4th International Workshop On Nuclear Data Evaluation for Reactor applications

WONDER 2015

October 5th – October 8th, 2015
Aquabella hotel - Aix-en-Provence, France

Monday October 5th, 2015

Lunch (buffet) and Registration		12:00-14:00		
		Introduction		
	(Chair: O. Serot)	14:00-14:20	Welcome adresses from Christian BONNET (Director of the CEA-Cadarache center) and Frank CARRE (Scientific Director of the Nuclear Energy Division)	
		Nuclear Data needs for reactor applications		
		14:20-14:50	Simon RAVAUX	The nuclear data - A key component for reactor studies - Overview of AREVA needs and applications
		14:50-15:10	Christophe DESTOUCHES	Review of nuclear data improvement needs for nuclear radiation measurement techniques used at the CEA experimental reactor facilities
		Microscopic nuclear data measurements		
	(Chair: A. Plompen)	15:10-15:40	Yaron DANON	Recent Nuclear Data Measurement at the Gaerttner LINAC Center at RPI
		15:40-16:10	Maria DIAKAKI	Towards the high-accuracy determination of the 238U fission cross section at the threshold region at CERN - n_TOF
Coffee break				
	(Chair: Y. Danon)	16:40-17:00	Ignacio DURAN ESCRIBANO	CERN-nTOF 235U(n,f) cross-section in the Resolved Resonance Region.
		17:00-17:20	Jorge LERENDEGUI	New experimental data on 242Pu(n,g) at n_TOF
		17:20-17:40	David DENIS-PETIT	Radiative capture to isomers studies on 176Lu isotope using the DANCE array at LANL
		17:40-18:00	Atsushi KIMURA	Neutron capture cross-section measurements of Gd-155 and Gd-157 in J-PARC/MLF/ANNRI
		18:00-18:20	Stefan KOPECKY	Experimental validation of resonance files

Tuesday morning, October 6th, 2015

		Evaluation of nuclear data (theories, models, codes)		
	(Chair: R. Capote)	**09:00-09:30**	**Arjan PLOMPEN**	**Solving Challenges in Nuclear Data and the future of the Joint Evaluated Fission and Fusion Library**
		09:30-09:50	**Oscar CABELLOS DE FRANCISCO**	**Activities of the NEA Working Party on International Nuclear Data Evaluation Co-operation project (WPEC)**
		09:50-10:10	**Gustavo NOBRE**	**New 56Fe evaluation for the CIELO Project**
		10:10-10:30	**Nobuyuki IWAMOTO**	**Evaluation of Neutron Capture Cross Sections and Covariances on 99Tc and 129I in the keV Energy Region**
Coffee break				
	(Chair: R. Capote)	**11:00-11:20**	**Olivier BOULAND**	**Monte Carlo simulation of transfer reactions using extended R-matrix theory**
		11:20-11:40	**Jose Manuel QUESADA**	**A Lane consistent optical model potential for nucleon scattering on actinide nuclei with extended coupling**
		Thermal scattering laws		
	(Chair: G. Noguere)	**11:40-12:00**	**Juan Pablo SCOTTA**	**Study of neutron scattering in light water in Mistral experience carried out in EOLE reactor**
		12:00-12:20	**Iyad AL-QASIR**	**Thermal Neutron Scattering Law of BeO Using Ab Initio Lattice Dynamics**

Tuesday afternoon, October 6th, 2015

		Emission of Prompt Fission Neutron and Gamma		
	(Chair: C. Wagemans)	**14:00-14:30**	**Roberto CAPOTE**	**Prompt fission neutron spectra of major actinides at the thermal point**
		14:30-14:50	**Alf GOOK**	**Prompt Fission Neutron Emission from 235U(n,f) in the Resolved Resonance Region**
		14:50-15:10	**Anabella TUDORA**	**Even-odd effects in the prompt fission emission of even Z actinides**
		15:10-15:30	**Zsolt ELTER**	**Energy Correlation of Prompt Fission Neutrons**
		15:30-15:50	**Denise NEUDECKER**	**Evaluations of 239Pu and 235U Prompt Fission Neutron Spectra Induced by Thermal to 30 MeV Neutrons**
Coffee break				
		Processing and benchmarking (Chair: O. Cabellos)		
	(Chair: O. Cabellos)	**16:20-16:50**	**Jonathan WALSH**	**Neutron Cross Section Processing Methods for Improved Integral Benchmarking of URR Evaluations**
		16:50-17:10	**Franco MICHEL-SENDIS**	**NDEC: Development of an automated platform for the verification, testing, processing and benchmarking of Evaluated Nuclear Data at the NEA Data Bank**
		17:10-17:30	**Carlos Javier DIEZ DE LA OBRA**	**On the processing of JEFF-3.2 neutron data library with AMPX 6.2 for its use with the SCALE tool suite**
		17:30-17:50	**Raphaelle ICHOU**	**Use of integral experiments for the assessment of the U235 capture cross section within the CIELO Project**
		17:50-18:10	**Cedric JOUANNE**	**GALILEE-1: a validation and processing system for ENDF-6 and GND evaluations**
		18:10-18:30	**Pietro MOSCA**	**Need of a consistent and convenient nucleus identification in ENDF files for the automatic construction of the depletion chains**

