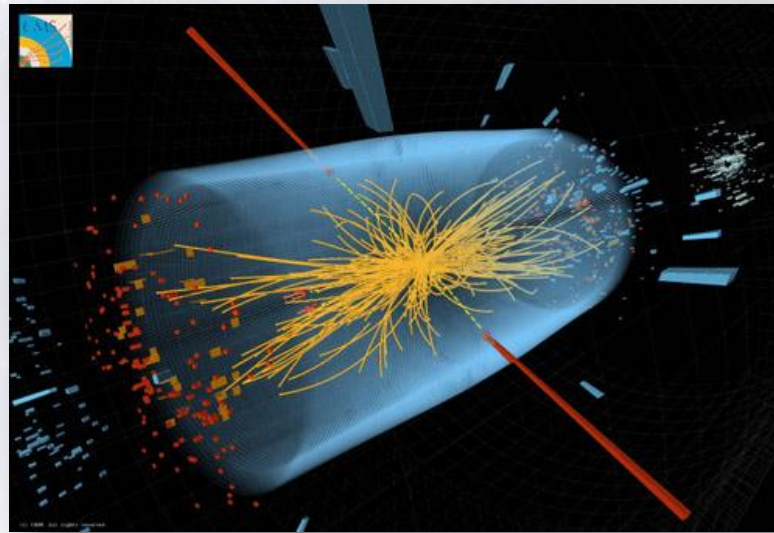


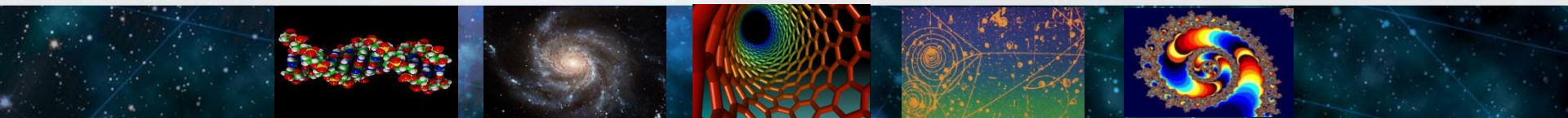
Mathematical and Physical Sciences Directorate

High Energy Physics Advisory Panel

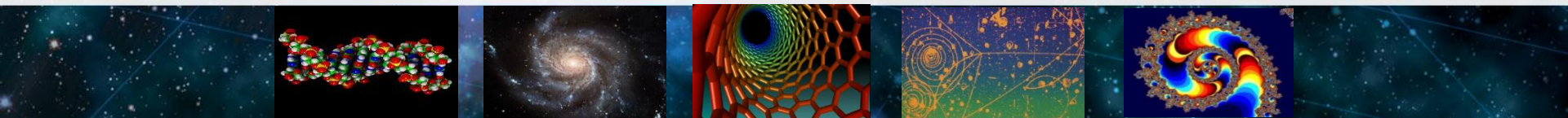
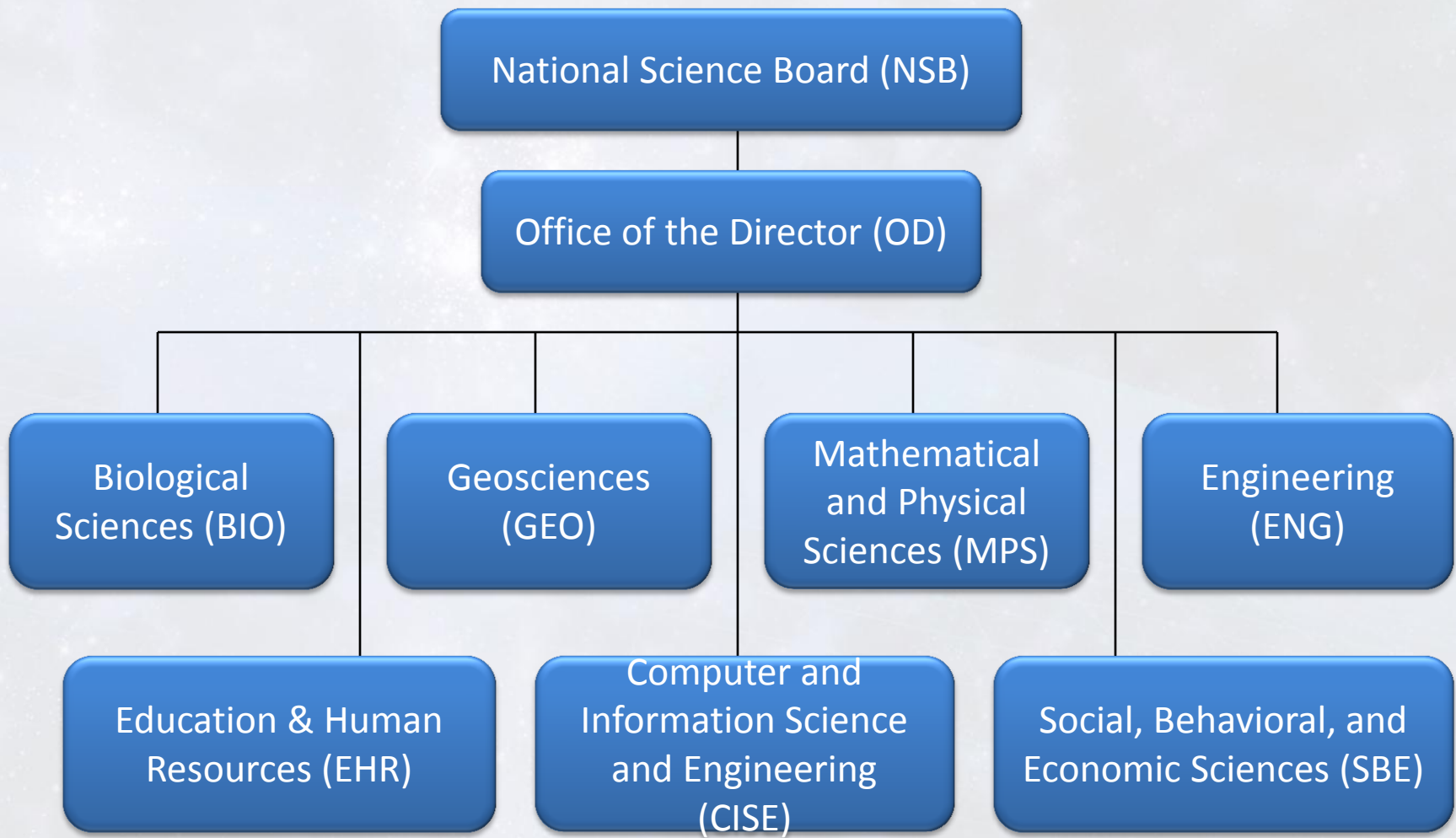
F. Fleming Crim
Assistant Director



