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Using substructure techniques to probe Multiple Parton Interactions

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Angular Structure Function (ASF) has been proposed as a way to study MPI contribution in large radius jets (arXiv:1201.2688v2 [hep-ph]). We extend the study to include more topologies and Monte Carlo models, and look at the traditional transverse regions used for probing the underlying event. The ASF gives a reasonable discrimination between MPI and hard scattered jets.

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