Abstract #133
Parallel sessions: 7
Plenary sessions: 6

A Measurement of the Tau Lifetime at SLD

The SLD Collaboration

We report an updated measurement of the τ lifetime using three techniques: impact parameter, impact parameter difference and decay length. The measurement was performed using a sample of 1500 τ pair events collected with the SLD at the SLC during the 1996 run with the improved SLD CCD pixel vertex detector. The measurements benefits from SLD excellent tracking and vertexing resolution and the small stable SLC beams. Combined with our 1993-95 measurements we obtain $\Delta\tau_\tau = \pm 5$ fs.