



Contribution ID: 26

Type: **Invited/Solicited talk in mini-symposium**

gravitational waveforms and sciences with binary-extreme-mass-ratio inspirals

Monday, December 11, 2023 2:20 PM (20 minutes)

In this talk, I will introduce the binary-extreme-mass-ratio inspirals (b-EMRIs) which are compact binaries captured by a supermassive black hole. b-EMRIs are multi-band gravitational wave sources both for space-borne and ground-based detectors. I will explain how we accurately calculate the waveforms, how to identify EMRI signals by deep learning. Finally I will discuss the sciences related with the b-EMRIs.

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Session Classification: GW Astrophysics