



Contribution ID: 38

Type: **not specified**

Cosmological constraints on non-standard neutrino interactions

Wednesday 24 October 2018 12:10 (30 minutes)

Cosmological observations are a powerful probe of neutrino physics. In particular, they can be used to investigate the possibility that neutrinos have interactions beyond the standard model of particle physics, like those that emerge in dynamical realizations of the see-saw mechanism for neutrino mass generation (i.e., Majoron models). In my talk I will present constraints on the strength of neutrino interactions from the most recent cosmological data. I will also discuss the possibility of having such “secret” interactions together with a light sterile neutrino, in relation to the anomalies observed in short-baseline flavour oscillation experiments.

Presenter: LATTANZI, Massimiliano (INFN - National Institute for Nuclear Physics)

Session Classification: Morning session