Contribution ID: **266** Type: **Parallel**

Electron and photon energy measurement calibration with the ATLAS detector

Thursday 5 July 2018 10:12 (12 minutes)

An accurate calibration of the energy measurement of electron and photon is needed for many ATLAS physics analyses. 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 2015-2017 corresponding to an integrated luminosity of 80 fb-1 are presented as well as the corresponding uncertainties on the electron and photon energy scales.

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Session Classification: Detector: R&D for Present and Future Facilities

Track Classification: Detector: R&D for Present and Future Facilities