

X(2000) production

Includes hadronic interactions and decays

$$\begin{aligned}\gamma p &\rightarrow X^0(2000) p \\ &\rightarrow b_1(1235) \pi^- \\ &\quad \rightarrow \omega \pi^+ \\ &\quad \quad \rightarrow \pi^0 (\pi^+ \pi^-) \\ &\quad \quad \quad \rightarrow \gamma \gamma\end{aligned}$$

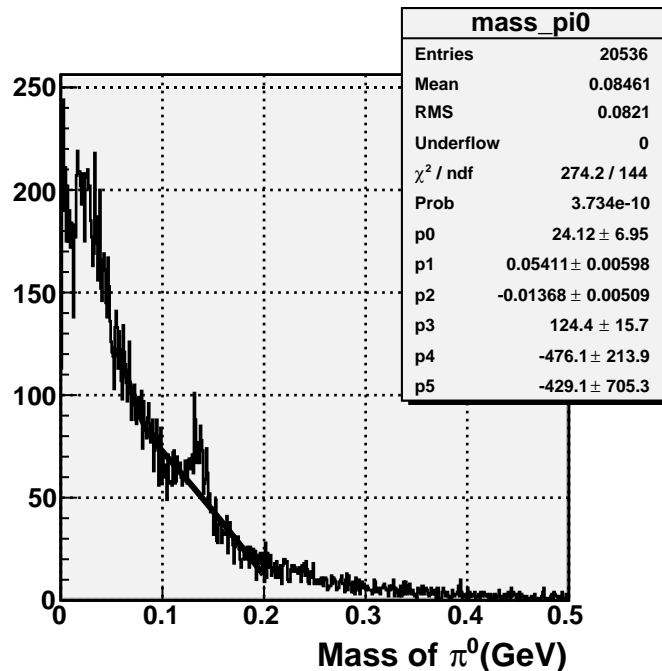
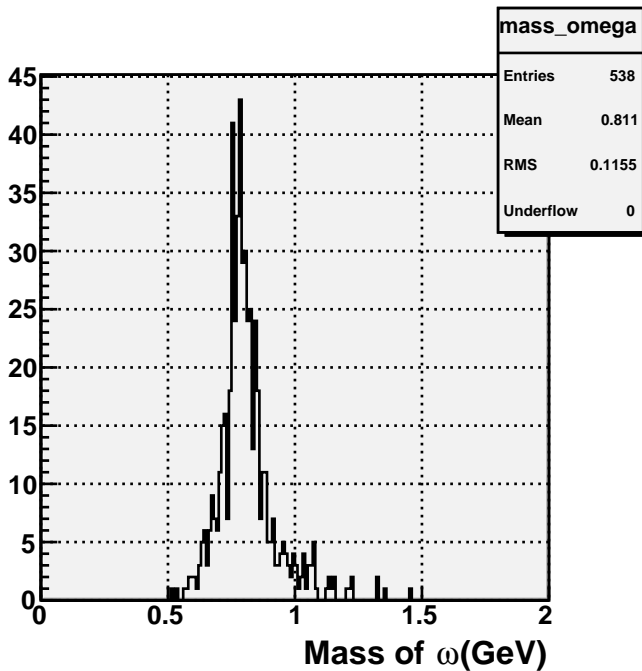
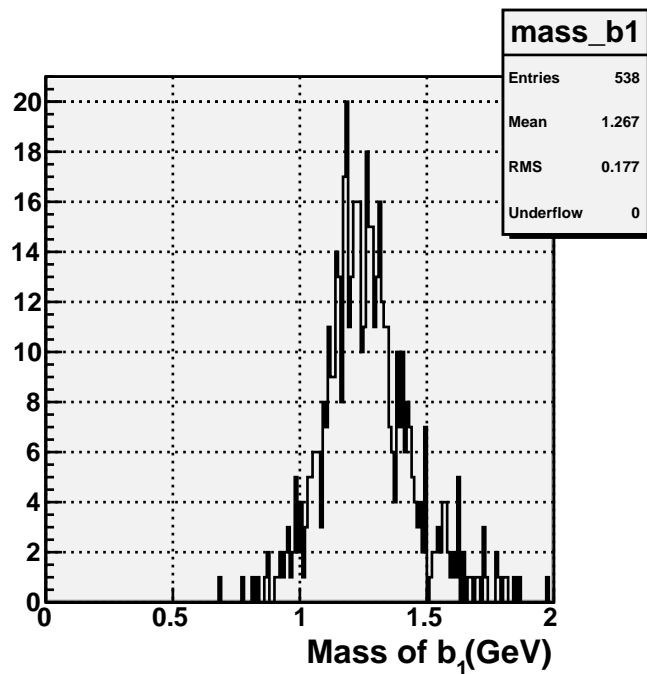
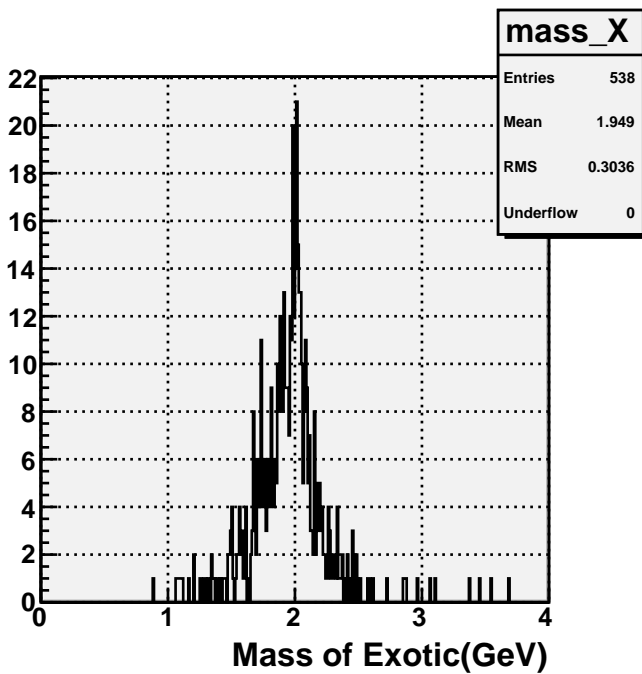
genr8 :

