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Antideuteron Production at HERA and Search for Heavy Stable Charged Particles

H1 Collaboration, DESY

A search has been performed for stable heavy charged particles in photoproduction at HERA. A study is based on more than 3×10^6 selected multi-hadronic events, taken by the H1 detector and corresponding to 8 pb^{-1} of integrated luminosity. The rate of antideuteron production has been measured. The properties of the events containing antideuterons are investigated. An upper limit is set for the production of charged particles with masses larger than the deuteron mass.