

KEK Theory Meeting on Particle Physics Phenomenology (KEK-PH2018  
winter) and 3rd KIAS-NCTS-KEK workshop on Particle Physics  
Phenomenology

Contribution ID: 9

Type: **not specified**

## **Sterile Neutrinos - Whence, Where, and Whither?**

*Wednesday, 5 December 2018 09:30 (30 minutes)*

We discuss some of the manifold ways in which sterile neutrinos (SM singlet fermions mixing with neutrinos) affect particle physics, astrophysics, and cosmology. In the first part of the talk, we focus on eV-scale sterile neutrinos as a possible explanation for various short-baseline oscillation anomalies. In the second part, we discuss several ways in which sterile neutrinos can affect dark matter physics and early Universe cosmology.

**Presenter:** KOPP, Joachim (CERN)

**Session Classification:** Plenary Session