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Black hole mergers and accretion in AGN disks

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Since the first discovery of a transient gravitational-wave signal by LIGO/Virgo, it has motivated many theoretical studies on how merging binary black holes (BBHs) form. Active galactic nucleus (AGN) disks have been proposed as promising locations for producing some of gravitational wave events. However, the validity of this AGN disk channel remains largely debatable due to the complexity of binary-disk interaction. In this talk, I will briefly introduce the recent updates of this AGN disk channel, and some of our works about binary black hole evolution in AGN disks.

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