

P20 The FORCE mission : broadband X-ray imaging spectroscopy with good angular resolution

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The FORCE (Focusing On Relativistic universe and Cosmic Evolution) mission is a 1t-class X-ray observatory proposed for launch in late 2020s, using Japanese Epsilon rocket. The mission features, 1-80 keV wide-band coverage including hard X-rays, <15" good angular resolution, and low background X-ray imaging spectroscopy. By utilizing the good angular resolution, and low instrumental background as shown by the Hitomi Hard X-ray Imager (HXI), FORCE will provide 1-order of magnitude better sensitivity in 10-80 keV compared to NuSTAR and Hitomi/HXI. In this talk, we will present current status of the mission development, as well as driving science case studies, such as, search for deeply obscured AGNs and isolated black holes, SNRs' and clusters of galaxies' shock structures, and particle accelerations therein.

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