

Transient Phenomena and Physical Processes Around Supermassive Black Holes

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Accretion onto Supermassive Binary Black Holes

Thursday, 17 October 2024 14:00 (25 minutes)

Circumbinary disks are expected to exist around supermassive black-hole binaries as a consequence of accretion from the interstellar medium following galaxy mergers. I will discuss recent works on numerical modeling of circumbinary accretion, focusing short-term and long-term variabilities, and angular momentum transfer between the disk and the binary – the result suggests that the long-standing notion of binary orbital decay driven by circumbinary disk may not always hold. I will also discuss the dynamics of stellar-mass black-hole binaries embedded in AGN disks.

Primary author: LAI, Dong (TDLI)

Presenter: LAI, Dong (TDLI)

Session Classification: Session