

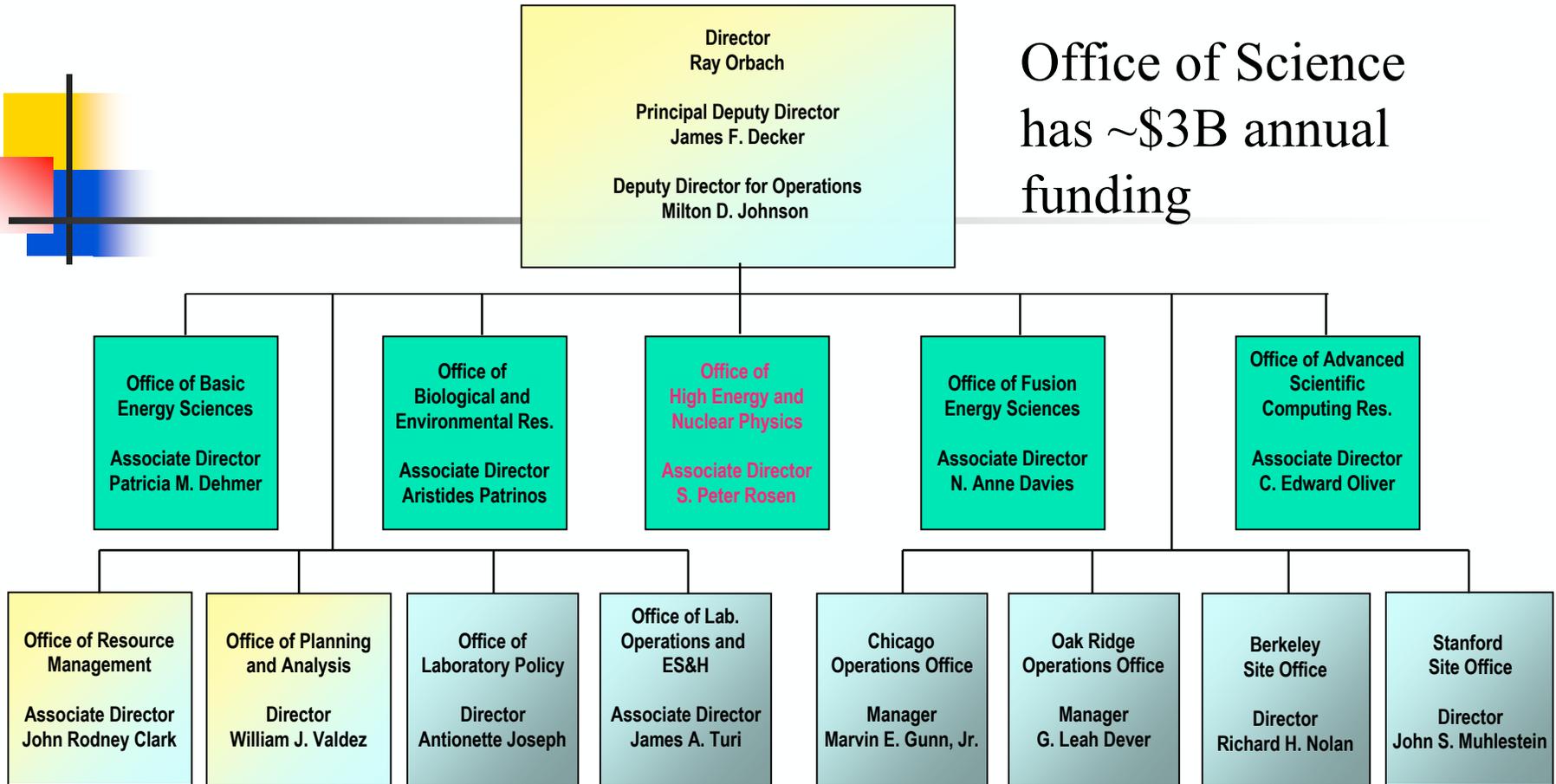
LAT Project Update from the Department of Energy

