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Two-loop corrections to scalar masses in generic theories without approximations

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Since new coloured states have been strongly constrained by LHC searches, extended electroweak sectors have become of paramount interest. However, the quantum corrections to these sectors can be very large; in the classic example of the MSSM, the Higgs mass has very large corrections at two loop order. On the other hand, in the MSSM, or even in the Two Higgs Doublet Model, the electroweak corrections to the Higgs mass have never been completely calculated. I will present the calculation of scalar self-energies and tadpoles for *general* renormalisable theories at two loop order without approximations.

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