



- RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

8-13 September 2019
CNR/INAF Research Area, Bologna, Italy

Contribution ID: 152

Type: **Poster**

A Neutron Star Ultra-Compact X-ray Binary Candidate

Friday, 13 September 2019 15:00 (2 minutes)

We report the discovery of a previously unnoticed X-ray source with a periodic variability at 614.28s. Its spectrum is an absorbed 1.8keV-blackbody with an iron-line feature. It has a L_x about $1.2 \times 10^{34} \times (D/10 \text{ kpc})^2 \text{ erg s}^{-1}$ and has no obvious optical counterpart (f_x/f_o larger than 1600). We argue it is most likely a neutron-star ultra-compact X-ray binary with the shortest orbital period so far.

Topic

Compact and diffuse sources in galaxies and in the Galactic Center

Affiliation

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Session Classification: POSTER SESSION