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Charm and beauty production in deep inelastic scattering from inclusive secondary vertexing at ZEUS

Content :

Charm and beauty production in deep inelastic scattering has been measured with the ZEUS detector using the full HERA II data set. The charm and beauty contents in events with a jet have been extracted using the decay length significance and invariant mass of secondary decay vertices. Differential cross sections as a function of Q^2 , Bjorken x , $p_T(\text{jet})$ and $\eta(\text{jet})$ were measured and compared to theoretical predictions. The open charm and beauty contributions to the proton structure function F_2 are extracted.

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Comments :

These results are presented on behalf of the ZEUS Collaboration