



Agenda

THEORY-5 Scientific Workshop

24-26 September 2019, Castelvecchio Pascoli

Monday, 23 September 2019	
18:00	Registration
19:00	Reception

Tuesday, 24 September 2019	
8:00	Registration
8:30	Opening session
8:30 – 8:50	Welcome: S. Oberstedt, N. Carjan
8:50	Session I (Chair: A. Tudora)
8:50 – 9:30	Parameter Optimization and Sensitivity with FREYA (R. Vogt)
9:30 – 10:10	Fission in a microscopic framework: from basic science to support for applications (I. Stetcu)
10:10 – 10:30	Multiplicity of Scission Neutrons from Density Functional Scission Dynamics (N. Carjan)
10:30	Coffee Break
11:00	Session II (Chair: R. Vogt)
11:00 – 11:40	Overview of deterministic modelings of prompt emission in fission (A. Tudora)
11:40 – 12:00	Microscopic description of α -decay as super-asymmetric fission (M. Mirea)
12:00	Lunch
14:00	Session III (Chair: M. Lebois)
14:00 – 14:40	Studies on prompt fission neutrons at JRC-GEEL (A. Göök)
14:40 – 15:20	Isomer yields in fission (A. Al-Adili)
15:20 – 15:40	Angular distribution of fragments in neutron-induced nuclear fission at energies 1-200 MeV: data, theoretical models and relevant problems (A. Barabanov)
15:40	Coffee Break
16:10	Session IV (Chair: A. Göök)
16:10 – 16:50	Anisotropy in Fission Fragment and Prompt Neutron Angular Distributions (A. Lovell)
16:50 – 17:30	Systematic and anomalous trends in fragment mass and TKE distributions and fragment shape in terms of 4D Langevin model (S. Chiba)
17:30 – 17:50	Possible ternary fission of super-heavy nuclei (T. Wada)
17:50 – 18:10	Investigation of fission product isomeric ratios and angular momenta of ^{132}Sn populated from $^{241}\text{Pu}(n_{\text{th}},f)$ reaction (J. Nicholson)
18:10	Closure, day 1
19:30	Workshop Dinner



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Wednesday, 25 September 2019	
8:30	Session V (Chair: J. Wilson)
8:30 – 9:10	Systematic study of the de-excitation of neutron-rich nuclei produced in different fission reactions (A. Oberstedt)
9:10 – 9:30	Investigating the fission process: a study of the prompt fission gamma-rays from the fission of $^{241}\text{Pu}^*$ (D. Gjestvang)
9:30 – 10:00	Measurement of high-energy prompt fission gamma-ray emission in $^{235}\text{U}(\text{n}_{\text{th}},\text{f})$ (H. Makii)
10:00	Coffee Break
10:30	Session VI (Chair: A. Oberstedt)
10:30 – 11:05	The Nu-Ball campaign at ALTO (M. Lebois)
11:05 – 11:40	Precision spectroscopy of fast-neutron-induced fission and correlations between observables (J. Wilson)
11:40 – 12:00	Direct measurement of isotopic fragment yields from low-energy fission of ^{239}U (M. Caamaño)
12:00 – 12:20	The spectroscopy of the shape isomer in ^{238}U by nu-ball spectrometer at IPN Orsay (N. Jovančević)
12:20 – 12:40	Preliminary report on Shape Isomer Search in ^{239}U (A. Dragic)
12:40	Closure, day 2
12:50	Lunch
14:30	Visit of “Ponte della Maddalena” and the village of Montecarlo Fattoria Buonamico – winery at Montecarlo
19:30	Conference Dinner



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Thursday, 26 September 2019	
08:30	Session VII (Chair: S. Chiba)
8:30 – 9:10	Non-evaporation neutrons in PFNS at outgoing neutron energies larger than 8 MeV (R. Capote Noy)
9:10 – 9:50	Energy sharing based on microscopic level densities (J. Randrup)
9:50 – 10:10	Measurement of Short-Lived Fission Yields via Cyclical Irradiations (E. Matthews)
10:10	Coffee Break
10:40	Session VIII (Chair: E. Matthews)
10:40 – 11:20	Fission of trans-lead nuclei: from cluster emission to r-process nucleosynthesis (S. Giuliani)
11:20 – 11:40	Study of gamma transitions and level scheme of ^{56}Mn and ^{94}Nb using the $(n_{\text{th}}, 2\gamma)$ reaction (D. Knezevic)
11:40 – 12:00	TANGRA Multi-detector Systems for Investigation of Neutron-Nuclear Reactions at the JINR Frank Laboratory of Neutron Physics (I. Ruskov)
12:00	Lunch
14:00	Session IX (Chair: K.-H. Schmidt)
14:00 – 14:40	Hindrance in α -decay and fission of high-K isomers in (super) heavy nuclei (M. Kowal)
14:40 – 15:00	Towards neutron-rich heavy and superheavy nuclei (A. Karpov)
15:00 – 15:20	Fission of Pt isotopes, obtained in the reaction $^{36}\text{Ar} + ^{142}\text{Nd}$ (F. Ivanyuk)
15:20 – 15:40	An insight into the future of NICOLE (M. Travar)
15:40	Coffee Break
16:10	Session X (Chair: J. Randrup)
16:10 – 16:50	Structural effects in the production of neutrons, photons, and anti-neutrinos in fission (K.-H. Schmidt)
16:50 – 17:10	Measurements of the ROT-effect in the emission of prompt gamma-rays and neutrons in fission of ^{235}U induced by polarized neutrons with energies of 4, 60 and 270 meV (Yu. Kopatch)
17:10 – 17:30	Dependence of the ROT effect on the energy of light charged particles and the energy of the incident neutron (I. Guseva)
17:30 – 18:00	Closing address: N. Carjan, S. Oberstedt
18:00	End of lectures
19:30	Dinner