

Contributed Talk //

X-ray and Gamma-Ray Binaries (XRBs)



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The X-ray and Ultraviolet (UV) luminosity correlation has become a focal point of interest in astrophysics, with particular attention on Ultraluminous X-ray sources (ULXs). ULXs are enigmatic astronomical sources that exhibit X-ray luminosities surpassing the Eddington limit for stellar-mass black holes. Sonbas et al. (2019) found an anti-correlation between the UV and X-ray emission from ULXs. To further explore this relationship, the present study investigates the X-ray and UV luminosity correlation in ULXs using a synthetic population of binary systems generated by the COSMIC code and calculating their accretion properties.