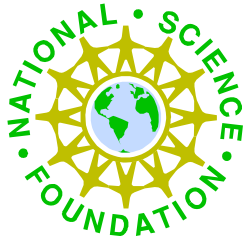


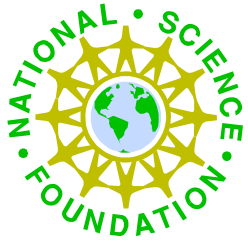
NSF Neutron Science Investment

- Current involvement (\$1.5M/year):
 - Neutron lifetime
 - J. Doyle (Harvard/NIST)
 - Neutron beta asymmetry (LANSCE)
 - A. Young (NCSU), co-spokes.
 - B. Filippone (Caltech)
 - R. B. Vogelaar (VT), run coordinator
 - $np \rightarrow d\gamma$ (LANSCE)
 - M. Snow (IU)
 - T. Chupp, K. Coulter (UM)
- Equipment investment (MRI, program): \$1.1M



Science Context

- CKM Unitarity
 - V_{ud}
 - Neutron lifetime, beta asymmetry
 - PIBETA
 - Role of V_{us}
 - Other approaches, e.g. V_{cs} , V_{cd} at 1% level at CLEO-c?
- Neutron edm
 - LANSCE, SNS
 - Other measurements, e.g. muon edm



Future

- Several pathways, facilities
 - LANSCE
 - SNS
 - NIST
 - New (IU/LENS; other reactors)
 - Overseas (ILL, ...)
 - Other?