

Abstract Submitted
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Measurement of the forward-backward charge asymmetry in $Z/\gamma^* \rightarrow e^+e^-$ events with the D0 detector at the Tevatron SIQI YANG, University of Science and Technology of China, Hefei, D0 COLLABORATION — We present a measurement of the forward-backward charge asymmetry for dielectrons produced via an intermediate Z/γ^* boson with mass between 50 and 1000 GeV, using about 10 fb^{-1} of data collected by the D0 detector in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV. The extraction of the weak mixing angle $\sin^2 \theta_{eff}^W$ and of the couplings of light quarks to the Z boson are also presented.

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