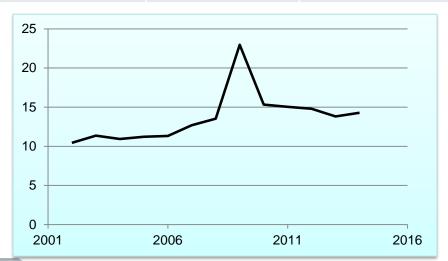


Budget news

Progression of NSF budget in the last three fiscal years (FY) and FY16 request (in millions):

	FY13 Actual	FY14 Actual (∆ from last FY)	FY15 Estimate (∆ from last FY)	FY16 Request (∆ from last FY)
NSF	\$6,902	\$7,131 (3.3%)	\$7,344 (3.0%)	\$7,724 (5.2%)
MPS Directorate	\$1,249	\$1,268 (1.5%)	\$1,337 (5.4%)	\$1,366 (2.2%)
PHY Division	\$250	\$267 (6.8%)	\$275 (3.0%)	\$277 (0.7%)
Gravity programs	\$13.8	\$14.3 (3.6%)	about the same	

Gravity programs (in millions)





Division of Physics: Investigator-Initiated Research Project

(NSF 14-576 soon to be NSF 15-XXX)

- Starting in 2014, all proposals submitted to the Division of Physics programs (LIGO Research Support, Theor. Grav. Physics, Exp. Grav. Physics, etc.) have to go through this solicitation!
- This includes:
 - Conference proposals.
- This does not include:
 - CAREER, MRI, INSPIRE, RUI, etc. and any other proposal that pertains to an NSF-wide solicitation.
 - Supplements and EAGER. You can use NSF 15-1 GPG
- It has Deadlines (instead of Target Date).
 - All three Grav. Physics programs: Oct 28, 2015
- See Auxiliary slides for more information



Other programs' deadlines

- INSPIRE: New revised solicitation
 - Only Track 1: \$1M max / Duration up to 5 years
 - Support of two or more Prog. Directors from different disciplines
 - No LOI needed / No Deadlines (similar to EAGERs)
- SI2: SSE (elements-small), SSI (interdisc.-larger), S2I2(institutes- largest):
 - Part of CIF-21: Div. of Advanced Cyberinsfrastructure (ACI) solicitation
 - Deadlines: Many!
- MRI
 - New revised solicitation in 2014
 - Major change: In Acquisition proposals the 70% cost requested from NSF can only be used for equipment: personnel costs (if any) have to come from the cost-sharing 30%.
 - Deadline: January 13, 2016
- CAREER
 - Deadline: July 23, 2015



DFG-NSF Lead Agency Agreement

New DFG-NSF opportunity for collaborations between US and German groups in Gravitational Physics (experimental, computational & theoretical projects)

- This works in a way similar to the NSF "Collaborative Research" proposals: single proposal core with two sets of budgets, CVs, etc.
- Researchers decided which is the "lead" agency (NSF or DFG)
- The Lead Agency conducts the review process with participation of officers from the non-lead agency (i.e., single review simplifies adminstrative workload)
- It incentivates international collaborations for small groups
- If interested, contact me (<u>pmarrone@nsf.gov</u>) and read <u>NSF solicitation 15-033</u>



Ideas Lab – "Measuring Big G"

The Newtonian constant of gravitation, G, is the fundamental constant of physics known with the least precision (CODATA relative uncertainty = $1.2 \, 10^{-4}$). Measurements made in the past decade and a half show a spread of values larger than their individual estimated errors, creating a discrepancy at a level of $10 \, \sigma$.

Ideas Lab

- Special NSF mechanism to promote new ideas and projects
- Interested PIs send a two-page application to participate in the workshop: No expertise in measuring G required!
- Invited applicants spend a week with Mentors at NIST: The proposed novel ideas get refined, clarified, evolved, etc.
- The top selected projects are invited to submit design concept proposals to the Exp. Gravity program for funding.
- Announcement expected in late Spring. Workshop tentatively planned for early Dec. 2015.



Reducing the PI's administrative workload

- National Science Board report "Reducing Investigators` Administrative Workload for Federally Funded Research"
 - Among the findings: on average 42% of the PI's time is spent on administrative tasks. This has not changed since the last survey in 2005.
- Do you have any ideas on what Physics Division can do?
 - Email me (<u>pmarrone@nsf.gov</u>)
- Example: Proposal preparation template
 - It provides a quick rundown of what is needed in each proposal section
 - Highlights the most common mistakes
 - Informs of changes in the GPG in the past three years



Committee of Visitors 2015

- In February 2015, members of the Physics community convened at NSF to review the activities of Physics Division in the past 3 years.
- Ten subpanels were assembled to review each program management and portfolio (including Gravitational Physics).
- The report is open to the public and can be found (soon) in the NSF Physics Div. homepage.
- Physics Division is currently redacting a response to the CoV questions and this will be made public in a few weeks.



Writing proposals: Mentoring program

- New Mentoring Program: The goal is to make the expertise of senior researchers on proposal writing to young investigators
- How does it work?
 - The Mentee requests a Mentor (email me at <u>pmarrone@nsf.gov</u>).
 - I will send you a list of Mentor Volunteers. You can contact anyone you like without identifying them to NSF.
 - Mentor will read you proposal and provide feedback once. Send the proposal timely! Mentors are busy people.
 - NSF accepts no responsibility on the interaction/outcome of the program!



