

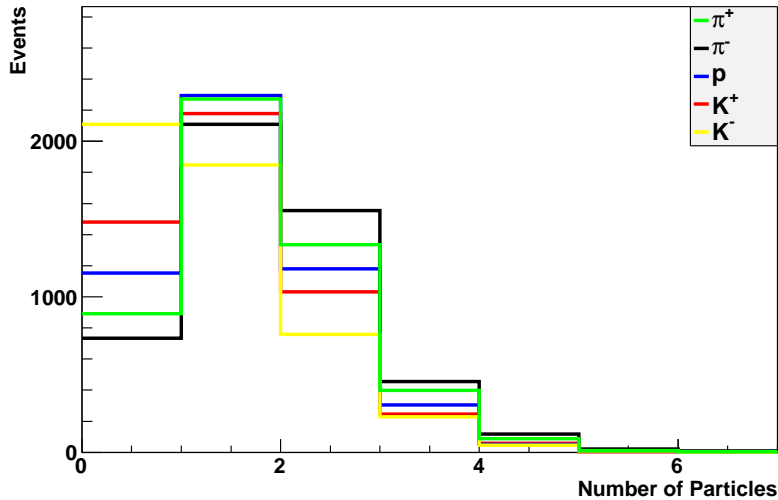
# K0K+pi-ggp plots

Nathan Sparks

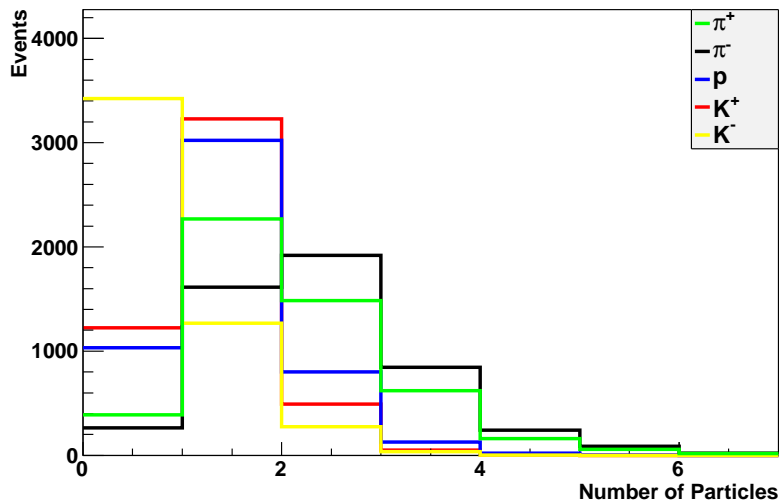
Florida State University, Tallahassee, Florida

