

JOINT TUFTS/MIT COSMOLOGY SEMINAR

Special Seminar: Fundamental Implications of Intergalactic Magnetic Field Observations

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I will review current observational evidence for helical intergalactic magnetic fields at the $\sim 10^{-14}$ G level on ~ 10 Mpc length scales. The existence of magnetic fields in cosmic voids and their non-trivial helicity suggest that they must have originated in the early universe and thus have implications for the fundamental interactions. The importance of CP violation and a possible crucial role for chiral effects in the early universe will be pointed out.

Tuesday, August 30, 2016, 2:30 pm
574 Boston Ave, Room 404
Tufts University

Refreshments at 2:00 outside room 404