


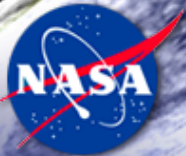


Physics of the Cosmos (PhysPAG)



Gamma-ray Science Interest Group (GammaSIG)

APS Meeting April 2018





Gamma-ray Science Interest Group (GammaSIG)

Agenda

- **GammaSIG Organization**
- **“GAMERA: a Gamma Ray Telescope for the Gravitational Wave Astrophysics Era” 25+5’**
Matthew Kerr, Naval Research Laboratory
- **White Papers: in Preparation for the Decal Survey (Introduction + Open Discussion)**



Gamma-ray Science Interest Group (GammaSIG)

GammaSIG Organization

“The goal of GammaSIG is to provide quantitative metrics and assessments to NASA in regard to current and future needs of hard X-ray and gamma-ray astrophysics community. Specifically, the GammaSIG will:

- Act as a focal point and forum for the gamma ray community.
- In 2015 produce a community roadmap, in part to support planning for the next decadal survey. The roadmap will summarize the science goals for the next-generation of gamma-ray telescopes and include a range of possible mission concepts for addressing those goals.
- Maintain a list of technology needs, derived in part from the roadmap, for future hard X-ray and gamma-ray missions.
- Produce suggestions to help support the specific needs of this unique community: organizational, scientific, funding.”

(<https://pcos.gsfc.nasa.gov/sigs/gammasig.php>)



Gamma-ray Science Interest Group (GammaSIG)

Group coordinators and membership

- Sylvain Guiriec (The George Washington University)
sguiriec@gwu.edu (Chair)
- Henric Krawczynski (Washington University)
krawcz@wustl.edu
- John Tomsick (University of California, Berkeley)
jtomsick@berkeley.edu
- ...and 128 people on the GammaSIG mailing list



Gamma-ray Science Interest Group (GammaSIG)

GammaSIG Meetings and Telecons

- 2017/08/23 (16th HEAD):
 - **COSI** (Steve Boggs)
 - **TAP** (Judith Racusin)
 - **AMEGO** (Julie McEney)
 - **High-Energy Polarimetry session** (organized by GammaSIG coordinators)
- 2017/11/16 (telecon):
 - **GRB 170817A** (Leo Singer and Colleen Wilson-Hodge)
- 2017/12/14 (telecon):
 - **HAWC/Fermi synergies** (Petra Huentemeyer and Giacomo Vianello)
- 2018/01/08 (231st AAS meeting):
 - **e-ASTROGAM** (Dave Thompson)
 - **AMEGO** (Julie McEney)
- 2018/01/25 (telecon):
 - **Optical/IR coverage of prompt GRB emission** (Bruce Grossan)
 - **BurstCube** (Jeremy Perkins)
- 2018/03/21 (Head Meeting: In the 2020's and Beyond):
 - **Preparation for the decadal Survey**



Gamma-ray Science Interest Group (GammaSIG)

GammaSIG Meetings and Telecons

**If you want to suggest contributions to the GammaSIG
telecon and regular meetings:**

**[https://docs.google.com/forms/d/e/1FAIpQLSc0puKD3ratF
GEcrNaPQ0_r6WjAipwUjsOdYILHgRYWniUrhA/viewform](https://docs.google.com/forms/d/e/1FAIpQLSc0puKD3ratFGEcrNaPQ0_r6WjAipwUjsOdYILHgRYWniUrhA/viewform)**



Gamma-ray Science Interest Group (GammaSIG)

GammaSIG Organization

Please register to the GammaSIG mailing list at

<https://pcos.gsfc.nasa.gov/sigs/gammasig/gammasig-maillist.php>



Gamma-ray Science Interest Group (GammaSIG)

Decadal White Papers

- Timeframe not official, but:
 - **Expect call for White Papers (WPs) during summer 2018**
 - **Expect deadline by end of 2018**
 - **Usually ~5 pages unless invited (Flagship, Probes)**
- **GammaSIG is keeping a list of planned WPs:**
 - **To facilitate teaming**
 - **To generate discussion to make sure that our most important topics are being covered**

<https://docs.google.com/spreadsheets/d/1gUMjvYrGvRgxo-HxGOzlytc5JOgq2c4XL33-GLfRC5E/edit?usp=sharing>



Gamma-ray Science Interest Group (GammaSIG)

Decadal White Papers

- **About 25 WPs have been announced to GammaSIG.**
- **Most WPs are open to external/additional contribution.**
- **Everybody can update the google doc pages: new entries for WPs, status of the WP, task distribution, ...**
- **Chris Fryer is planning a workshop in Los Alamos National Laboratory to prepare a WP on radionuclides.**



Gamma-ray Science Interest Group (GammaSIG)

Ideas to Open discussion

- Is it better to have a large number of WPs or to consolidate where science cases overlap?
- What are our goals in writing WPs? a ranked probe mission? Have a particular science goal or a particular category of mission (suborbital, Explorer, etc...) emphasized in the Decadal Survey Report?
- The gamma-ray community does not have a flagship mission. If we fail during this Decadal Survey, it will have dramatic long term consequences for the whole community.
- Should we organize a few day workshop dedicated to the preparation of the Decadal Survey?