$$E_\gamma = 9 \text{ GeV}$$

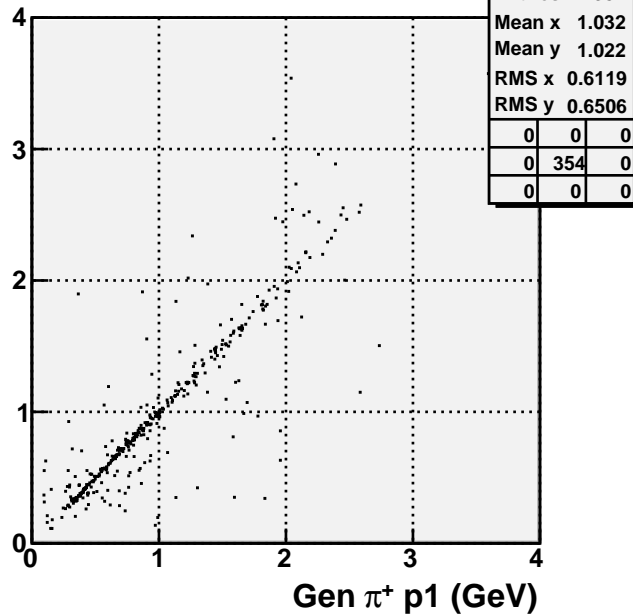
$$b = 5 \text{ GeV}^{-2}$$

$$\gamma p \rightarrow 2\pi^+ 2\pi^- \gamma \gamma p$$

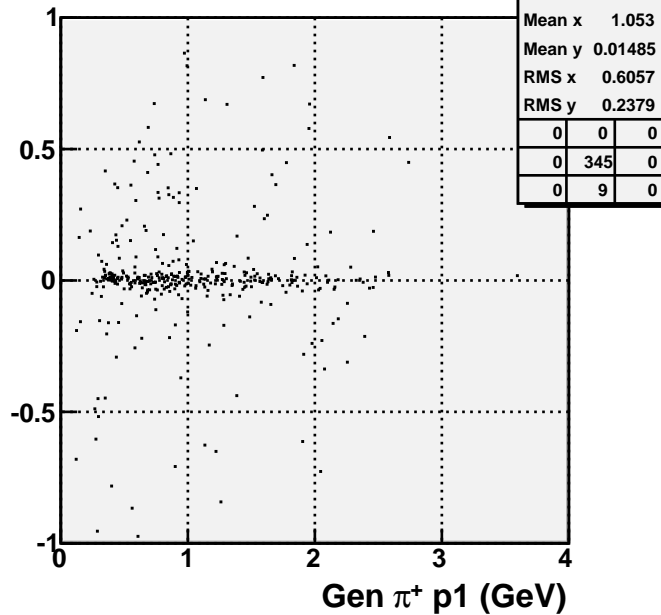
Nominal reconstruction "out of the box" for charged particles
Reconstruction of showers includes merging code in Fcal from David



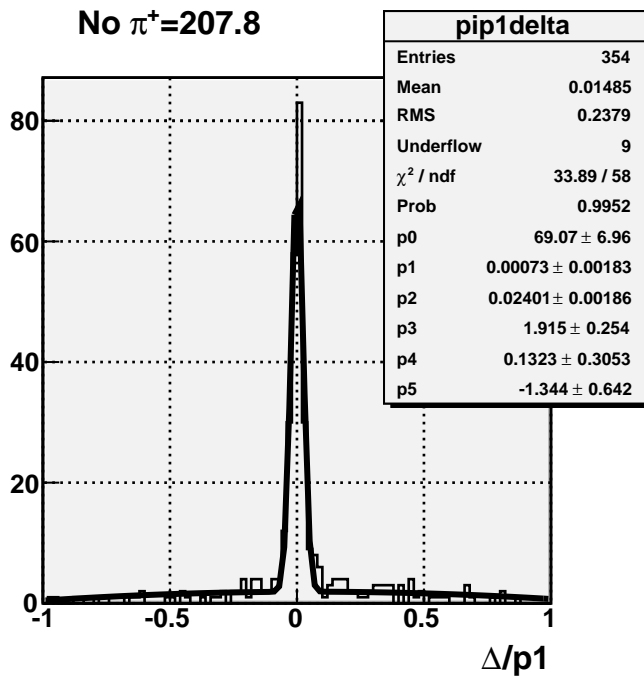
Recons π^+ p1 (GeV)



