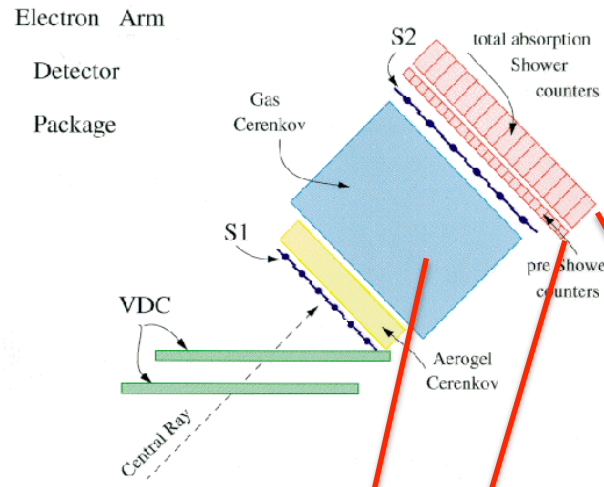


Right_gmp_21880	Right_gmp_21889	Right_gmp_21897
Right_gmp_21881	Right_gmp_21890	Right_gmp_21898
Right_gmp_21882	Right_gmp_21891	Right_gmp_21900
Right_gmp_21883	Right_gmp_21892	Right_gmp_21901
Right_gmp_21884	Right_gmp_21893	Right_gmp_21903
Right_gmp_21885	Right_gmp_21894	Right_gmp_21904
Right_gmp_21886	Right_gmp_21895	Right_gmp_21905
Right_gmp_21887	Right_gmp_21896	Right_gmp_21906

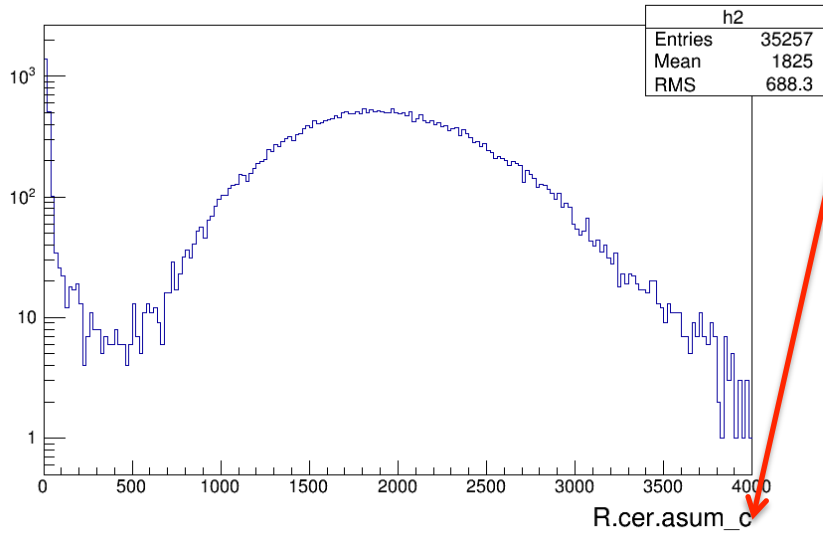
Target 15 cm LH2  
 $E_{\text{beam}}$  4.481 GeV  
 $P_0$  1.547 GeV  
 Theta 52.91 degree  
 $Q^2$  5.5 GeV<sup>2</sup>

