Department of Theoretical Physics

Cosmology and Astro-particle Physics Seminar

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HRI

Neutrino masses in cosmology

Tuesday, 9 April 2018, 13:00
Room A304

We present strong bounds on the sum of three active neutrino masses using selected cosmological datasets and priors in various cosmological models. We use combinations of the following baseline datasets: Cosmic Microwave Background (CMB) temperature data from Planck 2015, Baryon Acoustic Oscillations measurements from SDSS-III BOSS DR12, the newly released Type Ia supernovae (SNe Ia) dataset from Pantheon Sample, and a prior on the optical depth to re-ionization from 2016 Planck Intermediate results. We constrain cosmological parameters with these datasets with Bayesian analysis.

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