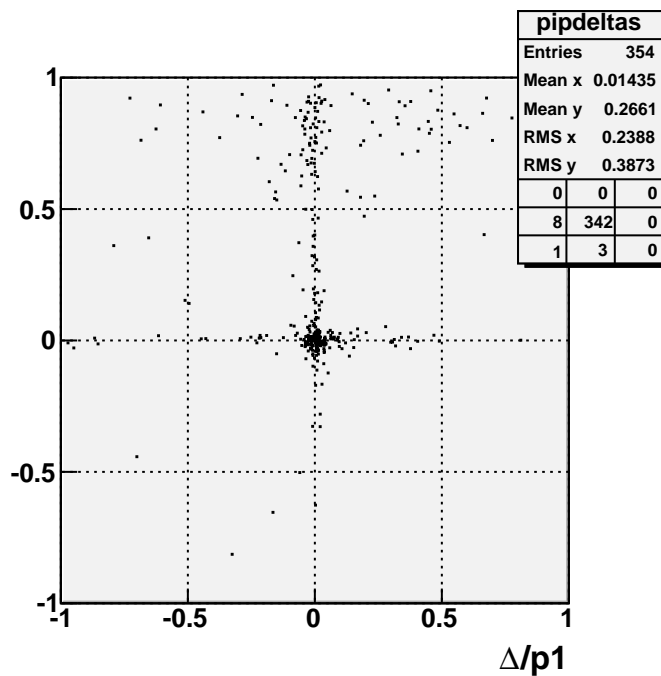
$\Delta/p1$



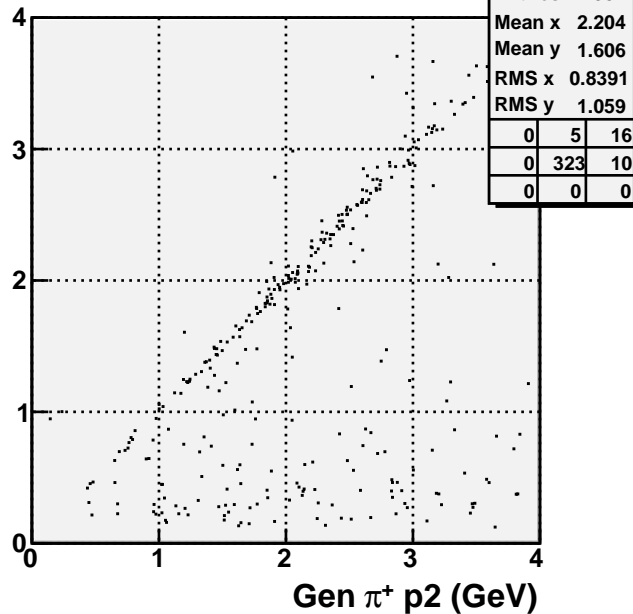
No π^+ =207.8



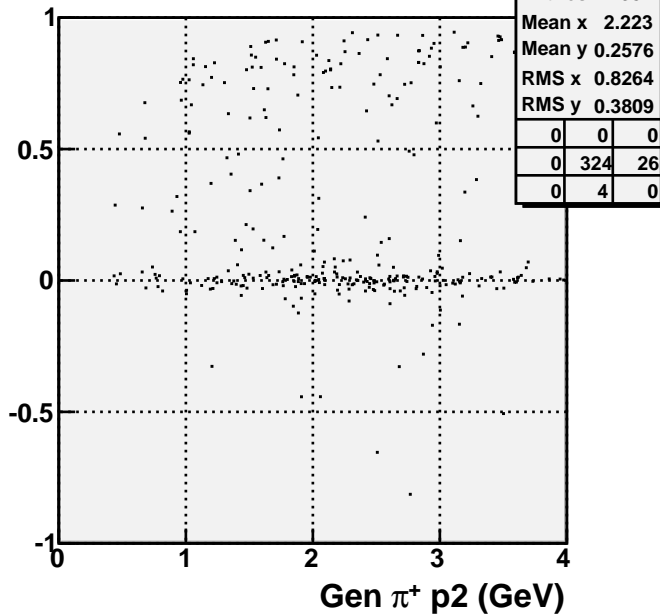
$\Delta/p2$



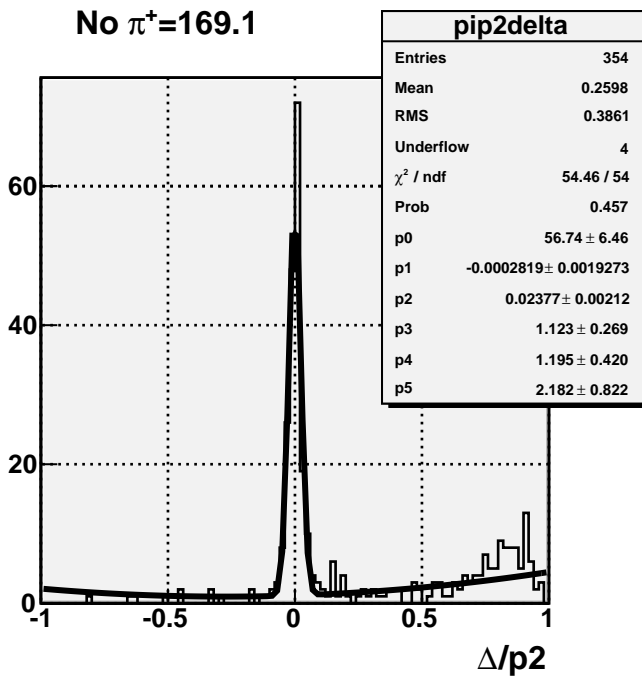
Recons π^+ p2 (GeV)



