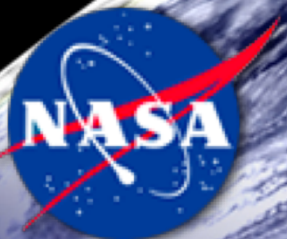


Physics of the Cosmos (PhysPAG)

Gamma-ray Science Interest Group
(GammaSIG)



17th HEAD Meeting



Gamma-ray Science Interest Group (GammaSIG)

Agenda

- **GammaSIG Update**
Sylvain Guiriec, George Washington University
- **“In QED We Trust”**
Roger Blandford, KIPAC/Stanford
- **“Theory of the Gamma-Ray Burst Phenomenon and the Importance of Gamma-Ray Astronomy”**
Peter Mészáros, Pennsylvania State University
- **“Gamma-Ray Probes of Stellar Collapse”**
Chris Fryer, Los Alamos National Laboratory
- **“Glowbug, a Gamma-Ray Telescope for Bursts and Other Transients”**
Eric Grove, Naval Research Laboratory



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.
- Maintain a list of technology needs 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

- **John Tomsick (University of California, Berkeley) – Co-chair**
jtomsick@ssl.berkeley.edu
- **Sylvain Guiriec (The George Washington University) – Chair**
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Gamma-ray Science Interest Group (GammaSIG)

GammaSIG Activities

- **2018-2019: Preparation/Coordination for the 2020 Decadal Review**
 - Regular group and sub-group telecons. ~15-20 participants
 - 2 workshops (George Washington University in May 2018 and Clemson University in October 2018). ~20 participants

The community produced more than 25 White Papers showcasing
➔ all the exciting sciences that can be done with gamma-rays. 74 WPs mention γ -rays (more than any other wavelength).
- **2019-2020: Back to our more regular activities**
 - Telecons (mixing science, instruments and new technologies).
 - Special sessions at AAS, APS and HEAD meetings
 - Topical Workshops (requested after the success of the Decadal review workshop)



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