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Measurement of the Cross Section of the Associated Production of Photons and b-quark Jets at CDF

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The study of final states with an isolated high energy photon and an identified b-quark jet is a testing ground for QCD predictions at the hadron collider. A cross section measurement provides a probe of the hard scattering dynamics within the proton, and a cross-check of the predictions of its b-quark content, whose parton density function is indirectly extracted from constraints on the gluon density functions. We will present the preliminary results on the measurement of this cross section using an integrated luminosity of 7.0 fb⁻¹ collected with the CDF II detector.

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