

Séminaire LAL

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Vendredi 8 février 2019 à 11h00

Neutrino cosmology and large scale structure

In this talk, I will present studies of the model-dependence of cosmological neutrino mass constraints.

In particular, I will focus on two phenomenological parameterizations of time-varying dark energy (early dark energy and barotropic dark energy) that can exhibit degeneracies with the cosmic neutrino background over extended periods of cosmic time. Moreover, I will show how the combination of multiple probes across cosmic time can help to distinguish between the two components.

In addition, I will discuss how neutrino mass constraints can change in extended neutrino mass models, and how current tensions between low- and high-redshift cosmological data might be affected in these models.

Auditorium Pierre Lehmann - Bât. 200, Orsay

Organisation :

Reisaburo Tanaka - Aurélien Martens - Joao Coelho - Thibaud Louis - Dimitris Varouchas (LAL) - seminaires@lal.in2p3.fr - LAL web : <http://www.lal.in2p3.fr>

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