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Easing the sigma8-tension with nu-DM interactions

Friday 4 June 2021 15:30 (6 minutes)

The σ_8-tension of Planck data with weak lensing and redshift surveys is one of the main problems with the ΛCDM model of cosmology. We show that the tension can be alleviated by introducing an interaction between dark matter and neutrinos. We model the interaction using a linear Boltzmann treatment, introducing a novel implementation that for the first time uses the full massive neutrino hierarchy. We also provide upper limits on the interaction cross-section between neutrinos and dark matter.

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