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Multifrequency Behaviour of High Mass X-ray Binary Systems

Tuesday, July 6, 2021 9:30 AM (20 minutes)

In this talk the zoo of the High Mass X-ray Binary Systems (HMXBs) is presented. Among these I will discuss the X-ray/Be systems and in particular A0535 + 26/HDE245770. Through the multifrequency experimental data obtained in long observation campaigns it was possible to develop a particular model for the aforementioned system and then a general one that explains the delay between the flares in the X-band compared to those in the optical. This general model has been successfully applied to different binary systems for which the delay is known experimentally. This model can also be successfully extended to extragalactic systems in which a star is engulfed by tidal effects from the central black hole. Some examples will be shown.

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