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Lopsided Gauge Mediation

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The unavoidable tuning among supersymmetric parameters required to raise the Higgs boson mass beyond its experimental limit opens up new avenues for dealing with the so called μ-B_μ problem of gauge mediation. In fact, it allows for accommodating, with no further parameter tuning, large values of B_μ and of the other Higgs-sector soft masses, as predicted in models where both μ and B_μ are generated at one-loop order. This class of models, called Lopsided Gauge Mediation, offers an interesting alternative to conventional gauge mediation and is characterized by a strikingly different phenomenology, with light higgsinos, very large Higgs pseudoscalar mass, and moderately light sleptons.

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