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Final Performances for electron and photon calibration reconstruction and identification in Run 2

As prerequisite to any physics exploration excellent performances of physics object are essential ingredients to a successful scientific programme. Electrons and Photons play a crucial role at LHC in several fields. Several analyses such as SM precision measurements, measurements in the Higgs sector, and searches for processes beyond the SM, rely on excellent electron and photon reconstruction efficiencies together with small misidentification probability, excellent momentum resolution, and small systematic uncertainties. In this poster the final precision on electron and photon energy calibration, reconstruction, identification and isolation efficiencies measurements using 13 TeV pp collision data collected with the ATLAS detector during the LHC Run-2 will be discussed.

Collaboration / Activity

ATLAS

Presenters: NECHANSKY, Filip (ATLAS (ATLAS Standard Model Physics)); NECHANSKY, Filip (DESY) **Session Classification:** Poster session

Track Classification: Detector R&D and Data Handling