

# JOINT TUFTS/MIT COSMOLOGY SEMINAR

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## *Primordial black holes from domain wall networks*

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Domain wall (DW) networks are interesting probes of new physics with spontaneously broken discrete symmetries. They have a strong impact on cosmology, leading to abundant production of primordial Gravitational Waves (GWs) and Black Holes (PBHs). A detailed knowledge of these signals and how they depend on model parameters, however, represents a computational challenge. I will present a method to capture the GW and PBH yield and I will discuss some phenomenological implications. Within current uncertainties, the DW interpretation of the PTA signal cannot be ruled out by PBH overproduction.

Tuesday, September 24, 2024, 2:30 pm

574 Boston Ave, Room 402

Tufts University

Refreshments at 2:00 outside the building, at the corner of  
Harvard St. and Boston Ave.