Contribution ID: **36** Type: **Oral presentation**

Photoproduction of isolated photons, inclusively and with a jet, at HERA

Tuesday, 29 April 2014 10:50 (20 minutes)

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 $374\,\mathrm{pb}^{-1}$.
Differential cross sections are presented in the isolated-photon
transverse-energy and pseudorapidity ranges $6 < E_T^{\gamma} < 15$ GeV and $-0.7 < \eta^{\gamma} < 0.9$, and for jet
transverse-energy and pseudorapidity ranges $4 < E_T^{\mathrm{jet}} < 35$ GeV and $-1.5 < \eta^{\mathrm{jet}} < 1.8$, for exchanged-photon
virtualities $Q^2 < 1$ GeV^2. 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.

Primary author: WING, Matthew (UCL)

Presenter: KUPRASH, Oleg (DESY)

Session Classification: WG4: QCD and Hadronic Final States

Track Classification: WG4: QCD and Hadronic Final States