

Search for heavy resonances decaying into ZZ at CDF

jeudi 21 juillet 2011 12:50 (10 minutes)

We report on a search for heavy resonances decaying into pairs of Z bosons using 6fb^{-1} of ppbar collisions at $\sqrt{s}=2\text{TeV}$ collected by CDF.

The analysis explores three final states corresponding to decays of Z pairs into four charged leptons, two charged leptons plus neutrinos, and two charged leptons plus jets.

The results of the search are interpreted in the framework of theoretical models that predict heavy resonances decaying into ZZ, and for heavy resonance masses above $300\text{GeV}/c^2$ we are sensitive to production cross-sections times branching ratio to ZZ below 0.2pb .

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Classification de Session: Higgs and New Physics

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