Electroweak measurements with heavy quarks at SLD

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Abstract

The SLD detector collects data at the Z^0 resonance using the SLC e^+e^- colliding beams. Polarized electron beams and small SLC interaction region together with the unique CCD vertex detector provide an outstanding opportunity for testing the electroweak part of the standard model, especially at the heavy quark sector. Experiment overview and physics outline are shown. Improved measurements of heavy quarks electroweak parameters, like A_b, A_c, R_b, and R_c are presented. Measurements are based on approximately 400k hadronic Z^0 events, including data from the SLC most recent 1997–98 run.