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Calibration of Quark versus Gluon Jet Tagging Variables Using Two Event Topologies with the ATLAS Detector

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Distinguishing quark-initiated from gluon-initiated jets is useful for many measurements and searches at the LHC. Development of tools for distinguishing quark- from gluon-initiated jets are potentially useful. However, there arises difficulty from the topology dependence of quark-versus-gluon jet tagging.The dijet topologies either dijet back to back or djet plus a gamma (quark dominated) or dijet plus a third jet (gluon dominated) should be used to output the quark and gluon tagging efficiencies as function of the jet pT and eta, in both data and simulation and will be used to derive also scale factors for the Monte Carlo rejections and efficiencies.

Type

Parallel talk

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