

Systematic search and monitoring of X-ray flares from galactic nuclei by Einstein Probe

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Einstein Probe (EP) mission is a space X-ray observatory to monitor the soft X-ray sky with X-ray follow-up capability, and was launched on January 9, 2024. It carried out a series of performance verification and calibration observation after launch and had begun scientific observations since late July. Its main scientific objectives include monitoring of the known X-ray sources, like XRBs, AGNs, and discovering new or rare type of X-ray transients, particularly tidal disruption events (TDEs). By September, EP-WXT has detected more than 1000 known AGNs, of which about 10% of them show high variabilities. Besides, EP-WXT has discovered several TDE candidates in daily observations. Apart from searching the X-ray flares from galactic nucleus with EP-WXT, EP-FXT has carried out monitoring of some carefully selected changing-look AGNs and previously known TDEs. In this talk, we will briefly introduce the preliminary results of EP's systematic search and monitoring of AGNs and TDEs, and some peculiar long-term transients discovered by EP.

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