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Effects of variations of SUSY breaking scale on neutrino oscillation parameters at low energy scale under radiative corrections for different values of $\tan \beta$

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Using renormalisation group equations (RGEs) we study the radiative corrections of different models of neutrino mass patterns at different values of high seesaw scale M_R and $\tan \beta$ with the variation of SUSY breaking scale m_s . Different neutrino mass patterns are found to behave differently under the analysis. Small value of $\tan \beta$ is found preferable for NH case whereas higher value of $\tan \beta$ is found favorable for IH case. A self-complementarity relation among the three leptonic mixing angles is employed and it is found to be invariant against radiative correction. Both NH and IH prefer the high SUSY breaking scale m_s . Different neutrino oscillation parameters receive varying radiative corrections under the analysis.

Session

Neutrino Physics

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