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Jet Angularities in Z+jet production at the LHC

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We present a phenomenological study of the ungroomed and groomed jet angularities measured in Z+jet production at 13 TeV collision energy. We provide resummed predictions for the angularity distributions at NLO+NLL' accuracy level which are compared to the state-of-the-art NLO Monte Carlo simulations. Our predictions include the effect of soft emissions at large angles, treated as a power expansion in the jet radius as well as non-global logarithms.

Our results account for realistic experimental cuts and can be easily compared to the experimental results recently collected by the LHC collaborations.

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