GlueX Physics Meeting  
09/27/2010

# Normal PID



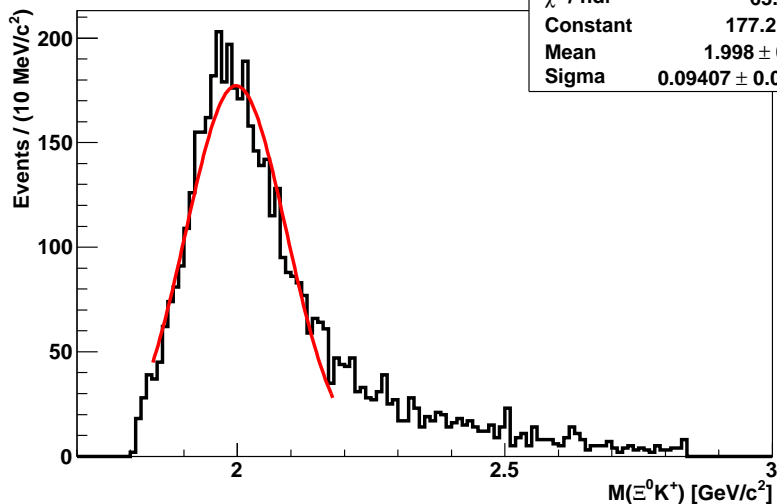
# PID Force Truth



# PID Force Truth

Thrown Mass of Excited  $\Upsilon$  Baryon

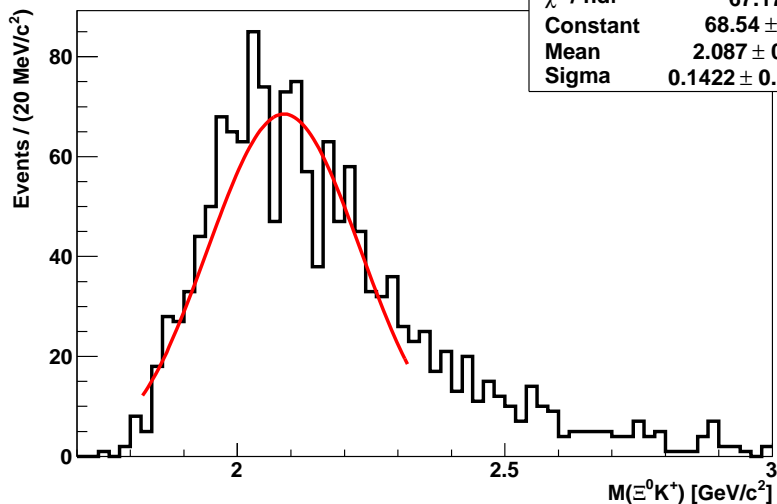
Integral	5000
$\chi^2 / \text{ndf}$	63.3 / 31
Constant	$177.2 \pm 3.9$
Mean	$1.998 \pm 0.002$
Sigma	$0.09407 \pm 0.00203$



# PID Force Truth

Mass of Excited  $\Sigma$  Baryon

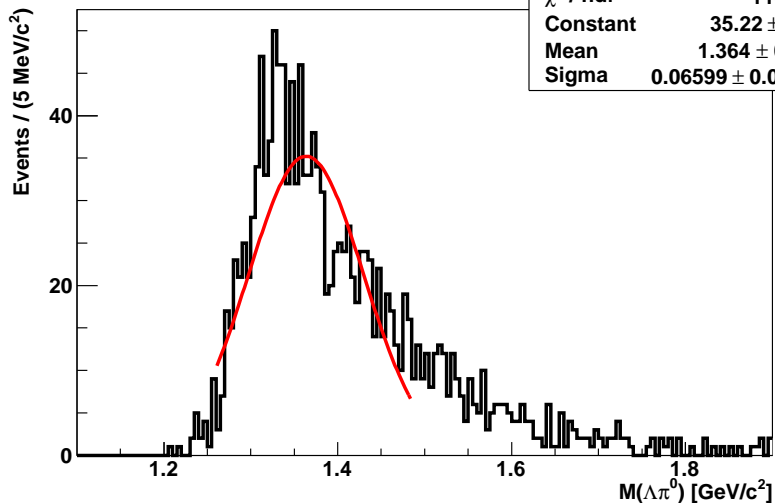
Integral	1477
$\chi^2 / \text{ndf}$	67.17 / 22
Constant	$68.54 \pm 2.66$
Mean	$2.087 \pm 0.006$
Sigma	$0.1422 \pm 0.0054$



# PID Force Truth

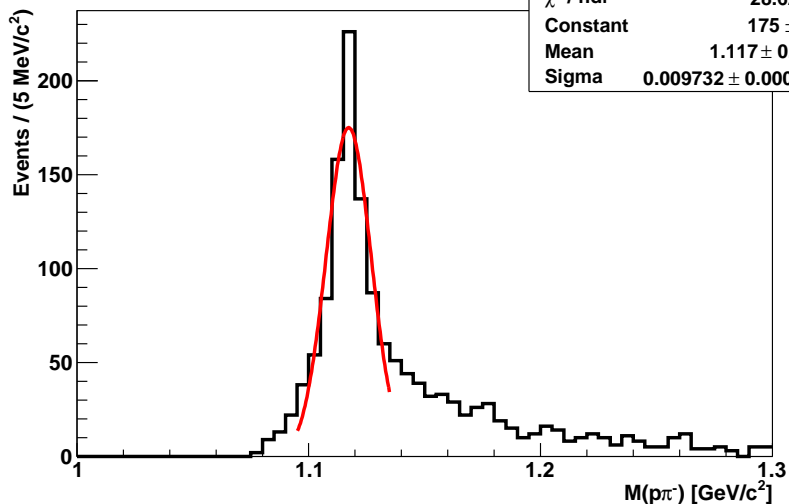
Mass of  $\Xi^0$  Baryon

Integral	1479
$\chi^2 / \text{ndf}$	110 / 42
Constant	$35.22 \pm 1.50$
Mean	$1.364 \pm 0.003$
Sigma	$0.06599 \pm 0.00292$



