

LIGO THE VIEW FROM NSF

LSC MEETING

March 12, 1998

David Berley

Funding - FY1997 actual, FY 1998 status
Proposal Review Process

Need for LSC Planning Input
Recommendations of Panel on the Use of LIGO

[Will not discuss FY1999 budget
Presidential Request for Research at NSF +12%!]

LIGO

Funding Summary

| | FY 1997 | FY 1998 |
|--------------|----------|---------------------|
| Construction | \$55.0 M | \$26.2 M |
| Operations* | 0.3 M | 7.3 M |
| R&D* | 5.4 M | 8.4M (com.+req.) |

*subset of budget codes 1252 and 1293

LIGO Related R&D 1997 Actual Funding

- FY 1996 \$4,573K
- FY 1997 6,133K
 - Physics Allocation \$5,384K
 - Other Sources 749K
 - 14 Awards
- Increase 1,560K
 - \$(FY97) - \$(FY96)
- **FY 1998**
 - **Preliminary Allocation 6,100K**

NSF Budget Evolution

| | \$ (Million) | | Change | |
|----------|-------------------|-----------------|--------------------|-----------------------|
| | FY 1997 Actual | FY 1998 Plan | with LIGO ops * | without LIGO ops * |
| NSF | 3,298.8 | 3,452.0 | 4.6% | 4.4% |
| MPS | 693.5 | 715.7 | 3.2% | 2.2% |
| Physics | 138.6 | 148.5 | 7.1% | 2.1%* |
| LIGO R&D | 5.4 | ? | | |

*LIGO operations increasing by \$7M from \$0.3M in FY 1997 to \$7.3M in FY1998

* 5% held in reserve by MPS, NSF

LIGO Related R & D 1998 Funding Status

- Preliminary Allocation \$6,100 K
- Commitments + Requests 8,443 K
 - Commitments \$3,340 K
 - 7 awards
 - Requests 5,103 K
 - 10 proposals
- Difference -2,343 K
 - \$ (allocation) - \$ (pressures)

REVIEW OF PENDING NSF PROPOSALS

- NSF Request to LIGO Project
 - Provide a Scientific and Technical Evaluation
- Process within LIGO
 - Internal Staff Review
 - PAC Review
- NSF Peer Review
 - NSF Criteria
- LSC
 - Need a coherent proposed program*

Panel on the Use of LIGO

June 1996

- Most recommendations being implemented
 - Program Advisory Committee
 - providing advice on R&D proposals
 - Vigorous R&D program growing
 - Collaboration formed
 - Data analysis systems being developed
 - International Coordinating Group formed
 - Gravitational Wave International Committee
 - LIGO Project evolving into a Laboratory and a Collaboration

NSF LIGO Summary

- Construction funding complete in FY 1998
- Operations funding ramping up
- LIGO related R&D
 - Substantial growth in FY 1997
 - Increases in FY 1998 difficult to obtain
 - Little flexibility in Physics Division budgets
- Panel on the Use of LIGO
 - Recommendations largely implemented
- LSC
 - Planning

Note 1, Linda Turner, 04/20/98 03:40:02 PM
LIGO-G980049-06-M