Title: Introduction to Insight-HXMT: China's first X-ray Astronomy Satellite

Speaker: Shuang-Nan Zhang, Shu Zhang, Fangjun Lu, et al.

Affiliation: Particle astrophysics Division, Institute of High Energy Physics, Chinese Academy of

Sciences

## Abstract:

Insight-HXMT is China's first X-ray Astronomy Satellite, which was proposed and developed under the leadership of Professor Tipei Li, and successfully launched on June 15th, 2017. It carries three sets of collimated X-ray instruments, covering energy ranges of 1-15 keV, 5-30 keV, and 20-250 keV, respectively. In addition, it can serve as a nearly all-sky monitor for high energy sources between 0.2 to 3 MeV, such as bright pulsars and gamma-ray bursts. The performance verification (PV) and calibration program has finished in November 2017 and the regular science observation program has been on going. In this talk, I will describe the instrumentation of Insight-HXMT, its in-orbit performance and some early results, including the Galactic plane scanning survey, black holes, pulsars, gamma-ray bursts, etc.