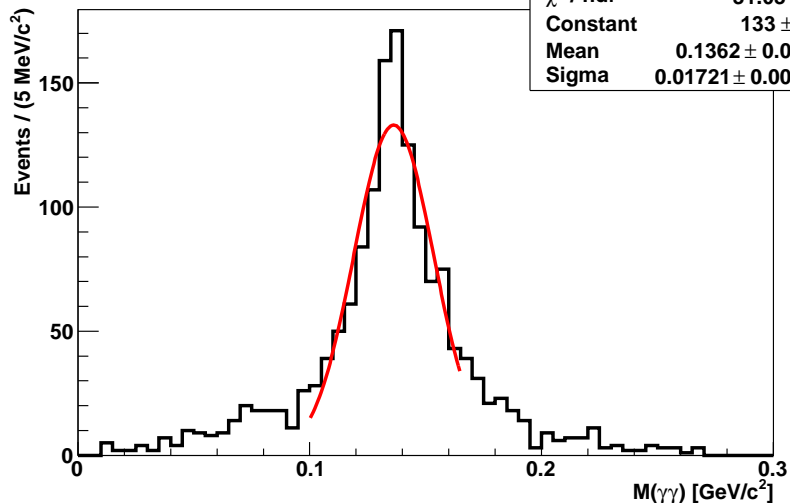
# PID Force Truth

Mass of  $\Lambda$  Baryon



# PID Force Truth

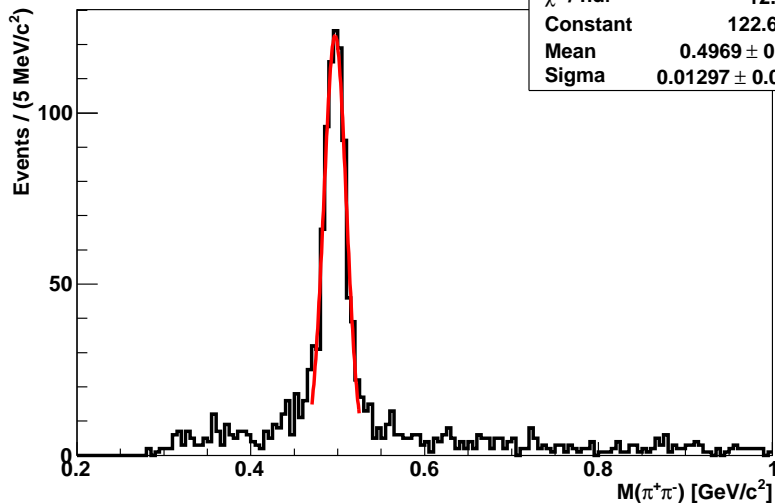
Mass of  $\pi^0$  Meson





# PID Force Truth

Mass of  $K_s$  Meson

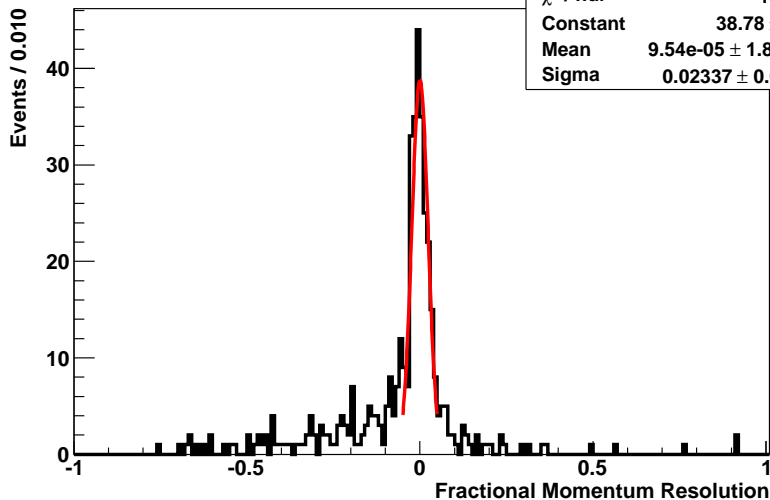


Integral	1373
$\chi^2 / \text{ndf}$	12.52 / 8
Constant	$122.6 \pm 6.1$
Mean	$0.4969 \pm 0.0005$
Sigma	$0.01297 \pm 0.00054$

