Abstract #012345
Parallel sessions: 2,3,4,5
Plenary sessions: 1,2,3,6

Diffractive and Non-diffractive Photo-production of J/ψ Mesons and a search for Υ Production at HERA

H1 Collaboration

Elastic photo-production 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, and allow, in certain models, the gluon content of the proton to be 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 possible. The results of a search for Υ in H1 are presented.