Physics of the Cosmos (PhysPAG)
Gamma-ray Science Interest Group (GammaSIG)

223rd 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
“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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1. Supermassive BHs at High Redshift
https://www.overleaf.com/1922718764krxzgjm8htqf
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/3465832813qhnxsbrwrykj
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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