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Type: **Ordinary**

## Update of the electroweak fit and BSM constraints in the scalar sector

*lundi 12 mars 2018 11:15 (15 minutes)*

We present an update of the global fit of the Standard Model electroweak sector to latest experimental results. We include new top quark and W boson mass measurements from the LHC, a measurement of the weak mixing angle from the Tevatron, and a new evaluation of the hadronic contribution to the electromagnetic coupling. The electroweak data combined with measurements of the Higgs boson coupling strengths and flavour physics observables are also used to constrain parameters of two-Higgs-doublet models. We discuss possible future directions of the electroweak fit, presenting fits to differential Higgs measurements at the High-Luminosity LHC in the context of an effective field theory.

### Summary

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**Classification de Session:** Monday Morning: SM ( top, EW)