Contribution ID: **70** Type: **not specified**

Independent Fission Product Yields with 2E-2V Spectrometers

The study of the mass distribution resulting from nuclear fission has seen considerable effort over the past few decades, both theoretically and experimentally. Fission product yields are a critical ingredient for simulations of fission applications and the experimental efforts underpinning the nuclear data represent significant technical challenges. There are multiple efforts to constrain these data at facilities around the world, with a prominent interest in the incident neutron energy dependence of the fission product mass splitting. Measuring the independent fission product yields directly gives unparalleled insight into the fission process, including kinematical information such as total kinetic energy, neutron emission, and angular distributions. Historical and current efforts will be discussed, with an emphasis on the next generation SPIDER instrument at the LANSCE facility. Recent results, progress, and technical developments will be presented.

Type of contribution

Invited Speaker

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Session Classification: session 14 (Chair: S. Siem)