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Measurement of CP Violation in B-Bbar pairs from Top quark decays

Top pair events provide a source of bbbar pairs, which can be used to probe CP violation in heavyflavour mixing and decay. In events where one of the W bosons decays leptonically to an electron or muon, the charge of the W boson can be used to determine unambiguously the flavour charge of the accompanying b quark at the time of its production. In cases where the b also decays semileptonically to a muon, this sample allows to probe two CP asymmetries constructed with the charge signs of the W and the soft muon. The first measurement of the CP asymmetries in bbar from top pair decays is hence presented using the data collected with the ATLAS detector

Summary

Primary author: KEMPSTER, Jacob Julian (Royal Holloway, University of London)

Presenter: KEMPSTER, Jacob Julian (Royal Holloway, University of London)

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during the 8 TeV run of the LHC.