

Timing and Spectral analysis of 2010 outburst of black hole candidate GX339-4

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Abstract: In this poster we investigate the quasi periodic oscillation (QPO) behavior of the black hole candidate GX339-4 during its 2010's outburst using RXTE/PCA data. We perform a full analysis (spectral and temporal) of the observations, where the QPO exists. We analyze the relationship between the centroid frequency of QPO and the spectral parameters. The correlation of spectral and temporal properties can be used to estimate the mass of Black Hole – scaling method (Shaposhinikov, 2007). Using this method we estimate a mass of 7.48 solar mass of GX339-4.

