



Contribution ID: 129

Type: **not specified**

Recent HERA results with very forward neutrons and photons

Thursday, 11 September 2014 16:20 (25 minutes)

Two new analyses exploring different kinematic regimes are presented, based on H1 data collected in the years 2006-2007: inclusive neutron and photon production in DIS and exclusive ρ_0 production associated with forward neutrons in photoproduction. The former reaction is analysed in terms of the Feynman scaling hypothesis and compared to various Monte Carlo models, none of which is able to describe the data in all respects. The latter process is interpreted in terms of a double peripheral process involving pion and Pomeron exchanges. Within the OPE approach the elastic cross section of photon-pion scattering at ≈ 22 GeV is extracted.

Primary author: Dr LEVONIAN, Sergey (DESY)

Presenter: Dr LEVONIAN, Sergey (DESY)

Session Classification: Diffraction in DIS (III)

Track Classification: Diffraction in DIS