

Prospect of $t\bar{t}$ charge asymmetry measurement in boosted all-hadronic channel

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The $t\bar{t}$ charge asymmetry at ATLAS has traditionally been measured in single-lepton and di-lepton channels. This is primarily due to the necessity to identify the charge of the reconstructed top/anti-top quarks. The charge of the lepton acts as a proxy to the charge of the corresponding leptonically-decaying top. We investigate the possibility of a measurement of the $t\bar{t}$ charge asymmetry in boosted all-hadronic channel by using neural networks and tracking information to distinguish top quarks from anti-top quarks.

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