

# ***“Nuclear Fission Dynamics and the Emission of Prompt Neutrons and Gamma Rays”***

**Castelvecchio Pascoli  
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## **List of Contributors (confirmed)**

- 1) Göök, Alf (Studies on prompt fission neutrons at JRC-GEEL)
- 2) Al-Adili, Ali (Isomer yields in fission)
- 3) Barabanov, Alexey (Angular distribution of fragments in neutron-induced nuclear fission at energies 1-200 MeV: data, theoretical models and relevant problems)
- 4) Caamano, Manuel (Direct measurement of isotopic fragment yields from low-energy fission of  $^{239}\text{U}$ )
- 5) Dragic, Aleksandar (Shape isomer in  $^{239}\text{U}$ )
- 6) Gjestvang, Dorthea (Investigating the fission process: a study of the prompt fission gamma-rays from the fission of  $^{241}\text{Pu}^*$ )
- 7) Goutte, Heloise (Description of fission dynamics: A review)
- 8) Guseva, Irina (Dependence of the ROT effect on the energy of light charged particles and the energy of the incident neutron)
- 9) Ivanyuk, Fedir (Fission of Pt isotopes, obtained in reaction  $^{36}\text{Ar} + ^{142}\text{Nd}$ )
- 10) Jovancevic, Nikola (The spectroscopy of the shape isomer in  $^{238}\text{U}$  by nu-ball spectrometer at IPN Orsay)
- 11) Knezevic, David (Study of gamma transitions and level scheme of  $^{56}\text{Mn}$  and  $^{94}\text{Nb}$  using the  $(n_{\text{th}}, 2\gamma)$  reaction)
- 12) Kopatch, Yuri (Measurements of the rot-effect in the emission of prompt gamma-rays and neutrons in fission of  $^{235}\text{U}$  induced by polarized neutrons with energies of 4, 60 and 270 meV)
- 13) Lebois, Matthieu (The Nu-Ball campaign at ALTO)
- 14) Makii, Hiroyuki (Measurement of high-energy prompt fission  $\gamma$ -ray emission in  $^{235}\text{U}(n_{\text{th}}, f)$ )
- 15) Matthews, Eric (Measurement of Short-Lived Fission Yields via Cyclical Irradiations)
- 16) Oberstedt, Andreas (Systematic study of the de-excitation of neutron-rich nuclei produced in different fission reactions)
- 17) Ruskov, Ivan (TANGRA Multi-detector Systems for Investigation of Neutron-Nuclear Reactions at the JINR Frank Laboratory of Neutron Physics)
- 18) Travar, Milos (An insight into the future of NICOLE)

- 19) Wilson, Jonathan (Precision spectroscopy of fast-neutron-induced fission and correlations between observables)
- 20) Capote Noy, Roberto (INDEN Pu-239 evaluation: status and outlook)
- 21) Carjan, Nicolae (Multiplicity of Scission Neutrons from Density Functional Scission Dynamics)
- 22) Chiba, Satoshi (Systematic and anomalous trends in fragment mass and TKE distributions and fragment shape in terms of 4D Langevin model)
- 23) Giuliani, Samuel (Fission of trans-lead nuclei: from cluster emission to r-process nucleosynthesis)
- 24) Karpov, Alexander (Towards neutron-rich heavy and super-heavy nuclei)
- 25) Kowal, Michal (Hindrance in alpha decay and fission of high-K isomers in (super) heavy nuclei)
- 26) Lovell, Amy (Anisotropy in Fission Fragment and Prompt Neutron Angular Distributions)
- 27) Mirea, Mihail (Microscopic description of  $\alpha$ -decay as super-asymmetric fission)
- 28) Nicholson, Jehaan (Investigation of fission product isomeric ratios and angular momenta of  $^{132}\text{Sn}$  populated from  $^{241}\text{Pu}(n_{\text{th}},f)$  reaction)
- 29) Randrup, Joergen (Energy sharing based on microscopic level densities)
- 30) Schmidt, Karl-Heinz (Structural effects in the production of neutrons, photons, and anti-neutrinos in fission)
- 31) Stetcu, Ionel (Fission in a microscopic framework: from basic science to support for applications)
- 32) Tudora, Anabella (Overview of deterministic modelings of prompt emission in fission)
- 33) Vogt, Ramona (Parameter Optimization and Sensitivity with FREYA)
- 34) Wada, Takahiro (Possible ternary fission of super-heavy nuclei)