NE Breakout Session

Nuclear data are **essential**

- To all aspects of U.S. nuclear energy and related systems
- For safe and efficient operation, modeling, simulation, and experiment
- To advancing all initiatives furthering the state of the field
NE Breakout Session

• Strategic community planning in FY16 to get an optimized plan for FY17

• More semi-integral and differential experiments driven by need and science (e.g., follow up on pulsed sphere that were done; separate effects and basic phenomena understanding)

• Covariance data accuracy and completeness in ENDF (neutron, FP yields, gamma production and interactions, decay properties)

• Pu-239 nubar; U-238 (n, γ) [in progress?]
NE Breakout Session

- Consistent FP yield data (resolve cumulative vs. independent inconsistency)
- Gamma production and kerma data
- $S(\alpha, \beta)$ for FLiBe (or at least determining importance)
- More and better measurements for $\beta$-delayed neutrons (need to ensure ne-relevant motivation is helping to direct the work)
- Put deformed Hauser-Feshbach models into EMPIRE and TALYS
Philosophical Driver

• Use existing methodologies in a more systemic way by more extensive use of sensitivity analysis to define target accuracy requirements