

Heavy neutrino-antineutrino oscillations

Collider detectable heavy neutrinos predicted by type I seesaw models are generically expected to be pseudo-Dirac pairs of two almost mass degenerate Majorana neutrinos. The tiny mass splitting is not only directly related to the masses of the light neutrinos but also leads to heavy neutrino-antineutrino oscillations. The observation of such oscillations would allow to quantify the amount of lepton number violation introduced by the seesaw.

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