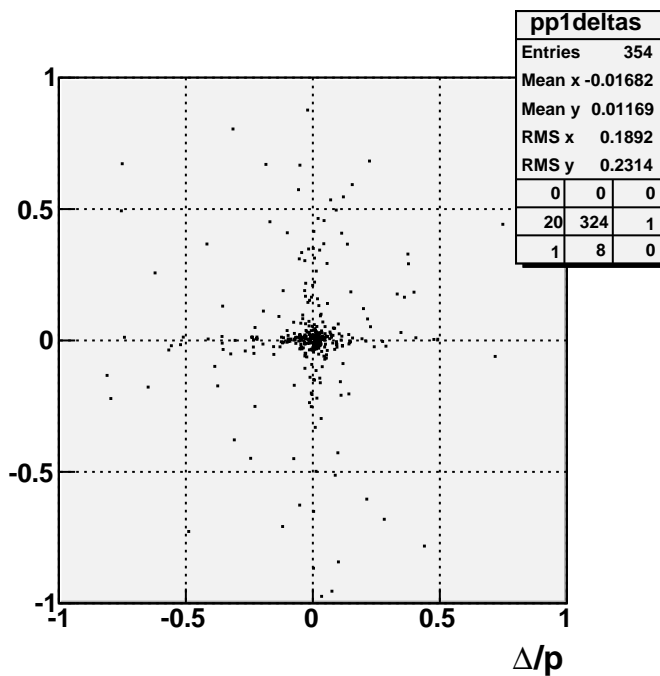
$\Delta/p2$



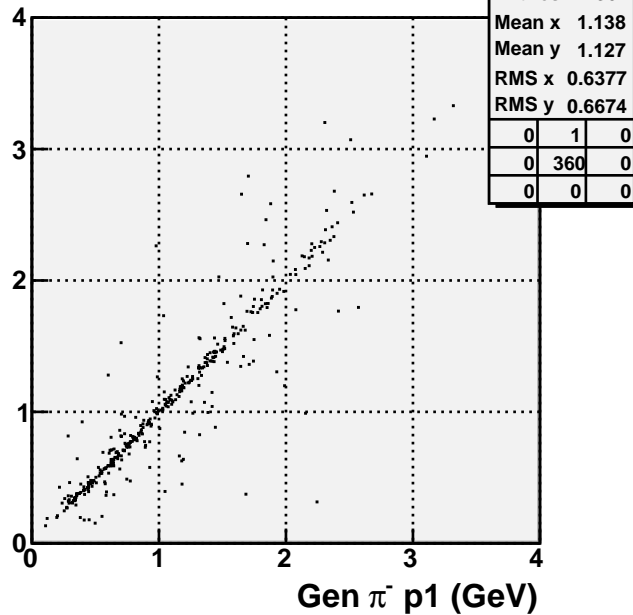
No π^+ =169.1



