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First Measurement of Beauty Production at HERA

H1 Collaboration

The $\bar{b}b$ cross section is measured at virtual–photon proton center–of–mass energy $W_{\gamma p} \approx$ 200 GeV using ep interaction data taken with the H1 experiment at HERA. A method based on semi–leptonic decay is used to identify b-decays. The resulting cross section for inclusive b production is determined and compared with the theoretical expectations and with measurements of the light flavour and $\bar{c}c$ production production cross sections.