Wednesday October 7th, 2015

		Integral nuclear data measurements		
	(Chair: C. De Saint Jean)	**08:30-08:50**	**Pierre LECONTE**	**Thermal neutron activation experiments of Mo, Zn, Eu, Sn and Zr**
		08:50-09:10	**Shigeaki OKAJIMA**	**Fission rate ratios of FCA-IX assemblies as integral experiment for assessment of TRU's fission cross section**
		09:10-09:30	**Mario CARTA**	**Feasibility study of the AOSTA experimental campaign**
		Decay data and Fission Yields	(Chair: A. Tudora)	
	(Chair: A. Tudora)	**09:30-10:00**	**Audrey CHATILLON**	**The SOFIA experiment: measurement of the isotopic fission fragments yields**
Coffee break				
		10:30-10:50	**Christophe SAGE**	**233U mass yield measurements around and within the symmetry region with the ILL Lohengrin spectrometer**
		10:50-11:10	**Abdelaziz CHEBBOUBI**	**Isomeric ratio measurements with the ILL Lohengrin spectrometer**
		10:10-11:20	**Junichi KATAKURA**	**Revision of the JENDL FP Fission Yield Data**
		11:20-11:40	**David REGNIER**	**Microscopic prediction of fission yields based on the time dependent GCM formalism**
		11:40-12:00	**Amanda PORTA**	**Total Absorption Spectroscopy of fission fragments relevant for reactor antineutrino spectra and decay heat calculation**
Lunch (buffet)				
		13:00-17:30	**Visit CEA-Cadarache facilities**	
		19:30	**Workshop Dinner**	

Thursday October 8th, 2015

		Uncertainties and covariance matrices		
	(Chair: D. Neudecker)	**08:30-09:00**	**Helmut LEEB**	**Differential Cross Sections and the Impact of Model Defects in Nuclear Data Evaluation**
		09:00-09:20	**Oliver BUSS**	**NUDUNA/MOCABA - Improved PWR simulations by Monte-Carlo uncertainty analysis and Bayesian inference**
		09:20-09:40	**Sebastien LAHAYE**	**Comparison of deterministic and stochastic approaches for isotopic concentration and decay heat uncertainty quantification on elementary fission pulse**
		09:40-10:00	**Nicholas TERRANOVA**	**Covariance Generation Methodologies for Fission Product Yields**
		10:00-10:20	**Petter HELGESSON**	**New Ni-59 data including uncertainties and consequences for gas production in steel in LWR spectra**
Coffee break				
		Fission Fragments Observables		
	(Chair: O. Serot)	**10:50-11:20**	**Diego RAMOS**	**Dependence of Fission-Fragment Properties On Excitation Energy For N-rich Actinides**
		11:20-11:40	**Esther LEAL-CIDONCHA**	**Fission fragment angular distribution measurements of 235U and 238U at n_TOF (CERN)**
		11:40-12:00	**Loic THULLIEZ**	**Sensitivity studies of spin cutoff and energy sharing models on fission fragment observables**
Lunch (buffet)				
		End of the Workshop		

Posters

Ludovic MATHIEU	**Development of a gaseous proton recoil detector for fission cross section measurement below En=1MeV**
Leila YETTOU	**Calculation of preequilibrium effects in neutron-induced cross section on 65Cu using the EMPIRE 3.2 code**
Cristiana OPREA	**Neutron Induced Capture and Fission Processes on 238U nucleus**
Alexander AURES	**Impact of nuclear data on sodium-cooled fast reactor calculations**
Augusto HERNANDEZ-SOLIS	**Development of a computational platform for the assessment of multi-group PN uncertainties associated to TENDL angular distributions**
Manuela FRISONI	**ANITA-2000 activation code package-updating of the decay data libraries and validation on the experimental data of 14 MeV Frascati Neutron Generator**
Massimo PESCARINI	**Validation of the BUGJEFF311.BOLIB, BUGENDF70.BOLIB and BUGLE-B7 Broad-Group Libraries on the PCA-Replica (H2O/Fe) neutron shielding benchmark experiment**
Gregory PERRET	**Toward Reanalysis of the Tight-Pitch HCLWR-PROTEUS Phase II Experiments**