

Contribution ID: 153 Type: not specified

## Anomalous Photon-Gauge-Boson Coupling Contribution to the Exclusive Vector Boson Pair Production from Two Photon Exchange in pp Collision at 8 TeV

Friday, 12 September 2014 19:00 (20 minutes)

We study the W/Z pair production from two photon exchange in pp collisions at the LHC in order to evaluate the contributions of anomalous photon-gauge-boson couplings, predicted in many Standard Model (SM) extensions. We start by reproducing the total cross section for W+ W- production and we present the lepton invariant mass distribution corresponding to the SM signal with pT (e mu) > 30 GeV. Next, we consider the anomalous couplings by calculating the Z pair production process by considering a 1 TeV scale for new physic effects. We calculate the total cross section and we present the transverse momentum distribution for the fully leptonic final state with zero extra tracks.

Primary author: Ms MARTINS, Daniel Ernane (Universidade do Estado do Rio de Janeiro)

**Co-authors:** Dr VILELA PEREIRA, Antonio (Universidade do Estado do Rio de Janeiro); Dr SÁ BORGES, José (Universidade do Estado do Rio de Janeiro); Dr REBELO TELES, Patricia (Centro Brasileiro de Pesquisas Físicas)

Presenter: Dr SÁ BORGES, José (Universidade do Estado do Rio de Janeiro)Session Classification: Diffraction in Hadron-Hadron Collisions (II)

Track Classification: Diffraction in hadron-hadron collisions