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## **Measurements of the production of vector bosons in association with heavy flavour quarks at ATLAS.**

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The production of heavy flavour quarks in association with a vector boson represents an important process to study QCD. High precision is achieved in measurements of differential cross sections and comparisons are made to state-of-the-art NLO QCD calculations and different parton distribution function parameterizations.

Measurement of the production of a W boson in association with a charm quark using 4.6 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector is reported.

The measurement is performed using W boson plus tagged c-jet and W boson plus D/D\* meson. Cross sections integrated over a fiducial kinematic range and differential as a function of the pseudorapidity of the lepton from the W-boson decay are reported.

**Primary author(s) :** BARONCELLI, Toni (Roma Tre Universita Degli Studi (IT))

**Presenter(s) :** AAD, Georges (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))

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