

Planck 2013 From the Planck Scale to the Electroweak Scale

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keV Neutrino Dark Matter

Wednesday, 22 May 2013 14:00 (25 minutes)

In this talk, an introduction to keV sterile neutrinos as Dark Matter particles is given. After reviewing the cosmological aspects of (Warm) Dark Matter, I will explain why the topic is interesting for particle physics model building and also point out the differences to ordinary neutrino model building. We will go through a couple of generic models, all of which yield interesting and fundamental connections between the neutrino and the Dark Matter sectors. We finally present some alternative ideas and generalizations.

Presenter: MERLE, Alexander

Session Classification: Parallel Session on Dark Matter