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Search for single-top production in ep collisions at HERA

Content :

A search for single-top production, $ep \rightarrow etX$, has been performed with the ZEUS detector at HERA using an integrated luminosity of 277 pb⁻¹. Events from muonic and electronic decay channels of the W boson resulting from the decay of the top quark have been investigated. The search has been made for events with isolated high-energy leptons and high missing transverse momentum. No evidence for top production has been found. The results have been used to constrain single-top production via flavour changing neutral current (FCNC) transitions.

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Comments :

These results are presented on behalf of the ZEUS Collaboration