

Spanish and Portuguese Relativity Meeting



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Elastic interactions in the dark sector and massive neutrinos

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Cosmological models that incorporate an elastic interaction within the dark sector at the linear order have emerged as a promising solution to address the σ_8 tension. This interaction works by preventing the clustering of dark matter, thereby alleviating the tension. A key question in these scenarios is whether there is a potential degeneracy between this dark sector interaction and the impact of massive neutrinos, which also contribute to the suppression of structures at late times. In this study, we explore the possibility of such a degeneracy and provide evidence that the effects of the elastic interaction and massive neutrinos do not exhibit strong correlations.

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