

国台学术报告 NAOC COLLOQUIUM

2013 年 第 25 次 / Number 25, 2013

TIME: Wednesday, 2:30 PM, May 22, 2013 **LOCATION: A601 NAOC**

Future of Facility-Class Missions

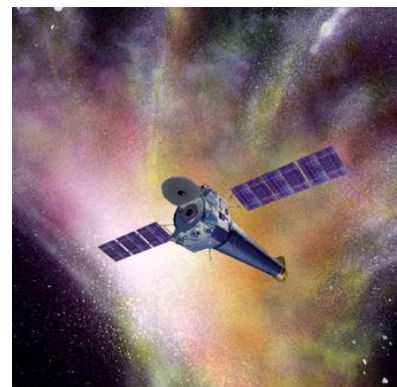
Prof. Joel N. Bregman (University of Michigan)



Joel Bregman is the H.D. Curtis Professor and Chair of Astronomy at the University of Michigan, and the chair of the high energy astrophysics division of the American Astronomical Society. Joel also serves in an advisory capacity for NASA, and served as the NASA chair for the IXO science definition team. His research has mainly focused on high energy astrophysics and on the gaseous component of the Universe. His work has included both observational and theoretical studies but he has also works on the development of future X-ray missions.

Abstract

Observations by soft X-ray telescopes have led to great insight into nearly every branch of astrophysics. At present, the major flagship telescopes, Chandra and XMM-Newton continue to work well after 13 years, with other missions making important contributions. Several major scientific issues lie beyond the capabilities of these facilities and the importance of these science issues will be discussed. These science goals have motivated the design of more capable X-ray telescopes that feature lightweight optics with much larger collecting areas, along with higher spectral resolution detectors, such as quantum micro-calorimeters. Designs for such telescopes are taking place internationally, with complementary efforts being led by NASA in the US and ESA in Europe. The progress in the design and the technology will be discussed.



All are welcome! Tea, coffee, biscuits will be served at 2:15 P.M.

You are welcome to nominate speakers to Weimin Yuan (wmy@nao.cas.cn), Mei Zhang (zhangmei@bao.ac.cn), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn), Shude Mao (smao@nao.cas.cn)