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Gamma ray spectroscopy of nuclear fission at ALTO and NFS

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Nuclear fission is a complex, dynamical process involving a dramatic re-arrangement of nuclear matter. Even after much experimental and theoretical investigations over many years this fascinating nuclear reaction is still not fully understood due to the large number of degrees of freedom and final multitude of final states which can be populated. The gamma rays emitted in nuclear fission contain valuable information about both the fission process itself and the structure of exotic neutron-rich nuclei. In this presentation I will address ongoing work to perform gamma-ray spectroscopy of nuclear fission with state-of-the-art hybrid detection systems to learn more about open questions such as excitation energy and angular momentum sharing, high energy gamma-ray emission and barriers in the fission potential energy landscape. The presentation will focus on ongoing and future work at the ALTO and NFS facilities.

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