



Contribution ID: 277

Type: Oral

Cosmological searches for a non-cold dark matter component

Tuesday 8 August 2017 15:15 (15 minutes)

The standard Λ CDM cosmological model has successfully explained large scale cosmological observations. However, there are some discrepancies between the Λ CDM predictions and measurements at small scales. Even though these discrepancies could be due to unaccounted effects on weak lensing analyses and/or numerical simulations, in this talk, I will explore the possibility of extending the standard cosmological model with an additional, subdominant, non-cold dark matter component.

In particular, I will show the impact of such a scenario on various cosmological probes, including the CMB (Planck), weak lensing surveys measurements (KIDS) and the number of satellite galaxies in the Milky Way.

Primary authors: GARIAZZO, Stefano (IFIC-CSIC); ESCUDERO, Miguel (IFIC-University of Valencia); MENA, Olga (IFIC); DIAMANTI, Roberta (University of Amsterdam)

Presenter: ESCUDERO, Miguel (IFIC-University of Valencia)

Session Classification: Cosmology

Track Classification: Cosmology (incl. neutrino mass/number density)