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First Results from ATLAS on W and Z Boson Production in proton-proton Collisions at $\sqrt{s}=7$ TeV

Friday, 23 July 2010 12:10 (15 minutes)

This talk will give an overview on first results on W and Z production in proton-proton collisions at $\sqrt{s}=7$ TeV, recorded with the ATLAS experiment at the LHC. The selection of W and Z events will be described, together with data-driven methods used to estimate the trigger and reconstruction efficiencies, as well as the main backgrounds. The W and Z signal yields and the extracted cross sections at $\sqrt{s}=7$ TeV will be presented, as well as preliminary distributions of kinematic variables and first measurements of the W charge and polarization asymmetry.

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Session Classification: 01 - Early Experience and Results from LHC

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