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NLO Vector+Jets Predictions with BlackHat & Sherpa

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Calculations to next-to-leading order in QCD of Standard-Model processes provide the leading quantitatively reliable predictions. They are a prerequisite for comparisons to experimental data. The BlackHat collaboration has been pushing the high-multiplicity frontier in such calculations. In this talk, representing the BlackHat collaboration, I present the next-to-leading predictions for W and Z production in association with three and four jets at the LHC, results for W production in association with five jets; and results for pure four-jet production. I also show comparisons to available Atlas and CMS data.

Author: Dr KOSOWER, David (CEA - Centre d'Etudes de Saclay (FR))

Co-authors: MAITRE, Daniel (Univ Durham); FEBRES CORDERO, Fernando (Univ. Simon Bolivar, Caracas); ITA, Harald (UCLA); OZEREN, Kemal (UCLA); DIXON, Lance (SLAC); HOECHE, Stefan (SLAC); BERN, Zvi (UCLA)

Presenter: Dr KOSOWER, David (CEA - Centre d'Etudes de Saclay (FR))

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