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## **Electroweak Measurements with the ATLAS and CMS Experiments**

*vendredi 8 mars 2013 09:35 (20 minutes)*

Highlights of ATLAS and CMS measurements involving the production of heavy electroweak gauge bosons, W and Z, at the LHC will be presented. Cross sections of single W and Z bosons are studied with very high precision and differential in various kinematic variables. The rapidity differential measurements are shown to have a so far unique impact on our knowledge of proton structure with regards to the strange quark density. Furthermore measurements of tau final states, W polarisation and the weak mixing angle will be presented. Various di-boson measurements will be presented. These measurements test the non-Abelian gauge structure and limits on anomalous triple gauge couplings are derived.

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**Classification de Session:** BSM & Electroweak results

**Classification de thématique:** Experiment