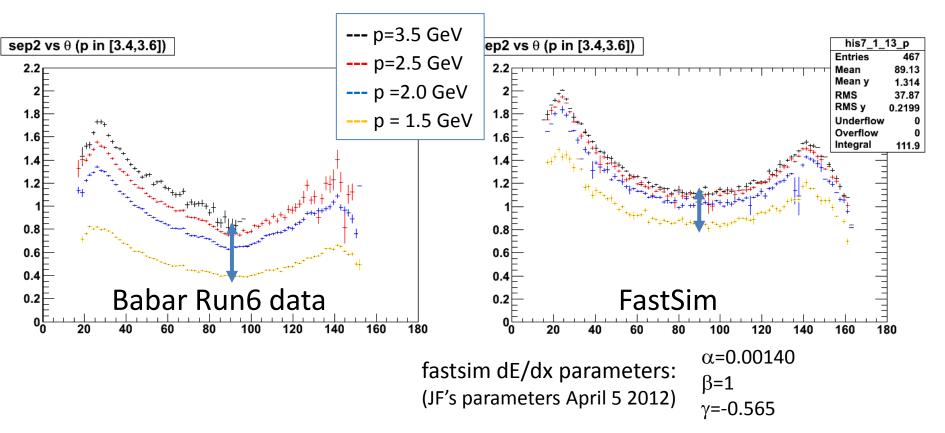
addition to dE/dx Babar vs fastsim discussion

M. Rama 5 April 2012

pi/K separation Babar vs fastsim

separation = |dEdx_expected(pion)-dEdx_expected(kaon)|/dEdx_error



Calibrating based on a specific p value (for example 3.5 GeV) does not give a satisfactory agreement in the other p regions

pi/K separation vs fastsim

- discrepancy between Babar and fastsim pi/K separation probably dominated by different position of no-separation point
 - ➔ in this situation a precise calibration of the dE/dx fastsim parameters is not useful
 - just a reasonable choice of the parameters is enough

- Alternative approach:
 - try to translate the measured value of dE/dx(p) in fastsim by ∆p~250 MeV to match the point of no K/pi separation with the one measured in Babar
 - tune the dE/dx error parameters after the shift
- It may be worth a try

