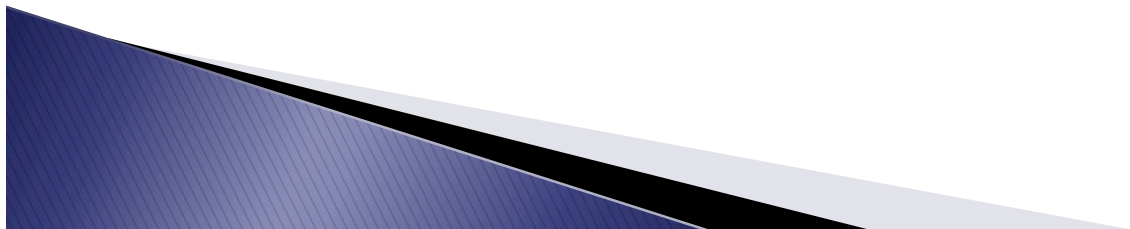




# News from NSF

Gail Dodge

- ▶ Budget
- ▶ Physics Division Personnel
- ▶ Physics Solicitation



# Budget Trends – NSF Nuclear Physics



FY	Hadrons & Light Nuclei (k\$)	Structure & Heavy Ions (k\$)	Fund. Sym. (k\$)	Nucl. Astro. (k\$)	Theory (k\$)	Program Total (k\$)	NSCL (k\$)	Total Nuclear Physics (k\$)
2009	7,663	4,734	5,572	N/A	1,149	19,118	20,500	39,618
2010	6,421	6,863	5,532	1,078	3,855	23,749	21,000	44,749
2011	5,349	6,485	5,336	1,994	3,719	22,883	21,500	44,383
2012	7,657	3,375	5,855	1,610	3,829	22,326	21,500	43,826
2013	5,218	4,259	5,304	1,654	3,474	19,908	21,500	41,408
2014	5,275	4,215	5,250	2,275	3,798	20,813	22,500	43,313

There was an additional \$11,811K from ARRA in 2009.

**JINA** (Joint Institute for Nuclear Astrophysics) \$2,150 k/year

**MRI:** \$2,360 K in FY12 (normally less than \$1 M)  
 \$3,021 K in FY13  
 2 awards in FY14



## NSF People

- ▶ **France Cordova** – Director (sworn in April 2, 2014)
  - ▶ **Fleming Crim** – Associate Director for MPS
  - ▶ **Denise Caldwell** – Physics Division Director
  - ▶ **Brad Keister** – Deputy Division Director
  - ▶ **Bogdan Mihaila** – nuclear theory program officer  
(now permanent)
  - ▶ **Jim Whitmore** – particle astrophysics program officer
  - ▶ **Jean Cottam** – particle astrophysics program officer
  - ▶ **Gail Dodge** – nuclear experiment program officer  
(will return to ODU in August)
  - ▶ **Alice Mignerey** – nuclear experiment program officer  
(part time)
- 
- ▶ **Ken Hicks** – new IPA, starting in August
  - ▶ **Search underway** for permanent program director in  
experimental nuclear physics





## **New – NSF Physics Division: Investigator-Initiated Research Projects (14-576)**

In the fall, proposals to the NSF Physics Division must respond to Solicitation 14-576. Proposals may no longer be submitted to the Dear Colleague Letter (NSF 12-068). Some key points:

- Initiated **deadlines instead of target dates**
- Separate deadlines for different Physics programs
  - October 29, 2014 for experimental nuclear physics
  - October 29, 2014 for particle astrophysics
  - October 29, 2014 for theoretical nuclear physics
  - December 4 computational Physics
  - February 4, 2015 for accelerator science
- Does not override existing solicitations such as CAREER, REU sites, etc.
- New requirements for some PIs
- Large instrumentation requests may require additional review



## **New – NSF Physics Division: Investigator-Initiated Research Projects (14-576)**

### **PI Effort and Sources of Support**

For PIs who anticipate having **other concurrent sources of support (including but not limited to grants from other agencies or private foundations, and laboratory appointments)**, proposals should clearly explain how the proposed work is distinct from other funded activities. The proposal should **also articulate the nature of commitments (such as deliverables, specific projects) associated with other sources of support.** These commitments may be presented in the Project Description or in the Current/Pending Support section...The proposal review process will include an assessment of the proposers' ability to carry out the proposed research in light of these commitments.



