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MEASUREMENT OF THE STANDARD MODEL AT THE TEV COLLIDERS

We have studied that the LHC data for Standard Model (SM) processes cover a very wide kinematic range, providing access to transverse momenta and masses of the order of TeV and above. For an accurate understanding at such scales, it is necessary to consider higher-order electroweak (EW) corrections in addition to QCD corrections. SM data obtained at 7 TeV and 8 TeV, with their small statistical uncertainties and decreasing (over time) systematic errors, are useful not only for testing theoretical predictions but also as input data for the global parton distribution function (PDF).

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