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Time: Wednesday 2:30 PM, Dec.2nd   Location: A601, NAOC

# Einstein Probe: exploring the dynamic X-ray universe
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Dr. Weimin Yuan is lead of High-energy Astrophysics Group at Space Science Division, National Astronomical Observatories (NAOC), CAS. His research involves X-ray astronomy, mainly in observational study of black hole accretion systems and high energy transients in the universe, as well as building instruments to observe them. He obtained his PhD from Technical University of Munich and Max-Planck Institute for extraterrestrial Physics. he worked at JAXA's Tsukuba Space Center for the MAXI mission, and later at University of Cambridge. He became a research scientist at Yunnan Observatory from 2004 and NAOC from 2010. He is Principal Investigator of CAS's Einstein Probe mission, which is planned for launch at end 2022.

Abstract

Time-domain astrophysics has come of a golden era of multi-wavelength and multi-messenger observations, enabled by growing facilities with wide-field monitoring capability. The X-ray sky is dynamic and rich in high-energy transients, some of which remain mysterious in nature while more await discovery. Aimed for launch by end 2022, the Einstein Probe (EP) is a space X-ray astronomy mission designed to perform sensitive monitoring of the sky in the previously poorly explored soft X-ray band at high cadence. It is expected to discover X-ray transients in large numbers, Galactic and extragalactic, including rare and precious types, and to monitor variability of known sources. This talk will present the science driver, the technology employed and the science capability and prospects of EP in the field of time-domain astronomy. EP is a CAS-led mission with international participation from ESA and MPE.
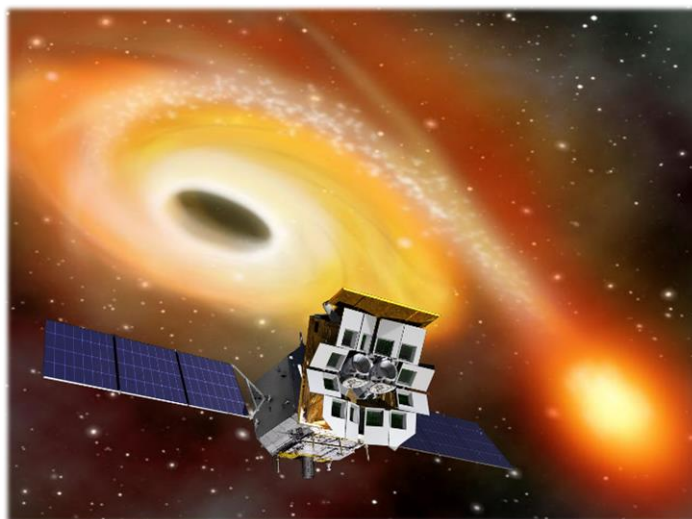
All are welcome ！Tea, coffee will be served at 2:15 PM.