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External Momentum Dependence from the Higgs Boson Mass

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The three-loop corrections to the Higgs boson mass are usually computed in the on-shell scheme using the effective potential approach, where the external momentum are put equal to zero. In this presentation we are going to discuss the technical details for the Feynman diagrammatic computation of the external momentum dependence coming from the three-loop self-energy corrections to the Higgs boson mass in both the Standard Model (SM) as in the minimal supersymmetric standard model with real parameters (rMSSM).

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