



Contribution ID: 36

Type: **not specified**

Optical and NIR Spectroscopy of the Black Hole Transient GX 339-4

Thursday 8 June 2023 17:45 (10 minutes)

Low Mass X Ray Binaries (LMXBs) are transient systems whose outbursts are characterised by a variety of accretion and ejection phenomena, such as jets, winds of ionized material and intense X-ray emission. These objects have been extensively studied in the X-ray band, in which they are usually discovered, but during the past few decades the focus has shifted towards their optical and infrared properties leading, among others, to a better characterisation of the accretion disc and to the discovery of cold winds. In this presentation I will focus on GX 339-4, a LMXB known to show periodic outbursts. I will briefly present the optical and near-infrared spectroscopic analysis of this object, performed considering four epochs of spectroscopy corresponding to different outbursts and accretion states, paying special attention to the evolution of the main emission lines and potential outflows signatures.

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Session Classification: Student talks