



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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NICER measurements of variability time scales in supersoft X-ray sources.

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We present NICER observations in which the modulations of the X-ray flux in two supersoft X-ray sources were measured with unprecedented data quality. We observed two luminous targets, CAL 83 in the LMC with its intriguing 67 seconds periodicity, and MR Vel in the Galaxy. We discuss the results in the context of the structure and evolution of the two binaries, especially focusing on what they reveal on shell nuclear burning.

Topic

Compact and diffuse sources in galaxies and in the Galactic Center

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