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## Direct photon results from CDF

Prompt photon production is a field of very high interest in hadron colliders. It provides probes to search for new phenomena and to test QCD predictions. I will present two direct photon results using the full CDF Run II data set: diphoton cross section measurements and photon + heavy flavor cross section measurements. Both measurements are compared with a wide variety of theoretical predictions, including both fixed-order calculations and parton-shower generators. A good understanding of the QCD diphoton cross sections is critical for the precision measurement of Higgs boson in the diphoton channel. The photon+heavy flavor results provide valuable information to the modeling of heavy-flavor parton density and the gluon splitting rates to heavy flavors.

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