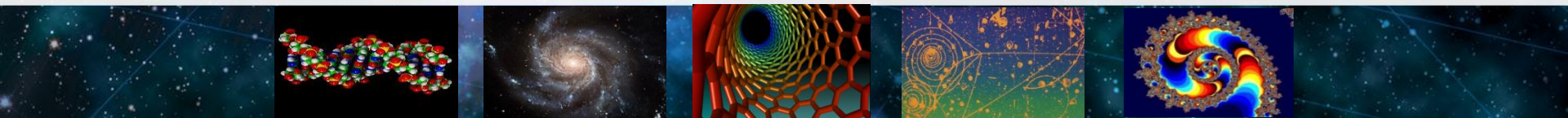
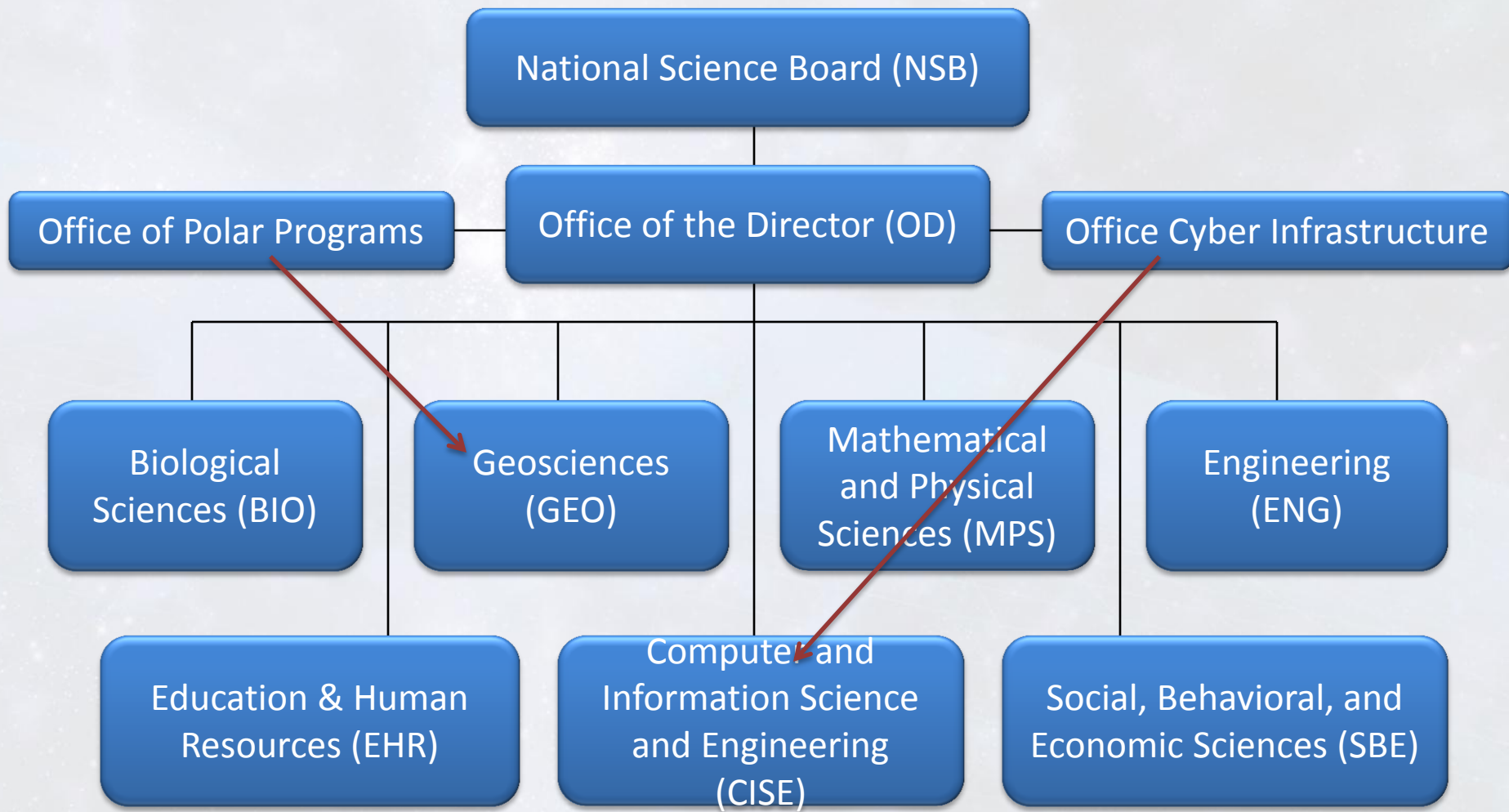
September, 2013



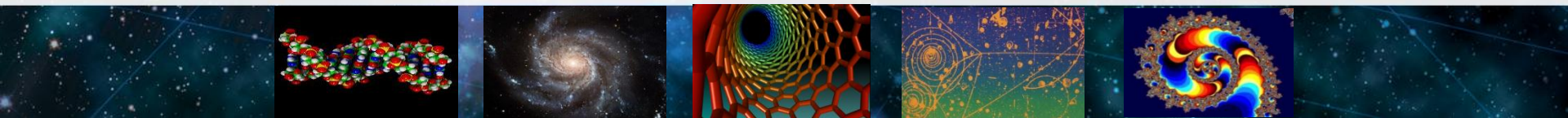
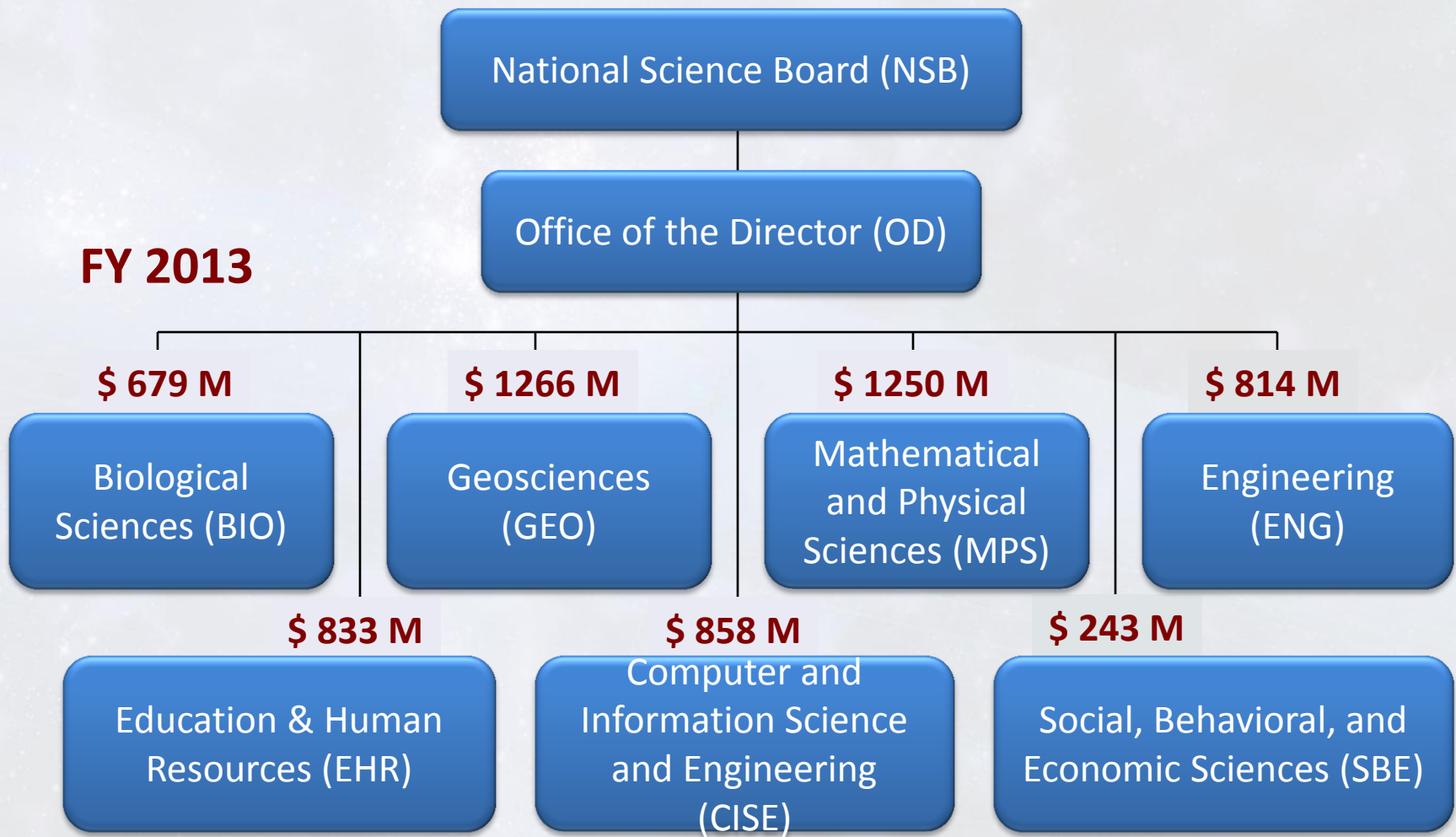
Mathematical and Physical Sciences Directorate



