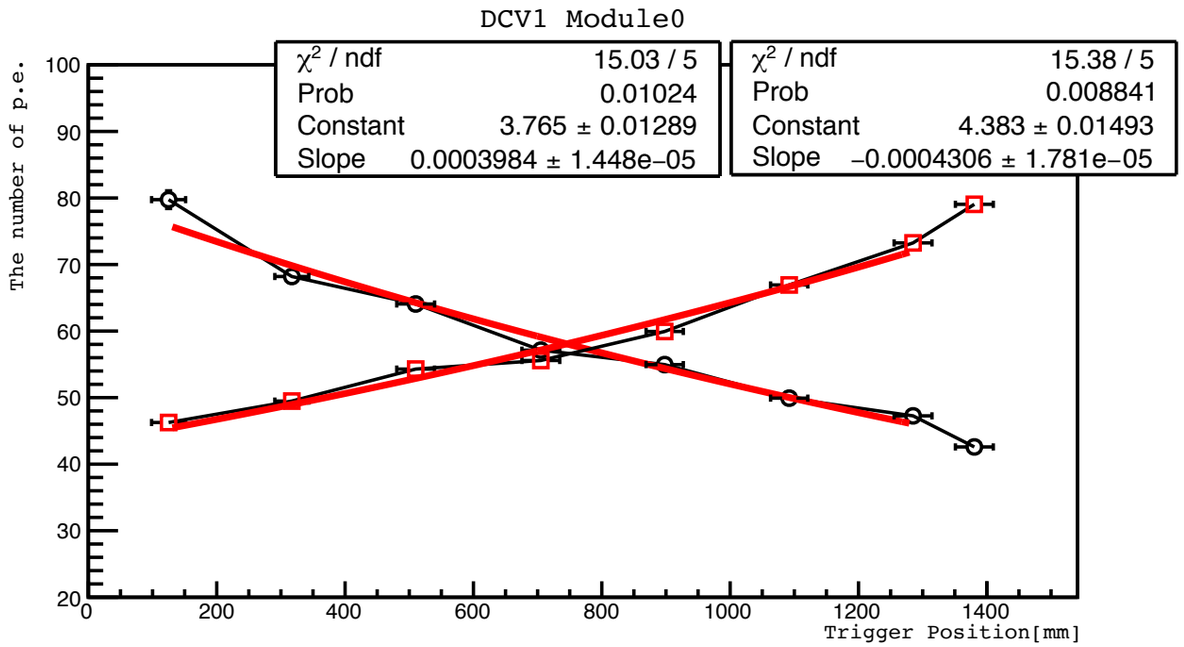
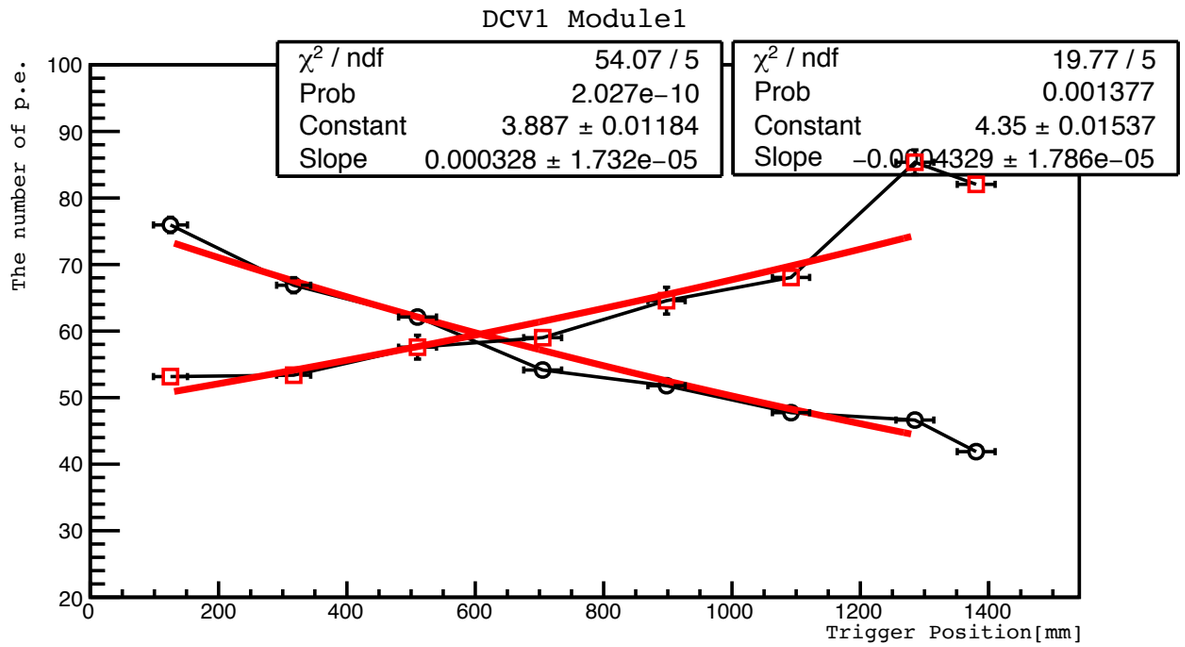
Daily report

