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Electron and photon energy measurement calibration with the ATLAS detector

An accurate calibration of the energy measurement of electron and photon is needed for many ATLAS physics analysis.
The calibration of the energy measurement is performed in-situ using a large statistics of Z->ee events. A pre-requisite of this calibration is a good understanding of the material in front of the calorimeter and of the inter-calibration of the different calorimeter layers. The
Z->ee sample is also used to measure the energy resolution. The results obtained with the pp collisions data at sqrt(s)=13 TeV in 2016 (2015) corresponding to an integrated luminosity of 33.9 (3.1)fb-1 of sqrt(s)=13 TeV are presented as well as the corresponding uncertainties on the electron and photon energy scales.

Experimental Collaboration

ATLAS

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