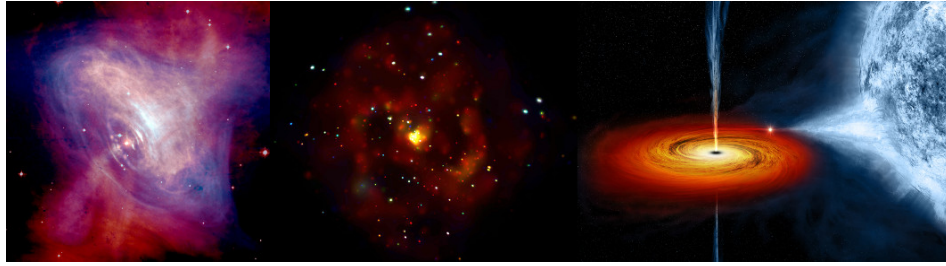


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Spectral and timing properties of GX 17+2 using AstroSat and NICER simultaneous view

Wednesday, April 5, 2023 2:20 PM (10 minutes)

We report the analysis of the Z-track NS-LMXB GX 17+2 using the simultaneous data from the AstroSat (LAXPC/SXT) and NICER mission data. On segmenting the HID into three slices—horizontal branch, hard apex, and normal branch- we investigate the source's variability and spectral state evolution throughout the observation. We performed the timing analysis in all the branches separately to probe the presence of aperiodic variability. We determined the photon lag behavior, which is found to follow a hard lag trend. The variation of the spectral parameters like the coronal temperature, photon index, blackbody temperature, and other obtained parameters along the track will also be represented. Then we compare the results of the two missions.

Presentation Type

Oral

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Track Classification: Short Talks