

QCD physics with ALICE, ATLAS and CMS experiments

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The soft and hard QCD processes are analyzed by ALICE, ATLAS and CMS experiments using samples of proton-proton and AA collisions collected by the LHC at different energies. Measurements of jet production rates, jet properties, particle multiplicity, particle momentum spectra and correlations are presented.

The results are compared to predictions of theoretical models at leading- and next-to-leading orders of QCD.

The data in combination with HERA and CMS and

ATLAS results are used to measure the strong coupling constant and for PDF constraints.

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