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Understanding the link between XRBs and AGN

There has been a large effort in trying to investigate the similarities between supermassive black holes (SMBH) in active galaxies and stellar black holes (SBH) in X-ray binary systems (XRB). Both exhibit changes in accretion states, but on different timescales. Changes in the accretion state of Changing-Look Active Galactic Nuclei (CLAGN) are particularly interesting, as they occur on shorter timescales (months-years) and are accompanied by changes in luminosity and Eddington ratio. These CLAGN can be used to compare accretion state changes between AGN and XRB. Similarly, Tidal Disruption Events in SMBH are allowing to investigate the onset of the coronal and jet activity. A comparison between these systems may provide new clues in our understanding of the accretion and ejection phenomenon around black holes in their fundamental nature.

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