## JOINT TUFTS/MIT COSMOLOGY SEMINAR

## Gravitational self-interactions of cosmic string loops Jeremy Wachter UPV/EHU Bilbao

Gravitational wave signals from cosmic strings are strongly influenced by the presence and character of generic features on string loops known as kinks and cusps. We find analytically the leadingorder effect of gravitational self-interactions on strings near kinks and cusps, and discuss how these effects might influence loop evolution. We show the results of numerically evolving particular kinds of loops undergoing self-interactions, and comment on how the gravitational wave spectrum from loops might be affected.

Wednesday, November 6, 2019, 2:30 pm 574 Boston Ave, Room 310 Tufts University

Refreshments at 2:00 outside room 304