

## LHC Seminar

SPEAKER: Katharina Mueller (Universitaet Zuerich (CH))

**Recent results from LHCb on W, Z and low** 

mass Drell-Yan production

DATE: Tue 05/06/2012 11:00

PLACE: Council Chamber

## **ABSTRACT**

Recent results from the LHCb experiment are presented that test QCD and the electroweak theory. Inclusive and differential cross-sections, as well as cross-section ratios and asymmetries, for W and Z boson production are measured and compared to next-to-next-to-leading order QCD predictions using the most recent parton distribution functions. In addition, differential cross-sections for low mass Drell-Yan production are presented in the di-muon mass range 5<M(mu mu)<120 GeV/c^2. Finally, a new measurement on the production of jets of particles in association with a Z boson is presented.