Mathematical and Physical Sciences Directorate

Office of the Director (OD)

National Science Board (NSB)

FY 2013

- Biological Sciences (BIO): $679 M
- Geosciences (GEO): $1266 M
- Mathematical and Physical Sciences (MPS): $1250 M
- Engineering (ENG): $814 M
- Education & Human Resources (EHR): $833 M
- Computer and Information Science and Engineering (CISE): $858 M
- Social, Behavioral, and Economic Sciences (SBE): $243 M
Mathematical and Physical Sciences Directorate

- National Science Board (NSB)
- Office of the Director (OD)
  - Biological Sciences (BIO)
  - Geosciences (GEO)
  - Mathematical and Physical Sciences (MPS)
  - Engineering (ENG)
    - Education & Human Resources (EHR)
    - Computer and Information Science and Engineering (CISE)
    - Social, Behavioral, and Economic Sciences (SBE)
Mathematical and Physical Sciences (MPS)
**Astronomy (AST)**
- Advanced Technology Solar Telescope (ATST)
  - Arecibo Observatory
- Atacama Large Millimeter Array (ALMA)
  - Gemini Observatory
- Large Synoptic Survey Telescope (LSST)
- National Optical Astronomical Observatory (NOAO)
- National Radio Astronomy Observatory (NRAO)
  - National Solar Observatory (NSO)

**Physics (PHY)**
- Ice Cube Neutrino Observatory
- Large Hadron Collider (LHC)
- Laser Interferometer Gravity-wave Observatory (LIGO)
- National Superconducting Cyclotron Laboratory (NSCL)

**Materials Research (DMR)**
- Cornell Higher Energy Synchrotron Source (CHESS)
- National High Magnetic Field Laboratory (NHMFL)
- National Nanotechnology Infrastructure Network (NNIN)
Funding remains “flat” for MPS...

Dollars in Millions

$1,800
$1,600
$1,400
$1,200
$1,000
$800
$600
$400
$200
$0

Fiscal Year

00 01 02 03 04 05 06 07 08 09 10 11 12 13

Actual

AARA
Funding remains “flat” for MPS...

Dollars in Millions

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... while the number of proposals rises
... while the number of proposals rises
FY 2012
$ 1309 M

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FY 2012 $1309 M → -4.5% → FY 2013 $1250 M

Amount (Millions)

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FY 2012
$ 1309 M

FY 2013
$ 1250 M

FY 2014
$ 1386 M (Request)

- 4.5%

10.9%

Amount (Millions)

FY12
FY13
FY14
On Our Minds

New Budget Realities
• Sequester, CR, Zero-sum game?

Difficult Decisions, Community Priorities
• Snowmass, P^5
• Scales: Small, Medium, Large, ...

Major Research Equipment and Facilities Construction (MREFC)
• Near-term budget committed
• Longer-term projects must be a compelling for the Foundation and the science
• Operation costs in future years