

Interplay of underlying event and event shape observables in Z-boson events

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Experimental measurement of observables sensitive to underlying event (UE) has been performed by both ATLAS and CMS experiments at the LHC. However, in the busy LHC environment, these observables receive substantial contribution from extra jets. In this study, we probe if using event shape observables in conjunction with UE observables can help us to disentangle the effect of UE from extra jets.

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