

# Probing origins of neutrino masses and baryon asymmetry

*Tuesday 3 December 2013 16:50 (25 minutes)*

We consider the Standard Model extended by two quasi-degenerate right-handed neutrinos. In particular, we consider the case when they are lighter than charged kaon. This simple framework can account for the neutrino oscillations and the baryon asymmetry of the universe at the same time. In this talk we shall summarize the possible constraints on such right-handed neutrinos from direct search experiments and cosmology, and also discuss the strategy how to find and verify right-handed neutrinos by using the future experiments by using kaon.

**Presenter:** ASAKA, Takehiko (Niigata U.)

**Session Classification:** Afternoon session 2