

Direct photon production in proton-proton and proton-antiproton collisions

Tomasz Pietrycki

IFJ PAN, Cracow

The inclusive spectra of photons are calculated in the approach based on unintegrated parton distribution functions (UPDF) obtained from different QCD methods.. The results are compared with the world experimental data. Different UPDFs are used. The interplay between soft and hard effects is discussed. The correlations between the photon and an associated parton (mesons) are studied. Both correlations in azimuthal angle as well as in transverse momenta are analysed. Different UPDFs lead to a different correlation pattern. This opens a possibility to verify different UPDF from the literature.

E-mail: Tomasz.Pietrycki@ifj.edu.pl