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Search for events with an isolated high energy lepton and missing transverse momentum at HERA

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A search is performed for events with an imbalance in transverse momentum and with an isolated high energy lepton in electron-proton (e^-p) scattering at HERA. The results are compared to those obtained from the e^+p HERA run where one e^- event and and five $\mu^\pm$ events were found together with evidence for unseen particles carrying tranverse momentum[1]. Three of the six events were found in a region of phase space likely to be populated by the production of W bosons with subsequent leptonic decay. The remaining three events showed kinematic properties which are atypical of all Standard Model processes considered.

Reference for positron-proton scattering

1. H1 Collaboration, C. Adloff *et al*, DESY-98-063 / Eur. Phys. J. C 5 (1998) 4, 575-584