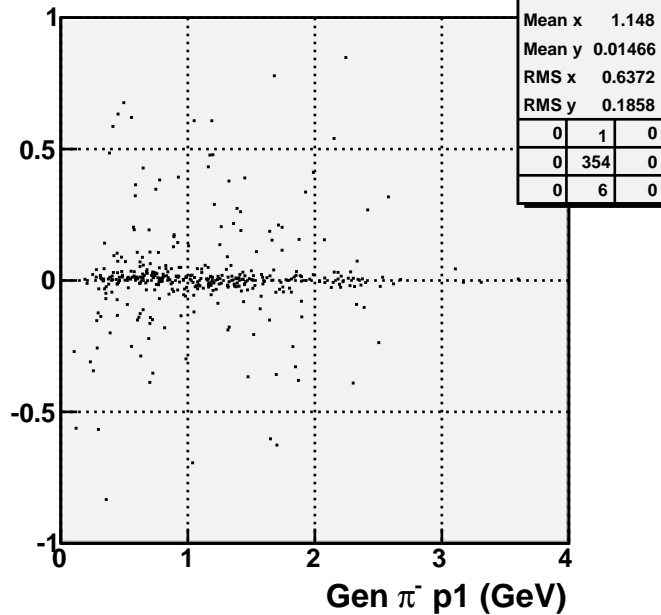
$\Delta/p1$



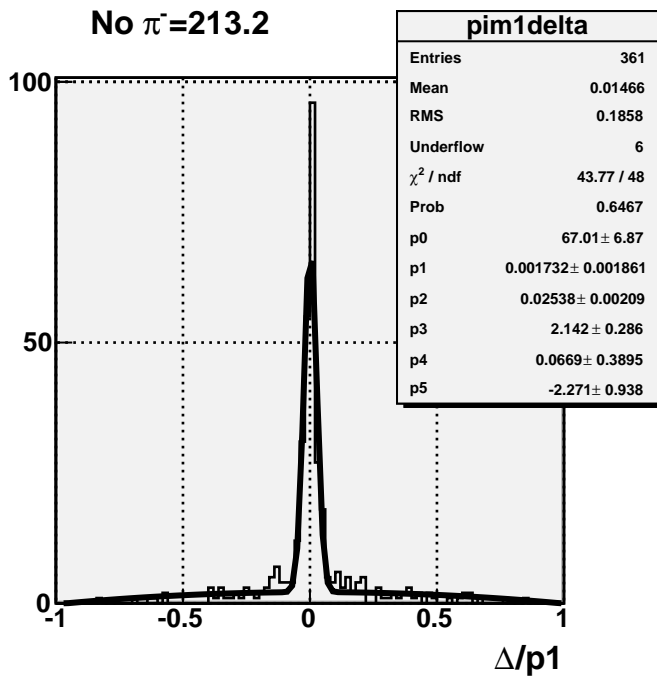
Recons π^- p1 (GeV)



