

# SIG Activities

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## PCOS General

PCOS mini-symposium at the APS, Salt Lake City, April 2016

PCOS town hall at the AAS HEAD meeting, Naples FL, April 2016

## Inflation Probe SIG

*General interest:*

US MO participation in Japanese LITEBIRD submitted step 2 proposal

SPHEREx SMEX mission concept submitted step 2 proposal (inflation & large-scale structure) *Ongoing activities:*

Inflation SIG special session at the APS, Salt Lake City, April 2016

*Upcoming activities:*

Upcoming CORE++ proposal for ESA M5 proposal opportunity

## Gravitational Wave SIG

*General interest:*

LISA Pathfinder first results announced June 2016

ESA/NASA L3 study ongoing

*Ongoing activities:*

GW SIG special session at the APS, Salt Lake City, April 2016

*Upcoming activities:*

LISA Symposium, Zurich, September 2016

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## X-Ray SIG

### *General interest:*

ESA/NASA Athena study ongoing

Two X-Ray polarimetry SMEX mission concepts (IXPE and PRAXys) submitted step2 proposals

Hitomi: see next talk

### *Ongoing activities:*

SIG meeting at AAS/HEAD, Naples, April 2016

### *Upcoming activities:*

X-Ray Surveyor face-to-face meeting 25-26 July 2016 (CfA)

## Gamma-Ray SIG

### *Ongoing activities:*

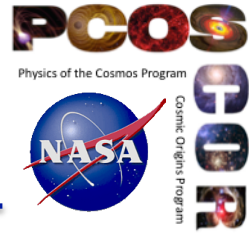
Develop gamma-ray astronomy roadmap for input to the 2020 decadal survey focusing on probe-class and explorer-class concepts, and including sub-orbital developments

SIG meeting at AAS/HEAD, Naples, April 2016; instrument concepts

### *Upcoming activities:*

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## Cosmic-Ray SIG

*General interest:*

ISS-CREAM completed testing at GSFC and delivered to KSC

Cosmic-Ray SIG special session at the APS, Salt Lake City, April 2016

*Upcoming activities:*

## Cosmic Structure SIG

*General interest:*

Supporting large-structure science in flagship studies

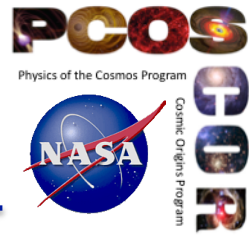
SPHEREx SMEX mission concept submitted step 2 proposal (inflation & large-scale structure)

# PCOS Gap Technologies

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- **Received 32 Gap Technologies from Community**
  - Includes 22 items carried over from 2015 list
  - 4 new for X-Rays
  - 3 new for general relativity and gravitational waves
  - 1 new for cosmic microwave background
  - 2 new joint for CMB + X-Rays (coolers and detectors)
- **List was Reviewed by the PhysPAG**
  - Many of the new items overlap with new and existing items
  - Non-uniform treatment of mission applications and need dates in new submissions
  - Implemented a standard template for ‘time to anticipated need’
  - Carried out in consultation with the SIGs and topical experts
- **Revised List Sent to Thai Pham for Prioritization**
  - Of the 10 new additions:
    - 7 were merged into existing items and then removed
    - 2 new items added for X-Rays: fast readout electronics, wide-field focusing instruments
    - 1 new item added for GWs: micro thrusters
  - Of the 22 existing items: 7 were significantly updated

# PhysPAG EC membership



Name	Institution	Topical Area	Term End
J. Bock, Chair	Caltech/JPL	CMB	December 2016
M. Bautz, Vice Chair	MIT	X-rays	December 2016
R. Bean	Cornell University	Dark Energy	December 2016
R. Kraft	SAO	X-rays	December 2018
J. Conklin	University of Florida	Gravitational Waves	December 2017
N. Cornish	Montana State	Gravitational Waves	December 2016
O. Doré	JPL	Dark Energy	December 2017
H. Krawczynski	Washington University in St. Louis	Gamma-rays	December 2017
M. McConnell	University of New Hampshire	Gamma-rays	December 2016
A. Miller	Columbia University	CMB	December 2017
I. Moskalenko	Stanford	Astroparticles	December 2018
Eun-Suk Seo	University of Maryland	Astroparticles	December 2016
E. Wollack	NASA/GSFC	CMB	December 2017

New members added in 2016

Membership slots opening up end of 2016