Rencontres de Moriond EW 2011



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Type: Ordinary

Entangled Neutrino Oscillations

Due to energy-momentum conservation, a neutrino produced in pion decay is kinematically entangled with the recoiling muon. We derive the probability for neutrino oscillation taking this entanglement fully into account. We make clear that this probability is —and must be —identical to that obtained when the entanglement is ignored.

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