

Abstract Submitted
for the DNP17 Meeting of
The American Physical Society

Future Measurements Possible with the NIFFTE fissionTPC

RUSTY TOWELL, Abilene Christian University, NIFFTE COLLABORATION — The Neutron Induced Fission Fragment Tracking Experiment (NIFFTE) Collaboration has applied the proven technology of Time Projection Chambers (TPC) to the task of precisely measuring fission cross sections. The exquisite tracking capabilities of the NIFFTE fissionTPC allow the full reconstruction of charged particles produced by neutron beam induced fissions from a thin central target. Precise measurements have been made at the Los Alamos Neutron Science Center with U-235, U-238 and Pu-239 targets. The wealth of information gained from this approach will allow systematics to be controlled at the level of 1

Rusty Towell
Abilene Christian University

Date submitted: 16 Jun 2017

Electronic form version 1.4