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Parallel sessions: 7,5
Plenary sessions: 9,7

The First Measurement of Open Beauty Production at HERA

H1 Collaboration, DESY

Two methods for extracting b-quark enriched event samples from the data collected by the H1 detector at HERA are presented, utilising the semi-muonic b-quark decays. The $b\bar{b}$ photo-production cross section is measured for the first time at HERA at a photon-proton centre-of-mass energy of $\sqrt{s_{\gamma p}} \approx 200$ GeV. The result is found to be a factor of five higher than expected according to leading order QCD.