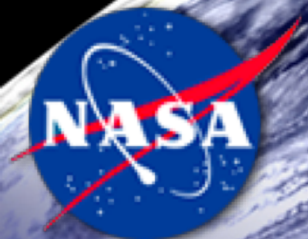




Physics of the Cosmos (PhysPAG)

Gamma-ray Science Interest Group (GammaSIG)



223th AAS Meeting



Gamma-ray Science Interest Group (GammaSIG)

Agenda

- **GammaSIG**
- **“Supermassive black holes at High Redshift”**
Marco Ajello, Clemson University
- **“Catching Element Formation in the Act”**
Francis Timmes, Arizona State University
- **“A Summary of Multimessenger Science with Neutron Star Mergers”**
Eric Burns, NPP
- **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

- **John Tomsick (University of California, Berkeley)**
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- **Sylvain Guiriec (The George Washington University)**
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Gamma-ray Science Interest Group (GammaSIG)

1. Supermassive BHs at High Redshift

<https://www.overleaf.com/1922718764krxzgjmhbhtgf>

Leaders: Vaidehi Paliya, Marco Ajello

2. Catching Element Formation in the Act

<https://v1.overleaf.com/read/xwcpjztfcdfq#/70324788/>

Leaders: Chris Fryer, Frank Timmes, Aimee Hungerford, and Aaron Couture

3. Constraining Dark Matter with Gamma-ray Measurements

https://docs.google.com/document/d/1tnjzpLyKYVXHpETnsSY_3qtfZ_4g5iU-mcrHyrkk3ec/edit

Leaders: Tim Linden, Matt Buckley, Regina Caputo, John Tomsick

4. Jets and Particle Acceleration

<https://www.overleaf.com/3465832813qhnxsbrwykj>

Leaders: Toni Venters, Terri Brandt, Sylvain Guiriec

5. Gamma-ray Science in the 2020s

<https://www.overleaf.com/4575393486nftkjqqsqygc>

Leaders: Sylvain Guiriec, John Tomsick, Dieter Hartmann, Terri Brandt, Eric Burns, Colleen Wilson-Hodge



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