

Preface

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On June 20–22, 2017 the Scientific Workshop on Nuclear Fission Dynamics and the Emission of Prompt Neutrons and Gamma Rays (THEORY–4) was held in Varna, Bulgaria. It represents the fourth workshop of a series initiated in 2010 in Sinaia, Romania and continued in 2012 (Biarritz, France) and 2014 (Opatija, Croatia). The workshop was co-organized by JRC-Geel-G.2 (Belgium), INRNE (Sofia, Bulgaria) and NIPNE (Bucharest, Romania). The organisers were assisted by a Programme Advisory Committee consisting of R. Capote (IAEA, Austria), S. Oberstedt (EC-JRC-G.2, Belgium), O. Serot (CEA-Cadarache, France), P. Talou (LANL, USA) and A. Tudora (Bucharest University, Romania).

The purpose of the workshop was to provide a comprehensive overview of the dynamical aspects of nuclear fission and their consequences on the fission fragment properties. The contributions have highlighted recent theoretical advancements in the field of nuclear fission and in particular for the emission of prompt neutrons and gamma rays.

Both invited presentations and normal contributions have been given. The success of the workshop must be attributed to the more than 30 contributions, many of which were post-doctoral fellows and PhD students.

The workshop was supported by the JRC-Geel-G.2. The general aim is to support the EU integration process by fostering collaboration with governmental organisations (or the like), which will have an institutional role for providing Science and Technology support to the implementation of policies, particularly through the associated scientific and technical organisations.

We would like to express our gratitude to the program advisory committee, for their help to choose key topics to debate and to the speakers for their carefully prepared presentations. A very special thank you goes to the perfect local organisational support of Carmen Cabanillas Platero.

