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Fission studies at FIPPS

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Neutron-induced fission of actinides is a well-established experimental method to probe the structure of neutron-rich nuclei. While this technique provides a wealth of information about several species in a single experiment, the collected data sets are very complex and require multiple coincidences in order to disentangle radiation originating from different fission fragments. A further complication comes from an additional background from the neutron capture as well as from the beta decay of the created fission fragments. As a result, to extract the desired spectroscopic information, the use of highly granular experimental setups is necessary.

In this talk, I will introduce FIPPS, the Fission Product Prompt gamma-ray Spectrometer, a permanent highly granular gamma-ray detection setup at the Institut Laue-Langevin in Grenoble, France. Its capabilities, results from the previous fission campaigns as well as future experimental and development plans will be presented. A particular focus will be put on the results obtained in the shape-coexistence region around Zr-100 and the development of the future diamond-detector array for fission-fragment tagging.

Type of contribution

Invited Speaker

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