Acceptance Cut

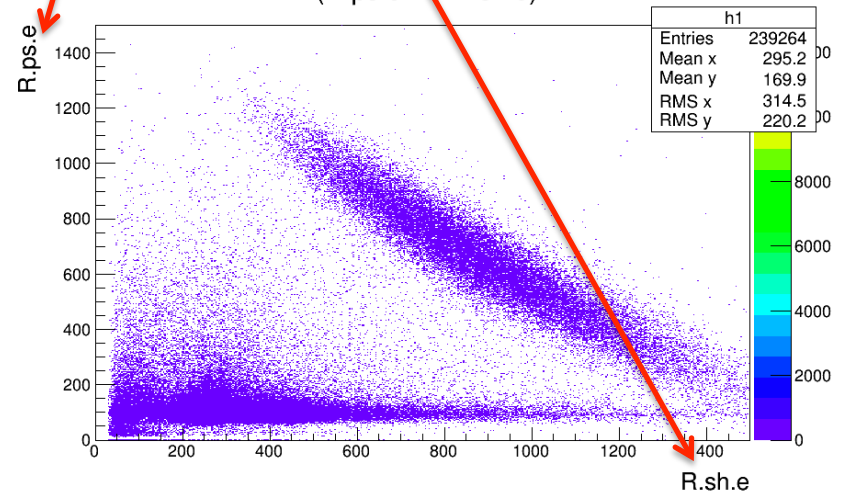
$Z$   $\pm 0.09$   
 $\tan(\theta)$   $\pm 0.075$   
 $\tan(\varphi)$   $\pm 0.05$   
 $\Delta p$   $\pm 0.05$



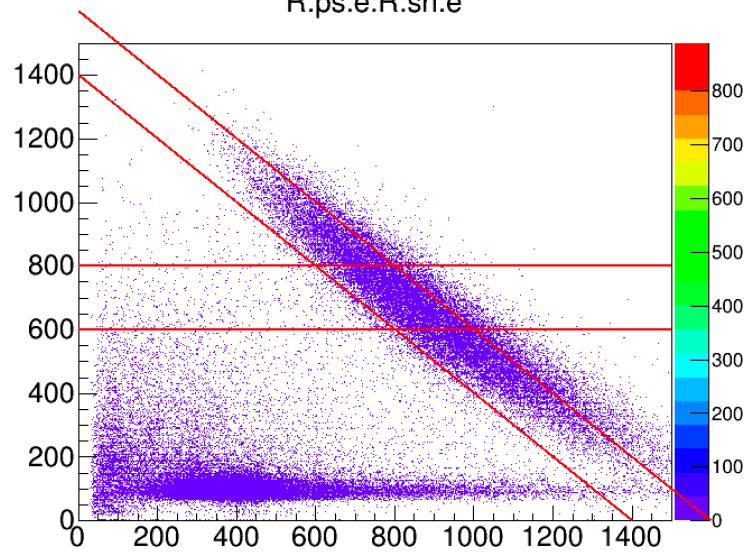
cut2: R.cer.asum\_c > 1000



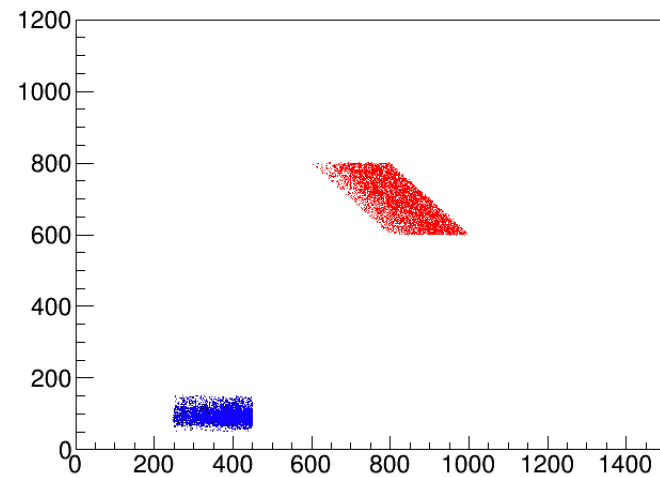
(R.ps.e VS R.sh.e)



