Abstract 381
Parallel sessions: 2,3,4
Plenary sessions: 1,2,3

Elastic Electroproduction of ϱ and ϕ Mesons at Intermediate Q^2 at HERA

H1 Collaboration

The total cross sections for the elastic electroproduction of ϱ and ϕ mesons for $\langle W \rangle \simeq$ 90 GeV/c^2 and $1<Q^2<5$ GeV^2 are measured at HERA with the H1 detector. The data were taken in 1995 with a 70 cm shifted vertex position and correspond to an integrated electron$-$proton luminosity of $\sim 115\,\mathrm{nb}^{-1}$. The dependences of the total virtual photon$-$proton $(\gamma^* p)$ cross sections on Q^2, on W, on the momentum transfer squared to the proton (t), and on the polar decay angle $(\cos\theta^*)$, are presented. The ϕ : ϱ cross section ratio is determined.