

EFNUDAT- Fast Neutrons: Neutron Measurements, Theory and Applications

Tuesday 28 April 2009			
08:00-09:00	Registration	15:00-15:30 Fragment mass yields in neutron-induced fission of ^{232}Th and ^{238}U at 32, 45 and 60 MeV by I.V. Ryzhov	
09:00-09:15	Opening & welcome F.-J. Hamsch, P. Rullhusen	15:30-16:00 <i>Coffee break</i>	
09:15-12:40	Session I - Chair: F.-J. Hamsch	16:00-18:00 Session III - Chair: R. Jacqmin	
09:15-10:00	Fission studies with fast neutrons: overview of the latest experimental results by N. Colonna	16:00-16:30 Quasi-absolute neutron-induced fission cross section of ^{243}Am - Variance-covariance analysis by G. Kessedjian	
10:00-10:45	Innovative reactors and nuclear data needs by R. Jacqmin	16:30-17:00 Measurement of the number of prompt neutrons emitted in $^{239}\text{Pu}(n,f)$ reaction with neutron beam up to 200 MeV by B. Laurent	
10:45-11:15	<i>Coffee break</i>	17:00-17:30 Fission product spectroscopy using digital signal processing by Sh. Zeynalov	
11:15-12:00	Fission studies at CEA DAM : a joint theoretical and experimental effort to improve our understanding of the fission phenomenon by E. Bauge	17:30-18:00 A new measurement of the prompt fission neutron emission spectrum of $^{235}\text{U}(n,f)$ by I. Fabry	
12:00-12:40	Successful EURATOM strategy for partitioning and transmutation research: orientation towards radio-active waste management or advanced systems? by V. Bhatnagar	18:15-21:30 <i>Workshop reception</i>	
12:40-14:00	<i>Lunch</i>	Wednesday 29 April 2009	
14:00-15:30	Session II - Chair: A. Wallner	09:00-10:30 Session IV - Chair: E. Bauge	10:30-11:00 <i>Coffee break</i>
14:00-14:30	Measurement of the ratio between the capture and the fission cross sections of ^{233}U by M. Aiche	09:00-09:30 Protactinium neutron-induced fission up to 20 MeV by V. M. Maslov	11:00-12:30 Session V - Chair: N. Colonna
14:30-15:00	Neutron-induced cross sections of short-lived nuclei via the surrogate reaction method by S. Czajkowski	09:30-10:00 Neutron-induced activation cross sections on hafnium isotopes from the threshold to 20 MeV by V. Semkova	11:00-11:30 Information on the super-deformed ground state in $^{235}\text{U}^*$ by A. Oberstedt
		10:00-10:30 Consistent analysis of $^{50,52-54}\text{Cr}$ fast-neutron activation by V. Avrigeanu	11:30-12:00 Fluctuation analysis of neutron and photon spectra with unresolved peak density by E. Grosse
			12:00-12:30 Testing of FDDAS at FZD by A. Matic
			12:30-14:00 <i>Lunch</i>
			14:00-15:30 Session VI – Chair: R. Nolte
			14:00-14:30 Measurement of elastic neutron scattering at high energies with SCANDAL at TSL by P. Andersson
			14:30-15:00 First measurements of inelastic neutron scattering at nELBE by R. Beyer
			15:00-15:30 Neutron inelastic cross section measurements on ^{28}Si by A. Negret
			15:30-16:00 <i>Coffee break</i>
			16:00-18:20 Session VII – Chair: E. Grosse
			16:00-16:30 Investigation of the experimental conditions at nELBE by E. Birgersson
			16:30-17:00 Elastic and inelastic neutron scattering cross sections for $^{206,207}\text{Pb}$ and ^{209}Bi in the energy range from 2 MeV to 4 MeV by E. Pönitz
			17:00-17:30 Measurement of $(n,xn\gamma)$ reactions of interest for the new nuclear reactors by J.C. Thiry

17:30-18:00 **Neutron production in neutron-induced reactions at 96 MeV on iron and lead**
by F.-R. Lecolley

18:00-18:30 **AMS measurements of long-lived radionuclides produced in fusion and fission environments** by A. Wallner

19:00-22:30 *Conference dinner*

Thursday 30 April 2009

09:00-10:30 **Session VIII** - Chair: T. Belgya

09:00-09:30 **Target preparation and characterisation at IRMM** by G. Sibbens

09:30-10:00 **CACAO: a laboratory for thin radioactive targets** by C.-O. Bacri

10:00-10:30 **KADoNiS - The Karlsruhe astrophysical database of nucleosynthesis in stars**
by I. Dillmann

10:30-11:00 *Coffee break*

11:00-12:30 **Session IX** - Chair: G. Sibbens

11:00-11:30 **Target preparation for the cold neutron beam facility at the Budapest research reactor** by T. Belgya

11:30-12:00 **The target laboratory at IPN, Orsay**
by V. Petitbon

12:00-12:20 **Operation of the liquid lead loop at nELBE**
by A. Junghans

12:20-14:00 *Lunch*

14:00-16:30 **Session X** - Chair: A. Oberstedt

14:00-14:30 **Characterization of neutron detectors for nuclear technology applications**
by T. Martinez

14:30-15:00 **Characterisation of the ANITA white neutron beam** by R. Nolte

15:00-15:30 *Coffee break*

15:30-16:00 **Measurement of the $^{16}\text{O}(n,\alpha)^{13}\text{C}$ cross section** by G. Giorginis

16:00 **End of workshop**

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Scientific workshop on Neutron Measurements, Theory and Applications

Nuclear data for sustainable nuclear energy

Geel, Belgium

28-30 April 2009

Programme