

Neutrinos in Cosmology

Thursday, September 21, 2023 3:00 PM (30 minutes)

Neutrinos are ubiquitous in cosmology and they represent a relevant component of the energy density of the Universe across its entire history. This fact makes cosmology a key arena to understand the properties of the most elusive particles in the Standard Model. I will review the main cosmological implications of neutrinos including their impact on Big Bang Nucleosynthesis and the Cosmic Microwave Background. I will also discuss current cosmological constraints on various neutrino properties including their mass within the Λ CDM model and several of its extensions.

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