## **New – NSF Physics Division: Investigator-Initiated Research Projects (14-576)**

For proposals involving development or construction of complex instrumentation (typically at or above the million dollar level), reviewers will be asked to assess the applicant's ability to successfully deliver the instrumentation within the proposed budget. Applicants are strongly encouraged to **articulate all foreseeable costs in the budget of such projects, including adequate plans for risk mitigation. Prior to final selection, these projects may be evaluated via a cost, schedule, and management review.** Project management documentation should be uploaded as a supplementary document, if applicable. Investigators are strongly encouraged to contact the appropriate program officer to determine the level of detail that will likely be needed.

## **New – NSF Physics Division: Investigator-Initiated Research Projects (14-576)**



For proposals from investigators whose **list of collaborators** does not fit into the Biographical Sketches section, the proposal should include as a supplementary document a list that provides the names of the collaborative groups, and lists of all collaboration members with whom the PI works directly.



# Backup Slides





## NSF FY15 Request Summary

	FY 12 (M\$)	FY 13 (M\$)	FY 14 (M\$)	FY15 Request (M\$)	Change (from FY14)
NSF Total	7,105.41	6,901.91	7,171.92	7,255.00	+1.2%
R&RA	5,758.30	5,558.88	5,808.92	5,807.46	0.0%
MPS	1,308.70	1,249.34	1,299.80	1,295.56	-0.3%

R&RA: Research and Related Activities (includes directorates)

MPS: Mathematical and Physical Sciences

FY14 Operating Plan has now been approved by Congress.

# NSF MPS FY15 Request



## MPS Funding

(Dollars in Millions)

	FY 2013 Actual	FY 2014 Estimate	FY 2015 Request	Change Over FY 2014 Estimate	
				Amount	Percent
Astronomical Sciences (AST)	\$232.17	\$239.06	\$236.24	-\$2.82	-1.2%
Chemistry (CHE)	229.39	235.79	237.23	1.44	0.6%
Materials Research (DMR)	291.09	298.01	298.99	0.98	0.3%
Mathematical Sciences (DMS)	219.02	225.64	224.40	-1.24	-0.5%
Physics (PHY)	250.45	266.30	263.70	-2.60	-1.0%
Office of Multidisciplinary Activities (OMA)	27.22	35.00	35.00	-	-
<b>Total, MPS</b>	<b>\$1,249.34</b>	<b>\$1,299.80</b>	<b>\$1,295.56</b>	<b>-\$4.24</b>	<b>-0.3%</b>

Totals may not add due to rounding.

FY14 Operating Plan has now been approved by Congress.

# NSF PHY FY15 Request



## PHY Funding (Dollars in Millions)

	FY 2013 Actual	FY 2014 Estimate	FY 2015 Request	Change Over	
				FY 2014 Estimate Amount	Percent
<b>Total, PHY</b>	<b>\$250.45</b>	<b>\$266.30</b>	<b>\$263.70</b>	<b>-\$2.60</b>	<b>-1.0%</b>
<b>Research</b>	<b>164.72</b>	<b>165.99</b>	<b>159.35</b>	<b>-6.64</b>	<b>-4.0%</b>
CAREER	7.68	7.34	7.34	-	-
Centers Funding (total)	1.16	0.02	0.02	-	-
Nanoscale Science & Engineering	1.16	0.02	0.02	-	-
<b>Education</b>	<b>5.31</b>	<b>6.98</b>	<b>5.97</b>	<b>-1.01</b>	<b>-14.5%</b>
<b>Infrastructure</b>	<b>80.42</b>	<b>93.33</b>	<b>98.38</b>	<b>5.05</b>	<b>5.4%</b>
IceCube	3.45	3.45	3.45	-	-
Large Hadron Collider (LHC)	18.00	17.37	18.00	0.63	3.6%
Laser Interferometer Grav. Wave Obs.	30.50	36.43	39.43	3.00	8.2%
Nat'l Superconducting Cyclotron Lab.	21.50	22.50	22.50	-	-
Research Resources	6.97	13.58	15.00	1.42	10.5%

Totals may not add due to rounding.

