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Supersymmetric models with light higgsinos

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In the Minimal Supersymmetric Standard Model, the higgsinos can have masses around the electroweak scale, while the other supersymmetric particles have TeV-scale masses. This happens in models of gauge-mediated SUSY breaking with a high messenger scale, which are motivated from string theory. Multi-TeV squark and gluino masses are natural for particular choices of the messenger field content, somewhat similar to focus point supersymmetry. They can lead to Higgs masses of 124-126 GeV, while making the discovery of supersymmetry at the LHC unlikely. The light higgsinos are also difficult to see at the LHC but may eventually be discovered at a linear collider.

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