

NSF EPP Budget



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NSF

HEPAP

Gaithersburg

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EPP Effective Spending

	95	96	97	98	99	00	01
Accelerator-based	40.3	39.9	37.2	36.9	35.7	35.7	39.2
Astrophysics	5.5	5.8	6.1	5.9	6.7	8.2	6.4
Muon Storage Ring R&D						1.2	1.2
"Base"	45.8	45.7	43.3	42.8	42.4	45.1	46.8
LHC computing (Network Solutions)					1.9		
From OMA/ESIE			0.6	0.2	2.2	2.3	2.3
LHC construction (MRE)					22.2	15.9	16.4
LHC R&D		1.2	1.5	1.5	1.5		
LHC ops							?
KDI --> ITR					2.5	11.9	?
MRI			0.9	0.8	1.6	1.0	?
EFFECTIVE M\$	45.8	46.9	46.3	45.3	74.3	76.2	?

04/05/2001

Alphabet Soup



- MRE - Major Research Equipment
 - Large Construction Projects
 - LHC, LIGO, RSVP, IceCube
- MRI - Major Research Instrumentation
 - University Infrastructure
 - D0 STT, ATLAS Optical, VERITAS
- ITR - Information Technology Research
 - GriPhyN

Opportunities for HEP

■ ITR

- GriPhyN - LHC computing - Computational Data Grid for ATLAS, CMS, LIGO, SDSS
- FY00 → FY01: 90M\$ → 215M\$

■ MRI

- BTeV, CDF, D0, ATLAS

■ MRE

- RSVP (MECO & KOPIO), IceCube, LIGO, LHC
- Underground laboratory

Current Status of FY2001 ITR Competition



- Large (> 5M\$ total)
 - 59 pre-proposals
 - 21 full proposals invited
 - NVO - Johns Hopkins
 - GriPhyN - U of Florida
 - Quantum Information Science - MIT
- Medium (0.5M\$ → 5M\$ total)
 - 660 pre-proposals
 - 261 full proposals invited

ITR FY2001 continued



- Includes BTeV readout R&D, NVO pieces, radio astronomy, advanced accelerator R&D, general relativity, cosmology simulations.
- Small (<0.5M\$ total)
 - 1200 proposals received
 - include Tier 2 centers, lattice calculations, data mining facilities.
- Decisions in June 2001.

More Opportunities for HEP



- Physics Frontier Centers
 - New Initiative in FY 2001
 - 50 pre-proposals received
 - 14 proposals invited
 - 5 centers / year for 5 years
 - Decision in June 2001
- Science and Technology Centers
 - Broad, interdisciplinary

Prospects for FY 2002



- Approximately flat funding at the top
- Trickle down effect
- No new initiatives
 - No new MRE's - RSVP, IceCube may have to wait to start construction
 - ITR flat funding \Rightarrow some standard awards & fewer CGI awards \Rightarrow fewer awards in FY 2001.