High Energy Physics - Experiment

Combination of Tevatron searches for the standard model Higgs boson in the W+W- decay mode

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We combine searches by the CDF and D0 collaborations for a Higgs boson decaying to W+W-. The data correspond to an integrated total luminosity of 4.8 (CDF) and 5.4 (D0) fb-1 of p-pbar collisions at sqrt{s} =1.96 TeV at the Fermilab Tevatron collider. No excess is observed above background expectation, and resulting limits on Higgs boson production exclude a standard-model Higgs boson in the mass range 162-166 GeV at the 95% C.L.

Comments:	11 pages, 4 figures. Published in Phys. Rev. Lett, along with two accompanying letters, one from CDF and one from D0, describing the H->WW searches which are combined here
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