

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?]

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- 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 β -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