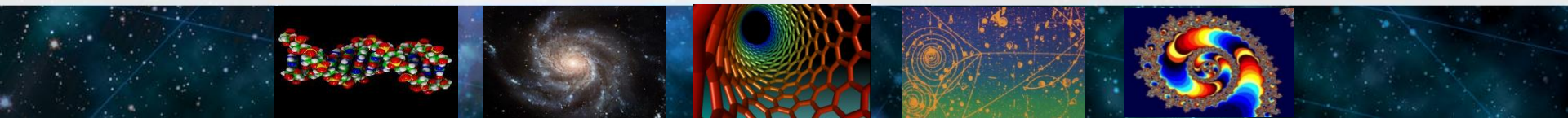
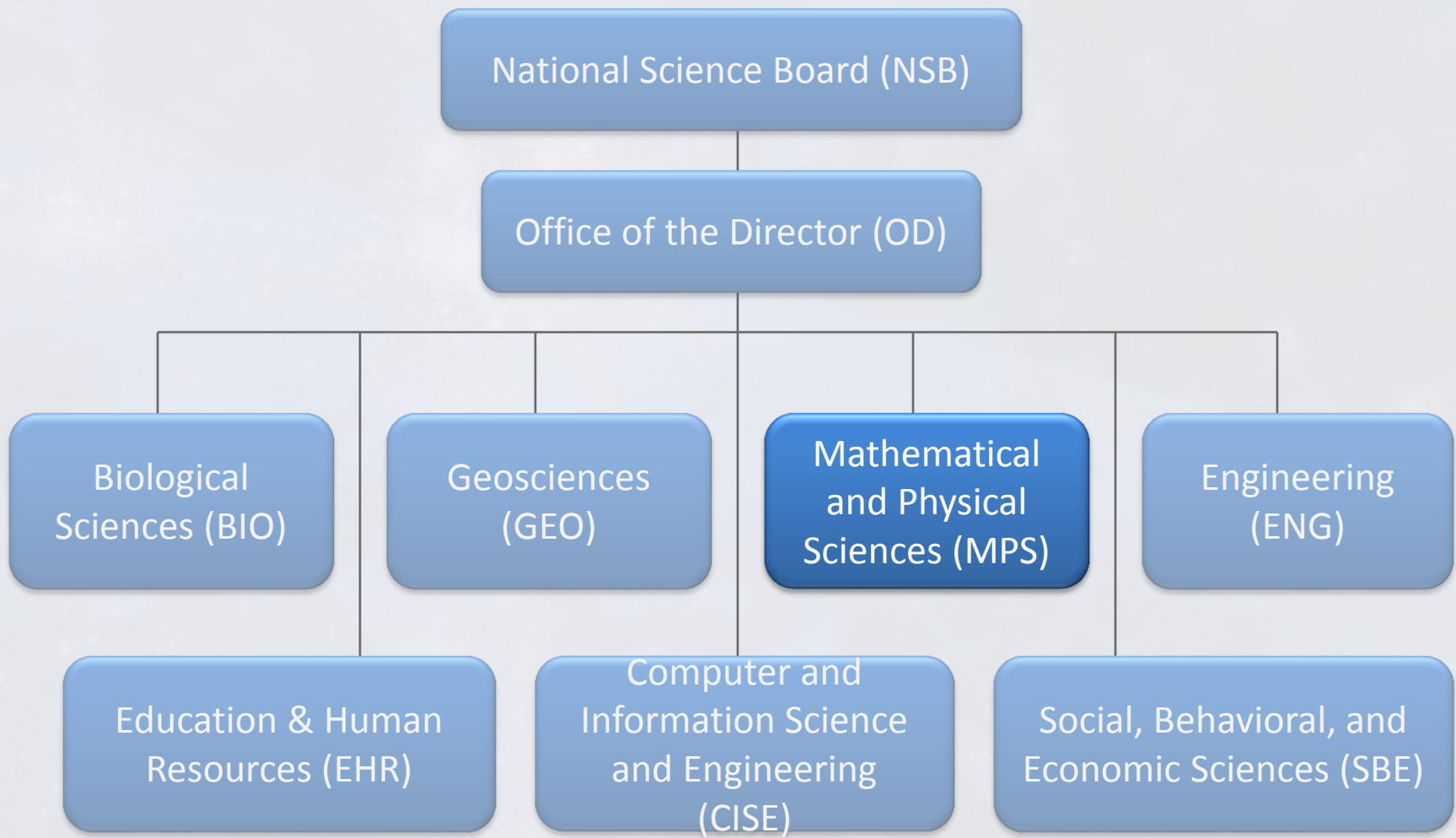
Mathematical and Physical Sciences Directorate

