



# NSF PROPOSAL CONTENT AND STATUS

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- A proposal was submitted to the NSF at the end of September 2003 to fund a consortium of university based particle and accelerator physicists for R&D towards a muon storage ring neutrino factory as a “renewal” of the funding of the Cornell-led consortium
- Total amount requested = \$3.5M for three years, beginning September 1, 2004

# INSTITUTIONS



- Columbia University
  - \*Northern Illinois University
  - \*Illinois Institute of Technology
  - \*University of Illinois at Urbana-Champaign
  - Michigan State University
  - University of Mississippi
  - \*Northwestern University
  - University of California, Riverside
- \* = ICAR funded

# TASKS



1. Monitoring and controls of high intensity proton sources □ Columbia University
2. Measurement of pion and kaon production cross sections □ Columbia University
3. Development of liquid hydrogen absorbers □ UIUC, IIT, Northern Illinois, Mississippi
4. Muon beam instrumentation □ Northern Illinois, Northwestern
5. Acceleration of muons □ MSU, Mississippi
6. Cooling and emittance exchange □ UIUC, MSU, Mississippi, Riverside

# STATUS



- NSF panel will consider accelerator physics related proposals in April 2004