

Abstract ID : 806

Multi-Leptons with High Transverse Momentum at HERA

Content :

Events with at least two high transverse momentum leptons (electrons or muons) are studied using the H1 and ZEUS detectors at HERA with an integrated luminosity of 0.94 fb^{-1} . The observed numbers of events are in general agreement with the Standard Model predictions. Seven di- and tri-lepton events are observed in e+p collision data with a scalar sum of the lepton transverse momenta above 100 GeV, while 1.94 ± 0.17 events are expected. Such events are not observed in e-p collisions for which 1.19 ± 0.12 are predicted. Total visible and differential di-electron and di-muon photoproduction cross sections are extracted in a restricted phase space dominated by photon-photon collisions.

Primary authors : Dr. HAAS, Tobias (DESY) ; Dr. KRÜGER, Katja (Universität Heidelberg)

Co-authors : Dr. REISERT, Burkard (Max-Planck Institut für Physik München) ; Dr. GEISER, Achim (DESY) ; Prof. TASSI, Enrico (Universita della Calabria)

Presenter : Dr. HAAS, Tobias (DESY)

Track classification : 02 - The Standard Model and Electroweak Symmetry Breaking ; 04 - Hadronic Structure, Parton Distributions, soft QCD, Spectroscopy

Contribution type : Parallel Session Talk

Submitted by : Mr. HAAS, Tobias

Submitted on Friday 14 May 2010

Last modified on : Friday 14 May 2010

Comments :

These results are presented on behalf of the H1 and ZEUS Collaborations