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Summary of ATLAS Standard Model measurements (including top quark)

Monday 15 June 2015 13:45 (30 minutes)

While the LHC is ramping up for its second run at yet higher centre-of-mass energy, the experimental Collaborations are not only preparing for this run, but also ensuring that the maximum amount of information is extracted from the data taken in 2011 and 2012 at a centre-of-mass energy of 7 and 8 TeV, respectively. Many precision standard model measurements have been carried out, spanning some 14 orders of magnitude in production cross section. Some striking examples of achievements by the ATLAS Collaboration in measurements of production and properties of standard model particles will be presented. Particular focus will be placed on the observation of new processes or novel experimental techniques used to improve the precision of the analyses.

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Session Classification: M1-8 Energy frontier: Standard Model and Higgs Boson I (PPD) / Frontière d'énergie: modèle standard et boson de Higgs I (PPD)

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