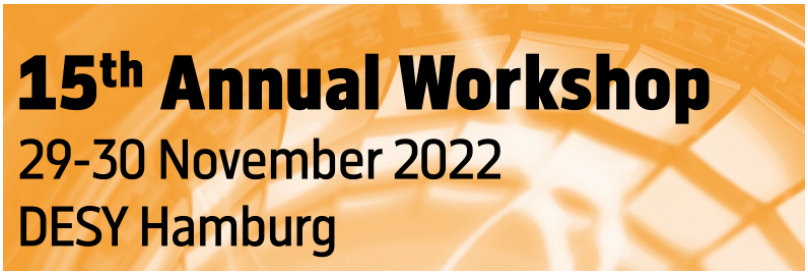

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Top quark charge asymmetry in highly boosted events in the single lepton channel at 13 TeV

Tuesday 29 November 2022 14:20 (20 minutes)

The measurement is performed on highly boosted top quark pair events resulting in non isolated leptons and overlapping jets. Jet substructure variables are used to identify the boosted top quark and the W boson. The top quark charge asymmetry is measured for events with ttbar invariant mass larger than 750 GeV. The measurement is found to be in good agreement with the standard model prediction at next-to-next-to-leading order in perturbation theory with next-to-leading order electroweak corrections.

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