



Contribution ID: 313

Type: Parallel Session Talk

Status of the global fit to electroweak precision data, and constraints on the Higgs boson

Friday, 23 July 2010 16:15 (18 minutes)

Gfitter results from the global Standard Model (SM) fit to electroweak precision data, including newest Tevatron measurements, are reviewed and discussed. Constraints on the Higgs and top-quark masses, as well as on $\alpha_s(M_Z)$, are studied in some detail, and outlooks to the LHC and ILC eras are presented. Information from the electroweak fit on loop contributions from beyond-SM models is obtained through an analysis of the so-called oblique parameters.

Primary author: GOEBEL, Martin (DESY - Uni Hamburg)

Co-authors: HOECKER, Andreas (CERN); LUDWIG, Doerthe (DESY - Uni Hamburg); FLAECHEER, Henning (Rochester Univ.); HALLER, Johannes (University of Hamburg); MOENIG, Klaus (DESY); SCHOTT, Matthias (CERN); BAAK, Max (CERN)

Presenter: GOEBEL, Martin (DESY - University of Hamburg)

Session Classification: 02 - The Standard Model and Electroweak Symmetry Breaking

Track Classification: 02 - The Standard Model and Electroweak Symmetry Breaking