

## Stories from inside a magnet: solenoidal spectrometers

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Fission barriers in neutron-rich nuclei provide essential input for understanding the astrophysical r-process, yet are extremely challenging to measure. Using direct kinematics is not possible for the investigation of short-lived isotopes. However, high-resolution studies of radioactive beams in inverse kinematics are feasible through the use of a solenoidal spectrometer. By exploiting the underlying kinematics of the reaction, the fission yields as a function of excitation energy can be investigated.

This contribution will include an overview of fission studies in inverse kinematics using solenoidal spectrometers. Features and caveats of this experimental approach will be discussed.

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