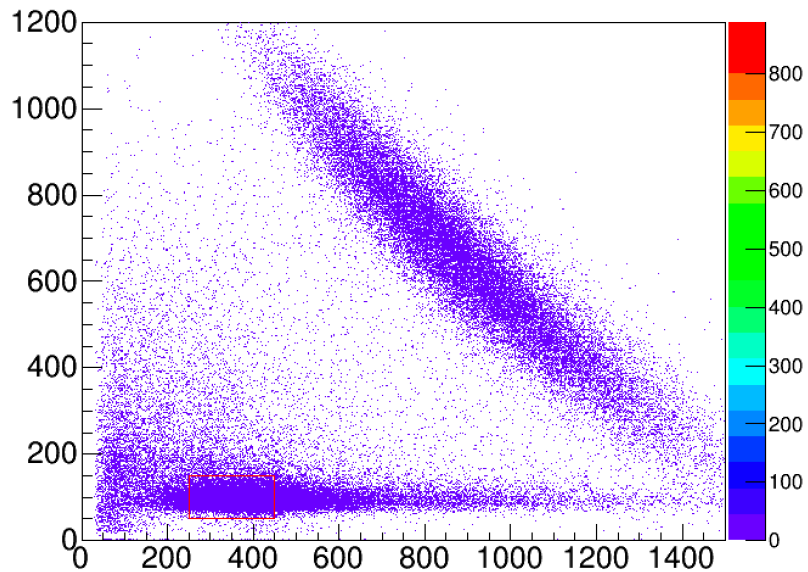
R.ps.e:R.sh.e

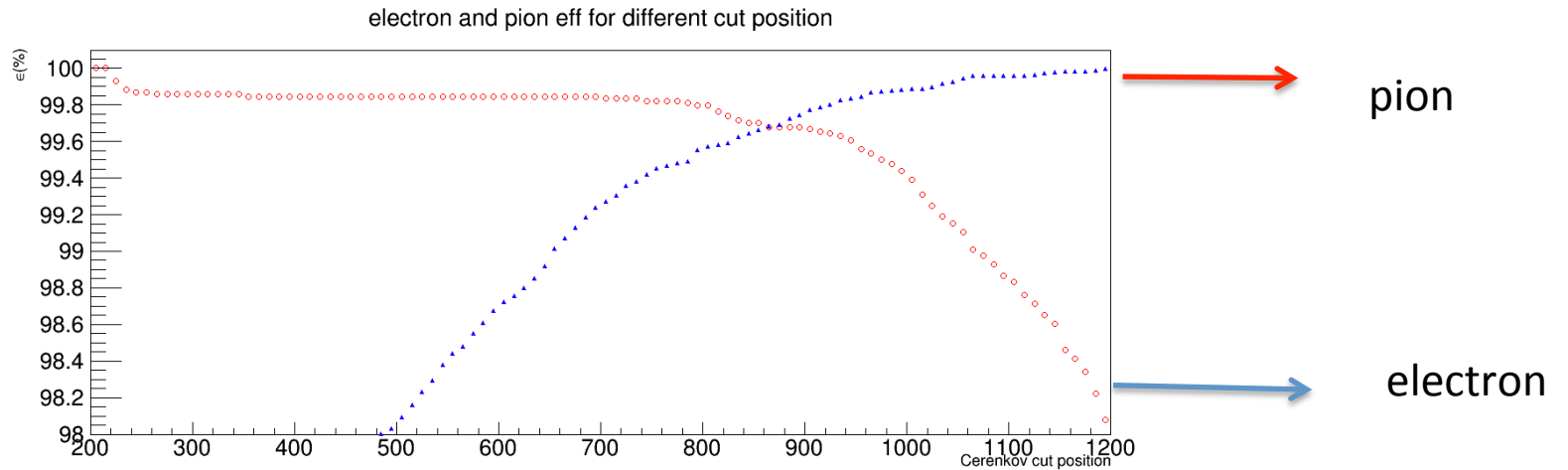
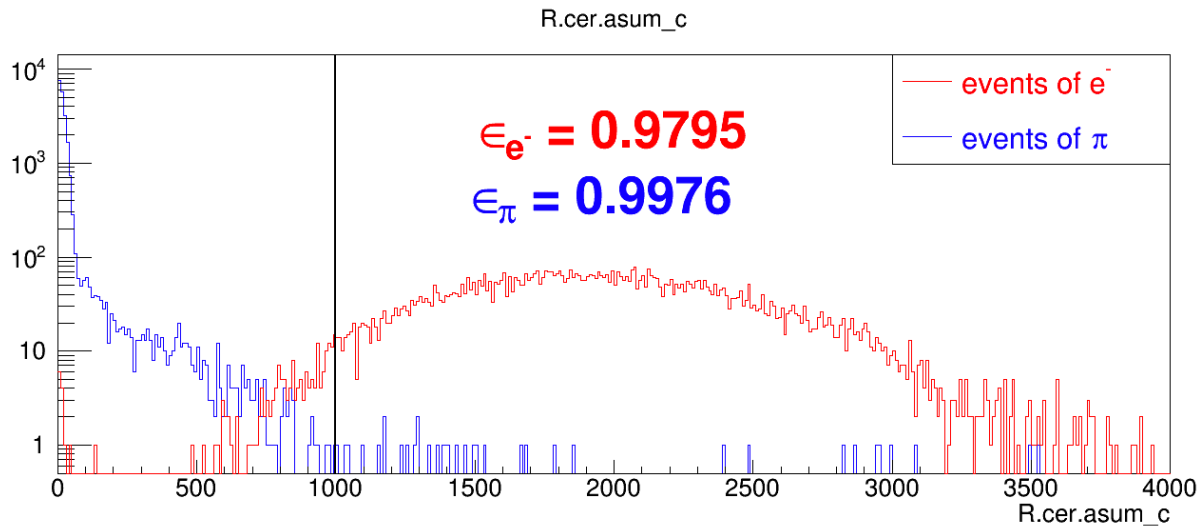


