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The Focus Point for Non-Zero A

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Abstract:

Recent results from Higgs boson and supersymmetry searches at the Large Hadron Collider provide strong new motivations for supersymmetric theories with heavy superpartners. Focus point supersymmetry (FP SUSY) scenarios allows for large superpartner masses to be achieved naturally. However, even in FP scenarios superpartner masses large enough to produce a Higgs boson consistent with recent data leads to an undesirable degree of fine-tuning. We extend previous discussions of FP SUSY by allowing for non-zero A -terms, and examine the effect on Higgs mass and fine-tuning in gravity-mediated scenarios.

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