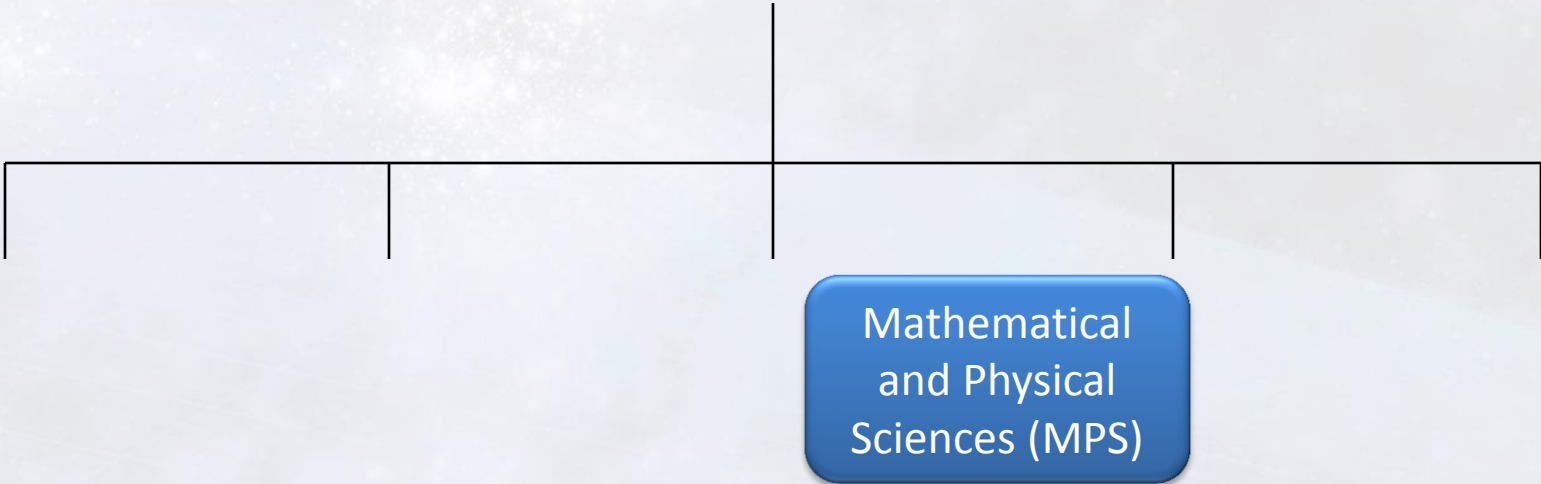


Mathematical and Physical Sciences Directorate

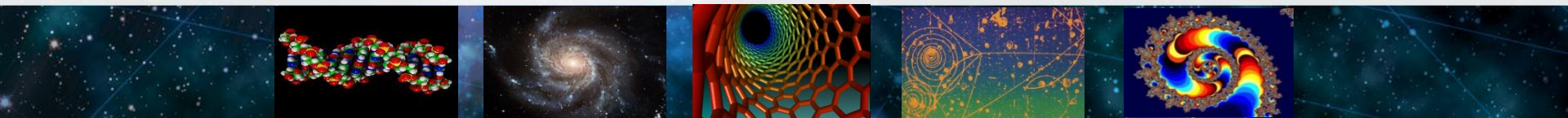


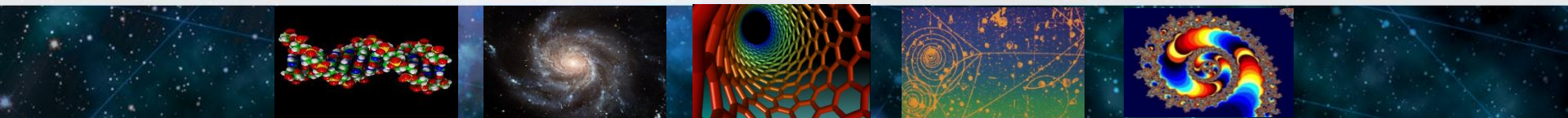
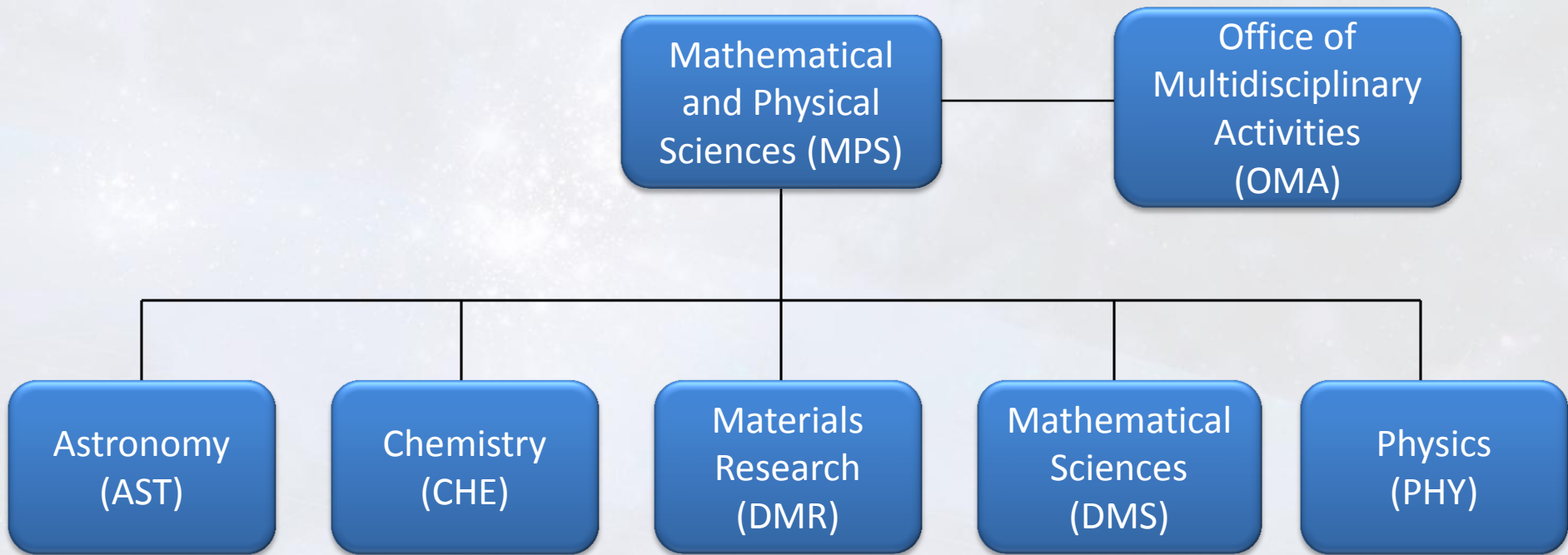
Mathematical and Physical Sciences Directorate





Mathematical
and Physical
Sciences (MPS)





Mathematical and Physical Sciences (MPS)

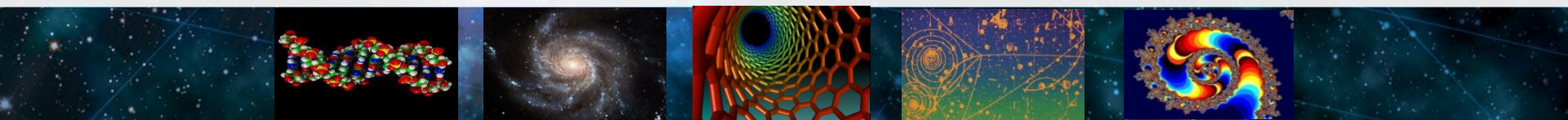
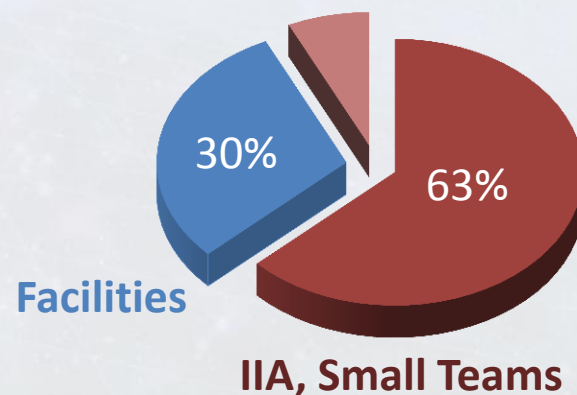
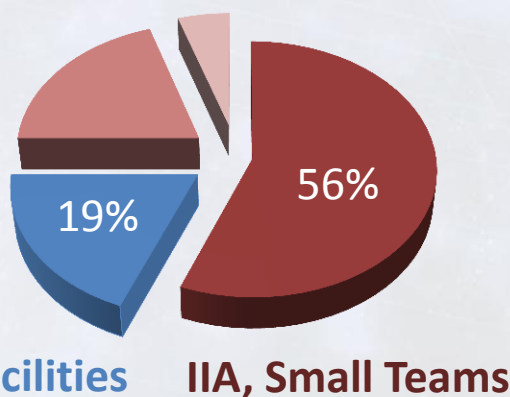
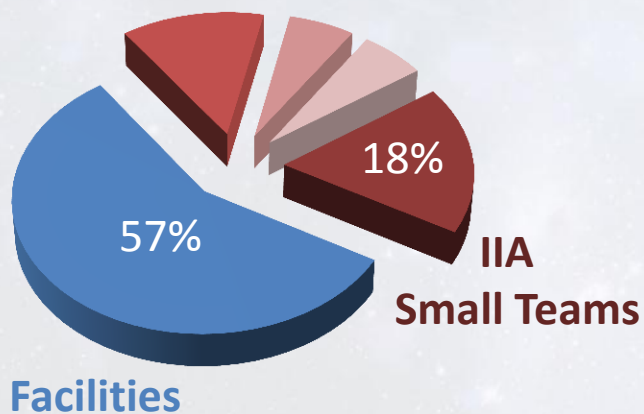
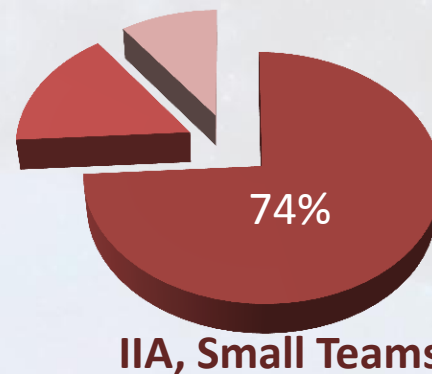
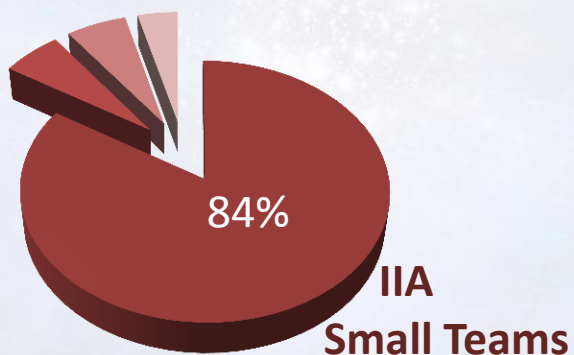
Astronomy
(AST)

Chemistry
(CHE)

Materials
Research
(DMR)

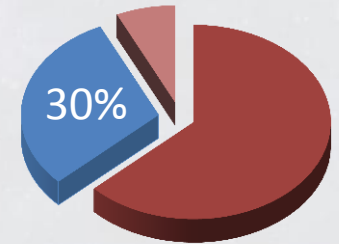
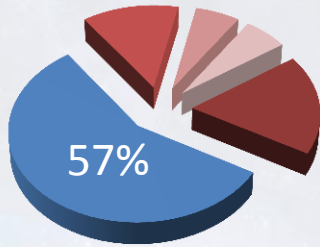
Mathematics
(DMS)

Physics
(PHY)



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)

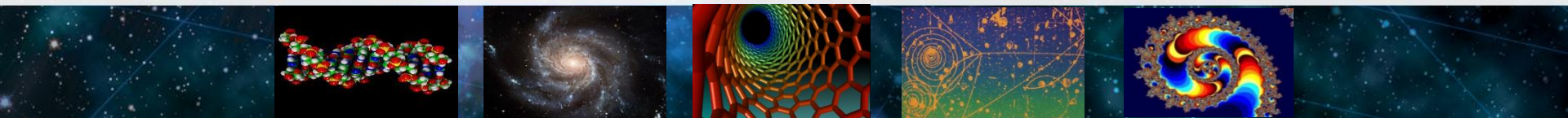
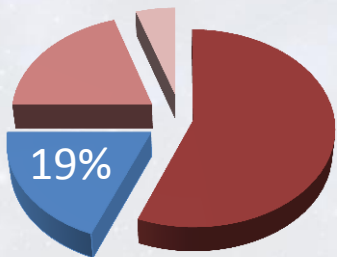


Physics (PHY)

