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Precision tests of the electroweak interaction

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Abstract

This conference report summarizes recent experimental progress on precision tests of the electroweak interaction. We focus on new results on the properties of electroweak gauge bosons based on data from the LEP, TEVATRON and HERA colliders, and the status of the determination of the effective Z^0 couplings to fermions with new input from LEP, SLC and CHARM II. We finally discuss the consistency of all electroweak precision data with the Standard Model and among themselves and derive constraints on Standard Model parameters.

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