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## Z+jets/photon+jets cross section ratio at 8 TeV

The Poster presents the photon part of the  $Z/g$  cross section ratio, as well as the ratio itself. The  $Z/g$  cross section ratio is not only a precise measurements that probes the strenght of the perturbative corrections, and the pdf composition, but also a test to validate with CMS-collected data a commonly used method to estimate backgrounds raising from  $Z$  to invisibles decays in BSM searches. The photon part of the analysis includes also the photon  $p_T$ -differential cross section ratio between  $N+1/N$  jets ( $N=1,2$ ). The analyzed dataset corresponds to the full 2012 LHC run luminosity at 8 TeV collected by the CMS detector ( $19.7 fb^{-1}$ ), and results are compared to theoretical predictions.

### Summary

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**Clasificación de temáticas** : Top-quark and ElectroWeak Physics