

## 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