

JOINT TUFTS/MIT COSMOLOGY SEMINAR

Particle Phenomenology with Gravitational Waves

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In this talk I will consider what a particle physicist may learn from gravitational wave astronomy. In particular, I will discuss how binary mergers can be affected by the presence of Dark Matter, and how the gravitational wave form would be modified as a result. I will also discuss the stochastic background, and the expected signals from exotic compact objects and halo substructure. Finally, I will talk about signs of new physics in the gravitational wave spectra of cosmic phase transitions.

Tuesday, May 1, 2018, 2:30 pm
574 Boston Ave, Room 310
Tufts University

Refreshments at 2:00 outside room 304