

# Jet reclustering in Mono-S(WW) signature analysis

*Saturday, 1 December 2018 15:50 (15 minutes)*

Jet reclustering method is a novel tool to reconstruct large-radius jet. This study implements jet reclustering procedure in the search for dark matter production associated with Higgs-like scalar boson decaying to  $W^+W^-$  at ATLAS, also known as Mono-S(WW) signature. The performance of reconstructing four highly-boosted jets in the signal sample is inspected, and a better result in mass resolution is expected compared with the conventional large- $R$  jet.

## Session

Works in Progress (15+5 min)

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**Session Classification:** Works in Progress