Nuclear Physics at NSF

• Research and Education
  – 200+ faculty
  – 80+ postdocs
  – 200+ graduate students
  – 150+ undergraduates

• University facilities
  – MSU NSCL
  – Tandem/LINAC laboratories
    • FSU
    • Notre Dame

• User group program: DOE/OS/NP is critical partner
Highlights Overview

- production of $^{40}\text{Mg}$ at NSCL
- completion & fill, 50-day run at Borexino
- muon lifetime measurement at PSI
- BONUS detector for neutron structure at JLAB
- parity/binding systematics in few-body systems
- neutrino flavor oscillations and supernovae
- 10th CEU at DNP
Nuclear Physics FY2008

- NSCL operations: flat (not +$1M)
- Nuclear Theory and Experiment: down 5%
  - “class of 2005”
  - Out-year adjustments made to move some impact to FY2009 and FY2010
Nuclear Physics FY2009

- NSCL operations: try to restore trajectory toward optimal operations
- Nuclear Theory and Experiment: impact from FY2008, and/or move forward
- Move forward with DOE on partnered funding plan for neutron EDM
Special Programs

• Physics Division (target date passed):
  – DUSEL R&D
  – Physics at the Information Frontier
  – Frontiers Centers (review process)
• Cyber-Enabled Discovery and Innovation (deadline passed)
  – Some NP participation in proposals and panels
• Major Research Instrumentation (deadline passed)
  – Cost sharing 30%
  – Maximum request $4M
• Domestic Nuclear Detection (April 11)
People

- NSF Director: Arden Bement
- NSF Deputy Director: Kathie Olsen
- MPS Assistant Director: T. Chan
- Physics Division Director: Joe Dehmer
- Nuclear Physics:
  - BDK (expt and theory)
  - Ani Aprahamian (and astro, underground lab)
- Through summer 2008