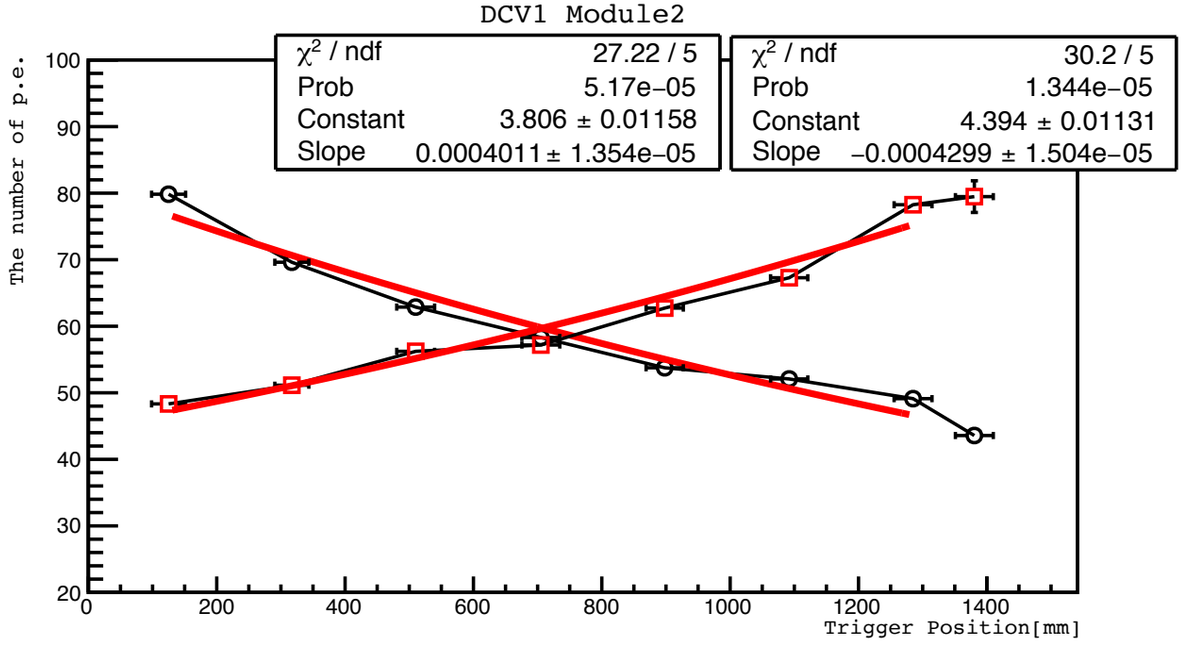
13 March, 2019

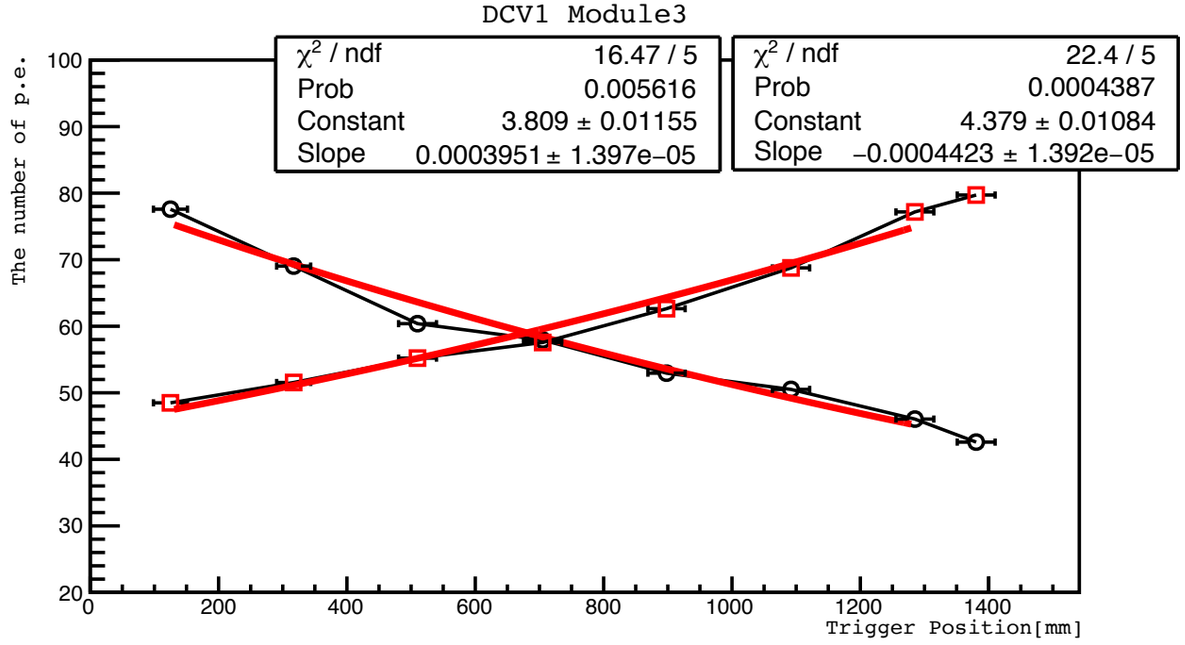
Previous fitting for DCV1(p.e.)

expo



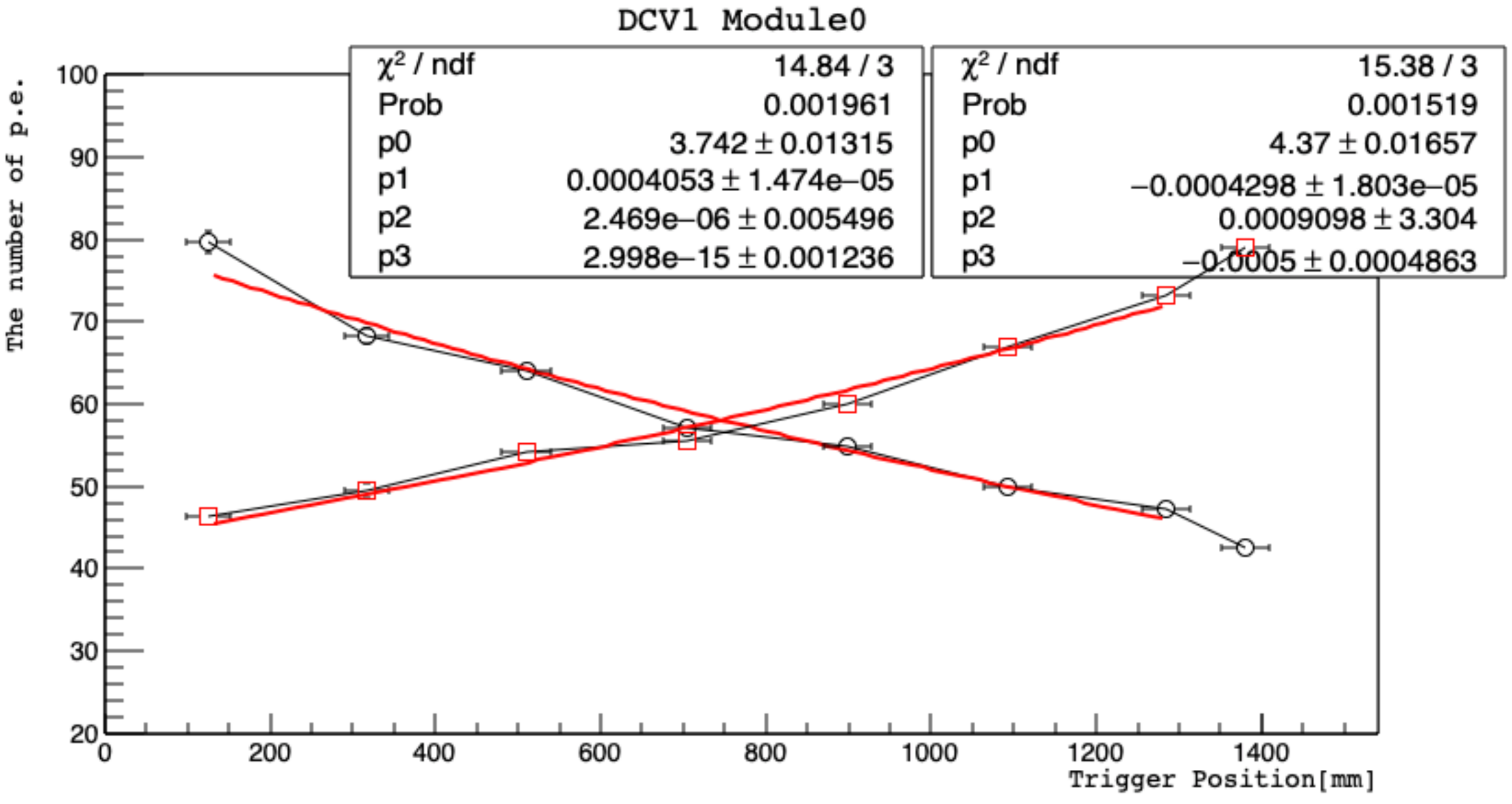






New fitting for DCV1(p.e.)

expo(0) + expo(2)

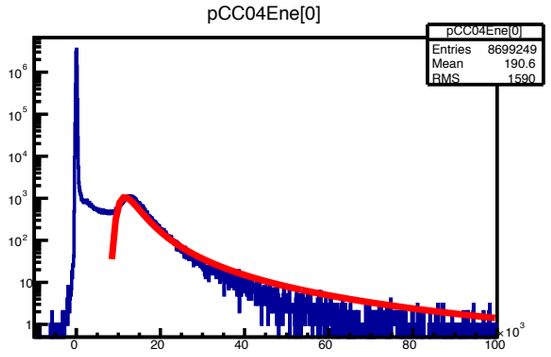


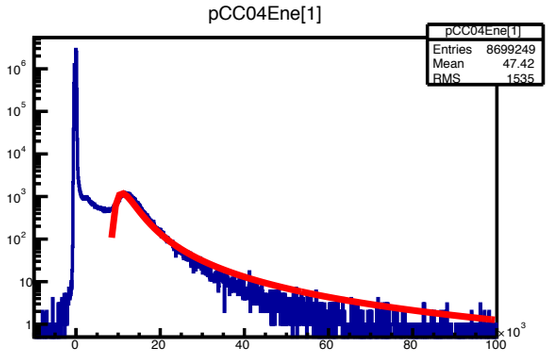
Redefine the CC0x thres. for event selection

