

Inputs, grooming and track assisted techniques for jet substructure

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In order to mitigate the effect of pile-up and to improve the resolution of substructure variables for highly boosted hadronically decaying particles various grooming techniques and jet inputs are evaluated. Track assisted techniques are also introduced to improve over the calorimeter limited granularity in the highest boosted regime. Boosted Higgs bosons decaying into two collimated b-jets are reconstructed in a single large radius jet with variable radius subjets. The performance of these techniques is presented in ATLAS.

Author: ATLAS COLLABORATION

Presenter: GANGULY, Sanmay (Weizmann Institute of Science (IL))

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