A Search for Contact Interactions in Neutral Current Scattering at HERA

H1 Collaboration
DESY, Hamburg, Germany

The differential cross section $\mathrm{d}\sigma/\mathrm{d}Q^2$ for the neutral current reaction $e^+p \to e^+X$ has been measured using 1994$\to$1997 data corresponding to an integrated luminosity of 37 pb^{-1} in the H1 experiment at HERA. The measurements extend up to very high momentum transfers of $Q^2 = 30000$ GeV^2. The differential cross section is compared to the Standard Model expectation and analyzed to search for (ee)(qq) Contact Interactions.