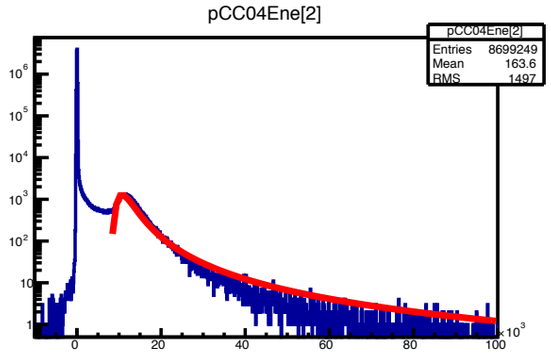
- Draw the CC0x energy distribution
- Fit by landau function
- CC0xthre = CC0xMPV ∗ 0.7

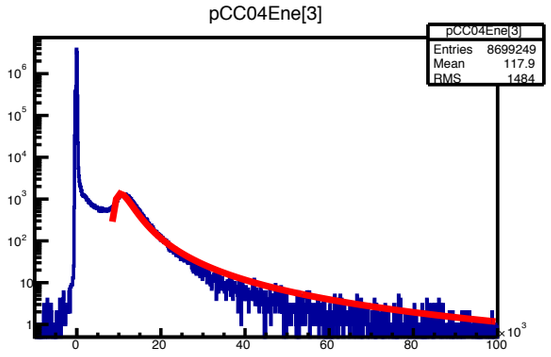
- File directory
  - /home/had/hmkim/work/hmkim/run81/dst/cosmicrun/CC04thre.C ☞ CC04thre.root
  - /home/had/hmkim/work/hmkim/run81/dst/cosmicrun/CC05thre.C ☞ CC05thre.root

