

Abstract Submitted  
for the DNP17 Meeting of  
The American Physical Society

**Fission fragment anisotropy of  $^{235}\text{U}$  measured with the fissionTPC** DAVID HENSLE, UWE GREIFE, Colorado School of Mines, NIFFTE COLLABORATION — The fissionTPC, built for the purpose of making neutron-induced fission cross section measurements with unprecedented precision, is a two-chamber MICROMEGAS time projection chamber that allows for three-dimensional tracking of charged particles. This three-dimensional tracking capability also provides a direct measurement of fission fragment angular distributions for neutron-induced fission. Fragment angular anisotropy is an important experimental observable for understanding the quantum mechanical state of the fissioning nucleus and a parameter required to determine detection efficiency for cross section measurements. Preliminary results for  $^{235}\text{U}$  fission fragment anisotropy as a function of neutron energies in the range 130 keV–100 MeV will be presented.

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Date submitted: 30 Jun 2017

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