

Abstract Submitted
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The X-ray population of the Milky Way as seen by NuSTAR

ARASH BODAGHEE, Georgia College State Univ, NUSTAR GALACTIC SURVEYS TEAM — Launched in 2012, the Nuclear Spectroscopic Telescope Array (NuSTAR: Harrison et al. 2013) is NASA's newest space telescope devoted to observations in the X-rays (3-79 keV). The NuSTAR telescope consists of dual CCD detectors set 10-m away from an optics bench of incidence-grazing mirrors. Its unprecedented spatial and spectral resolution between 10 and 79 keV makes it a finely tuned instrument for performing surveys of the galactic plane where accreting neutron stars and black holes are plentiful. In this talk, I will present the most detailed maps of the Milky Way's central regions that have ever been produced in this energy range where we have uncovered around 100 accretion-powered X-ray sources. Detailed studies of the central supermassive black hole Sgr A* and the galactic X-ray population will be discussed, with insights into the accretion physics around a typical pulsating neutron star.

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