



- RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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Detailed study of X-ray binary system M33 X-6 behaviour with XMM-Newton

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We are looking for changes of spectral states of X-ray binary system X-6 in Galaxy M33 and similarities with other known Z-sources. In our previous work (Nikolaeva et al., 2018) we showed that there is a neutron star as a compact object. And spectrum shape looks like the spectrum in one of the spectral states of Z-source (neutron star with low magnetic field) RX J0042.6+4115 in M31 - the first extragalactic Z-source found, others have been found in our Galaxy. Using 28 datasets of XMM-Newton data, we fitted spectrum with different models which describes emission from corona, boundary layer, and thermal disk, found system period and plotted HID diagram.

Topic

Compact and diffuse sources in galaxies and in the Galactic Center

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