

Overview of recent results from observational cosmology

Friday, June 14, 2019 10:30 AM (40 minutes)

This talk will review the latest measurements from the presently most precise cosmological probes, namely the cosmic microwave background, distant type Ia supernovae and baryonic acoustic oscillations. The agreement between these data and the Λ CDM model - the standard model of cosmology - will be highlighted. Constraints from these data on inflation and neutrino masses will also be shown. The persistent tension on the Hubble constant between direct measurements and fitted Λ CDM values will be discussed. Finally, the potential of large scale structure measurements beyond baryonic acoustic oscillations will be briefly commented.

Presenter: Dr RUHLMANN-KLEIDER, Vanina (IRFU, CEA, Université Paris-Saclay)