# PID Force Truth

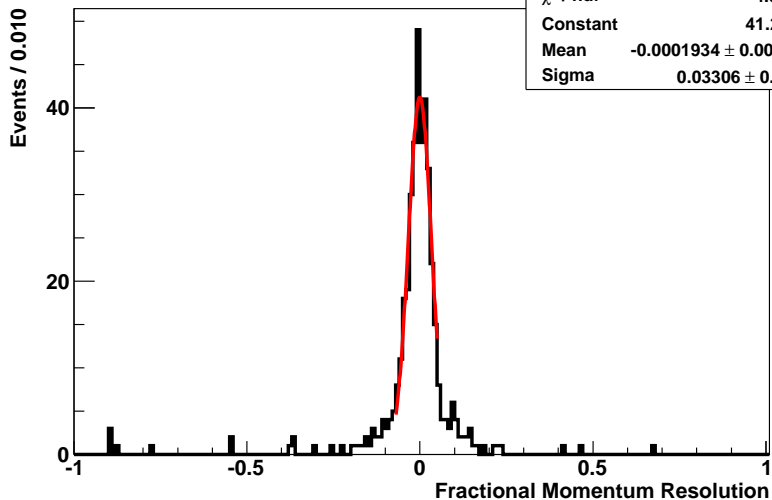
**K<sup>+</sup> from Excited Y Decay**

Integral	403
$\chi^2 / \text{ndf}$	13.2 / 7
Constant	$38.78 \pm 3.59$
Mean	$9.54\text{e-}05 \pm 1.82\text{e-}03$
Sigma	$0.02337 \pm 0.00180$



