

Phenomenology of heavy flavour jet angularities at hadron colliders

Wednesday 15 October 2025 10:30 (25 minutes)

I will present resummed and matched predictions for jet angularities in hadronic Z +jet events, where the jet is initiated by a b quark. The analysis is performed both with and without grooming the candidate jets using the Soft drop algorithm. Mass effects are consistently included at both fixed-order and resummed levels and our theoretical predictions also incorporate non-perturbative corrections from the underlying event and hadronisation.

We compare our results with previous implementations in the Sherpa resummer plugin and show the impact of mass effects.

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