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Type-II Dirac neutrino seesaw in a flavour model

Abstract

In this talk I present a Standard Model extension with underlying A4 flavour symmetry where small Dirac neutrino masses arise from a Type-II seesaw mechanism. The model predicts the "golden" flavour-dependent bottom-tau mass relation, requires an inverted neutrino mass ordering and non-maximal atmospheric mixing angle. Using the latest neutrino oscillation global fit I derive restrictions on the oscillation parameters, such as a correlation between CP phase and lightest neutrino mass.

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