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Measurement of k_t splitting scales in $W \rightarrow l\nu$ events at $\sqrt{s} = 7$ TeV with the ATLAS detector

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A measurement of splitting scales in the k_t clustering algorithm for final states containing a W boson produced in proton-proton collisions is presented. The measurement focuses on the four hardest splitting scales in a k_t cluster sequence of the hadronic activity accompanying the W boson, and suitably defined ratios. The data are compared to predictions from various Monte Carlo generators. Overall, reasonable agreement is found with all generators, but most of them show deviations in some aspects of the distributions.

Author: COLLABORATION, ATLAS

Presenter: SIEGERT, Frank (Albert-Ludwigs-Universitaet Freiburg (DE))

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