

Nu non standard scenario and cosmology

giovedì 20 giugno 2024 09:40 (25 minuti)

In this talk I review the meaning of cosmological bounds on two important quantities, the effective number of relativistic species N_{eff} and the sum of neutrino masses, and their relation with fundamental neutrino properties. I discuss several non-standard scenarios where N_{eff} can be significantly altered (much larger or much smaller than 3), and also scenarios which barely change its value. Concerning the sum of neutrino masses, I will show how it is possible to avoid cosmological bounds with neutrino decay or time-dependent masses, in order to reconcile cosmological observations with neutrino oscillation constraints.

Poster prize

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