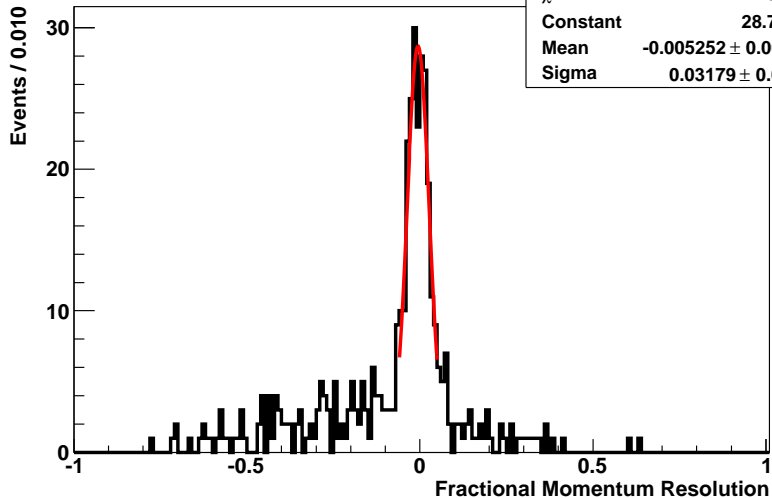
# PID Force Truth

$\pi^+$  from  $K_s$  Decay



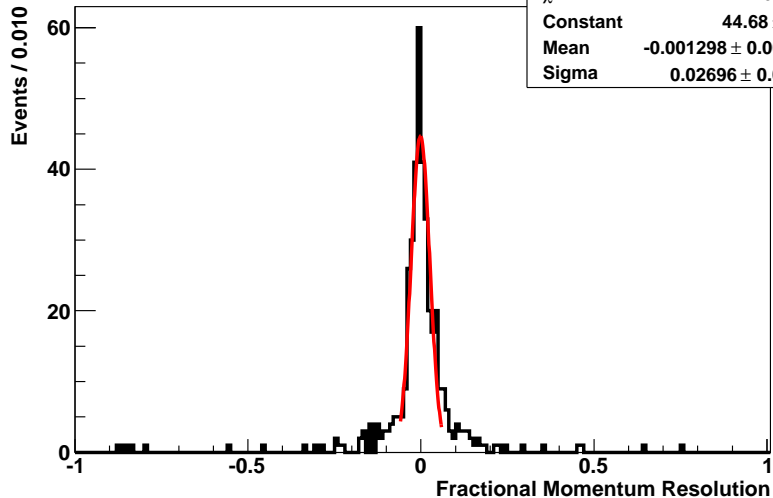
# PID Force Truth

Proton



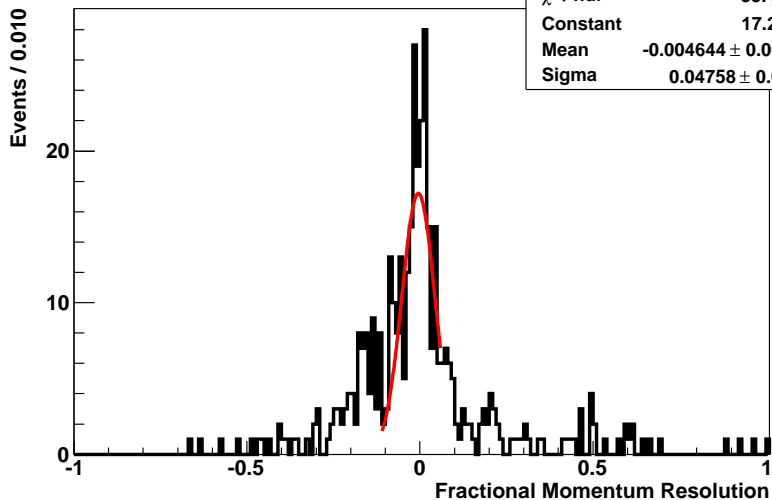
# PID Force Truth

$\pi^-$  from  $K_s$  Decay

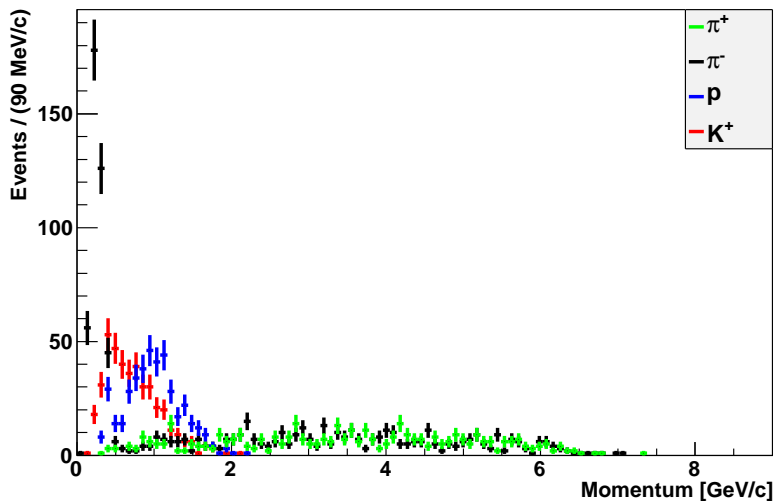


# PID Force Truth

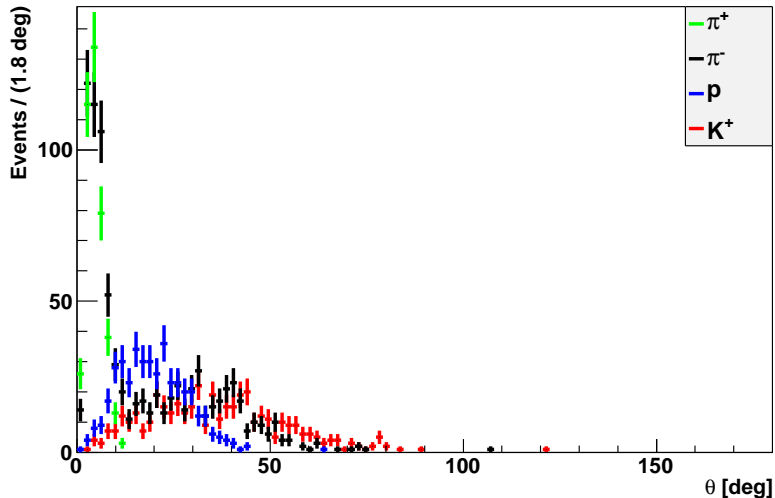
$\pi^-$  from  $\Lambda$  Decay