he

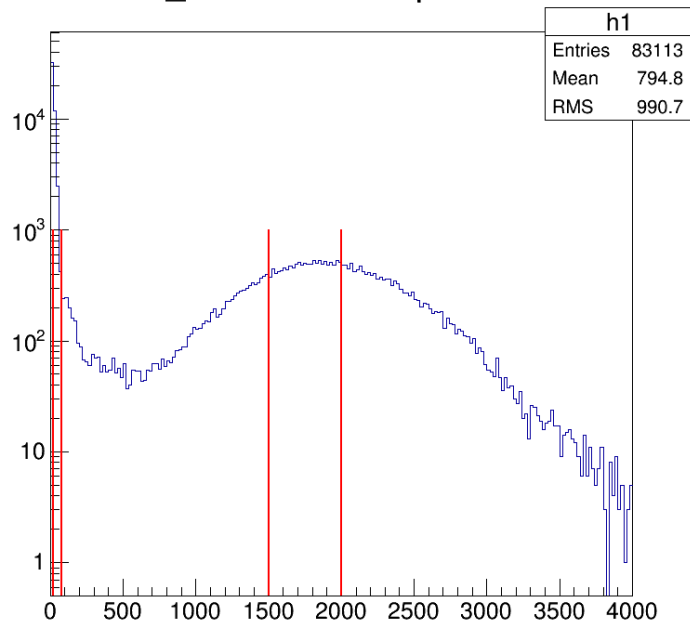


R.ps.e:R.sh.e

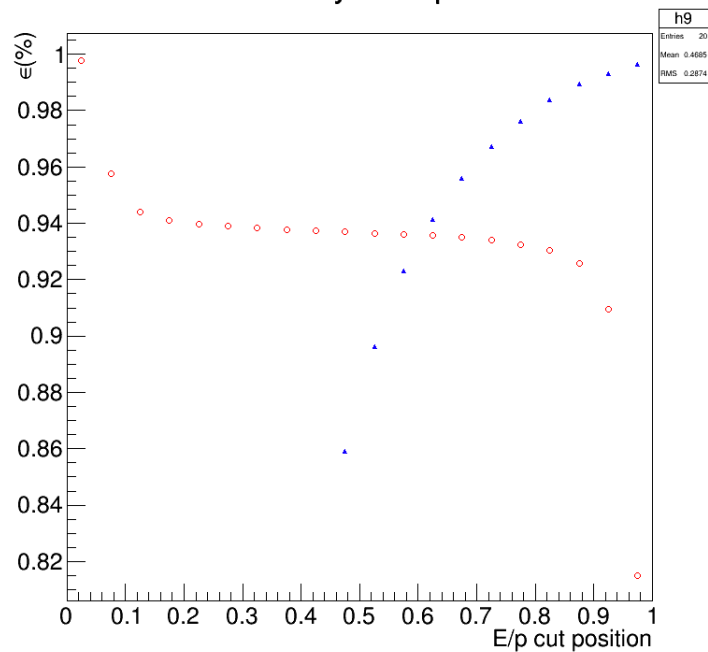
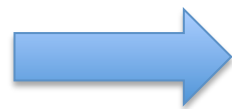
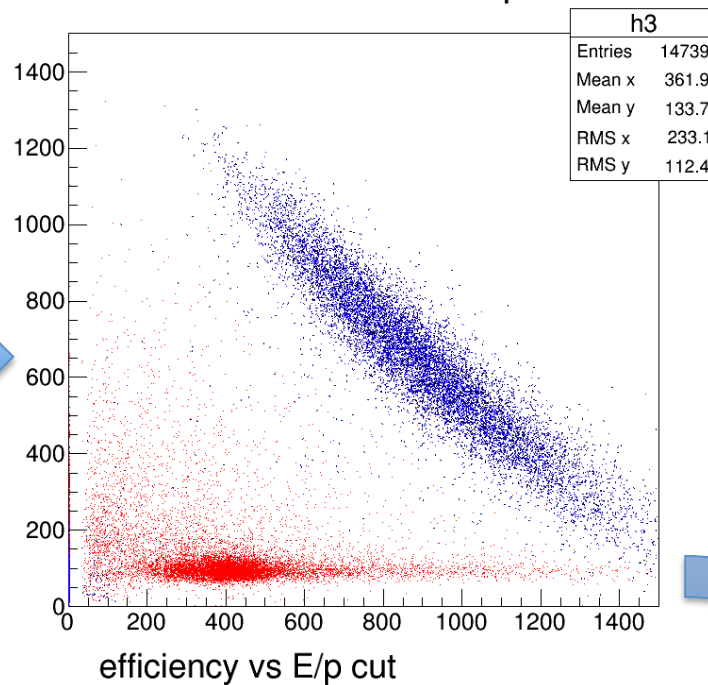


