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Higgs-mass predictions with FeynHiggs

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FeynHiggs is a public tool for the prediction of Higgs-boson properties in the Minimal Supersymmetric Standard Model (MSSM). Focussing on the mass of the SM-like Higgs, I will discuss the status and recent developments of FeynHiggs. In the effective-field-theory calculation, this includes improvements that are relevant for multi-scale hierarchies, addressing the case where the gluino is much heavier than the sfermions and the case of non-SM-like light Higgs bosons. In the fixed-order calculation, this concerns a complete overhaul of the two-loop corrections, significantly improving numerical stability and thus enhancing the range of applicability for scenarios with heavy SUSY particles.

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