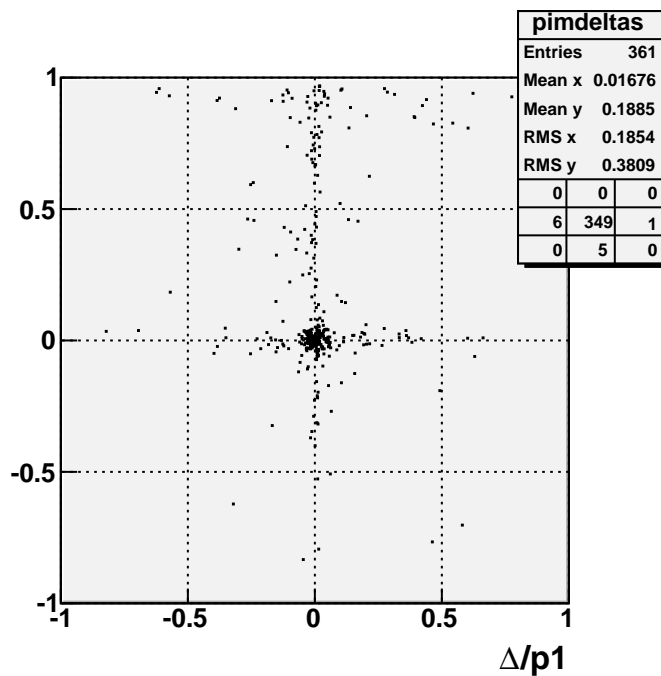
$\Delta/p1$



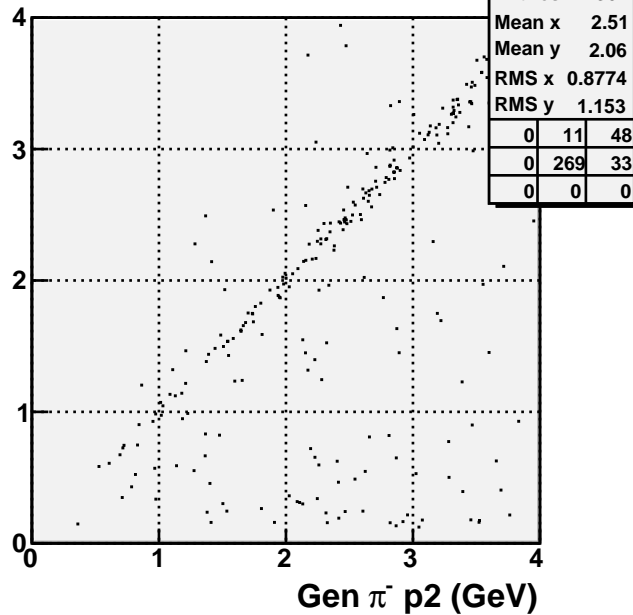
No π^- =213.2



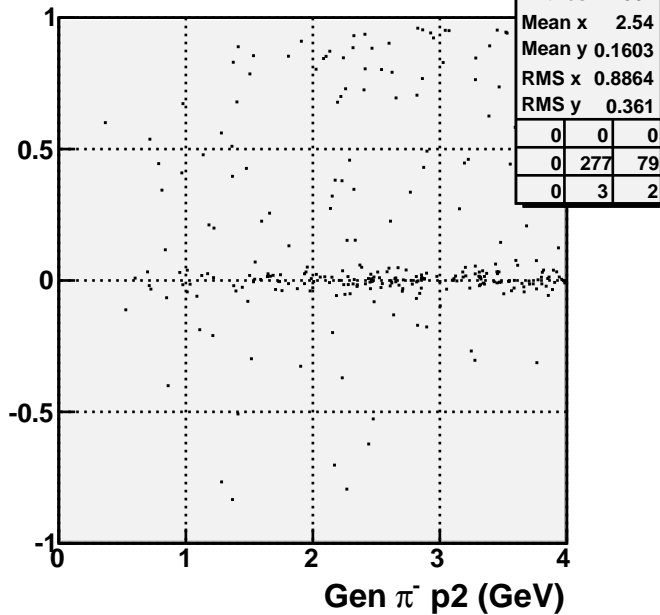
$\Delta/p2$



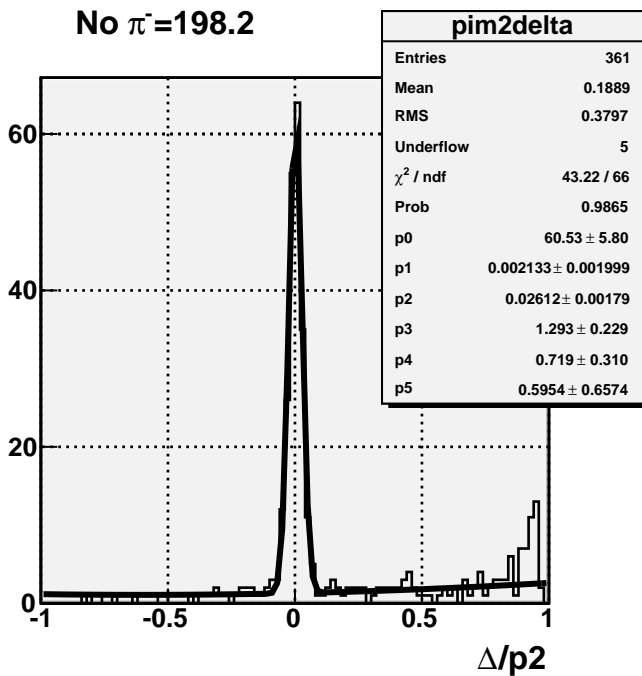
Recons π^- p2 (GeV)