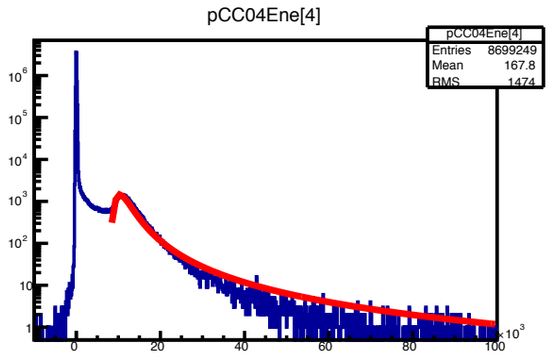
Landau fitting for CC04 energy distribution

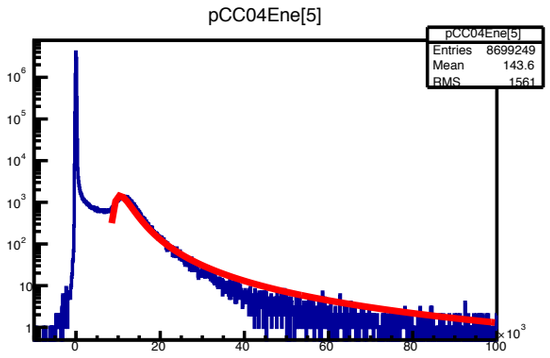


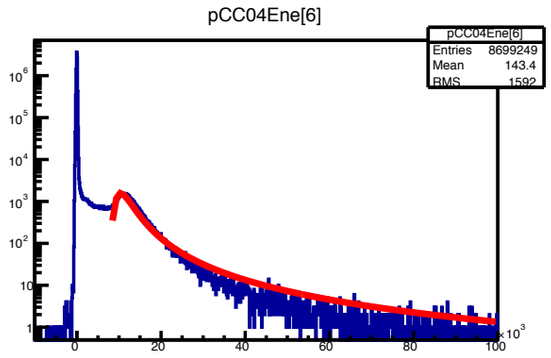


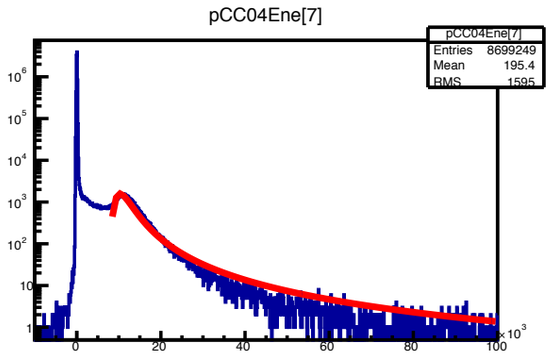


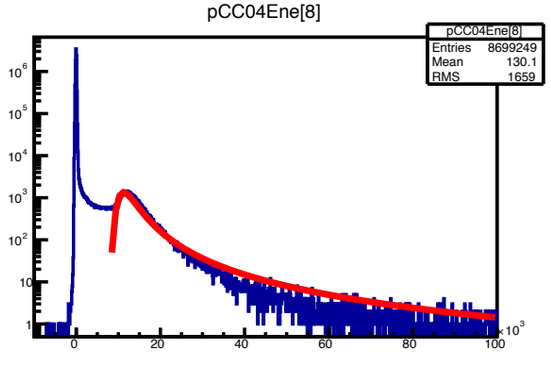


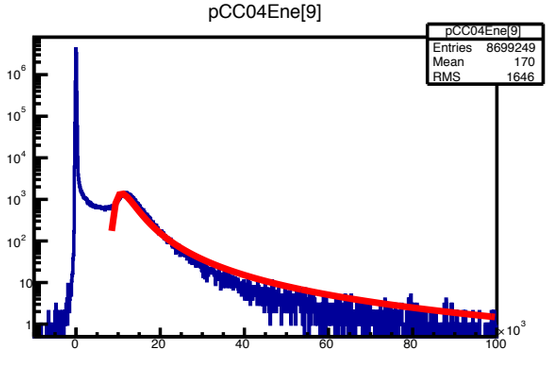


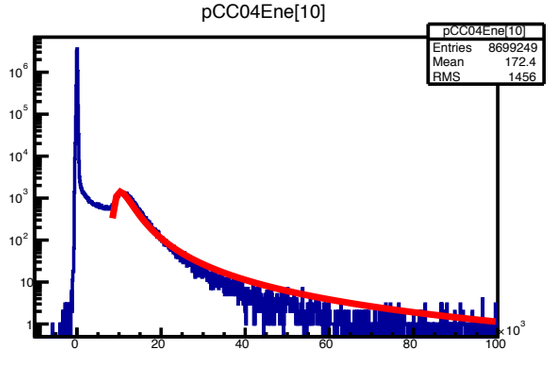


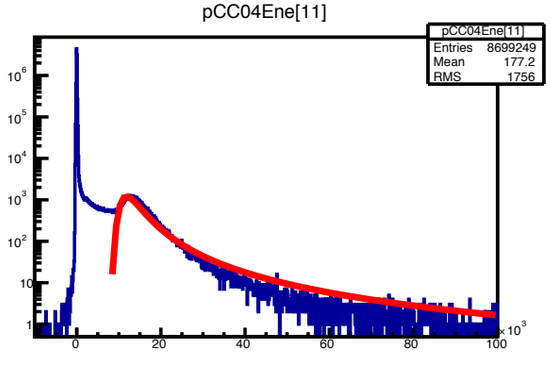


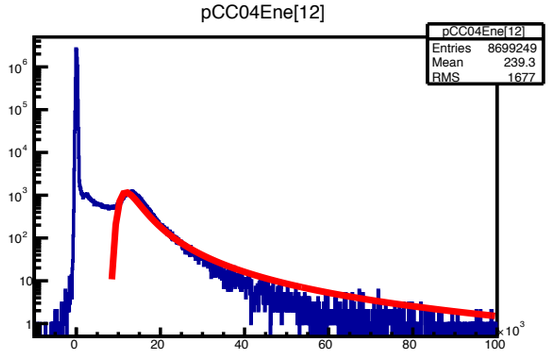


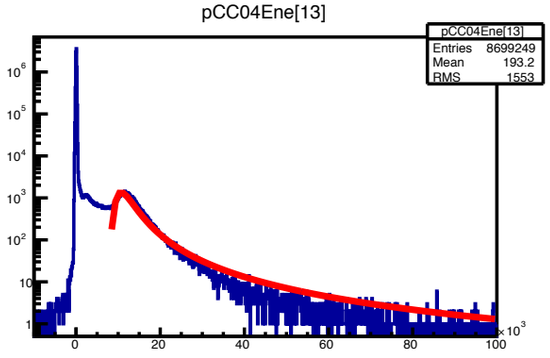


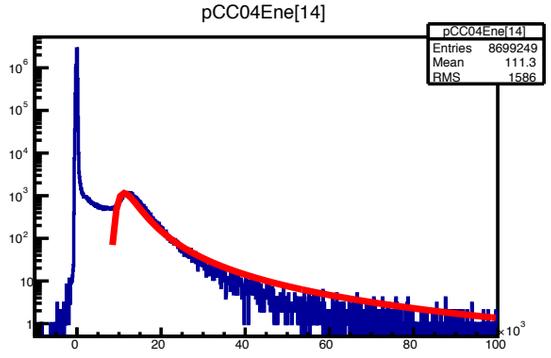


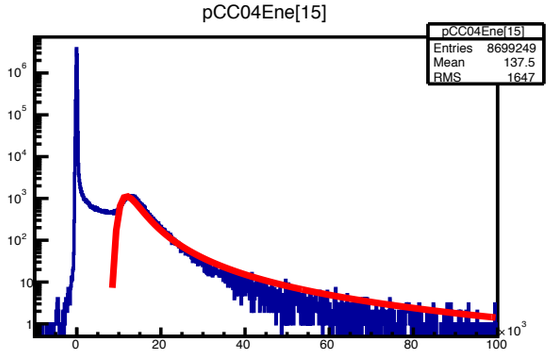




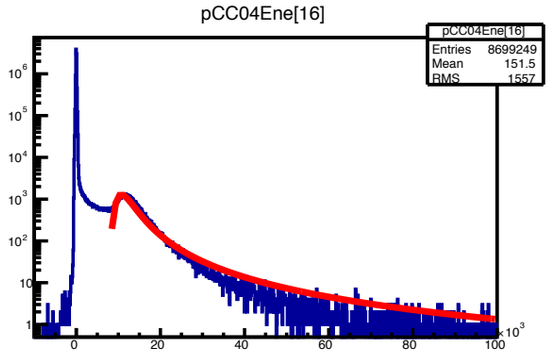


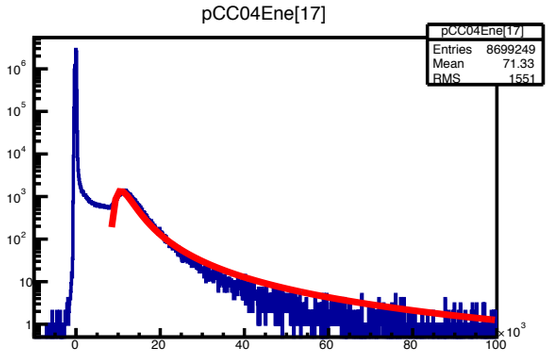


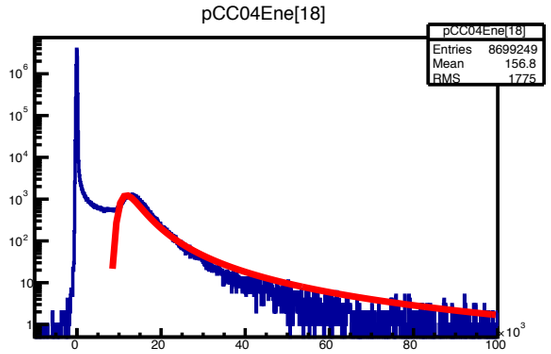


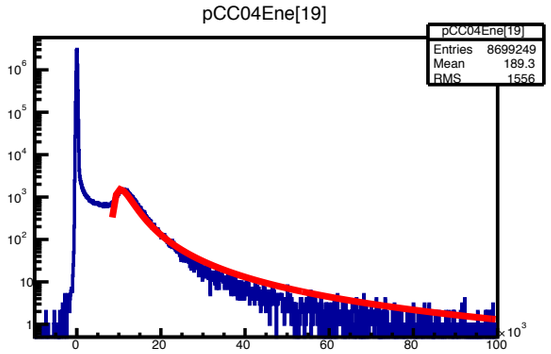


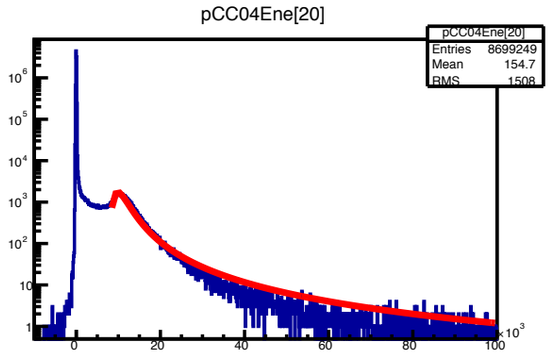
Landau fitting for CC04 energy distribution

