

DIRECT SEARCHES FOR THE STANDARD MODEL HIGGS BOSON AT THE TEVATRON

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4:00 P.M. NSH 415

We present the latest results of direct searches for the standard model Higgs boson at the Tevatron, the first which use the complete RunII datasets of the CDF and D0 collaborations. A general overview of the individual search channels is presented, highlighting the analysis technique improvements contributing to these latest results. Results in the form of upper confidence/credibility limits on the Higgs production cross-section as well as cross sections resulting from maximum-likelihood fits to the assumed signal are presented for CDF, D0 and the Tevatron combination. Primary focus will be given to searches in final states with pairs of bottom quarks, which are currently predicted to be more sensitive for the Tevatron experiments than for equivalent searches at the LHC.

Particle
Physics
Seminar

All interested
persons are
cordially
invited to
attend.