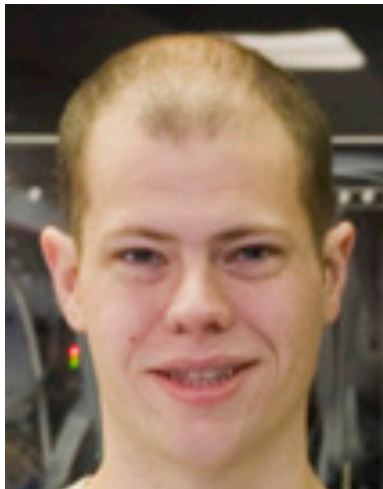


Note Special
Location!!

LEPP Journal Club

Friday, February 3, 2012. 4:00 pm (3:45 refreshments)
201 Physical Sciences Building



Ben Carls University of Illinois Search for $H \rightarrow WW$ at CDF

The search for the Standard Model (SM) Higgs boson at the Tevatron has been highly successful in driving the first Higgs exclusions since LEP. This search by CDF, corresponding to 8.2 fb^{-1} , looks specifically in the Higgs to WW final state of two charged leptons (e, μ) & two neutrinos from the collision of $p\bar{p}$ pairs at $\sqrt{s}=1.96 \text{ TeV}$. This analysis implements several improvements over the previous version by improving acceptance for nearby, same-sign, & low-mass dilepton candidates. An expanded SM Higgs boson mass exclusion region is achieved.