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

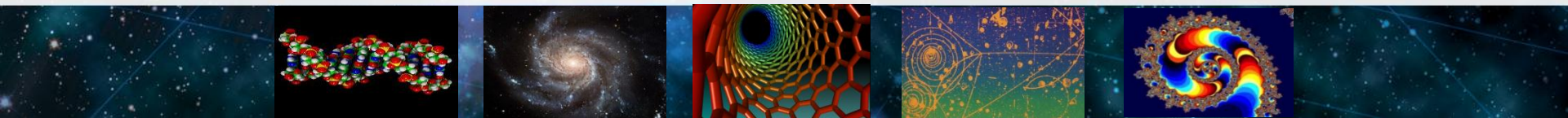
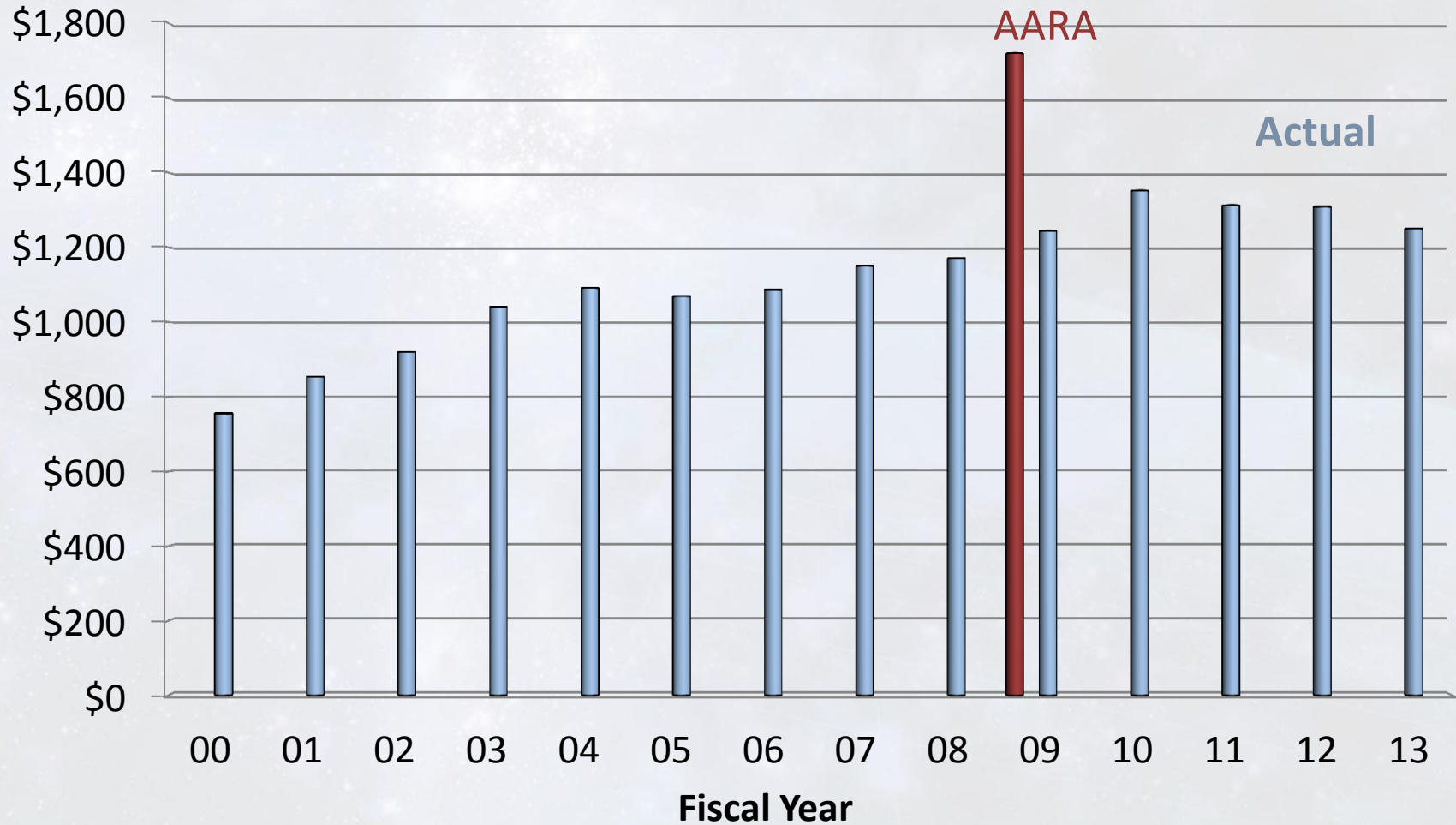
Materials Research (DMR)

- Cornell Higher Energy Synchrotron Source (CHESS)
 - National High Magnetic Field Laboratory (NHMFL)
- National Nanotechnology Infrastructure Network (NNIN)



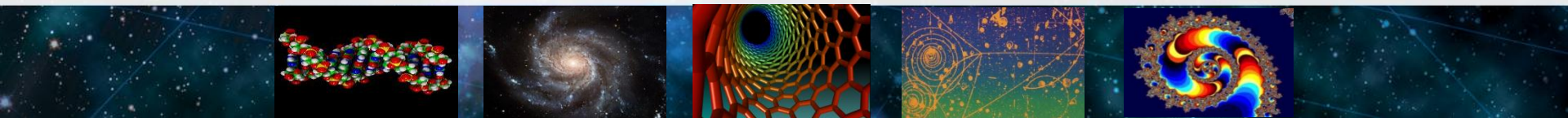
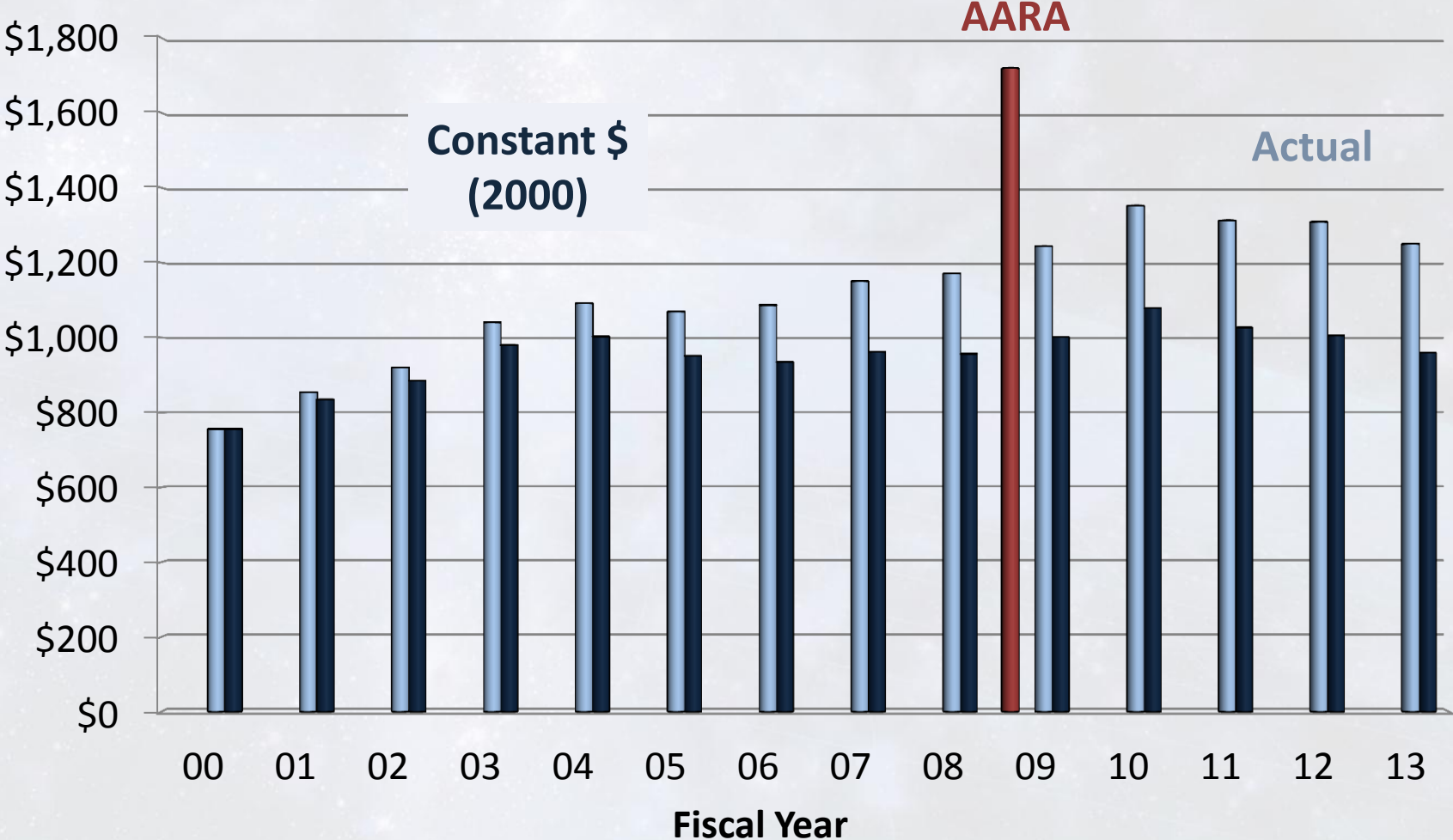
Funding remains “flat” for MPS...

