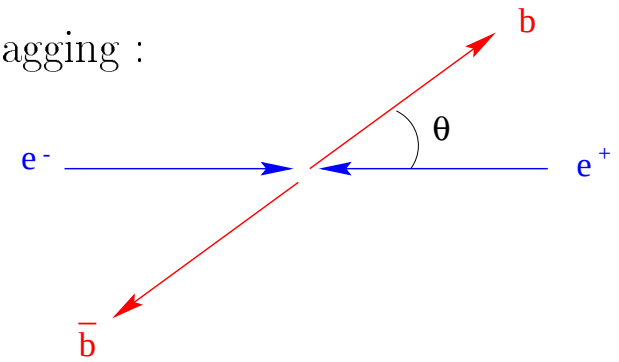
ℓ / $Q_{jet}\mathcal{P}$ from SLD

Initial state tagging :



$$G_{\mathcal{P}} = \frac{(1+P_e A_e)(1+\cos\theta^2)+2A_b(P_e+A_e)\cos\theta}{2(1+P_e A_e)(1+\cos\theta^2)}$$

+Jet charge tagging

$\Big\}$ → Mistag probability ∼ 20%

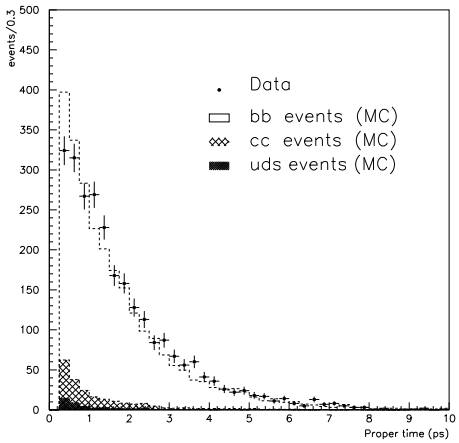


Figure 7: Proper time distribution for data (points) and reconstructed Monte Carlo events (solid).

$$\Delta m_{\rm d} = .520 \pm .072 \pm .035\ {\rm ps}^{-1}$$

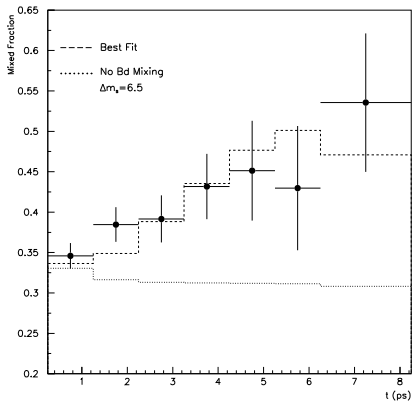


Figure 8: Mixed fraction as a function of proper time for data (points) and the best fit curve assuming $B_d^0 - \overline{B}_d^0$ mixing (solid) as well a curve representing the case with no B_d^0 mixing (dashed). For the dashed curve, B_s^0 mixing was assumed with $X_s = 10$.