



ID de Contribution: 167

Type: Ordinary

Searches for Boosted Di-Bosons Resonances with the ATLAS and CMS detectors

jeudi 17 mars 2016 10:20 (20 minutes)

Resonant production of two electroweak gauge bosons (WW, WZ, ZZ) is an important signature for physics beyond the Standard Model and various possibilities resulting in such signatures have been proposed, e.g. Extended Gauge Models with heavy charged/neutral bosons (W' , Z'), bulk Randall-Sundrum excitation of the graviton (G^*) in extra dimensions. Similarly the resonant production of a W or Z gauge boson with a SM Higgs boson or of two Higgs bosons is predicted in various new physics scenario. Searches for such high-mass resonances can obtain a significant sensitivity gain by exploiting techniques to identify hadronic decay of boosted W, Z or Higgs bosons. This presentation summarizes the ATLAS and CMS searches for di-bosons resonances in final states including hadronic jets and leptons with boosted boson tagging techniques.

Auteur principal: Dr BELLOMO, Massimiliano (University of Massachusetts Amherst)

Orateur: Dr BELLOMO, Massimiliano (University of Massachusetts Amherst)

Classification de Session: Beyond SM

Classification de thématique: Experiment