



Electron and photon energy measurement calibration with the ATLAS detector

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An accurate calibration of the energy measurement of electron and photon is paramount for many ATLAS physics analysis.

The calibration of the energy measurement is performed in-situ using a large statistics of $Z \rightarrow ee$ 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. $Z \rightarrow ee$ events are also employed to measure the energy resolution. The results obtained

with the pp collisions data recorded in 2015 at $\sqrt{s} = 13$ TeV, corresponding to an

integrated luminosity of 3.2 fb⁻¹, as well as the corresponding uncertainties on the electron and photon energy scales, are presented.

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