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Photoproduction of isolated photons at HERA

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The photoproduction of isolated photons, both inclusive and together with a jet, has been measured with the ZEUS detector at HERA using an integrated luminosity of 374pb^{-1} . Differential cross sections are presented in the isolated-photon transverse-energy and pseudorapidity ranges $6 < E_{\gamma T} < 15$ GeV and $-0.7 < \eta_{\gamma} < 0.9$, and for jet transverse-energy and pseudorapidity ranges $4 < E_{\text{jet} T} < 35$ GeV and $-1.5 < \eta_{\text{jet}} < 1.8$, for exchanged-photon virtualities $Q^2 < 1$ GeV². Differential cross sections are also presented for inclusive isolated-photon production as functions of the transverse energy and pseudorapidity of the photon. Higher-order theoretical calculations are compared to the results.

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