

Detectability of primordial black holes as a dark matter candidate with gravitational waves from the Galactic center

Tuesday, 5 July 2022 09:00 (45 minutes)

The inconclusive results in the search for a dark matter particle have led many to investigate primordial black holes as a possible alternative candidate. In my talk I will first review the basic theory of primordial black holes, their potential role in the dark matter problem, and the observational constraints already in place in this regard. In the second part of my talk I will explore their potential detectability (and limitations thereof) at the Galactic center via gravitational waves with upcoming space-based interferometers LISA and muAres.

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Session Classification: Morning session