

Physics Department Seminar

Friday March 14th, 2014

11:00am in Physical Science 105

“Preliminary Results Of A 2V-2E Fission Fragment Spectrometer”



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Abstract:

Fission fragment inventories play a key role in nuclear science including simulation of fissioning systems, diagnostics for optimal reactor operation, waste disposal, and nonproliferation.

The Spectrometer for Ion Detection in Fission Research (SPIDER) project at Los Alamos National Laboratory is a high-resolution double velocity, double energy (2V-2E) mass spectrometer for event-by-event fission fragment identification. The goal of the detection scheme is to obtain < 1 amu mass resolution.

