## BNL future plans

M. Herman National Nuclear Data Center Brookhaven National Laboratory Nuclear Data Week, Nov. 14-18, 2011



a passion for discovery



## **Evaluation**

- Improve Zr evaluations (CY 2012)
  - new soft-rotor potential by Capote
  - extended resonance region by Said (takes care of the large part of fluctuations)
  - reanalyze splitting of the fluctuations among isotopes
  - reanalyze angular distributions
- Finalize <sup>23</sup>Na evaluation (CY 2012-13)
  - revisit resonance region (with ORNL?)
  - revisit inelastic scattering
  - try new optical potential by Marco
  - new inelastic measurements at Kentucky
- Evaluation of <sup>56</sup>Fe (with Europeans, CY 2013 ...)
  - new soft-rotor potential by Capote
  - extended RR region
  - new measurements of inelastic scattering



## **Assimilation**

- Extend EMPIRE to include PFNS and nu-bars in assimilation
- Continue improving <sup>235,238</sup>U and <sup>239</sup>Pu (FY 2012, with INL)
  - better starting point
  - sensitivity to PFNS and nu-bars
  - estimation of uncertainties
- Minor actinide (<sup>242</sup>Pu) and fission product (<sup>105</sup>Pd) (FY 2012, with INL)
- Long term goal: develop robust assimilation methodology allowing for simultaneous assimilation of several materials to numerous integral experiments

