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Measurement of multi-jets and vector boson plus jets production in ATLAS and CMS

Thursday 11 September 2025 14:00 (20 minutes)

Production of multiple jets or vector bosons plus jets at the LHC offers the main, and unprecedented opportunity to study QCD at the high-energy regime. As precision advances, attention has been brought up to study further topics sensitive to understanding of QCD: different topological configurations between vector bosons and jets, the jet substructure information, and the heavy-flavor components. In addition, these measurements are key ingredients to give precise determination of the strong coupling constants. This talk will summarize recent achievements from ATLAS and CMS on this topic.

Track

1: Perturbative and resummed predictions, parton showers and event generators for LHC and EIC

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