

Office of Science

Nuclear Physics Program

NSAC Meeting

February 19, 2004

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for Nuclear Physics

Office of Science

Outline

- FY 2004 Appropriations
- FY 2005 Budget Request
- Nuclear Physics Office Activities



FY 2004 Appropriations

(millions of dollars)

	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	
Research	121.4	122.8	128.0	(+4.2 %)
RIA R&D/SciDAC	4.8	5.9	8.0	
Facility Operations	200.3	222.4	226.9	(+2.0%)
88-Inch Cyclotron	6.1	7.0	3.0	
Stewardship	26.4	<u>21.4</u>	23.7	
	359.0	379.5	389.6	

Priorities are:

- To enhance support for university/laboratory researchers and theory
- To support needed investments for the future
- To effectively operate user facilities

Nuclear physics facilities are still operating below full utilization (at ~80%)

- RHIC, CEBAF, ATLAS, HRIBF & Bates ~ +2 %
- LBNL 88-Inch Cyclotron terminated as user facility (USAF/NRO/NP operations)
- Operations of the MIT/Bates Facility scheduled for termination in FY 2005

Research support is increased

- Theory and Experimental groups maintained ~ +3 %
- Important initiatives pursued: GRETINA/Neutron Beam Line (SNS)
- R&D for RIA, 12 GeV CEBAF upgrade & RHIC luminosity upgrade supported



FY 2004: Key Activities

• Research Programs Producing Outstanding Results:

- △ Quark Matter Conference Highlighted RHIC results
- Evidence of a "pentaquark" has solidified observed at JLab

Facilities Performed Well:

- A RHIC performance has been outstanding in the FY 2004 run period
- △ CEBAF has recovered from the hurricane and is running well
- ▲ ATLAS, HRIBF and MIT/Bates running well
- ▲ 88-Inch Cyclotron identified as critical for USAF/NRO chip testing

• Initiatives Supported:

- ▲ MiniBooNE, HIGS, LANSCE neutron experiments, LEGS upgrade
- ▲ SNO and KamLAND continue to take data
- ^ New starts: GRETINA, Neutron Beam Line (SNS), HRIBF (2nd target platform)



FY 2005 Budget Request

(millions of dollars)

			Request	
	FY03	FY04	<u>FY05</u>	
Research	122.8	128.0	131.6	(+ 2.8 %)
RIA R&D/SciDAC	5.9	8.0	6.0	
Facility Operations	209.2	214.4	229.0	(+ 6.8 %)
MIT/Bates	13.2	12.5	9.5	
88-Inch Cyclotron	7.0	3.0	3.0	
Stewardship	21.4	23.7	21.9	
	379.5	389.6	401.0	(+ 2.9 %)

Priorities are:

- To effectively operate user facilities
- To enhance support for university/laboratory researchers and theory
- To support needed investments for the future

Nuclear physics facilities are approaching full utilization (at ~85%)

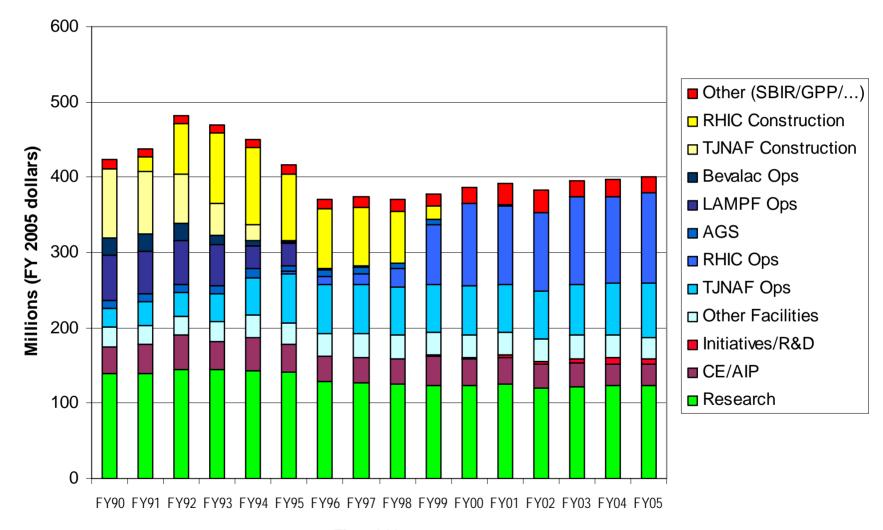
- RHIC, CEBAF, ATLAS & HRIBF ~ +6.8 %
- LBNL 88-Inch Cyclotron continues operations for USAF, NRO and NP
- MIT/Bates Facility runs for 3 months & then operations are terminated

Research support is increased

- Theory and Experimental groups maintained ~ +3 %
- Important initiatives pursued: GRETINA/Neutron Beam Line (SNS)
- R&D for RIA, 12 GeV CEBAF upgrade & RHIC luminosity upgrade supported



DOE Nuclear Physics Funding



Fiscal Year

Office of Science

Nuclear Physics Office Activities

Proposal Due Dates:

- RIA R&D proposals: decisions have been made
- Outstanding Junior Investigators (OJI): decisions: April
- SBIR/STTR proposals: decisions: April

Preparing for FY 2006 Budget Exercise (pre-CRB, CRB, OMB & President)

Laboratory Management Budget Briefings: next two weeks

Office of Science (SC) sets priorities for future facilities

- SC 20-year Facilities Plan announced by DOE Secretary on November 10th
- RIA Mission Need (CD-0) signed anticipate 12 GeV Upgrade CD-0 will be signed

Reviews and NSAC Charges

- NSAC NP Committee of Visitors : visited December 2003: Report due end of February
- Laboratory Research Reviews: Heavy Ion Subprogram: January 2004
- NSAC Charge: Comparison GSI and RIA: Report due end of February
- New Charge: Review of the DOE Heavy Ion program: Report due end of August

Office of Science Reorganization: Office of Nuclear Physics

- Acting Division Directors named: Eugene Henry and Jehanne Simon-Gillo
- New positions will be advertised Detailee/IPA positions to be filled



Office of Nuclear Physics

