

What We Have Learned from Photon + Jet Final State in CMS

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2021/5/18(Tuesday)/14:20~15:20

Google Meet: meet.google.com/txr-xucq-rsm



Abstract: During the LHC proton-proton collisions, the photon+jet final state occurring mostly from QCD interaction provides rich information for detector calibration, object reconstruction, and physics interpretation. In this talk, we present the bottom-up approach on the analyses based on photon+jet signature in CMS experiment in LHC. I will show how we understand the reconstruction of photon+jet events in CMS and the analysis results on the same event signature. The results provide input to test QCD as well as the search for new physics.