Dollars in Millions

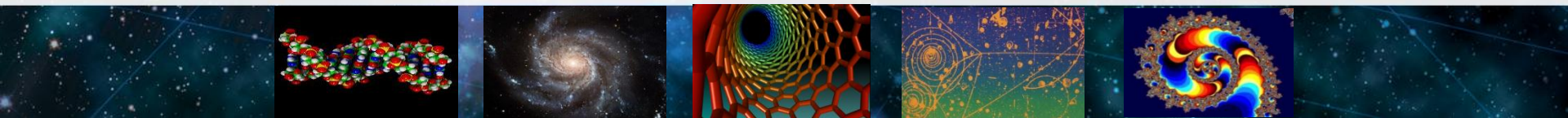
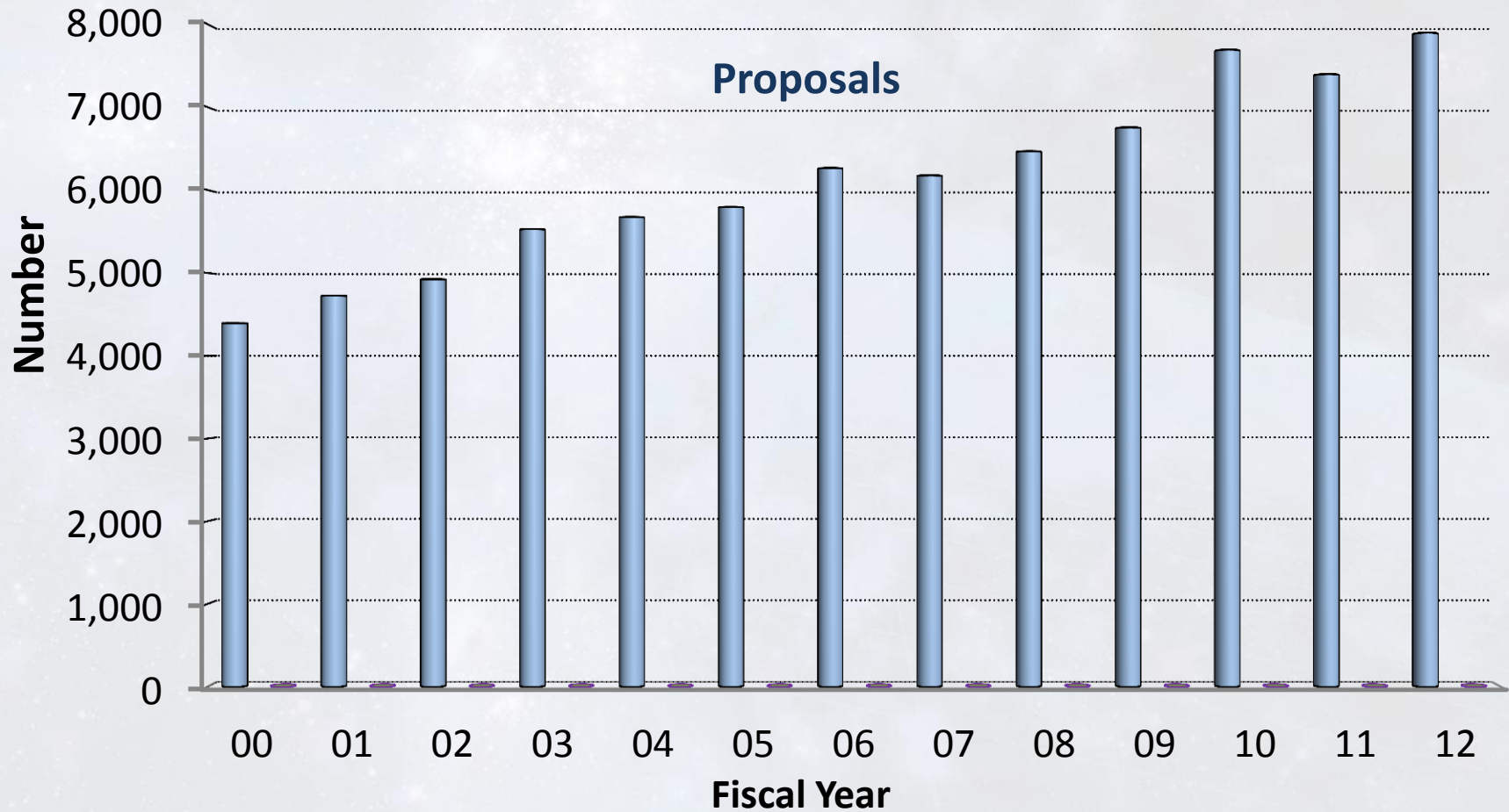


Funding remains “flat” for MPS...

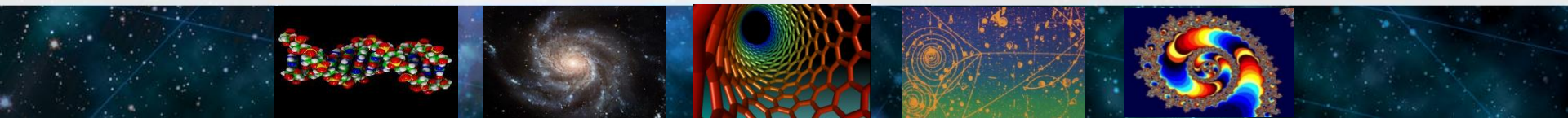
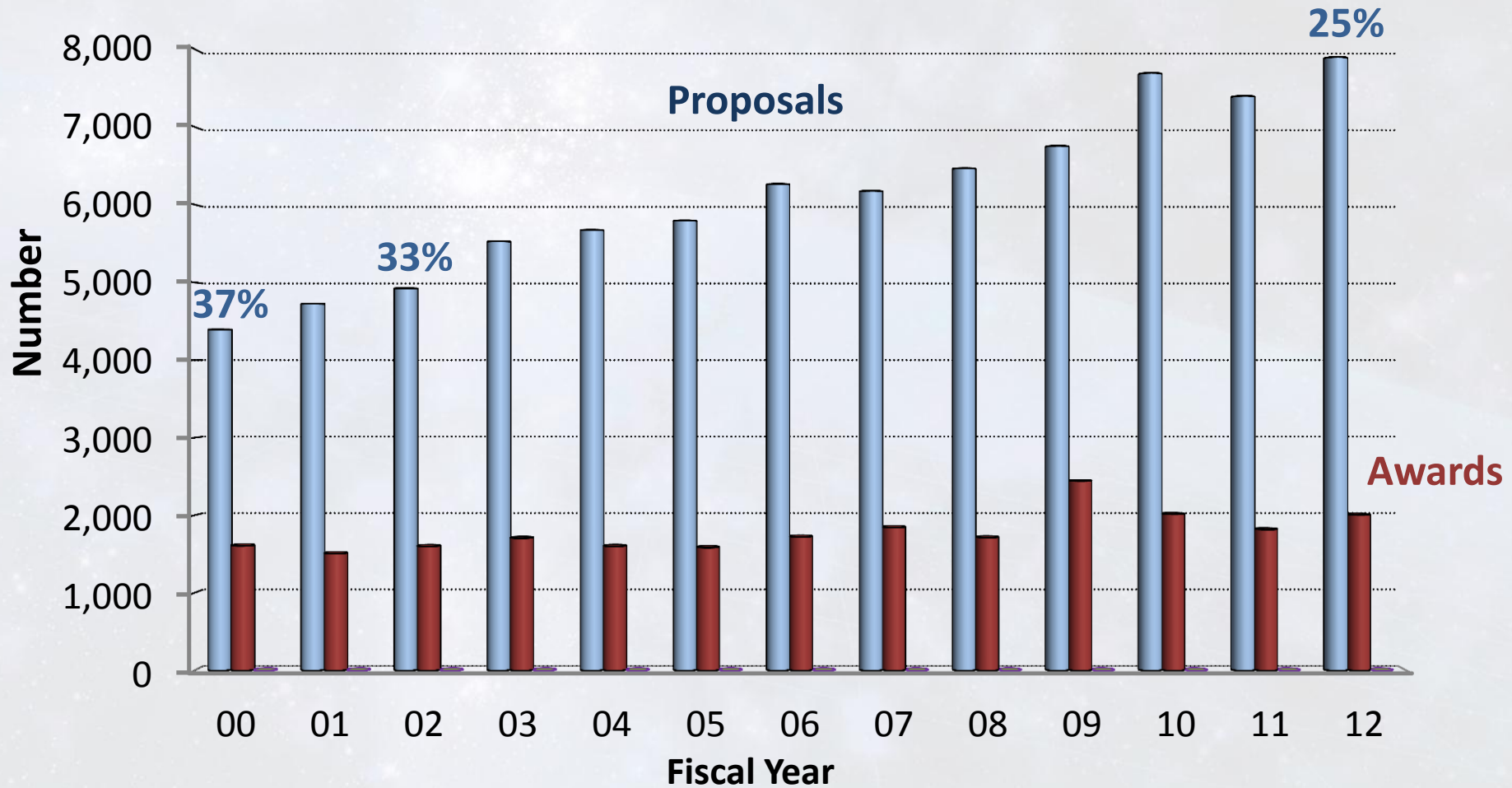
Dollars in Millions



