

Determining the Neutrino Lifetime from Cosmology

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I discuss the cosmological signals of theories in which the neutrinos decay into invisible dark radiation after becoming nonrelativistic. I show that, in this scenario, near-future large-scale structure measurements from the Euclid satellite, when combined with cosmic microwave background data from Planck, may allow an independent determination of both the lifetime of the neutrinos and the sum of their masses.

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