

ICHEP2012



Contribution ID: 645

Type: **Parallel Sessions**

CDF searches for diboson production in final states with heavy flavor jets

Friday, July 6, 2012 2:15 PM (15 minutes)

We present the results of CDF searches for diboson production in final states with jets identified as originating from heavy flavor quark decays. In particular, searches for WZ/ZZ production where the first W or Z boson decays leptonically and the second Z decays into a pair of bottom or charm quarks mimic primary Tevatron searches for a low mass Higgs with subsequent decay into a pair of bottom quarks produced in association with a W or Z boson. CDF's ability to observe diboson production in these final states provides a critical validation of the tools, techniques, and background modeling used in our H \rightarrow bb searches.

Primary author: Dr TROVATO, Marco (Fermi National Accelerator Laboratory (US))

Presenter: Dr TROVATO, Marco (Fermi National Accelerator Laboratory (US))

Session Classification: Plenary3 - The Standard Model -TR1

Track Classification: Track 1 - The Standard Model and EW Symmetry Breaking - Higgs Searches