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Study of short-time X-ray variability of knots of Centaurus A jet

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We present the analysis of short-time periodic X-ray variability of knots in Centaurus A jet. The analysis is based on observational data from Chandra X-ray Observatory. The search for periodic variability was done using Lomb-Scargle periodogram method. We have found two knots with significant periodic signal. In order to improve signal to noise ratio we propose the procedure where the photons are collected from regions with more significant periodic signal. We have developed a new procedure for searching the most probable signal to noise ratio for week periodic signals. The possible explanation of such short-time periodic variability is proposed.

Collaboration

– not specified –

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Primary author: BOHDAN, Artem**Co-authors:** OSTROWSKI, Michal (Jagiellonian University); Dr MARCHENKO, Volodymyr (Jagiellonian University)**Presenter:** BOHDAN, Artem**Session Classification:** Poster 3 CR**Track Classification:** CR-TH