May 25th 1996
Abstract pa02-085 submitted to the 28th International Conference on High Energy Physics ICHEP'96, Warsaw, Poland, July 1996

Diffractive and Non-diffractive Photo-production of J/ψ Mesons at HERA

H1 Collaboration

Abstract

Elastic photoproduction of J/ψ mesons is studied with the H1 detector. Measurements of the cross-section cover a large range in $W_{\gamma p}$, the centre-of-mass energy of the photon-proton collision. In the framework of certain models, the gluon content of the proton is extracted. The cross-section for inelastic production of J/ψ has been measured with improved accuracy and is compared to calculations for photon-gluon-fusion models. Within the framework of the colour-singlet model, a determination of the gluon density in the proton is made. The results of a search for Υ in H1 are presented.

Plenary Sessions:
2. Soft Interactions and Diffraction Phenomena - S. Levonian
4. QCD and Low x Physics - H. Abramowicz, R. Brock
7. Heavy Flavours - J. Richman, G. Martinelli
Parallel Session: I Strong Interaction Physics
2. Soft Interactions
3. Structure Functions and Low x Physics
4. Hard Processes and Perturbative QCD
5. Production and Decays of Heavy Flavours