ATLAS Jet Calibration: layer/cell weighting BELEN SALVACHUA, Argonne National Laboratory, ATLAS COLLABORATION — The LHC will provide a very rich jet phenomenology for both standard model and beyond the standard model physics. Jet calibration is essential for understanding the present SM limits and claims on future discoveries. The jet energy scale uncertainty sets the largest constraint on the ATLAS sensitivity to new physics in hadronic channels. As part of its function, the jet calibration accounts for the intrinsic difference between the hadronic and the electromagnetic cascade development. We present a Monte Carlo based jet calibration that combines two different approaches: the so called H1 method which is based on the jet energy density distribution and the so called sampling method, which is based on the longitudinal energy distribution of the jets. First results show good performance for both jet energy resolution and linearity.

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