

Measurement of the $Z \rightarrow \tau\tau$ and $W \rightarrow \tau\nu$ cross sections with the ATLAS detector

The $Z \rightarrow \tau\tau$ cross-section has been measured with the ATLAS experiment at the LHC in four different channels, depending on the decays of the two tau leptons: electron-hadrons, muon-hadrons, electron-muon and muon-muon.

The analysis is based on the data sample collected in 2010, corresponding to an integrated luminosity of 36 pb^{-1} , at a proton-proton centre-of-mass energy of 7 TeV. The cross section for $W \rightarrow \tau\nu$ is also measured.

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Track Classification: QCD