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## QCD studies with photons in CMS (15' + 5')

*Thursday 9 June 2011 15:30 (20 minutes)*

We present QCD measurements with photons using data from pp collisions at  $\sqrt{s}=7$  TeV, recorded with the CMS detector at the CERN LHC. The differential cross section for the inclusive production of isolated prompt photons as a function of the photon transverse energy and the inclusive di-photon production rate as a function of the di-photon invariant mass are compared to next-to-leading-order perturbative QCD calculations. Also, the photon+jet ratio of cross sections is presented, compared to Monte-Carlo generator predictions.

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**Session Classification:** 4E Parallel - EWK and QCD