

FIG SAG

Future Innovations in Gamma rays Science Analysis Group

Astrophysical gamma rays span ten orders of magnitude in energy and capture key physics from a broad range of astrophysical phenomena. This SAG will explore gamma-ray science priorities, necessary capabilities, new technologies, and theory/modeling needs drawing on the 2020 Decadal to inspire work toward 2040.

To get involved and stay informed, please enter your contact information here:

<https://forms.gle/VBijBgapMRwJm9dU6>



Lead Chairs:

Chris Fryer & Michelle Hui

Co-chairs: Paolo Coppi, Milena Crnogorčević, Tiffany Lewis,
Marcos Santander, and Zorawar Wadiasingh

FIG SAG Terms of Reference

Future Innovations in Gamma rays

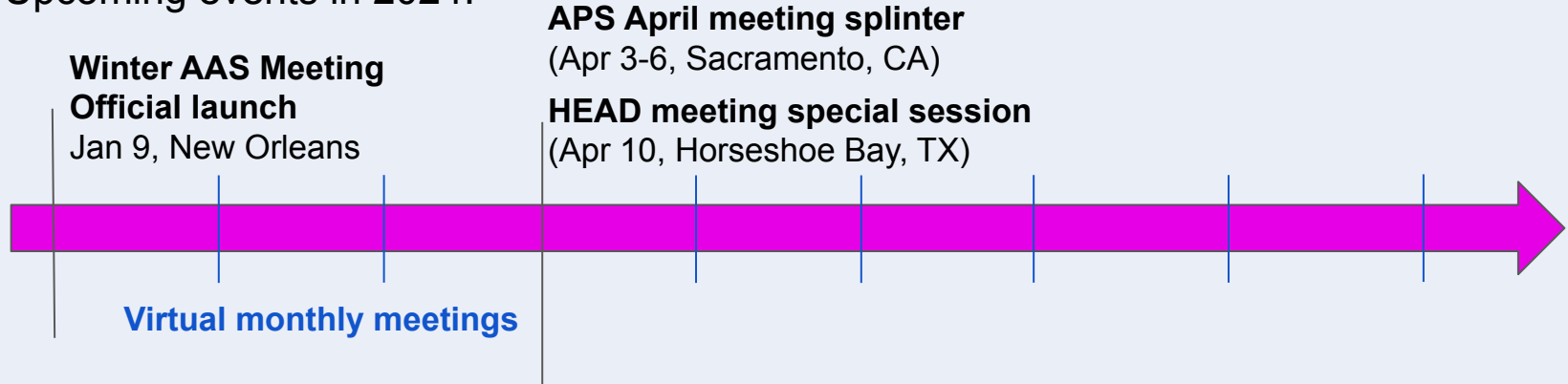
1. **Gamma-ray Science Priorities:** Identify opportunities uniquely afforded by gamma-ray observations.
2. **Gamma-ray Mission Capabilities:** Which science objectives are only done or best done by space-based gamma-ray missions, considering the current missions in extended operation and funded missions in development.
3. **Technology Investment:** What new technologies/methodologies exist and what is needed to achieve the science priorities.
4. **Theory and Analysis Needs:** What advances do we need to make in theory and analysis to achieve the science priorities.
5. **Synergies with Other Programs:** How do these goals tie to the broader astrophysics and physics community. What are the timelines to align with current priorities in multi-messenger astronomy.

FIG SAG Timeline

Future Innovations in Gamma rays

Presented to the Astrophysics Advisory Committee (APAC) on Oct 19 for the SAG formation approval.

Upcoming events in 2024:



Inputs wanted from gamma-ray, high-energy, and multimessenger communities.

Please fill out the [contact form](#) for future announcements and discussion forum.

Watch this space: <https://pcos.gsfc.nasa.gov/sags/figsag.php>