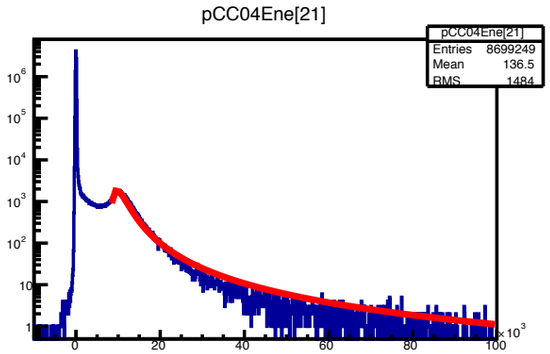


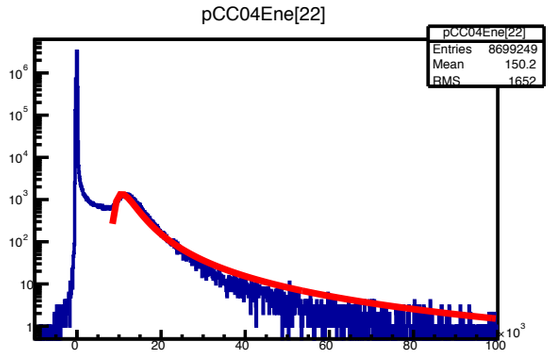


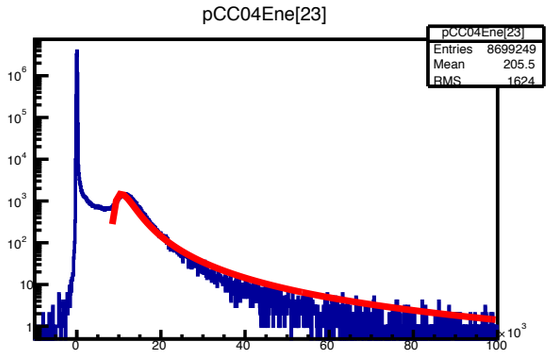


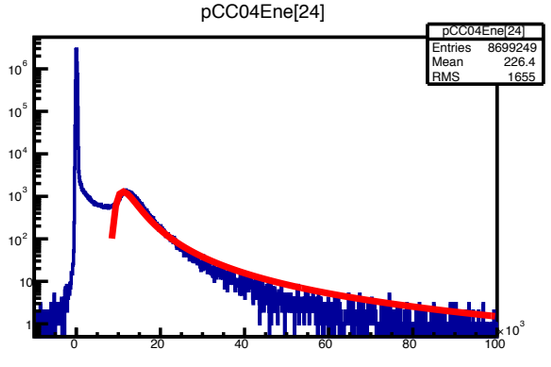


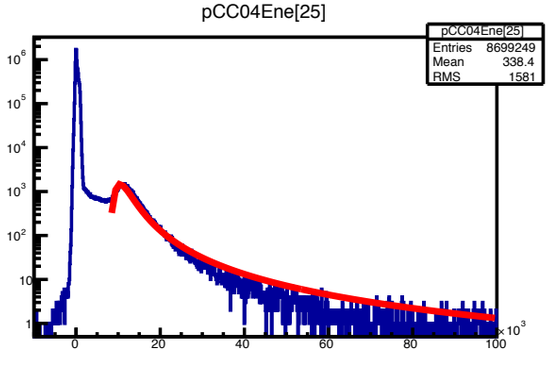


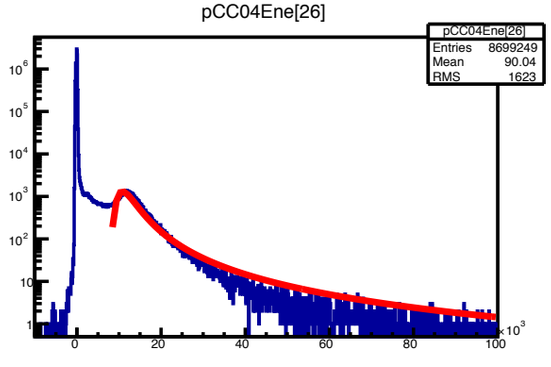


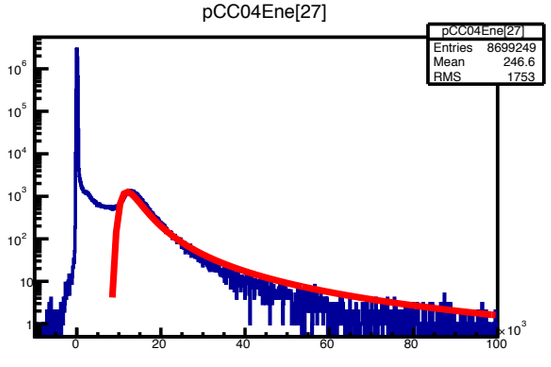


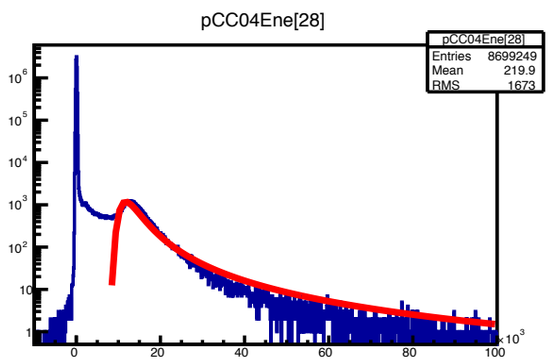


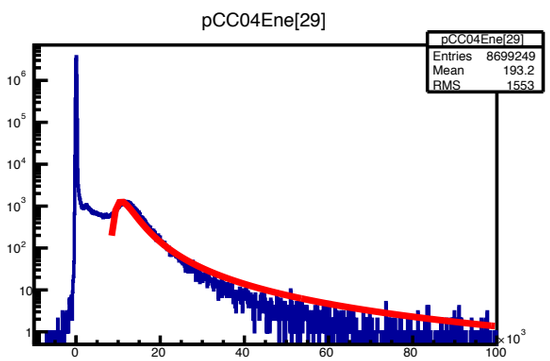


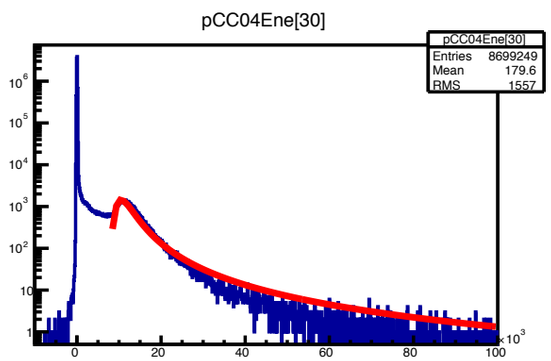


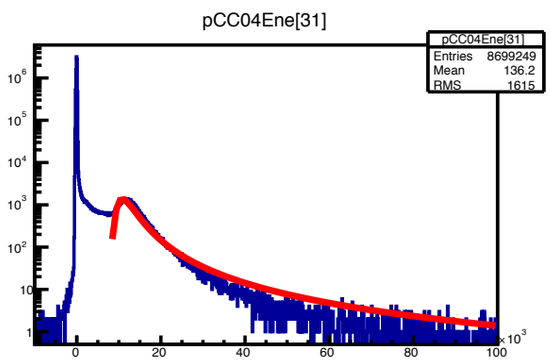




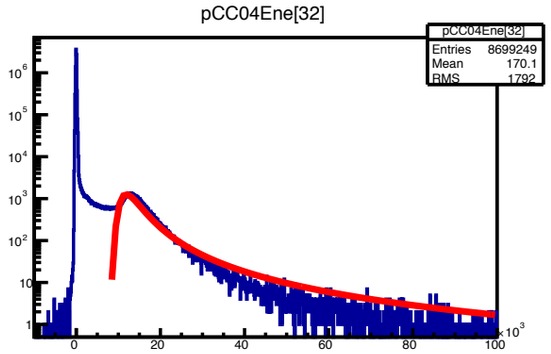


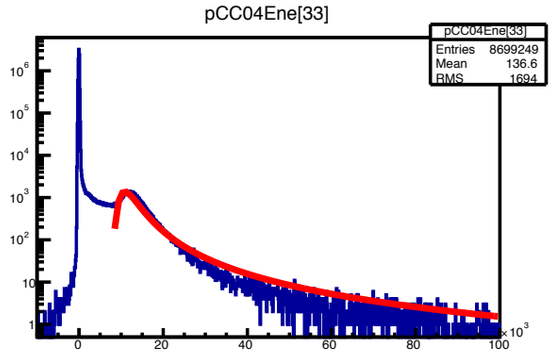


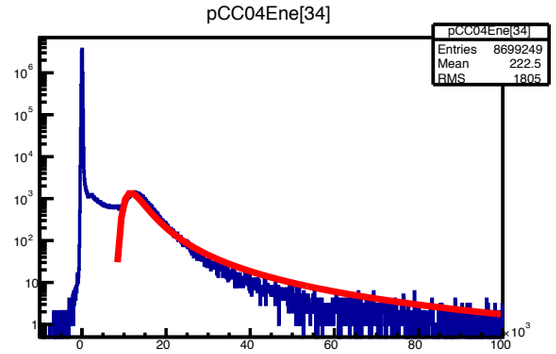


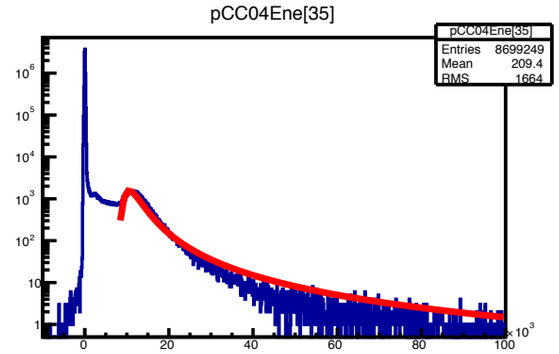


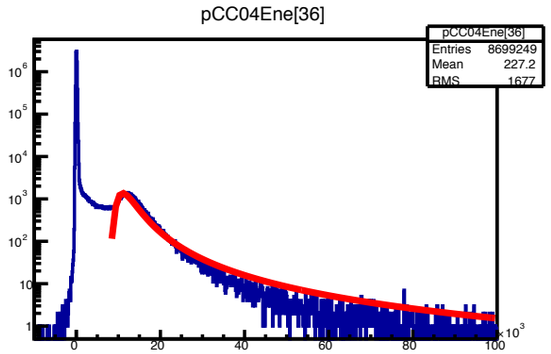
Landau fitting for CC04 energy distribution