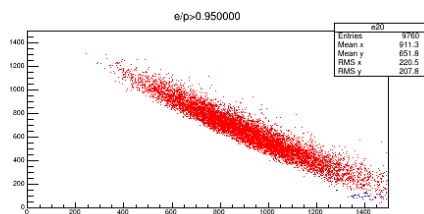
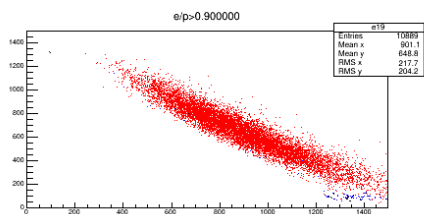
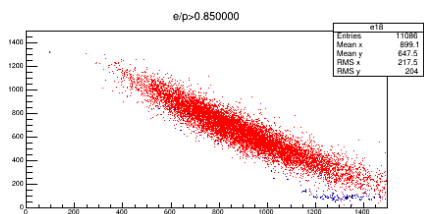
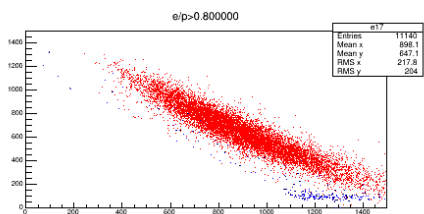
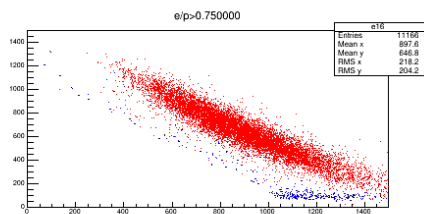
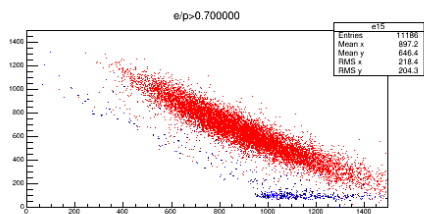
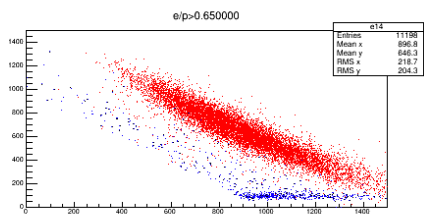
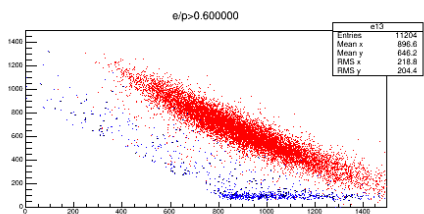
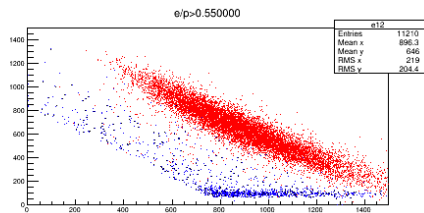
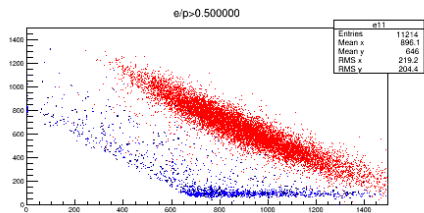
