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Constraining the intrinsic charm/bottom content of the nucleon via photon + heavy quark production

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The production of a prompt photon in association with a heavy-quark (charm or bottom) jet is a versatile process that can be used to study the structure of the proton and the nucleus. This process is extremely sensitive to the heavy quark PDFs, and can thus directly probe for intrinsic charm or bottom contributions. We present various predictions of this process at different colliders and detectors (D0, CDF, RHIC, ATLAS, CMS and LHCb) portraying how the different kinematic ranges affect the constraint of IC/IB.

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