

# Seminar

**Joachim Kopp**

Univ. Mainz

## Theory and Phenomenology of eV-Scale Sterile Neutrinos

Several anomalies observed in neutrino oscillation experiments have been interpreted as possible hints for the existence of eV-scale sterile neutrinos. In this talk, we critically review these hints and present results from comprehensive global fits. Our results reveal significant tension in the global data set, which motivates us to discuss also alternative explanations for the observed anomalies. In the final part of the talk, we discuss cosmological constraints on light sterile neutrinos and ways to avoid them.

**Thursday, 25.01.2018, 14:15 Uhr**

**Place: D6-135**