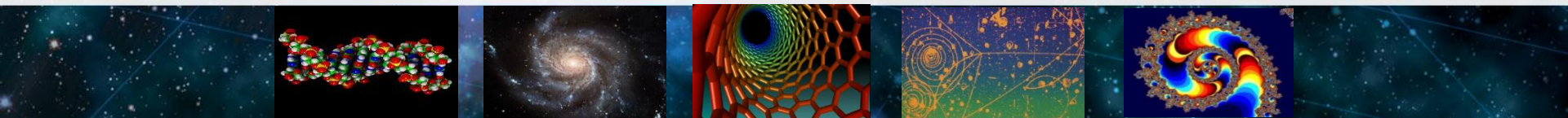
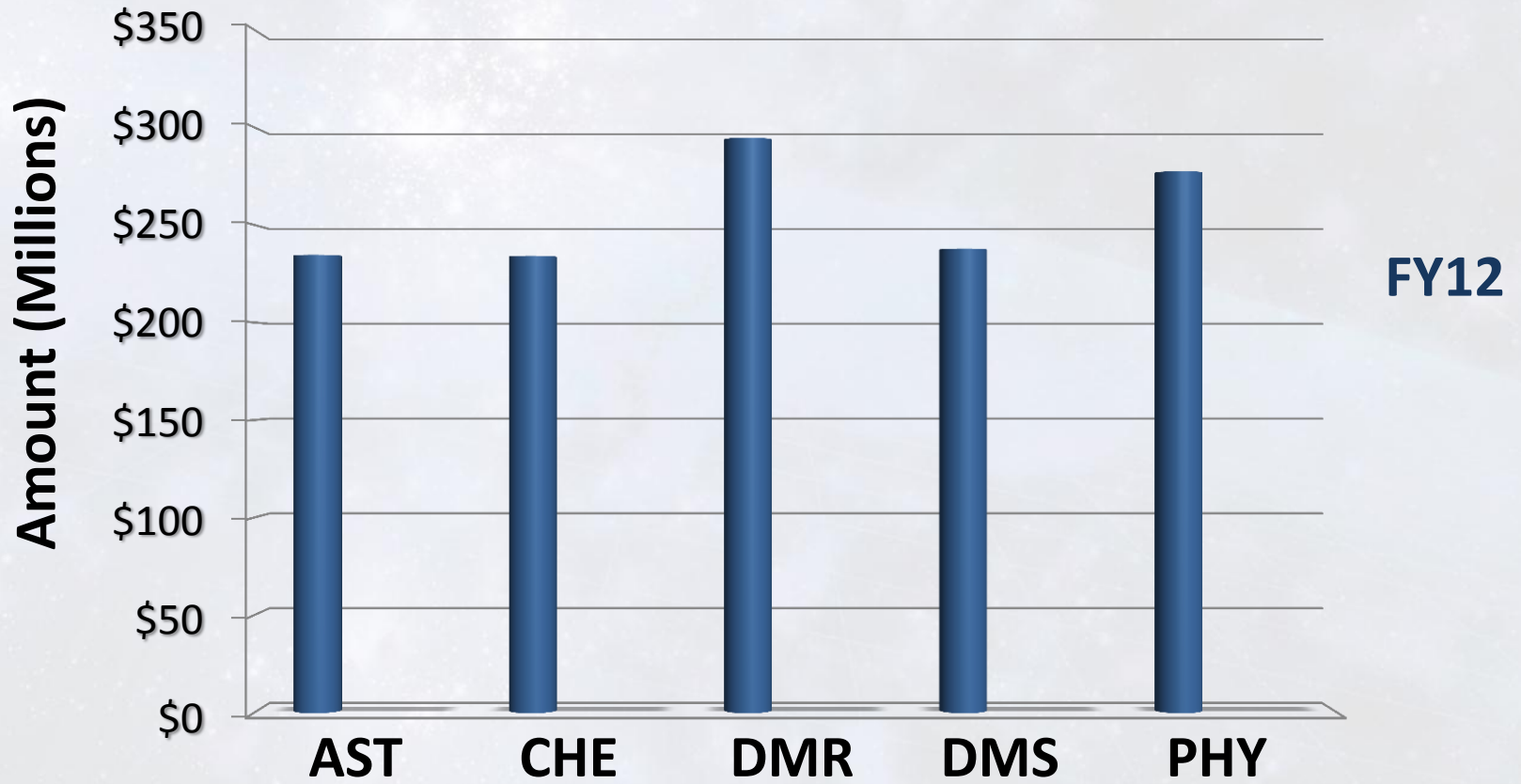
... while the number of proposals rises



