

E214 The ATLAS Experiment

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1. W-mass

With the finished calibration, the mass of the W-boson can now be measured. In order to determine the W-mass, we use a data set of actual ATLAS data containing $W \rightarrow e\nu$ events, as well as several simulated data sets also containing $W \rightarrow e\nu$ events. There is also a $Z^0 \rightarrow e^+e^-$ data set to check the validity of the previous calibration. Finally there are data sets for QCD- and non-QCD background events.

A. Appendix