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WITHDRAWN Performance of Isotropy for Jet Tagging

Monday 19 June 2023 15:00 (15 minutes)

We use the newly proposed Energy Mover's Distance as a measure of jet isotropy to define new jet substructure observables for quark/gluon discrimination and identifying hadronically-decaying top quarks with large transverse momentum. We assess their effectiveness by comparing them with other classifiers. The quark/gluon study is conducted at hadron level while the top quark study is conducted at detector-level in events reconstructed with a simulated version of the ATLAS detector implemented in GEANT4.

Keyword-1

Jet Substructure

Keyword-2

Energy Mover's Distance

Keyword-3

Jet Tagging

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