... while the number of proposals rises



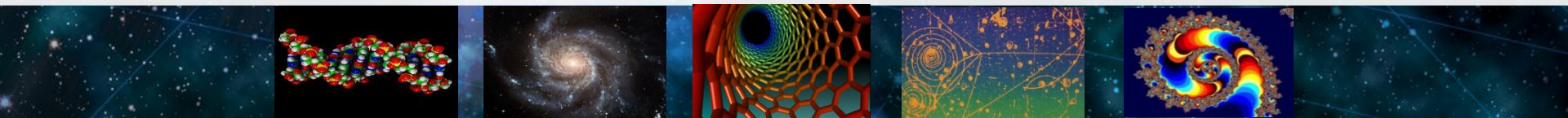
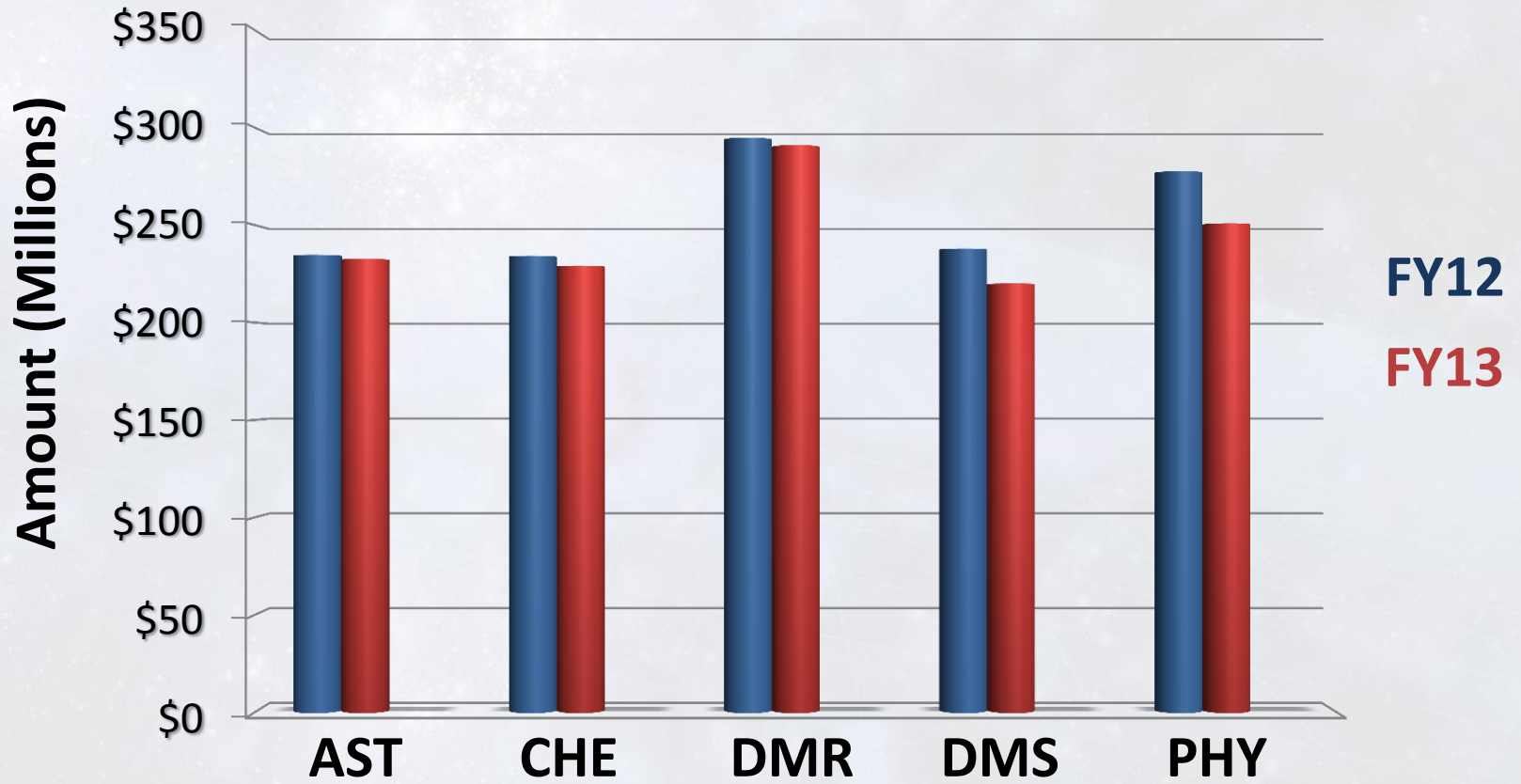
FY 2012
\$ 1309 M



FY 2012
\$ 1309 M

- 4.5%
➔

FY 2013
\$ 1250 M



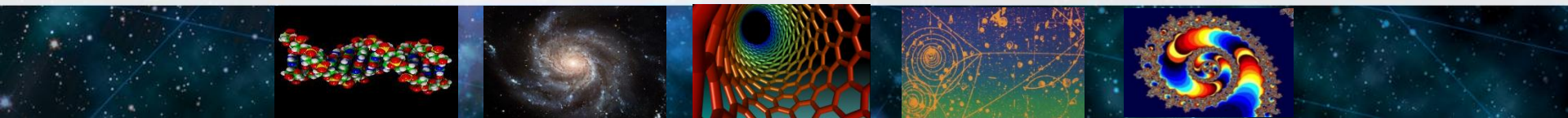
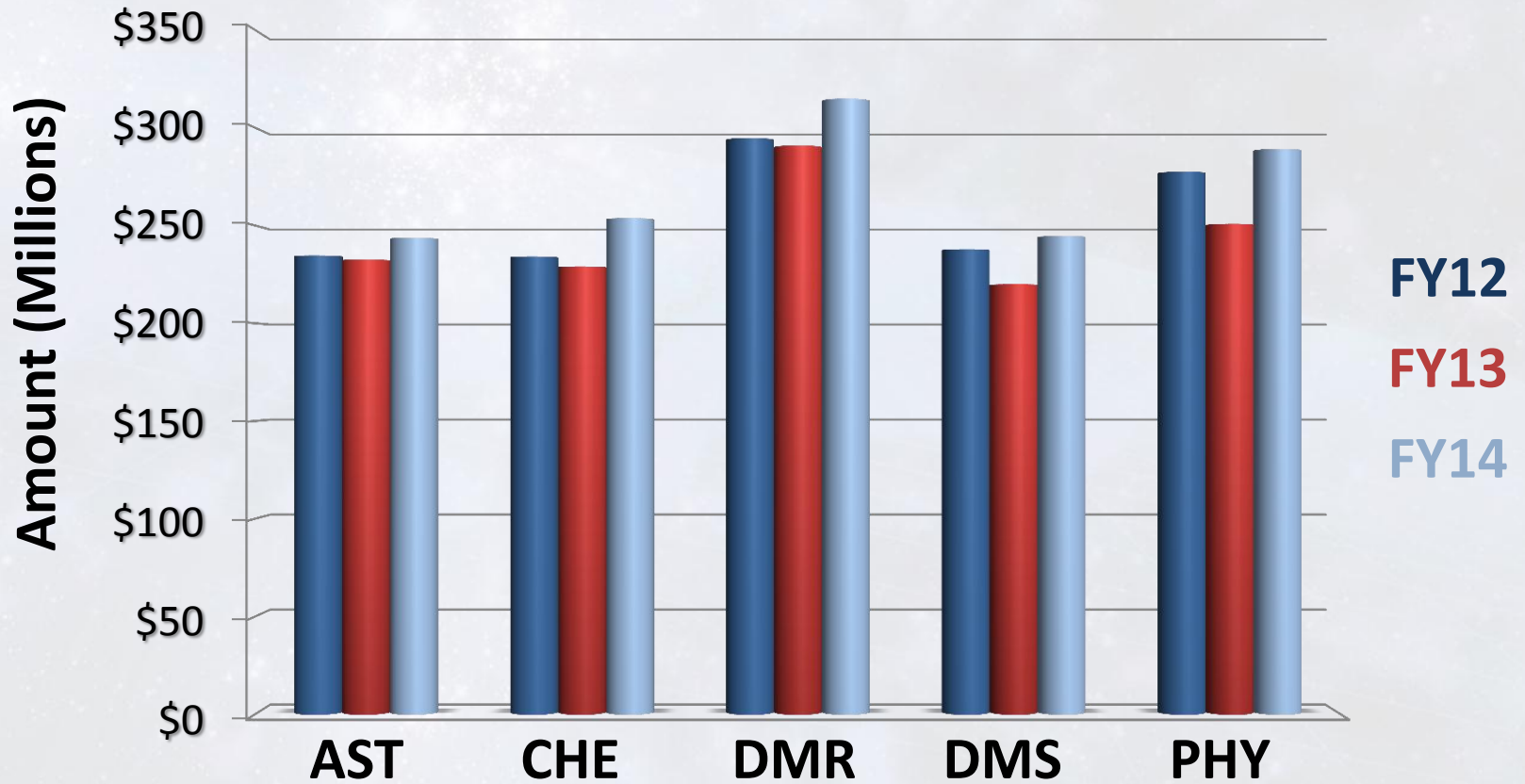
FY 2012
\$ 1309 M

- 4.5%
→

FY 2013
\$ 1250 M

10.9%
→

FY 2014
\$ 1386 M
(Request)



On Our Minds

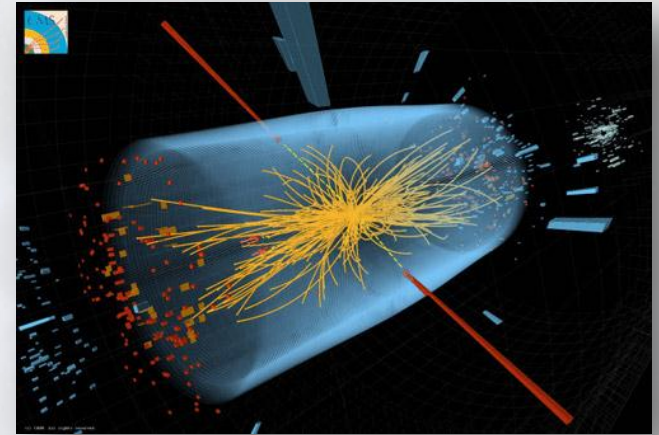
New Budget Realities

- Sequester, CR, Zero-sum game?



Difficult Decisions, Community Priorities

- Snowmass, P⁵
- 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

