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Electroweak precision observables in the Standard Model and beyond: present and future (15' + 5')

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We revisit the global fit to electroweak precision observables in the Standard Model (SM), including the indirect determination of SM parameters and a detailed analysis of the compatibility between the SM and experimental data. We present updated constraints on general extensions of the SM (oblique parameters: S , T , U and $(\Delta\epsilon)$, modified $Zb\bar{b}$ couplings, modified Higgs couplings to vector bosons). 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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