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Precise predictions for V +jet production

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The production of electroweak gauge bosons in association with a jet, V +jet, constitutes an important class of standard-candle processes at the LHC. The requirement of an additional hadronic jet in the final state introduces a direct sensitivity to the strong coupling constant and the gluon PDF, while still retaining a large event rate. As such, V +jet production provides an ideal testing ground for our understanding of both strong and electroweak interactions in a hadron-collider environment.

I give a brief review of the recent theory developments for this process class and present their phenomenological results. I further discuss how these calculations can be used for closely related observables, such as the p_T spectrum of the gauge boson, and their impact on the interpretation of experimental data.

Experimental Collaboration

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