



Contribution ID: 204
compétition)

Type: Oral (Student, Not in Competition) / Orale (Étudiant(e), pas dans la

Search for resonant VH production with a W or Z boson decaying leptonically

Tuesday 17 June 2014 15:45 (15 minutes)

The search for $pp \rightarrow Vjj$ with a dijet resonance is motivated by a number of theories going beyond the Standard Model. The Higgs boson discovery by ATLAS and CMS imposes strong constraints on theories beyond the Standard Model. Minimal Walking Technicolor (MWT) proposes a dynamical approach to explain the electroweak symmetry breaking and is of interest as it includes a light composite Higgs-like scalar particle. It also predicts resonant VH associated production coming from a mixture of vector and axial-vector mesons. This presentation will focus on the latest results in the search for such resonances in the 3 leptonic channels of Vbb using the data collected from 8 TeV pp collisions with the ATLAS detector with interpretation in terms of the MWT model.

Authors: Dr MEHTA, Andrew (University of Liverpool (GB)); Dr GWILLIAM, Carl Bryan (University of Liverpool (GB)); DALLAIRE, Frederick (Université de Montréal (CA)); AZUELOS, Georges (Université de Montréal (CA)); HAYWARD, Helen (University of Liverpool (GB)); WANG, Jike (Deutsches Elektronen-Synchrotron (DE)); REZVANI, Reyhaneh (Université de Montréal (CA)); CAVALIERE, Viviana (Univ. Illinois at Urbana-Champaign (US))

Presenter: DALLAIRE, Frederick (Université de Montréal (CA))

Session Classification: (T3-8) Searches for Higgs in the Standard Model and beyond - PPD / Recherches pour Higgs dans le modèle standard et au-delà - PPD

Track Classification: Particle Physics / Physique des particules (PPD)