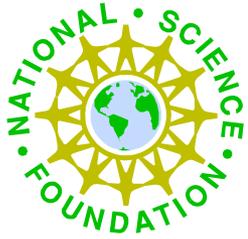


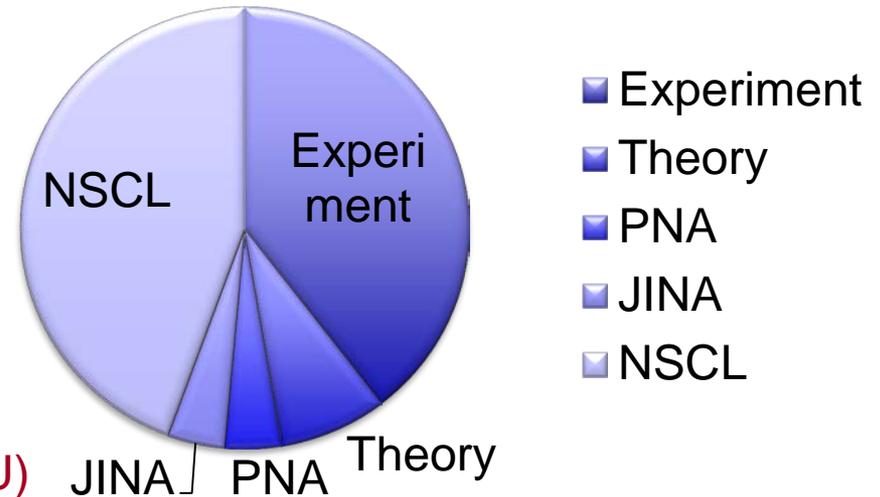
Nuclear Physics at NSF

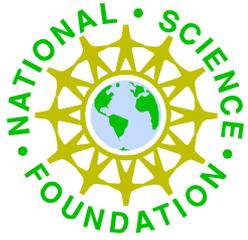
- Investment Overview
- Budgets (FY2012-14)
- Programs, Initiatives, Dates
- People



Nuclear Physics at NSF

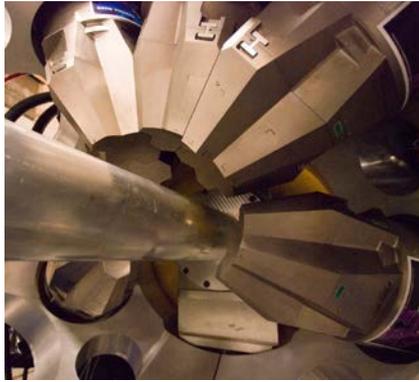
- NP Experiment
 - Structure
 - Heavy Ions
 - Symmetries
 - Hadrons and QCD
 - Astrophysics (Notre Dame, FSU)
- NP Theory
- Particle Astrophysics and Non-Accelerator Physics (PA)
 - Neutrinos (Borexino, $\beta\beta$, ϑ_{13})
- Frontier Center (Joint Institute for Nuclear Astrophysics)
- NSCL
- FY2013 total: \$43M





Research Highlight Samples

Completed Campaigns:



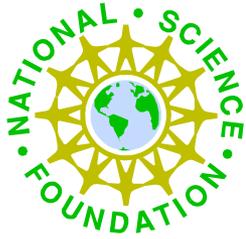
GRETINA at NSCL



W Physics at RHIC



Qweak at JLAB



FY2012-14 Budgets

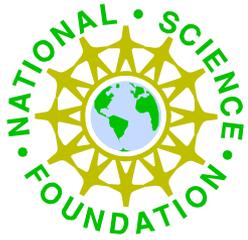
CR through Jan. 15

NSF Research and Related Activities

- FY 2013 actual (not including mandatory -5%): \$5,859.2M
- FY 2014 request: \$6,212.3M (+\$353.1M or +6.0%)
- FY 2014 Senate: \$6,018.3M (+\$159.1M or +2.7%)
- FY 2014 House: \$5,676.2M (-\$183.0M or -3.1%)

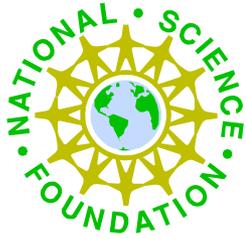
Directorate for Mathematical and Physical Sciences:

- FY 2012 actual: \$1,308.7M
- FY 2013 actual: \$1,249.5M, (-\$59.2M or -4.5%)
- FY 2014 request: \$1,386.1M (+\$136.6M or +10.9% over FY 2013 actual)



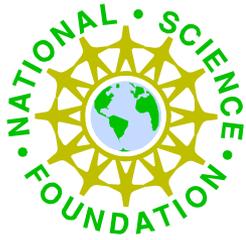
FY2013 Physics Division Budget Impact

- Division budget 10% down from FY2012
- NSF directive: hold commitments to facilities at FY13 request level, and to prior year awards
- Implication:
 - Investigator programs down 12%
 - Most of impact on FY13 proposals



Additional Funding

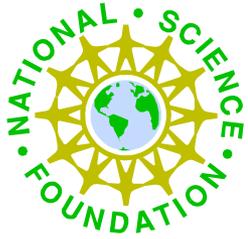
- Domestic Nuclear Detection Office (DNDO)
 - FY2013: awarded
 - FY2014: process not started yet
- Major Research Instrumentation (MRI)
 - FY2013 awards (\$3 M)
 - g-2 instrumentation (U Washington, lead)
 - high-mass resolution beamline (Notre Dame)
- Physics Frontier Centers
 - review process ongoing



