

Electroweak precision constraints with HEPfit

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Summary

We revisit the global fit to electroweak precision observables in the Standard Model (SM), including the indirect determination of the SM parameters and a detailed analysis of the compatibility between the SM and experimental data. We present updated constraints on general new physics scenarios (oblique parameters, modified Zbb couplings, modified Higgs couplings to vector bosons, and dimension 6 gauge-invariant operators built with SM fields). We also present the projection of the fit with the expected experimental improvements at future $e+e-$ colliders. All results have been obtained with the HEPfit code.

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