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JRC Mission

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Theory - 5

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

Castelvecchio Pascoli
Barga, Italy
24-26 September 2019

JRC-Geel-G.2

In collaboration with:

Horia-Hulubei IFINN



The European Commission's
science and knowledge service

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Theory 5 Scientific Workshop on “Nuclear Fission Dynamics and the Emission of Prompt Neutrons and Gamma Rays”

Scope of the workshop

The workshop aims at providing a comprehensive overview about the research on the dynamical aspects of nuclear fission and their consequences on fission fragment properties. It promotes the exchange between theoreticians and experimentalists on future data needs for basic research and applications. Contributions should highlight advancement of nuclear fission theory, with a focus on prompt neutron and gamma ray emission and state-of-the-art experiment techniques.

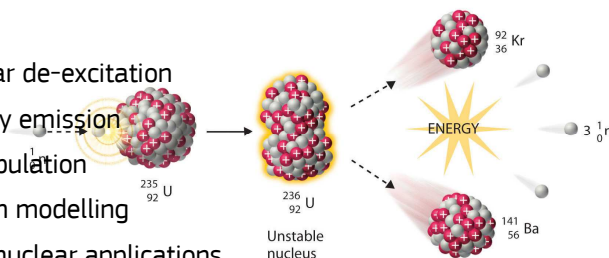
It is the fifth workshop of a series initiated in 2010 (Sinaia, Romania) and continued in 2012 (Biarritz, France), 2014 (Opatija, Croatia) and 2017 (Varna, Bulgaria).

Theory-5 is co-organized by JRC-Geel (Belgium), NIPNE, Bucharest (Romania). The JRC Geel will support participants, which give a presentation.

In order to enhance the workshops' potential for efficient networking, experts are invited to attend and, participation of postdoctoral fellows and PhD students, who wish to present their work, is highly encouraged.

Topics of the workshop

- Nuclear fission dynamics
- Fragment properties and nuclear de-excitation
- Prompt neutron and gamma-ray emission
- Isomer ratios, shape isomer population
- Data needs for improved fission modelling
- Modelling for nuclear and non-nuclear applications



Presentations

The workshop organisation envisages oral presentations only. The program advisory committee will decide and inform contributors on the acceptance and length of their presentations.

Abstracts

Abstracts are due June 7, 2019 and full papers are due on September 26, 2019 at the end of the workshop.

We intend to publish the proceedings in EPJ Web of Conferences. Instructions for the format of abstract and full paper can be found on the workshop website.

Castelvecchio Pascoli, Barga (Italy),
24-26 September 2019

Programme advisory committee

Roberto Capote	IAEA, Austria
Diane Doré	CEA Saclay, France
Jovana Nikolov	University of Novi Sad, Serbia
Andreas Oberstedt	ELI-NP, Romania
Karl-Heinz Schmidt	GEF Erzhausen, Germany
Patrick Talou	LANL, United States of America
Anabella Tudora	Bucharest University, Romania

Acceptance

Participants will be informed of acceptance of their presentation on June 17, 2019.

Registration

Registration for the Theory-5 Scientific Workshop will be opened on June 17, 2019. Deadline for registration and hotel booking is the 31 August 2019. There is no registration fee. For further details please visit the Theory-5 workshop website

<https://ec.europa.eu/jrc/en/event/workshop/Theory-5>

Accommodation and travel

The workshop will take place in the hotel "[Renaissance Tuscany](#)". Participants with a presentation will be reimbursed. Necessary details will be provided soon on the Theory-5 website

Important dates

7 June 2019	Deadline for abstracts
23 June 2019	Notification for authors
31 August 2019	Deadline for registration
24 – 26 September, 2019	Workshop