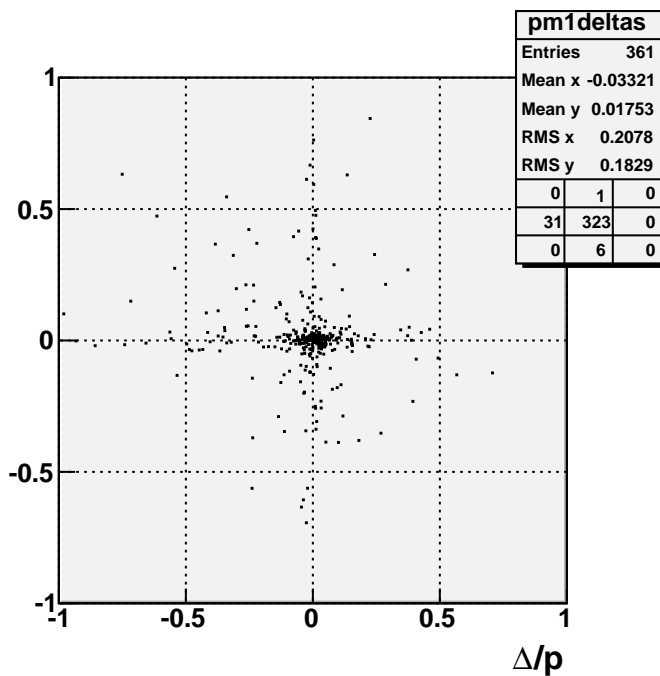
$\Delta/p2$



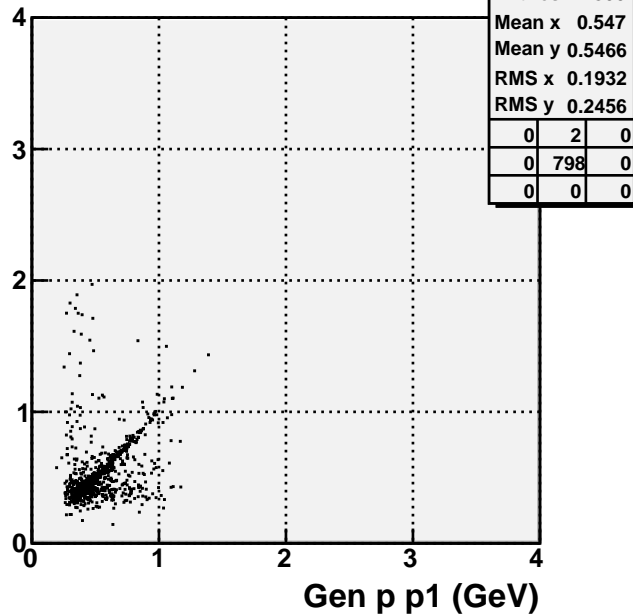
No π^- =198.2



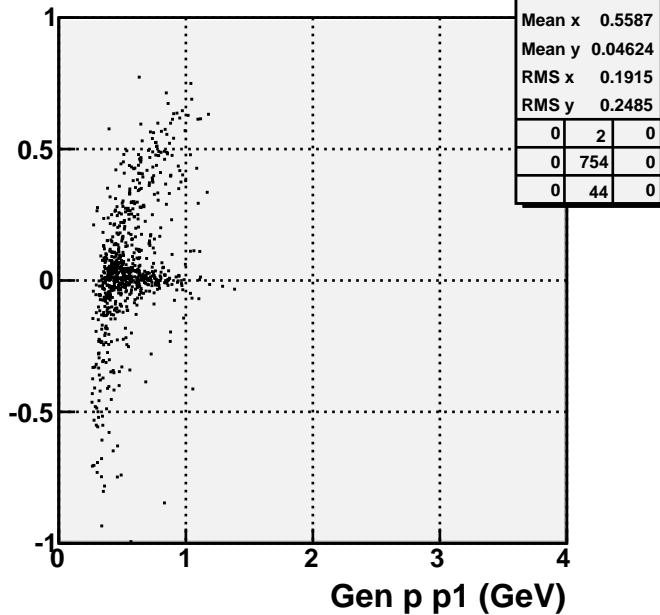
$\Delta/p1$



Recons p p1 (GeV)



$\Delta/p1$



No p=388.6

