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Elastic Electro-production of J/ψ Mesons at High Q^2 at HERA

H1 Collaboration

Abstract

The elastic electroproduction of J/ψ mesons in the kinematic region $Q^2 > 4$ GeV^2 has been studied with the H1 detector, where the J/ψ is identified via its decay to a lepton pair. Differential cross-sections in the kinematic variables Q^2 (the negative mass-squared of the exchange boson) W (the centre-of-mass energy of the virtual boson-proton collision) and t (the mass-squared of the momentum transfer from the proton) are presented. The decay angular distribution of the decay leptons is measured.

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