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NMSSM Low Energy Effects

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The Next-to-Minimal Supersymmetric Standard Model is a well motivated singlet extension of the MSSM, liable, e.g., to solve the "mu-problem". A remarkable feature of this NMSSM lies in the possibility of very light CP-odd Higgs states (below the B-Bbar threshold). While most of the aspects of the phenomenology of the NMSSM at low energy remain similar to the effects expected in the MSSM, such light particles may lead to significant new contributions.

In the corresponding talk, we will thus review a few aspects of the low energy phenomenology of the NMSSM, focussing on rare B decays, muon (g-2) and bottomonium spectroscopy and decays. Special emphasis shall be given to the NMSSM specific effects, associated with a light CP-odd Higgs.

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