Computational and Data-Enabled Science and Engineering (CDS&E)

- NSF-wide
 - resources will depend upon FY2014 actual budget
 - virtual program: implementation specific to division
- Physics Division
 - CDS&E includes ideas at the interface between scientific frameworks and computing capability that enable advances well beyond the expected natural progress of either activity, including development of science-driven algorithms to address pivotal problems in physics and efficient methods to access and mine large data sets.
 - extend/enhance PIF:

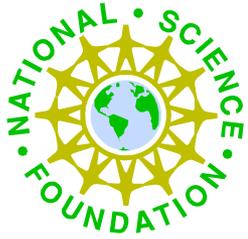
target date (passed): November 29, 2013



Accelerator Science

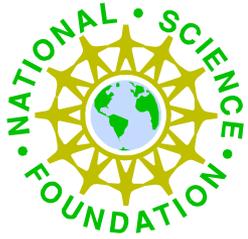
- Starting in FY2014, the Physics Division is accepting proposals to a new program in accelerator science.
- Intended to fund accelerator science, not R&D for specific projects. Collaboration with a national lab (e.g. prototyping) is fine.
- Program Description is now posted (PD 13-7243).

Target Date November 29, 2013



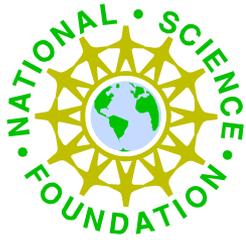
Mid-Scale Instrumentation

- Some money in the Physics Division is set aside for instrumentation. The ultimate goal is for this to grow so that we will have a real “mid-scale” fund.
- Contact us for more information. The process for considering these larger projects is still being worked out.
- *You cannot apply to APPI directly; all proposals must go through the program.*



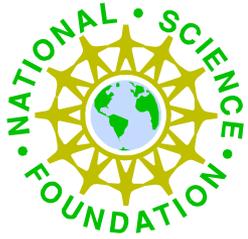
Physics Division FY2014

All target dates for FY2014 have passed.
Proposals under review

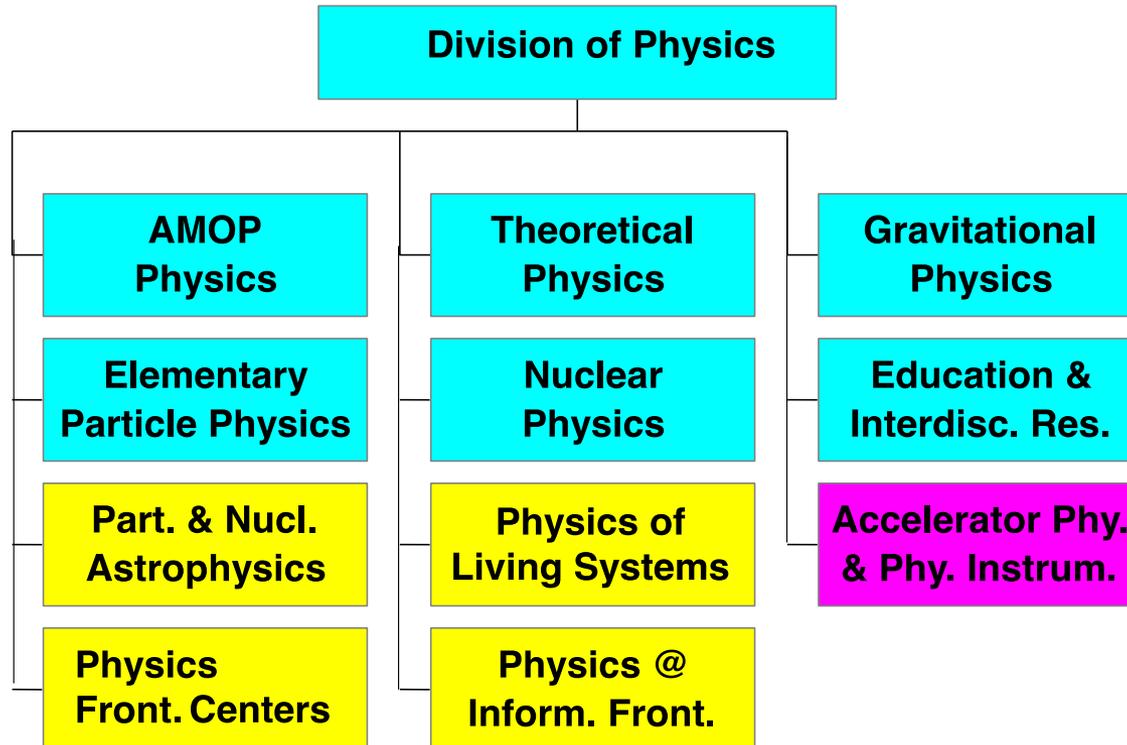


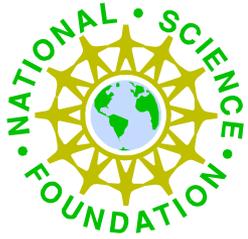
People

- NSF Director: France Cordova (nominated)
- NSF Deputy Director: Cora Marrett
- MPS Assistant Director: F. Fleming Crim
- MPS Deputy Assistant Director: Celeste Rohlifing
- Physics Division Director: Denise Caldwell
- Physics Deputy Division Director: BDK
- Nuclear Physics:
 - Gail Dodge (expt)
 - Alice Mignerey (expt)
 - Bogdan Mihaila (theory)
 - *Search begins soon for NP program director(s)*



Physics Division Organization





Backup Slides