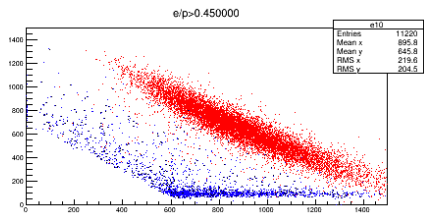
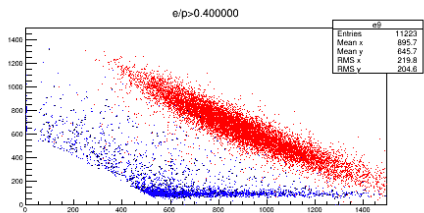
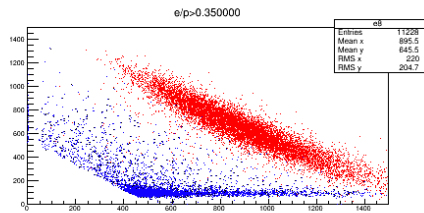
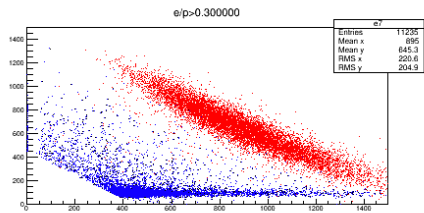
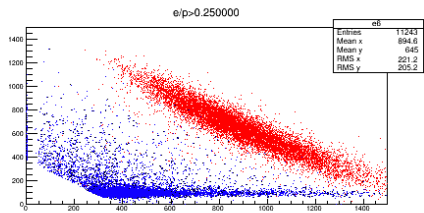
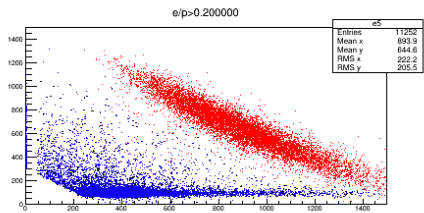
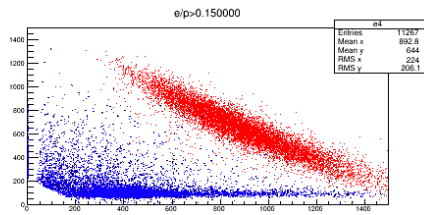
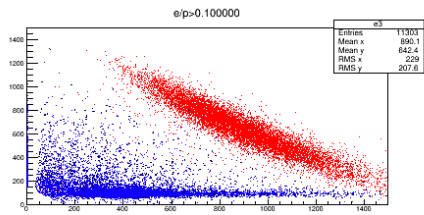
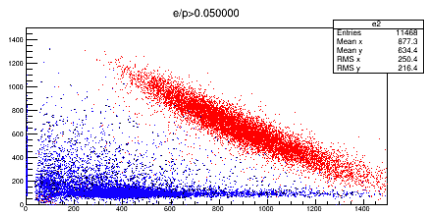
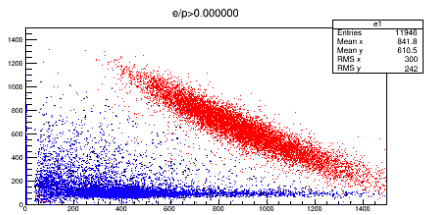