## PID Force Truth: Accepted Momentum Dist.

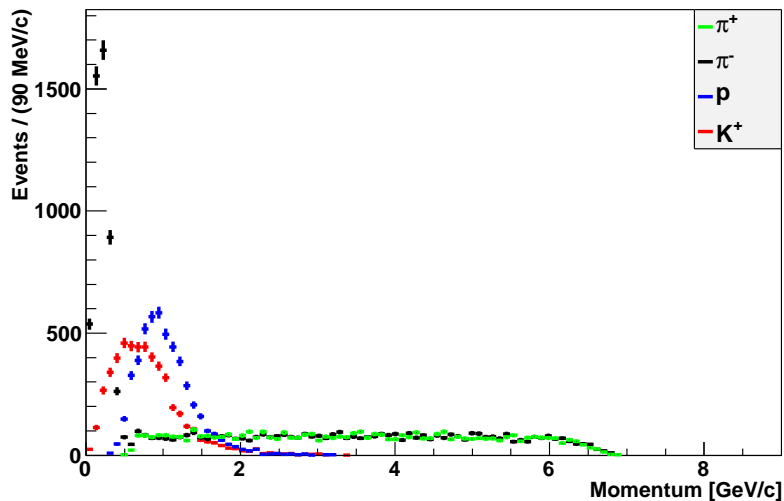


## PID Force Truth: Accepted Theta Dist.

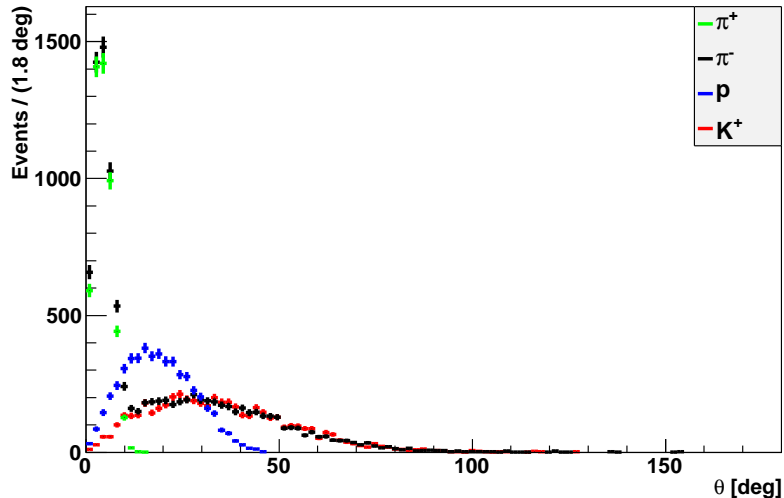




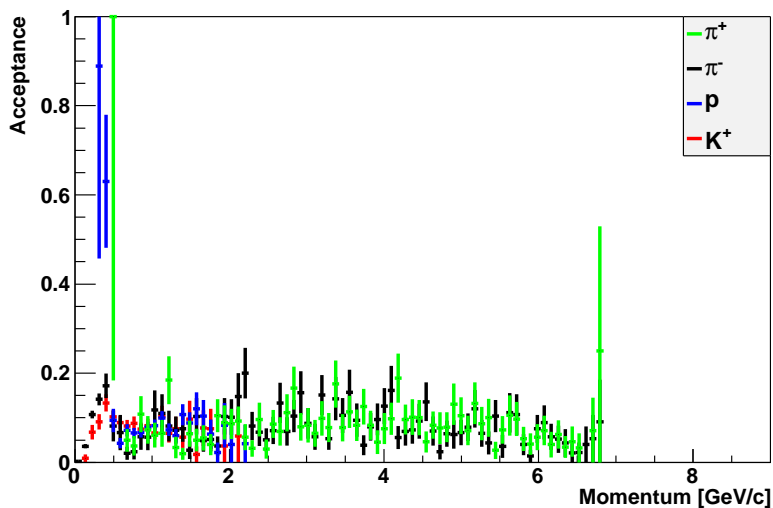
## PID Force Truth: Generated Momentum Dist.



## PID Force Truth: Generated Theta Dist.



# PID Force Truth: Acceptance in Momentum



# PID Force Truth: Acceptance in Theta

