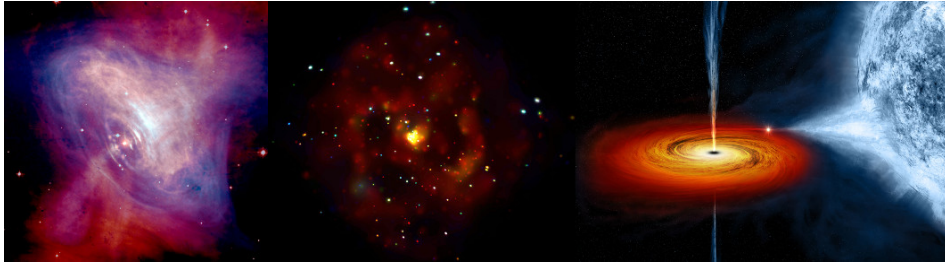


National conference on REcent Trends in the study of Compact Objects
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Unveiling spectral properties of 4U 1820-30 using AstroSat

Based on the X-ray flux variability on color-color diagrams (CDs)/hardness-intensity diagrams(HID) of low mass X-ray binaries hosting neutron stars as compact objects (NS-LMXBs) classified as Z and atoll sources. 4U 1820-30 is an atoll type NS-LMXB located in the globular cluster NGC 6624. It is one of the most well-studied NS-LMXBs and is reported to have kilohertz quasi periodic oscillations (kHz QPOs) existing in the upper banana and lower banana branches, as well as in the island state for the source. We have attempted to study the spectral properties of 4U 1820-30 in the 0.3 –25.0 keV energy range using the data from the Soft X-ray Telescope and Large Area X-ray Proportional Counter instruments on-board AstroSat. The spectral parameters of 4U 1820-30 obtained in our study will be discussed during the conference.

Presentation Type

Poster

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