

JOINT TUFTS/MIT COSMOLOGY SEMINAR

Dark Matter Annihilation and the Cosmic Microwave Background

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With the upcoming release of Planck polarization data and measurements of high multipoles by ACT and SPT, the cosmic microwave background provides a clean and robust probe of annihilating dark matter in the early universe. I will discuss the physical mechanisms by which dark matter annihilation is expected to impact the cosmic microwave background radiation, outline recent improvements to the calculation of the expected signal, and present the latest bounds using power spectrum measurements from Planck, WMAP9, ACT and SPT, together with low-redshift datasets.

Tuesday, October 22, 2013, 2:45 pm

Cosman Seminar Room

Center for Theoretical Physics

Building 6C, Room 6C-442

Massachusetts Institute of Technology

Refreshments at 2:30 in the same room