

Abstract Submitted
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Using CCI to unravel the states of GRS 1915+105 CHARITH PERIS, STEWART BUCHAN, SAEQA VRTILEK, Smithsonian Astrophysical Observatory — We use Color-Color-Intensity (CCI) diagrams (Vrtilek & Boroson, 2012) to explore the states of the black hole binary (BHB) system GRS 1915+105. Assuming the changes in the loci of these states in the CCI phase space to be due to intrinsic properties of the sources (such as mass accretion rate and radio jets), we analyze the regions of CCI phase space and its relation to these properties. We explore the possible correlation of mass accretion rate and X-ray color. We find no simple trend in mass accretion rate on the HR1-HR2 plane. We also plot the jet-line proposed by Fender et al. (2004) in CCI phase space and compare the jet and non-jet states of another GRS-like system, 4U 1630-472. We find that the states of 4U 1630-472 are compatible with the jet-line.

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