



Friday 8 July, 14:25 – 14:45

Session 15: Neutrino cosmology

Large-scale structure and ν masses (theory)

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I will review the impact of cosmological neutrinos on the Universe Large Scale Structure extending the linear theory and providing quantitative statements about observational quantities like cluster mass function, weak lensing, Lyman-alpha forest and galaxy clustering. All these observables, when combined to CMB data offer tight constraints on the total neutrino mass that are starting to put under pressure the inverted hierarchy scenario. I will also present new results on cold dark matter coldness (keV sterile neutrinos) with a new data set.