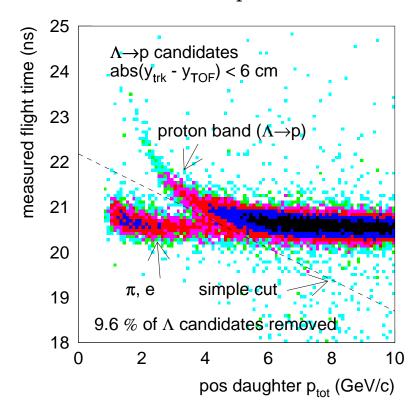
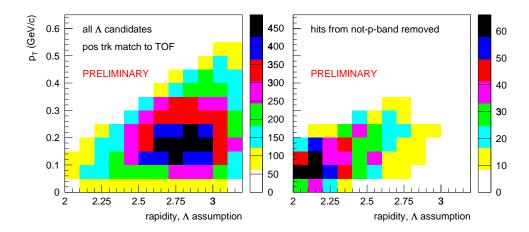
TOF PID Separation



Use TOF to remove $\Lambda \to p$ candidates whose positive daughter's measured flight time is not consistent with a proton hypothesis

Simple TOF PID cut removes 9.6 % of E896 Λ candidates (i.e. ~ 10 % of Λs in previous analyses <u>not</u> really $\Lambda s!$)



- background concentrated at lowest rapidities in the acceptance
- $\sim \frac{1}{3}$ of background vertices are clearly K_S ; $\sim \frac{2}{3}$ from other processes