Abstract #126
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Measurement of A_c from Inclusive Charm Tagging

The SLD Collaboration

We present a measurement of the parity-violating parameter A_c in $e^+e^- \to Z^0 \to c\bar{c}$ events with the SLD detector at the SLC. We use 50,000 Z^0's produced with a mean electron-beam polarization of $|P_e| = 63\%$ and 100,000 Z^0's produced with $|P_e| = 77\%$. In this measurement, charm quarks are tagged by an inclusive mass tag based on topological vertexing. We obtain efficiencies of 20% for charm events, with a purity of 75%. The charge of the final state is obtained from a combination of vertex charge, kaon and lepton information. The expected statistical precision for this measurement is $\delta A_c \sim \pm 0.07$.