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Performance of the ATLAS Liquid Argon Endcap Calorimeter in Beam Tests

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Summary

The pseudorapidity region $2.5 < |\eta| < 4.0$ in ATLAS is a particularly complex transition zone between the endcap and forward calorimeters. A set-up consisting of 1/4 resp. 1/8 of the full azimuthal acceptance of the ATLAS liquid argon endcap and forward calorimeters has been exposed to beams of electrons, pions and muons in the energy range $E \leq 200$

GeV at the CERN SPS. Data have been taken in the endcap

and forward calorimeter regions as well as in the transition region. This beam test set-up corresponds very closely to the geometry and support structures in ATLAS. A detailed study of the performance in the endcap and forward calorimeter regions is described. The data are compared with MC simulations based on GEANT 4 models.

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