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NMFV implications on the Higgs mass

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Abstract content

The Minimal Supersymmetric Standard Model is builded on the assumption of universality of scalar masses. In this work, we consider that the trilinear SUSY Soft-terms have a hierarchical structure of flavor mixing within generations, leading to a non-degeneration on sfermion masses. We analyze the consequences on the MSSM parameter space of this sfermion loop contributions . We work under the consideration of m_maxˆh benchmark scenario, in which the parameter space is set in order to maximize the radiative contributions to the Higgs mass. Based on recent experimental results on possible Higgs signal, we calculate the renormalized mass of the neutral light CP-even Higgs taking into account flavor mixing contributions.

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