

Insight into the black holes in the Universe using Gravitational Waves

Tuesday, 7 November 2023 11:20 (30 minutes)

Gravitational waves are a new observational probe that can enable data-driven tests of the fundamental laws of physics that govern the Universe. I will discuss how this avenue can explore new frontiers that can shape our understanding of astrophysics and cosmology. I will show some latest findings using the current gravitational wave data and discuss novel techniques for discovering new physics from the upcoming multi-band gravitational wave observatories in synergy with the electromagnetic observations in the coming years.

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