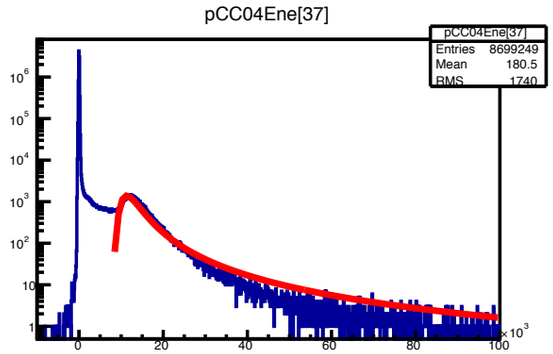


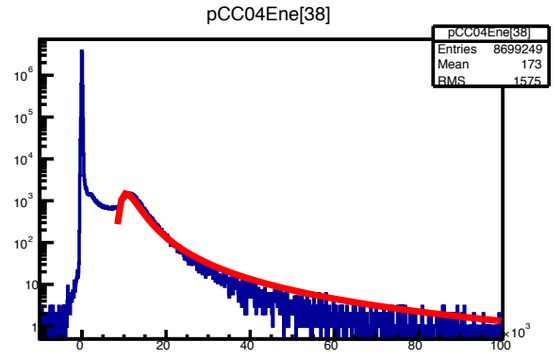


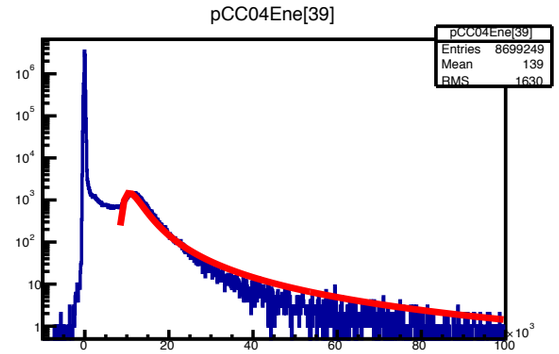


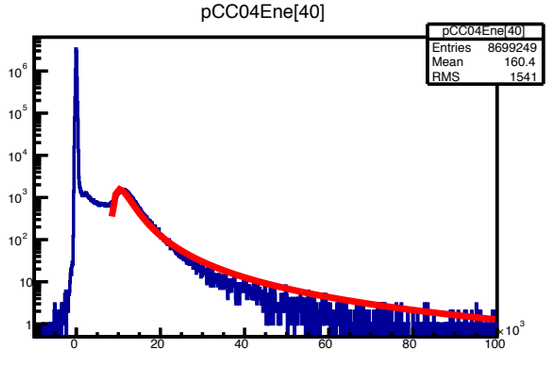


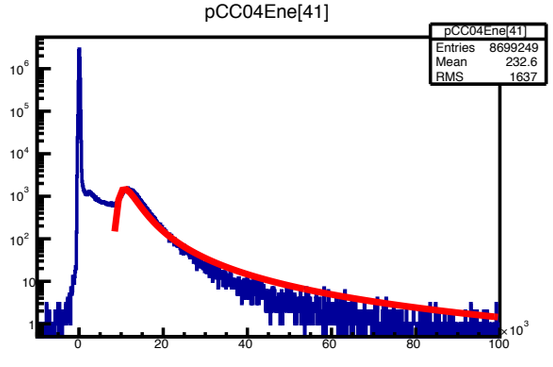


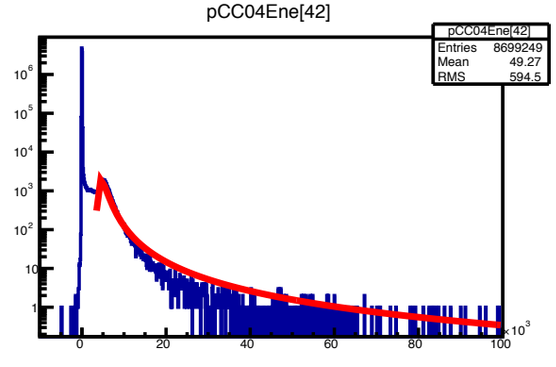


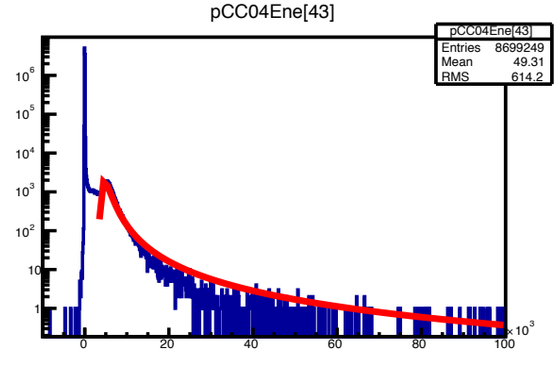


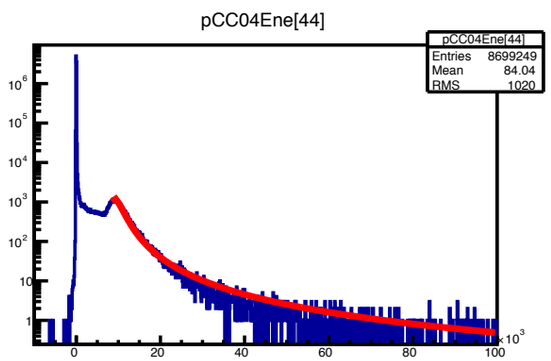


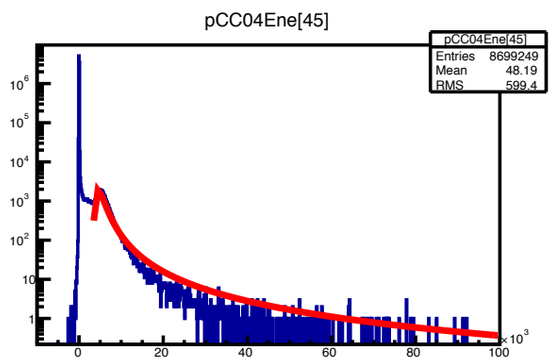


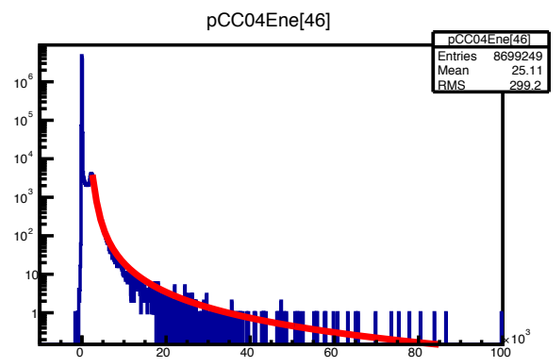


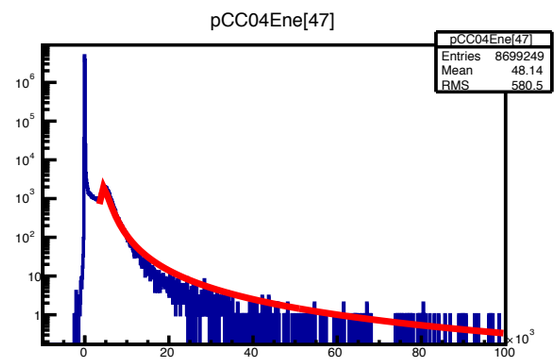




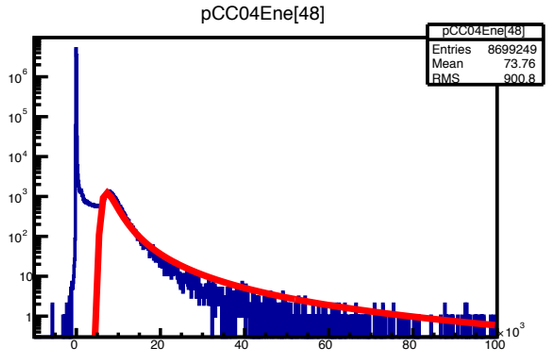


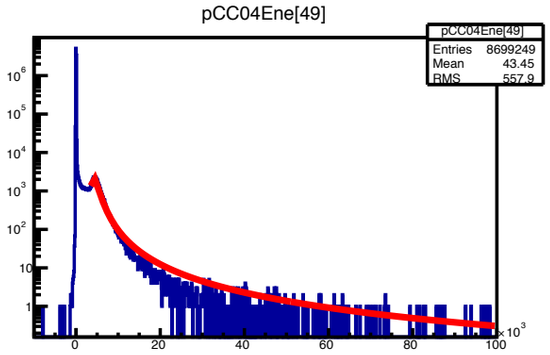


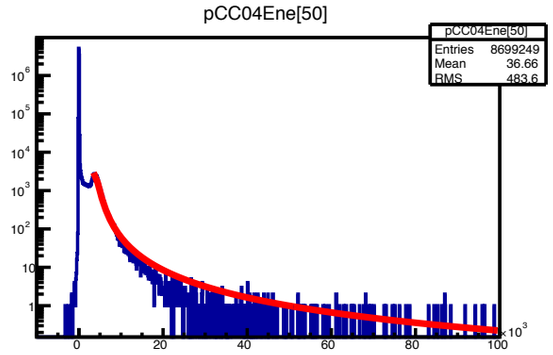


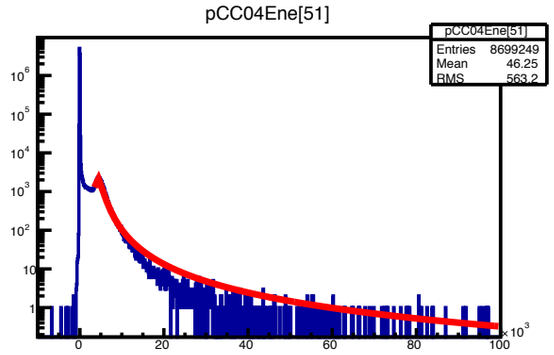


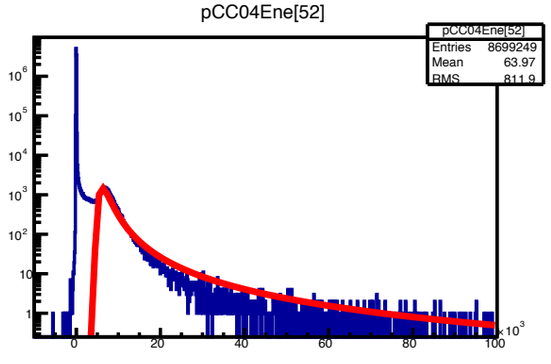
Landau fitting for CC04 energy distribution

