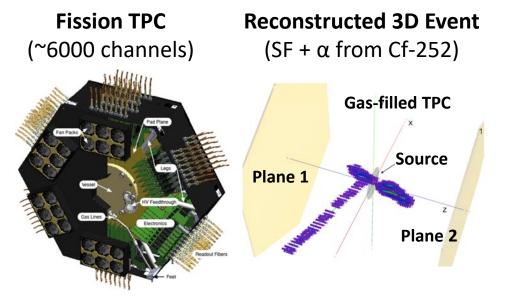
High-Precision Cross-Sections with the Fission TPC

Research Overview

High-precision (<1%) measurement of neutron-induced fission cross-section using a unique Time Projection Chamber.

Energy and defense applications.



Potential Collaborations

- Fission Physics:
 - Ternary fission yield
 - Hydrogen target R&D
 - Fission chamber comparison
 - Actinide cross sections
- Available to discuss collaborations for measurements with FissionTPC

Dissertations

Fission Fragment Angular Distributions in ninduced Fission of ²³⁵U (V. Kleinrath, 2015)

The α-decay to Spontaneous Fission Branching Ratio of ²⁵²Cf (L. Snyder, CSU, 2012)

Fission Fragment Mass Yields (Josh Gearhart, UC Davis, NSSC, since 2015)

Contact information: Mike Heffner, <u>heffner2@llnl.gov</u>,925-422-6762