F4E, SPN	V&V of JEFF-4.0T1 by means of JADE software	J-2142
	11:10	15+5	Steven van der Marck	NRG, NED	First results of criticality safety benchmark calculations using JEFF-4T1	J-2143
	11:30	15+5	Antonio Jimenez Carrascosa	UPM, SPN	Processing and benchmarking of the JEFF-4T1 library in the frame of SCALE Code System	J-2144
	11:50	10+5	Gilles Noguère	CEA-CAD, FR	TBD	J-2145
	12:05	10+5	Francisco Alvarez Velarde	CIEMAT, SPN	Analysis of the ESRF model with JEFF-4T1	J-2146
	12:20	60	<i>Lunch Break</i>			
Machine Learning	13:20	5	Oscar Cabellos	UPM, SPN	Introduction by the chair Oscar Cabellos	-
	13:25	15+5	Albà Jacas Arnau	PSI, SWT	Lasso Monte Carlo for Nuclear Data Uncertainty Propagation in Burn-up Calculations	J-2147
	13:45	10+5	Junchen Pei	PKU, CHN	Bayesian Data Fusion of Imperfect Fission Yields	J-2148
	14:00	20+5	Georg Schnabel	IAEA	Automated Bayesian network generation for large scale evaluations	J-2149
	14:25	15+5	Oscar Cabellos	UPM, SPN	Teaching the nuclear data pipeline within GRE@T-PIONEER EU/H2020 project	J-2150
	14:45	30	<i>Coffee Break</i>			
Thermal Scattering Law	15:15	5	José Ignacio Marquez Damian	ESS, ARG	Introduction by the chair José Ignacio Marquez Damian	-
	15:20	15+5	Vaibhav Jaiswal	IRSN, FR	Thermal scattering law for Hydrogen Fluoride	J-2151
	15:40	15+5	Iyad Alqasir	SHARJAH, UAE	Thermal Scattering Law Calculations at University of Sharjah	J-2152
	16:00	10+5	Gilles Noguère	CEA-CAD, FR	Mixed elastic format for ZrH <sub>2</sub>	J-2153
	16:15	15+5	Danila Roubtsov	CNL, CAN	On Possible Gaps in Nuclear Data for MSR Applications: mostly TSL	J-2154
	16:35	10+5	Esben Klinkby	DTU, DEN	Development of thermal scattering kernels for sodium hydroxide	J-2155

	16:50	10+5	Douglas Dijulio	ESS, SWD	Advances in cold moderator scattering kernel development at the European Spallation Source	J-2156
	17:05	10+5	Ron Dagan	KIT, GER	New mathematical platform for a better insight of the physical phenomena regarding TSL	J-2157
	17:20	10+5	Thomas Kittelmann	ESS, DNK	NCrystal - release 3.0 announcement	J-2158
	17:35		<i>The End</i>			

## Thursday 28

Session	Time	Durat.	Speaker	Affiliation	Title	JEFD0C
Evaluation Methods	09:00	5	Luiz Leal	IRSN, FR	Introduction by the Chair Luiz Leal	-
	09:05	15+5	Emmeric Dupont	CEA-SACLAY, FR	n_TOF resonance parameters in ENDF-6 format	J-2159
	09:25	20+5	Roberto Capote	IAEA	New evaluations for Fe, Cr and Cu from INDEN	J-2160
	09:50	15+5	Luiz Leal	IRSN, FR	ND Evaluation work at IRSN	J-2161
	10:10	30	<i>Coffee Break</i>			
	10:40	20+5	Olivier Bouland	CEA-CAD, FR	Summary of recent revision of the 238-Pu low-energy neutron cross sections	J-2162
	11:05	15+5	Henrik Sjöstrand	UPPSALA, SWD	A TALYS based evaluation system for the fast energy range - application to Fe56	J-2163
	11:25	10+5	Jean-Christophe Sublet	IAEA	JEFF-4.0T1 verification processes on the ENDF-6 form	J-2164
	11:40	10+5	Tim Ware	JACOBS, UK	Status of REFIT	J-2165
	11:55	65	<i>Lunch Break</i>			
	13:00	20+5	Helmut Leeb	TUWIEN, AUT	R-matrix based description of reactions in light nuclear systems: account of non-binary channels	J-2166
	13:25	20+5	Stefan Kopecky	EC	RRR evaluation for U-238 and Mo	J-2167
	13:50	5	<i>Break</i>			
JEFF-4 Status	13:55	5	Arjan Plompen	EC	Introduction by the Chair Arjan Plompen	-
	14:00	5	Maëlle Kerveno	IPHC, FR	Summary Session on Experiments	-
	14:05	5	David Bernard	CEA-CAD, FR	Summary Session on Depletion	-
	14:10	5	Olivier Serot	CEA-CAD, FR	Summary Session on Fission Observables	-

14:15	5	Alejandro Algora / Mark Kellett	IFIC, SPN / CEA-SACLAY, FR	Summary Session on Decay Data	-	
14:20	5	Dieter Leichtle	KIT, GER	Summary Session on Fusion	-	
14:25	5	Oscar Cabellos	UPM, SPN	Summary Session on Processing	-	
14:30	5	Stephane Hilaire	CEA-BRC, FR	Summary Session on Theory and Models	-	
14:35	5	Nicolas Leclaire	IRSN, FR	Summary Session on Benchmarking	-	
14:40	5	Oscar Cabellos	UPM, SPN	Summary Session on Machine Learning	-	
14:45	5	Raphaëlle Ichou / Cyrille De Saint Jean	IRSN, FR / CEA-BRC, FR	Summary Session on Nuclear Data Uncertainties	-	
14:50	5	José Ignacio Marquez Damian	ESS, ARG	Summary Session on Thermal Scattering Law	-	
14:55	5	Luiz Leal	IRSN, FR	Summary Session on Evaluation Methods	-	
15:00	5	Dimitri Rochman	PSI, SWT	Summary Dedicated Session on Random Files	-	
15:05	5	Mark Gilbert	UKAEA, UK	Summary Dedicated Session on Activation Library	-	
15:10	5	Gilles Noguère	CEA-CAD, FR	Summary Dedicated Session on the Big 3		
15:15	30	<i>Coffee Break</i>				
15:45	135	Arjan Plompen	EC	JEFF-4 Status + Discussion	J-2168	
18:00		<i>The End</i>				