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Electroweak Gauge Boson and Associated Jet Production at LHCb

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Measurements of Electroweak Gauge Boson Production at LHCb probe a previously poorly explored low x region of phase space. Such measurements provide unique constraints on PDFs, as well as providing tests of the Standard Model in regions where theoretical predictions have not been tuned. Results from LHCb are complementary to those made at the ATLAS and CMS experiments. This talk will cover detection of Electroweak Gauge Bosons at LHCb, jet reconstruction using LHCb's Particle Flow algorithm, and a measurement of Z +Jet production. We also report on recent improvements, and the outlook and potential for future measurements.

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