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NuSTAR: Bring Galactic Center into Focus



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Shuo Zhang is a Faculty Fellow at Department of Physics of Columbia University, USA and a member of NuSTAR Science team. Shuo received the Bachelor degree from Tsinghua University in 2010, M.A. degree from Columbia University in 2012 and is now a Ph.D. candidate. She joined Columbia NuSTAR group in 2011 and has been involved in NuSTAR ground calibration, making observation strategy and is among the first to analyze real data. Her main research interest is using NuSTAR data to study X-ray emission of point sources and diffuse background from Galactic Center and the Supermassive Blackhole Sagittarius A* (SgrA*). Shuo will also lead the observation of G2 cloud infall to SgrA* in 2013.

Abstract

The Nuclear Spectroscopic Telescope Array (NuSTAR) was launched on June 13 2012. It carries the first focusing hard X-ray optics into outer space. With the unprecedented sensitivity and angular resolution in 3-79 keV, NuSTAR is opening a new window in high energy astrophysics. A number of key science goals drive the two years baseline mission, among which is a deep survey of the Galactic Center, including one centered on the supermassive black hole-SgrA*. I will introduce the focusing X-ray optics, ground calibration and up-to-date status of NuSTAR. Science goals, observation strategy and analysis of real data of the Galactic Plane Survey will be discussed in details as well.



All are welcome! Tea, coffee, biscuits will be served at 9:45 A.M.

You are welcome to nominate speakers to Shude Mao (shude.mao@gmail.com), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn).