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The global electroweak fit: present status, constraints on new physics, and prospects at future colliders

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We review the status of the global electroweak fit in the Standard Model (SM), including the latest theoretical and experimental updates. We discuss in detail the consistency of the SM with current experimental data, and derive constraints on general new physics scenarios. These are compared and combined with the bounds obtained using Higgs boson observables measured at the LHC. Finally, we present the projection of the fit with the improvements expected at future e^+e^- colliders. All the results have been obtained using the HEPfit code.

Experimental Collaboration

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