

Measurement of Triple Differential Photon Plus Jet Cross Section in ppbar Collisions at 1.96 TeV in D0

A measurement of triple differential cross sections for the production of a photon plus a jet is presented for a photon transverse momenta in the range of 20-400 GeV with photon rapidities of $|y^\gamma| < 1.0$ and $1.5 < |y^\gamma| < 2.5$ and four jet rapidities up to $|y^{\text{jet}}| < 3.2$. The results are based on a data sample of 9 fb⁻¹ of integrated luminosity accumulated during June 2006 – September 2011 in ppbar collisions at $\sqrt{s} = 1.96$ TeV and recorded with the DØ detector at the Fermilab Tevatron Collider. The measured triple differential cross section should allow to check a gluon PDF in a wide x - Q^2 kinematical range.

Primary author: VERKHEEV, Alexander (JINR)

Presenter: VERKHEEV, Alexander (JINR)