

# High-Energy Astrophysics: An Advanced School for Asian Astronomers

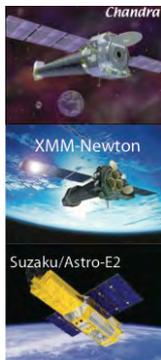
## A COSPAR Capacity Building Workshop



Sept. 2<sup>nd</sup> - 13<sup>rd</sup>, 2013, Xuyi, Jiangsu, China



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### Workshop Objectives

- Introduce scientists to high energy astrophysics and multi-wavelength opportunities
- Develop knowledge of the XMM-Newton, Chandra, and Suzaku data archives
- Train scientists in the techniques required to access and analyse data from X-ray archives
- Introduce scientists to X-ray instrumentation applicable to operating future X-ray missions
- Train scientists in the use of X-ray analysis software
- Provide a general overview of possibilities provided by future space-based missions

### Topics of the Workshop

- Basic theoretical concepts of High Energy Astrophysics
- Statistics: basic concepts and applications
- High Energy Satellites: past, present and future
- Software for high-energy data analysis: installation, usage, and basic scripting
- High energy data analysis
  - Accessing archival databases for spectral, timing & imaging data
  - Reduction and analysis of spectroscopic, timing & imaging data
  - Simultaneous analysis of data from multiple detectors & wavebands
- Basics of writing a scientific paper and an observational proposal

### Lectures

- Keith Arnaud, CRESST, NASA, USA
- Tomaso Belloni, INAF-OAB, Italy
- Carlos Gabriel, ESA, Spain
- Matteo Guainazzi, ESA, Spain
- Mariano Mendez, KAI, The Netherlands
- Michael Nowak, MIT, USA
- Randall Smith, SAO/CfA, USA
- Yukikatsu Terada, Saitama Univ., Japan
- Peter Willmore, Univ. of Birmingham, UK
- Yongquan Xue, USTC, China

### Target Participants

PhD students, postdocs and young faculty member from developing countries in the Asian region, who are either in X-ray fields or with emphasis on multi-wavelength opportunities, are welcome to apply for the workshop. The total number of attendants, however, will be limited to 30.

### LOC Members

Li Ji, PMO, CAS, (Chair)  
Yizhong Fan, PMO, CAS  
Siming Liu, PMO, CAS  
Haibing Zhao, PMO, CAS  
Bing Jiang, Nanjing University  
Jingying Wang, Shanghai Jiaotong Univ.

Shijun Lei, PMO, CAS  
Xin Zhou, PMO, CAS  
Shuinai Zhang, PMO, CAS  
Yueyue Li, PMO, CAS  
Hongling Chen, PMO, CAS  
Yi Song, PMO, CAS  
Benyun Hong, PMO, CAS

### SOC Members

Mariano Mendez, KAI, The Netherlands  
- COSPAR (Chair)  
Carlos Gabriel, ESAC, ESA, Spain  
- COSPAR (Co-Chair & Coordinator)  
Álvaro Giménez, ESA, Spain  
Kwong Sang Cheng, Hongkong University  
Tiepei Li, Tsinghua University  
Shuangnan Zhang, High Energy Institution, CAS  
Weiming Yuan, NAO, CAS  
Qingzhong Liu, PMO, CAS  
Qiusheng Gu, Nanjing University  
Xiangdong Li, Nanjing University  
Yang Chen, Nanjing University  
Haiguang Xu, Shanghai Jiaotong University  
Jin Chang, PMO, CAS  
Daming, Wei, PMO, CAS  
Weiqun, Gan, PMO, CAS  
Ian Corbett, IAU, France  
Neil Gehrels, Goddard Space Flight Center, USA  
Hans Haubold, UN/OOSA  
Robert Missotten, UNESCO, Paris, France  
Randall Smith, SAO/CfA  
Takaya Ohashi Tokyo Metropolitan University, Japan  
Peter Willmore, University of Birmingham, UK-COSPAR

Deadline for registration: **June 20th, 2013**

Deadline for financial support request: **June 10th, 2013**

For more information, please visit:

<http://cospar2013xos.csp.escience.cn>

