

The Mitchell Conference on Collider, Dark Matter, and Neutrino Physics 2024

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New Cosmological Data Presents v Opportunities

Thursday, May 23, 2024 5:25 PM (25 minutes)

The most precise determination of the sum of neutrino masses from cosmological data, derived from analysis of the cosmic microwave background and recent baryon acoustic oscillations data from DESI, favors a value below the minimum inferred from neutrino flavor oscillation experiments. The sum of neutrino mass is determined in cosmology from the suppression of matter clustering in the late universe. In this talk, I will explore how the preference for excess clustering compared to the Standard Model may have implications for cosmology and particle physics.

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