

Abstract Submitted
for the APR05 Meeting of
The American Physical Society

A Global Fitting Method for Extracting Electroweak Cross Sections in CDF Dilepton Data SEBASTIAN CARRON, MIRCEA COCA, MARK KRUSE, Duke University, CDF COLLABORATION — We present an analysis of the high- p_T dilepton sample in which we simultaneously extract the $t\bar{t}$, WW , and $Z \rightarrow \tau\tau$ cross-sections, with improved precision over more conventional analyses. After selecting events with two high- p_T leptons, we find a 2-D kinematical phase space in which these signals are well separated. We perform a likelihood fit of the data in this phase space to the known contributions in order to extract cross sections of the three predominant processes in the high- p_T dilepton data.

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Date submitted: 26 Jan 2005

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