New results in B physics at SLD

David Jackson

Rutherford Appleton Laboratory
SLD Collaboration

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Abstract

Results in B physics from a sample of 400,000 hadronic Z^0 decays collected by the SLD experiment at the SLC between 1993 and 1998 will be presented. The precise 3D pixel vertex detector at SLD and the highly polarised SLC electron beam are exploited by the analyses. The results include a new limit on the B_s oscillation frequency Δm_s, the worlds statistically most precise measurement of the lifetimes of the B^+ and B^0 mesons and a search for the process $B \to sg$.