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Extreme Mass Ratio Inspirals: Formation, Dynamics and Astrophysical Applications

Thursday, 14 December 2023 13:40 (20 minutes)

In this talk I will discuss one of the primary targets of space-borne gravitational wave detectors –the Extreme Mass Ratio Inspirals, which usually comprises a massive black hole and a stellar-mass companion. In recent years there are significant progress in terms of its formation channel, rate estimation and dynamics in astrophysical environments. I will review these new developments and then discuss the significance of detecting these sources with gravitational waves and possibly electromagnetic counterparts.

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