

Production Cross-Section and Charge Asymmetry of the W Boson with Jets

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W +jets is a curious playground of hard objects like jets, and electroweak interactions from the leptonic decay of the W boson. In this region of phase space, very interesting measurements are made to stringently test the Standard Model production mechanisms, as well as provide inputs to state-of-the-art parton distribution functions determination, for example with the W^+/W^- asymmetry measurement. Additionally W +jets is a dominant background for many Beyond-the-Standard-Model searches and Higgs measurements, thus improving this measurement and reducing systematics will have a large impact to improve many such analyses and our understanding of fundamental high energy physics.

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Experiment

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