High Energy Physics - Phenomenology

Comment on "New constraints of a light **CP-odd Higgs boson and related NMSSM** Ideal Higgs Scenarios" by Dermisek and Gunion (arXiv:1002.1971 [hep-ph])

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In two recent papers (arXiv:1002.1971 [hep-ph] and arXiv:0911.2460 [hep-ph]) Dermisek and Gunion provide new constraints on a light CPodd Higgs boson in the framework of the NMSSM (or similar models) based on experimental data from LEP, CLEO, BaBar and CDF experiments. In this brief comment we argue that special care is still needed inside a narrow mass window where mixing with \$\eta b\$ resonances below \$B\bar{B}\$ can occur. We also stress that observables testing lepton universality and a possible distorsion of the bottomonium mass spectrum can provide an alternative analysis at (Super) B-factories in the search of such an elusive light pseudoscalar Higgs-like object.

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