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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  $5 < E_T^\gamma < 15$  GeV and  $-0.7 < \eta^\gamma < 0.9$ , inclusively and also with a jet with transverse-energy and pseudorapidity in the ranges  $4 < E_T^{jet} < 35$  GeV and  $-1.5 < \eta^{jet} < 1.8$ , using a total integrated electron-proton luminosity of  $456 \text{ pb}^{-1}$ . 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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**Session Classification:** QCD and hadronic physics

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