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QCD physics with ATLAS and CMS experiments

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The soft and hard QCD processes are analyzed by the ATLAS and CMS experiments using samples of proton-proton collisions collected by the LHC at the center of mass beams energy equal to 7, 8 and 13 TeV. Measurements of jet production rates, jet properties, particle multiplicity and momentum spectra, scaling and correlations are presented. The results are compared to predictions of theoretical models at leading- and next-to-leading orders of QCD. The data are used to measure the strong coupling constant and for PDF constraints.

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