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Temporal and spectral properties of the source GRS 1915+105

Our study of Quasi-Periodic Oscillation (QPO) in GRS 1915+105 and the relativistic dynamic frequency of a truncated disc to drive the high spin nature of the black hole source GRS 1915+105 using Large Area Proportional Counter (LAXPC) and Soft X-ray Telescope (SXT) data for about three years from 2016 to 2019. This study extends the previous study of the low Hard Intermediate state (HIMS) to the Low Hard (LH) state, the Steep Power Low (SPL)/high Hard Intermediate state (HIMS), and the High Soft (HS) state. This work covers a wide range of QPO frequency range from 2 Hz to 72 Hz. We observe a strong correlation between the QPO frequency divided by the mass accretion rate and the inner disc radius of the source

Presentation Type

Poster

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