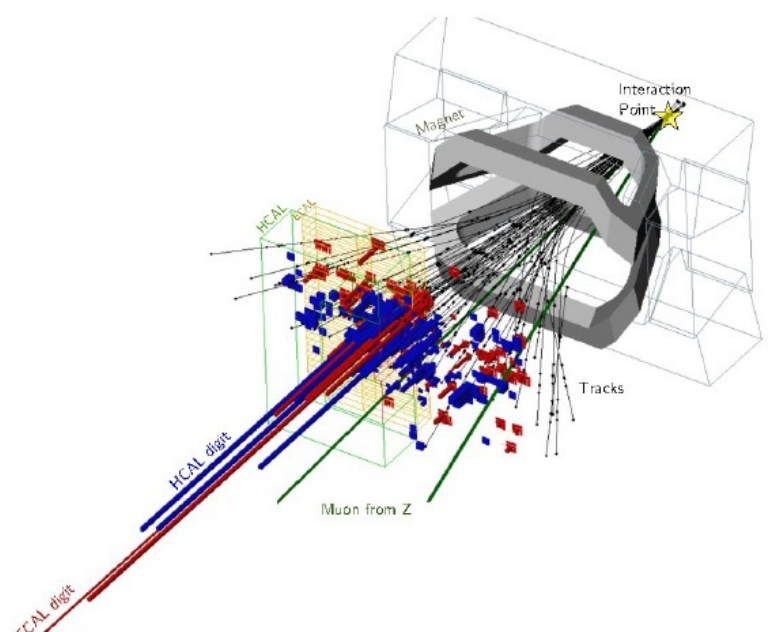


# Measurements with electroweak bosons in the forward region at the LHC.

**Katharina Mueller (Zurich University)**

**Tuesday, 27 November 2012, 16:45 h**  
**DESY Auditorium**

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  $5 < M_{\mu\mu} < 120 \text{ GeV}/c^2$ . Finally, a measurement on the production of jets of particles in association with a Z boson is presented.



- **Coffee, tea and cookies will be served at 16:30h**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**