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Twin Supersymmetry

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We will review Twin Higgs constructions in light of SUSY UV completions. Combining the Twin Higgs and SUSY provides a perturbative solution of the hierarchy problem in which the low-lying states stabilizing the EW scale are uncharged under the SM gauge group. We will discuss the fine tuning of the EW scale and the rich phenomenology of the Higgs sector in a wide class of Twin SUSY models. We will see how models tuned at the level of 10-20 % can be easily obtained within this framework and discuss the crucial role played by the Higgs mass constraint. We then sketch some distinctive phenomenological features of this setup which can be relevant for future colliders.

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