# Trends in NSF PHY Research



	FY 12 (M\$)	FY 13 (M\$)	FY 14 (M\$)	FY 15 request (M\$)
Research	192.73	164.72	165.99	159.35
Research Resources	5.75	6.97	13.58	15.00
<b>Total</b>	<b>198.48</b>	<b>171.69</b>	<b>179.35</b>	<b>174.35</b>
NSCL	21.5	21.5	22.5	22.5

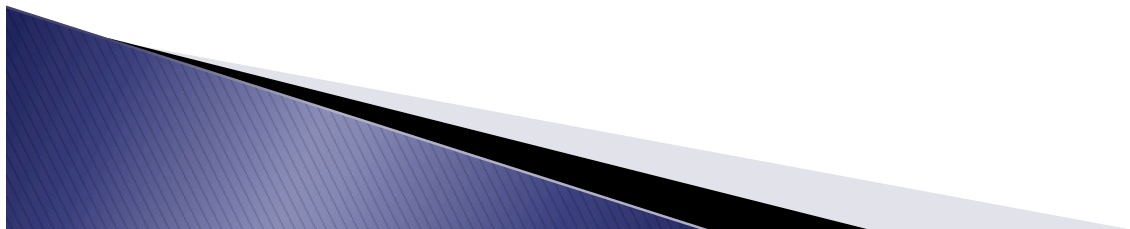
Research Resources includes mid-scale and accelerator science, which is new this year (FY14).

The Physics Division is committed to midscale and would like to see it grow, even in a flat budget climate.

# Accelerator Science



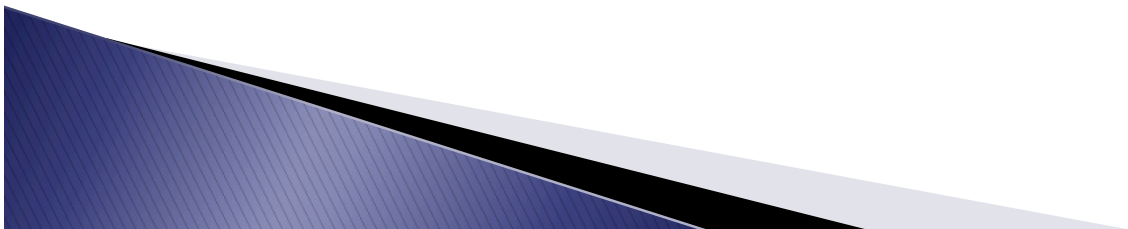
- ▶ The Physics Division is accepting proposals to a new program in accelerator science. Proposals have been received for consideration in FY14. There has been a very robust response to this new program.
- ▶ Next deadline is February 4, 2015
- ▶ Intended to fund accelerator **science**, not R&D for specific projects. Collaboration with a national lab (e.g. prototyping) is fine.
- ▶ Apply to Physics Division Solicitation 14-576





# Mid-Scale Instrumentation

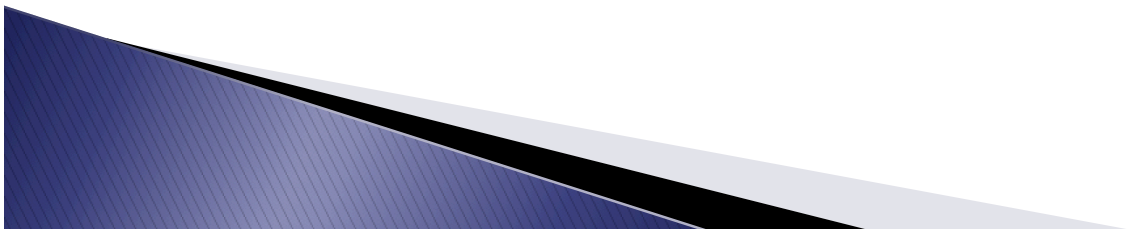
- The Physics Division has established a mid-scale instrumentation fund. The intention is to fund projects above \$4 million (the MRI limit).
- This funding is NOT available for “operations” so program funds will have to be used to run the experiment.
- **Contact us for more information.** You cannot apply to mid-scale directly; all proposals must go through the program.
- A priority of the division (and the directorate) is to increase the resources available for mid-scale.



# NSF Research Traineeship Program (NRT) (replaced IGERT)



- ▶ Designed to encourage the development of bold, new, potentially transformative, and scalable models for STEM graduate training that ensure that graduate students develop the skills, knowledge, and competencies needed to pursue a range of STEM careers.
- ▶ Priority research theme – data enabled science & engineering
- ▶ Proposals are encouraged on any other crosscutting, interdisciplinary theme
- ▶ Letter of Intent due May 20, 2014 (optional)
- ▶ Full proposal due June 24, 2014



# Academic Research Initiative (ARI)



- ▶ Funded by Domestic Nuclear Detection Office
- ▶ This is no longer handled by NSF. DNDO is accepting proposals directly for this program.
- ▶ FY14 solicitation (now closed)

DHS-14-DN-077-ARI-001