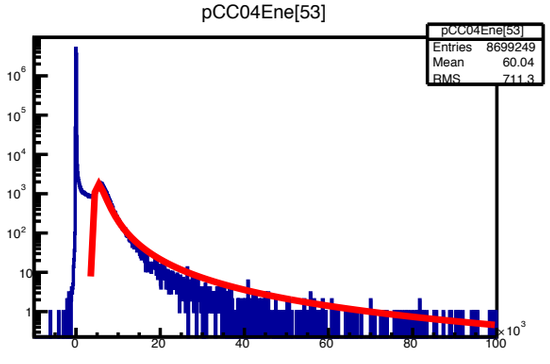


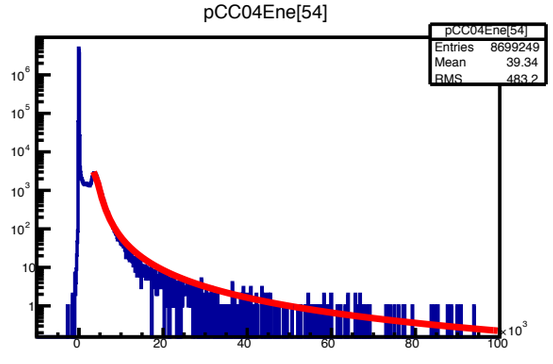


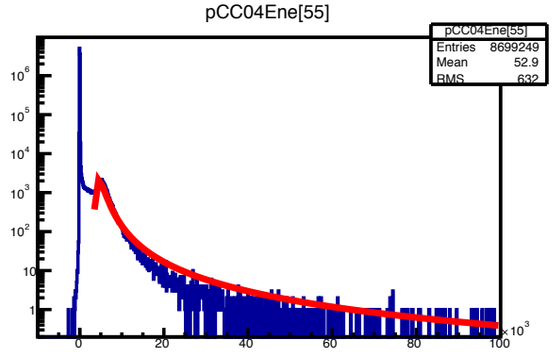


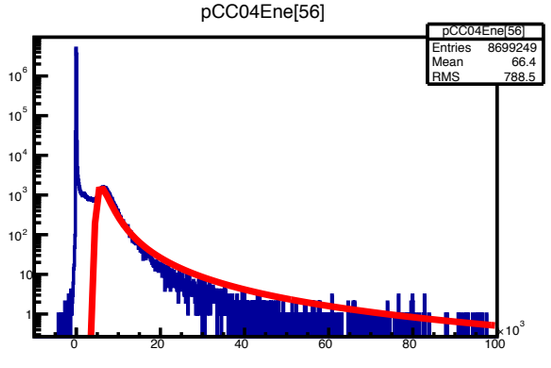


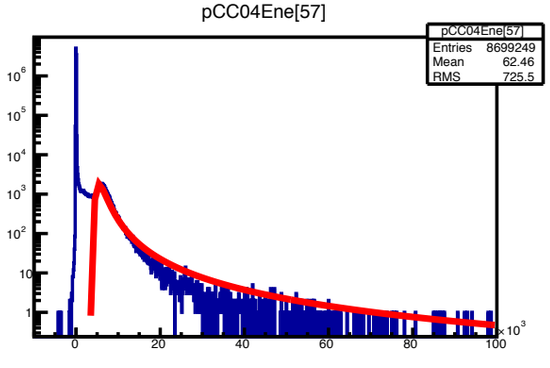


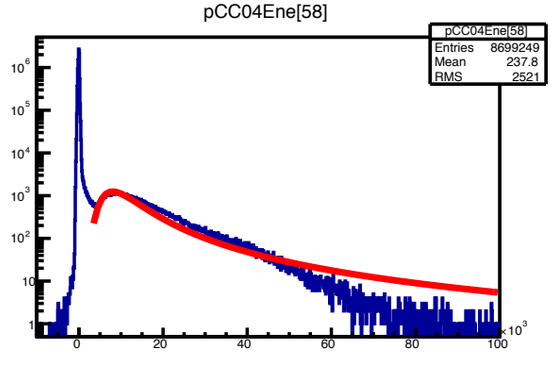


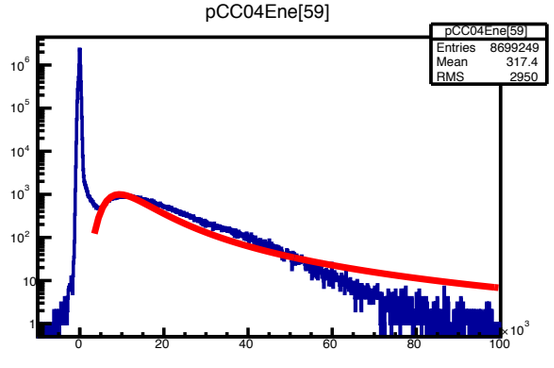


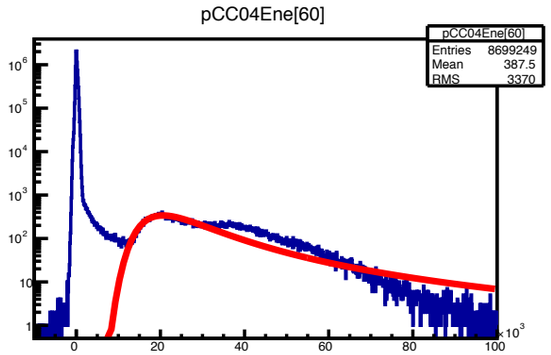


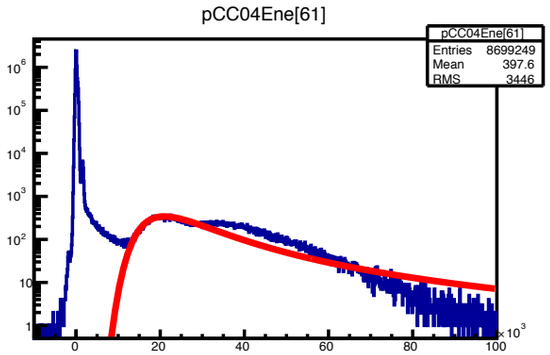


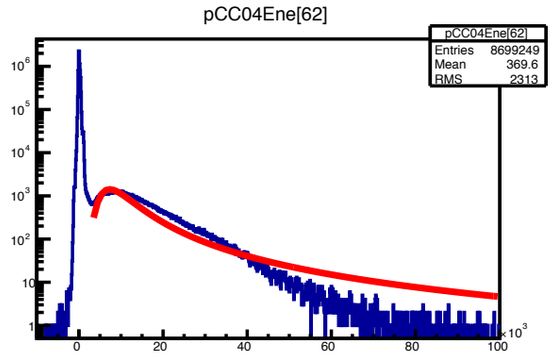


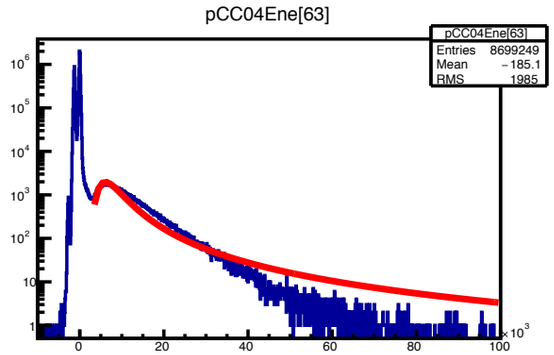




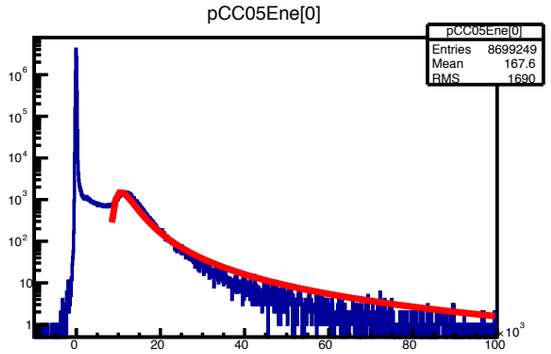


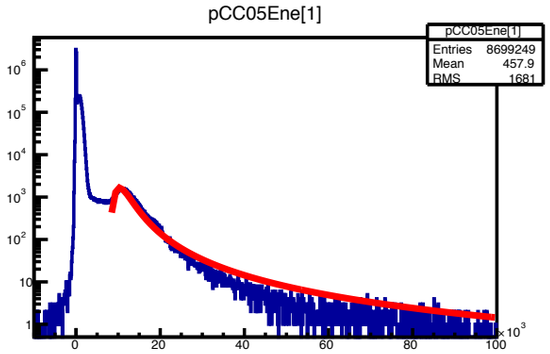


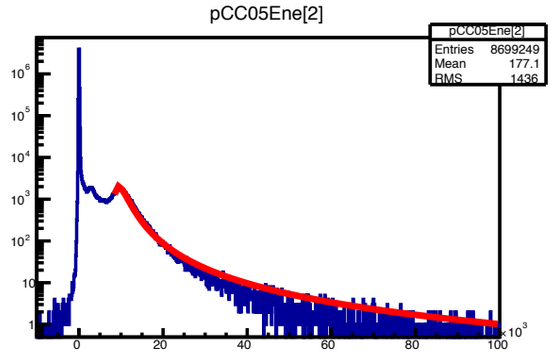


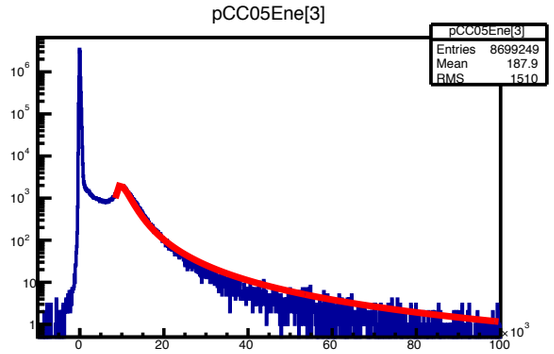


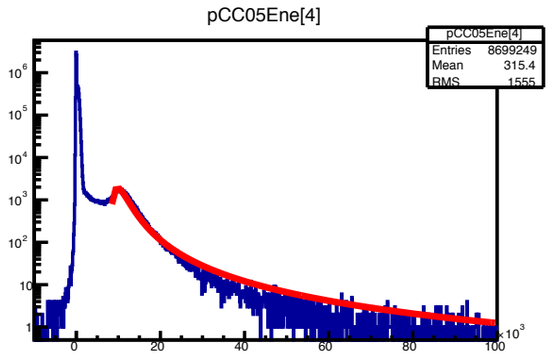
Landau fitting for CC05 energy distribution

