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Measurement of Z \rightarrow ee differential cross sections in proton-proton collisions at sqrt(s)=7 TeV with the ATLAS detector HAO LIU, University of Michigan — We report the differential cross-section measurements of the Z \rightarrow ee with respect to the transverse momentum and rapidity of Z boson produced in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. The analysis is based on a dataset corresponding to an integrated luminosity of approximately 36.6 pb⁻¹ collected in year 2010. The results are compared with theoretical expectations.

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