

# XX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 208

Type: **not specified**

## Searches for new physics in the top sector at the Tevatron

*Thursday, 29 March 2012 10:12 (18 minutes)*

The kinematic properties of the data used for the measurement of the top-antitop quark pair production and of the single top quark production cross sections are used to set constraints on a variety of signals of physics beyond the SM. We set constraints on possible 4th generation top quarks, on possible resonances that would decay into top-antitop quark pairs, on possible resonances that would decay in top and bottom quark pairs. We also set constraints on possible anomalous couplings at the  $Wtb$  vertices. Finally we set limits on possible  $t \rightarrow uZ, cZ$  decays by studying final states with three charged leptons.

**Primary authors:** Dr VERZOCCHI, Marco (Albert-Ludwigs-Universitaet Freiburg (DE)); PETERS, Yvonne

**Presenter:** PETERS, Yvonne

**Session Classification:** Combined: Electroweak and searches/heavy flavours

**Track Classification:** Electroweak and searches/heavy flavours