Dr. Kathleen Turner
Division of High Energy Physics,
Office of Science, DOE

Talk at the LAT Collaboration Meeting at GSFC
October 23, 2002

Office of Science

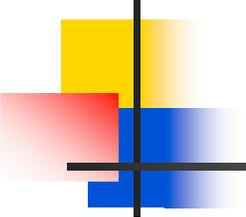
Office of Science
has ~\$3B annual
funding



NOTE: Director of Science equivalent to Assistant Secretary position and filled by Presidential Appointment (Senate confirmed); Principal Deputy Director equivalent to Principal Deputy Assistant Secretary; Associate Directors equivalent to Deputy Assistant Secretaries.

Approved: _____
James F. Decker
Principal Deputy Director
Office of Science

November 2001



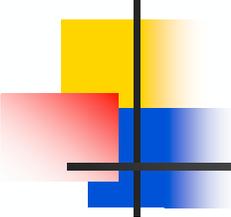
Division of High Energy Physics (HEP) Mission

Our Science:

“science of matter, energy, space and time”

- Physics of the fundamental laws of nature - study fundamental forces and matter in the universe
- Strong overlaps with astrophysics and cosmology

International Program: All our large experiments have foreign contributions & we also participate in many international experiments. We have a history of partnership with NSF and are excited about new NASA partnerships!



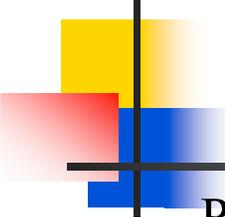
DOE-HEP: International Program

All our large experiments have foreign contributions & partnerships.

We participate in many international experiments (CERN, Germany, Japan, Italy, Russia, China etc.).

We have a history of partnership with NSF.

We are excited about new NASA partnerships!



DOE Project Phases (LAT)

Pre-conceptual Planning Phase (at end of this have:)

Critical Decision 0 to Approve Mission Need (June 2001)

Conceptual Design Phase

CD-1 to Approve Preliminary Baseline (August 2002)

Preliminary Design Phase

CD-2 to Approve Performance Baseline – Nov. 4th!

- Baseline in terms of technical design, cost, schedule.
- Carry enough contingency to keep within baseline.
- A BIG headache to change after this!

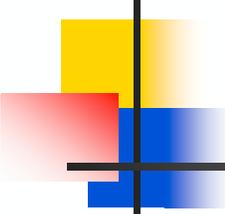
Final Design Phase

CD-3 to Approve Start of Construction

Construction Phase

CD-4 to Approve Start of Operations

Mission Operations Phase



Astrophysics/Cosmology Projects DOE is Involved in or Participates in:

Ongoing

Milagro (w/NSF)

GRANITE/Whipple (w/NSF)

SNO (DOE-NP, w/NSF)

SDSS (Fermilab, w/NSF & Sloan)

SuperK/K2K (w/Japan)

Axion-I (LLNL)

Supernova Cosmology Project (LBNL) - NSF, NASA, foreign telescopes

Nearby Supernova Factory (LBNL) - NSF, foreign telescopes

CMB - MAXIPOL(w/NASA,NSF), Planck Surveyor (w/NASA,ESA), PolarBear(w/NSF)

Under Construction

Pierre Auger (w/NSF)

GLAST/LAT (w/NASA,foreign)

CDMS-II (w/NSF)

AMS (w/NASA,foreign)

Pending Starts

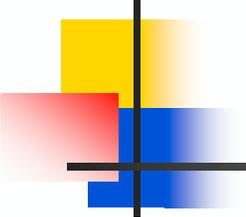
Veritas (w/NSF,foreign)

AXION-II

R&D

EXO (SLAC, Stanford)

SuperNova Acceleration Probe (LBNL)



GLAST/LAT - future

Continue DOE/NASA Partnership at all Levels!

We think it's working great!

Joint Oversight Group (JOG)

Joint Reviews of the LAT project (~ quarterly)

NASA-led: mid-Nov. '02

DOE-led: end of Jan. '03

NASA-led: CDR & CD-3