Cer\_asum with acceptance cut



Electron and Pion samples





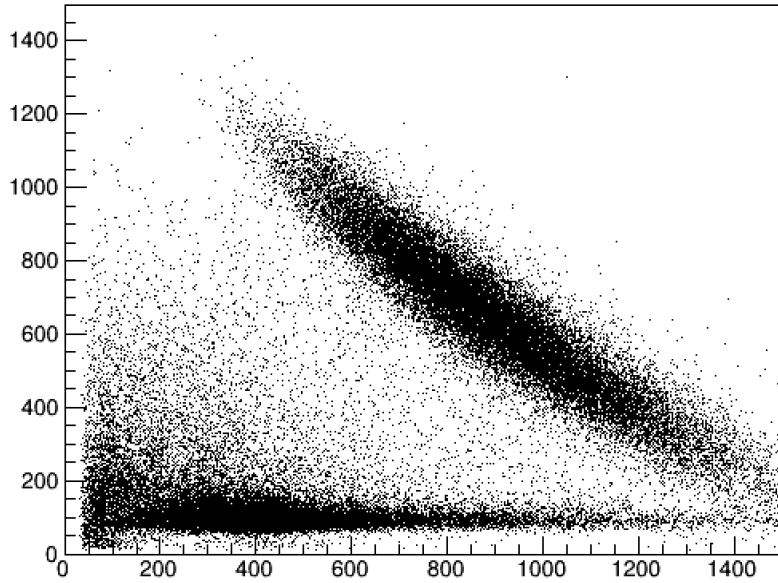
take  $(\text{cer\_asum} > 500) \&\& (E/p > 0.7)$  as an example

	cer	E/p
$\varepsilon_e$	0.9983	0.9342
$\varepsilon_\pi$	0.9904	0.9671

$$\varepsilon_e = \varepsilon_e^{\text{cer}} \times \varepsilon_e^{\text{cal}}$$

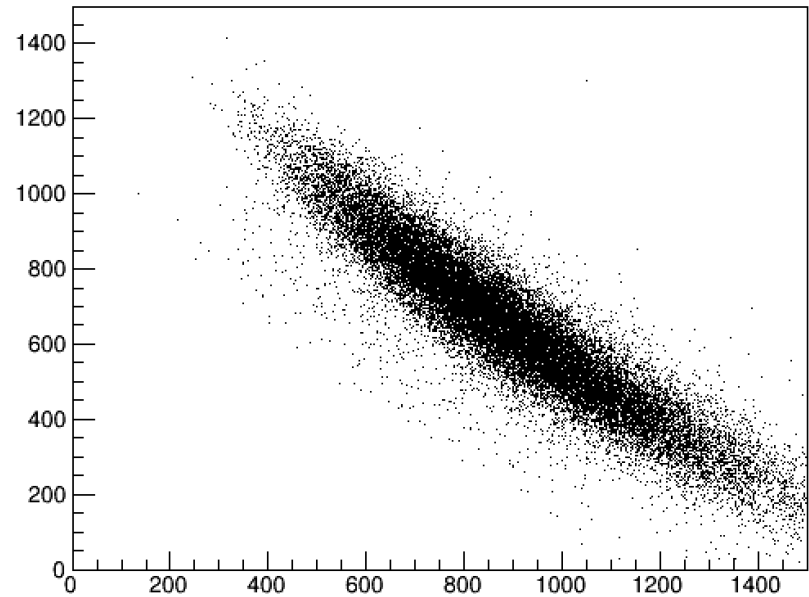
$$\varepsilon_\pi = 1 - (1 - \varepsilon_\pi^{\text{cer}}) \times (1 - \varepsilon_\pi^{\text{cal}})$$

## Just acceptance Cut



$$N_i = e_i + \pi_i$$

## Acceptance+cer+cal



$$N_f = e_f + \pi_f$$

$$(\pi/e)_i = 1.71$$

$$(\pi/e)_f = 0.07$$