

Probes of Dark Matter at LIGO and Beyond

Thursday 26 March 2020 17:05 (25 minutes)

We discuss probes of dark matter with chirping GWs. The example dark matter candidates include primordial black holes and axion-like particles. We first discuss lensing observables of primordial black holes: GW fringes and GRB lensing parallax. They finally allow probing a whole range of the PBH mass range with lensing. Then we discuss the disturbance due to dark matter waves in the environment of binary inspirals and in the galactic halo.

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Session Classification: Short talks