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Studies of the diffractive photoproduction of isolated photons at HERA

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The photoproduction of isolated photons has been measured using diffractive events recorded by the ZEUS detector at HERA. Cross sections are evaluated in the photon transverse-energy and pseudorapidity ranges 5 < E_T^γ < 15 GeV and
−0.7 < η^γ < 0.9, inclusively and also with a jet with transverse-energy and pseudorapidity in the ranges 4 < E_T^{jet} < 35 GeV and −1.5 < η^{jet} < 1.8, using a total integrated electron-proton luminosity of 456 pb^{-1}. A number of kinematic variables were studied and compared to predictions from the Rapgap Monte Carlo model. An excess of data is observed above the Rapgap predictions for z_{pom}^{meas} > 0.9 where z_{pom}^{meas} is the fraction of the longitudinal momentum of the colourless "Pomeron"exchange that is transferred to the photon-jet final state, giving evidence for direct-Pomeron interactions.

Experimental Collaboration

ZEUS

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