

Top mass measurement at LHC with the ATLAS detector

The LHC will be the first top quark factory. $t\bar{t}$ pairs will be produced at such a high rate that the statistical error on the top quark mass measurement will soon become negligible.

A precise top quark mass measurement is of great importance for LHC experiments because it is one of the fundamental parameters of the Standard Model and because, during the LHC start-up, it will be a high mass reference candle. We present studies performed in order to estimate the potential of ATLAS to measure the top quark mass from the first few hundred pb^{-1} of data.

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