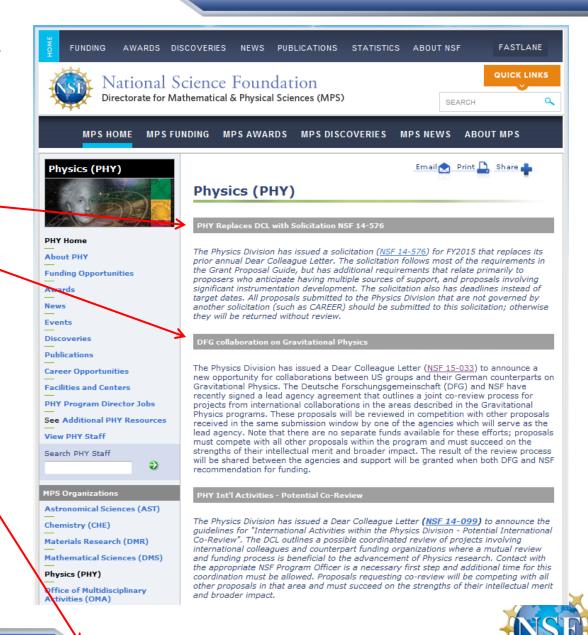
For the latest news: http://www.nsf.gov/div/index.jsp?div=PHY

NSF 14-576

DFG-NSF Agreement

2015 CoV Report

Email any questions to pmarrone@nsf.gov or call (703)292-7372



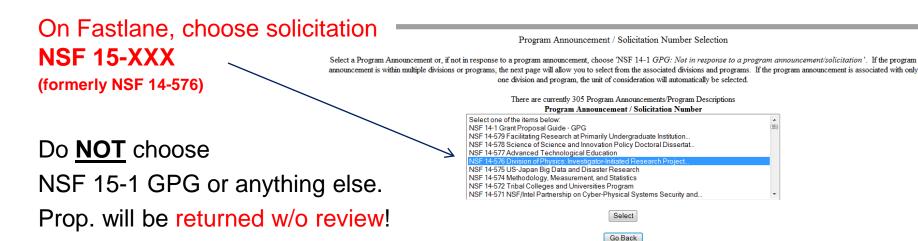
Auxiliary slides

Solicitation NSF 15-XXX

"Division of Physics: Investigator-Initiated Research Projects"

As of today, the new version of this solicitation has not been released. This will happen sometime during the Summer 2015. Check it out for an update on the specific requirements.

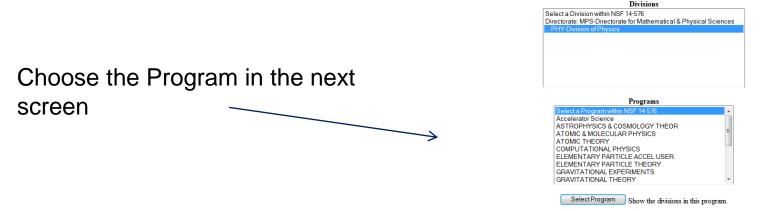




Unit Selection Lists

Select the organizational unit you wish to consider your proposal from either the Division selection box (if you want to review the NSF Divisions and associated Programs) or the Program selection box (if you know the Program you wish to select).

Note: Some program announcements will be associated with multiple Divisions and Programs. In these cases, a logical step-by-step selection process is provided.





What are the exceptions?

RUI proposals

Use the RUI solicitation instead but follow the new Deadlines for each Physics program

CAREER, MRI, INSPIRE, SI2, etc.

NSF-wide solicitations or solicitations from other Divisions (AST, ACI, etc.) are unaffected.

- Supplement proposals and EAGER are unaffected (i.e., you can use NSF 15-1 GPG)
- Conference proposals are not excepted! They also have to be submitted through NSF 15-XXX and, thus, before Oct 28, 2015.



What is different?

- The solicitation has Deadlines instead of Target Dates
 - Gravitational Physics: Oct. 28, 2015 (and last Wedn. in Oct. thereafter)
 - PIF Computational Physics: Dec. 3, 2015 (and first Thursday in Dec. thereafter)
- Pls are strongly encouraged to submit single proposals for possible co-review instead of multiple similar proposals to different programs.



Additional Criteria I

- Pls who have or anticipate additional concurrent sources of support should clearly explain the differences between this proposal and the other awards (including ALL grants regardless of the agency of origin)
 - Where? Project Description or Current & Pending (you may need to upload a separate file in this case)
 - "The proposal review process will include an assessment of the proposers' ability to carry out the proposed research in light of these commitments"
 - Pls with similar proposals for different agencies will be expected to withdraw all other applications should one of them be funded



Additional Criteria II

- For proposals involving development or construction of complex instrumentation (typically above \$1M), the following aspects will be assessed by during the review:
 - Ability of the proposers to deliver within the proposed budget
 - Cost, schedule and risk mitigation management (project management documentation should be uploaded as a Supplementary Document)
 - Contact the corresponding NSF Program Officer for details



Additional Criteria III

- List of collaborators that do not fit in the Bio sketches (such as those of large collaborations) should be included as Supplementary Document
 - For those who belong to the LSC, identify those members with whom the PIs and Co-PIs work closely (i.e., publish non-full-LSC-authorship papers, etc.).
 - The full list of LSC is not required for proposals submitted to LIGO Research Support. However, do include any other affiliation (i.e., ANTARES, Ice Cube, etc.)

