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Review of electroweak fits of the SM and beyond with Gfitter

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Results from the global Standard Model (SM) fit to electroweak precision data, including newest Tevatron measurements, are reviewed and discussed. The constraint on the Higgs boson mass obtained from the fit is convolved with the high-scale behaviour of the Higgs quartic coupling to derive likelihoods for stability, metastability or instability scenarios of the SM. Information from the electroweak fit on loop contributions from beyond-SM models is obtained through an analysis of the so-called oblique parameters. Various models are discussed. Finally, an update of the constraints on a generic Two-Higgs-Doublet Model is presented.

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