

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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Phenomenology of Light Sterile Neutrinos

Wednesday, 3 December 2014 15:00 (30 minutes)

I review the experimental indications in favor of short-baseline neutrino oscillations. I discuss their interpretation in the framework of neutrino mixing schemes with one or more sterile neutrinos which have masses around the eV scale. Taking into account also cosmological constraints, I present arguments in favor of 3+1 neutrino mixing with one sterile neutrino at the eV scale. I discuss the implications for neutrinoless double-beta decay and cosmology.

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Session Classification: Parallel 2: Neutrinos mass and mixing, implications for astroparticle physics, dark matter searches