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## PDF constraints from CMS measurements

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We present recent CMS results related to constraining parton distribution functions. Results are based in recent jet measurements performed with 2011 data taken at center-of-mass energy of 7 TeV and 2012 data taken at 8 TeV and on associated W+charm production, which probes the strange quark in the proton at leading order. Recent CMS measurements of associated W+charm production and W muon charge asymmetry at 7 TeV are used together with HERA DIS data in a QCD analysis at next-to-leading order. The HERAFitter framework is used. The strange-quark fraction is determined as a function of the scaling variable  $x$ . Results are compared to measurements of ATLAS and NOMAD experiments.

### Summary

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