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## CDF Higgs searches

*Friday 8 June 2012 15:30 (20 minutes)*

The latest results from the CDF Collaboration on searches for the Standard Model Higgs Boson using up to 10 fb<sup>-1</sup> of proton-anti-proton collisions at 1.96 TeV center-of-mass energy. Recent improvements in b-quark identification, online event selection, and background rejection have significantly increased the sensitivity across a wide range of Higgs masses (100 - 200 GeV/c<sup>2</sup>). These improved techniques will be discussed along with their application to the current searches. The expected sensitivity at m<sub>H</sub> = 125 (165) GeV/c<sup>2</sup> is 1.39 (0.67) times the SM cross section respectively with a 95% exclusion region for Higgs masses between 148.8 < m<sub>H</sub> < 175.2 GeV/c<sup>2</sup> and m<sub>H</sub> < 96.9 GeV/c<sup>2</sup>.

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Please enter the name of the collaboration or group using the acronym, as in: ABC Collaboration

CDF Collaboration

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