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New insights into proton structure and QCD parameters using CMS measurements.

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Production of jets, top quarks and electroweak bosons in proton-proton collisions at the LHC probes the fundamental parameters of the Standard Model as quark masses or the strong coupling constant. Furthermore, the constraints on the parton distribution functions of the proton can be probed by including the measurements of these processes in a QCD analysis. New insights into the proton structure and the fundamental QCD parameters will be presented, as obtained by the CMS collaboration, using the recent measurements of W+charm, top quark and jet production at 13 TeV.

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