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Trigger efficiencies for Top quark pairs selections

Top quark pairs decay in a variety of final states that are commonly classified as single lepton, di-lepton and multi-jet. Top pairs can also be classified on their kinematics, in particular on the boost of the hadronic top. In order to maximise the efficiency of selecting each final state and category, several types of triggers were developed by the ATLAS collaboration. We used top pair selections to evaluate the efficiency of lepton, di-lepton, multi-jet and large-jet triggers and compared it in data and in the Monte Carlo simulation.

Summary

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