Nuclear Data Efforts at LANSCE
presented by Aaron Couture, LANL

Nuclear Data Experiments have been made/planned with several instruments:

- GEANIE (**n,x**γ)
- DANCE (**n,**γ)
- LSDS
- Ion Chambers

- Chi-Nu (**n,xn**)
- LENZ (Z=p,d,α, neutron-induced charged-particle reactions)
- TPC (fission research)
- SPIDER (fission yields)

Neutron Capture Data inferred from Beta Decay with Total Absorption Spectroscopy

presented by Sean Liddick, NSCL/MSU

o Measure beta decay of nucleus and infer neutron capture.

    Extract level densities and gamma-ray strength function

o Need total excitation energy of the daughter isotope.

- Need to know initial excitation energy
- Can't use beta-decay electron (three body process).
- Measure total γ-ray energy.
- Require high detection efficiency (low resolution detector).
- Knowledge of multiplicities.

- Wide range of applicability
- Short lifetimes
- Low production rates
- Bounded by
  - Q values
  - Delayed neutron emission

Submission of Supplementary Nuclear Data along with Journal Publication presented by Jun Chen, NSCL

- Most authors don't submit supplementary data, while these data are also useful for researchers and data evaluators

- There are two options for submission of those data
  - Submit to journals with paper manuscript (refereed)
  - Submit to XUNDL database at NNDC (not refereed)

- Authors are strongly encouraged to submit supplementary data to XUNDL database for better visibility and archiving

- Authors are concerned about data submission to XUNDL not refereed. The XUNDL coordinator (Balraj Singh/Libby McCutchan) should make a clarification on that.

- XUNDL should collaborate with journals to have more people to submit supplementary nuclear data.