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Aperiodic x-ray variability in Blackhole binaries

To be able to fully describe the emission properties of a black hole binary system multi-wavelength observations are required as the inner parts of the accretion disk and the corona emit X- and Gamma-rays, outer parts of the accretion disk and the companion star emit optical and infrared emission and jets emit radiation from radio all the way to soft X-rays. In this matter i will model the x-ray variability of this systems with a new developed model PROPFLUC and compare it with previous models such as Lorentzian. Then i will utilize evolution of the outer and inner disk radius for different phases and finally i will compare the evolution in standards and outliers in the radio/X-ray correlation.

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