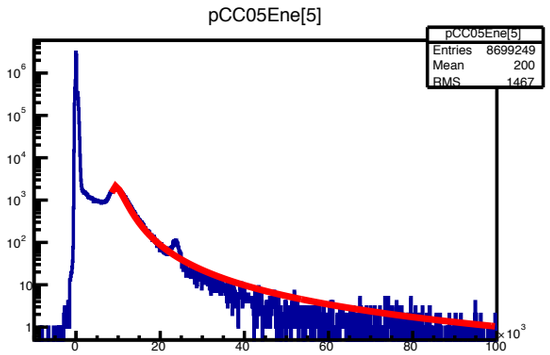


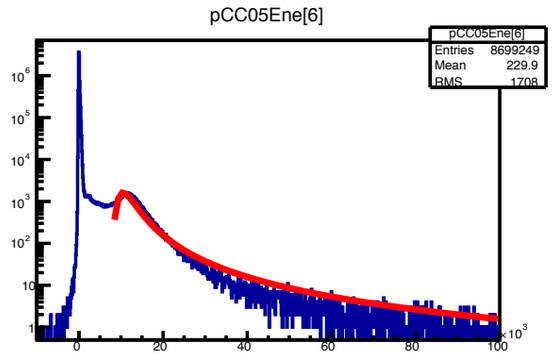


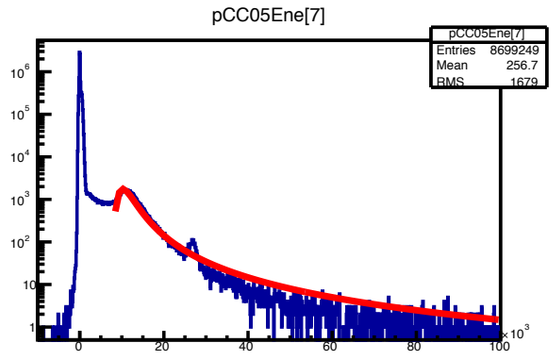


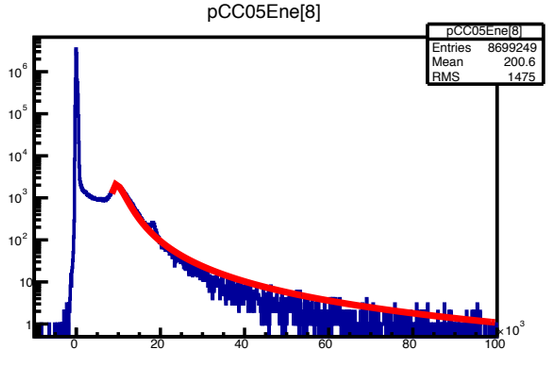


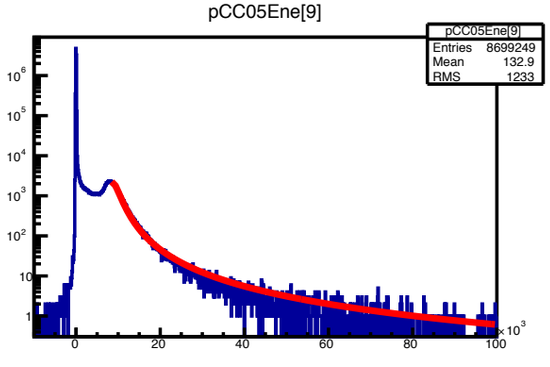


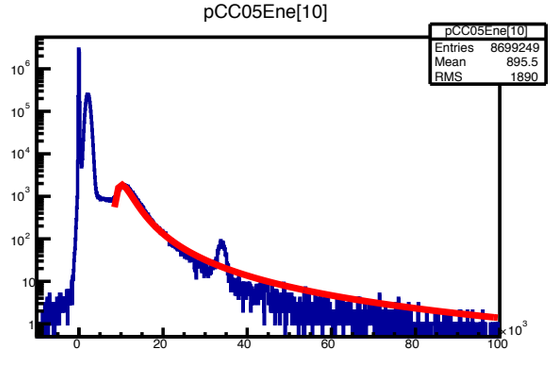


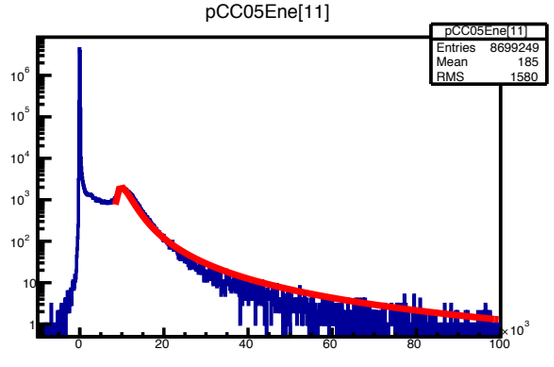


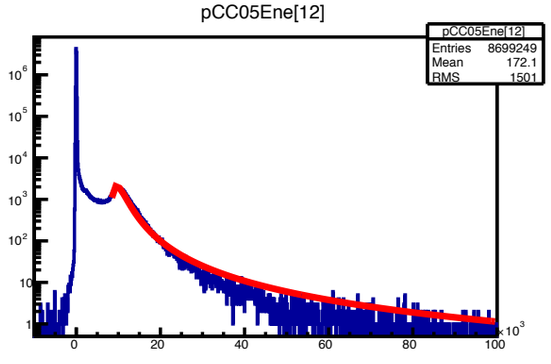


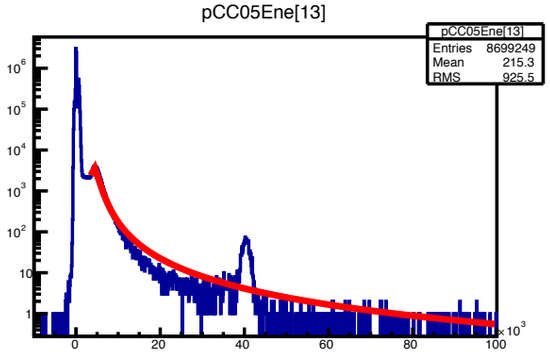


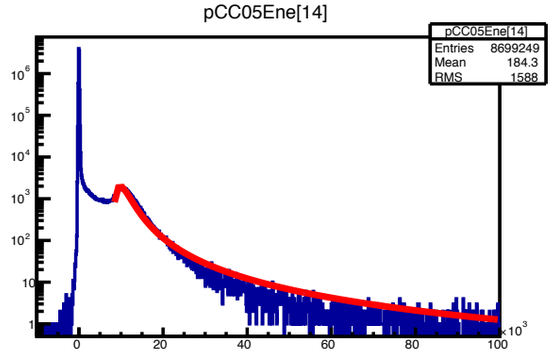


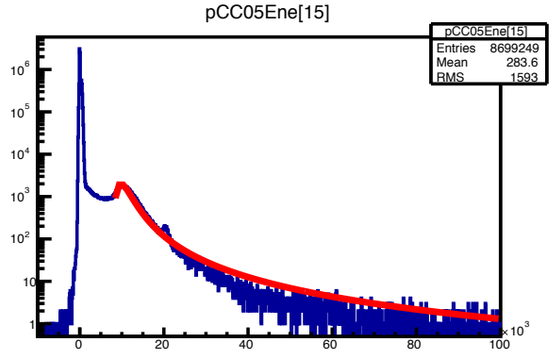




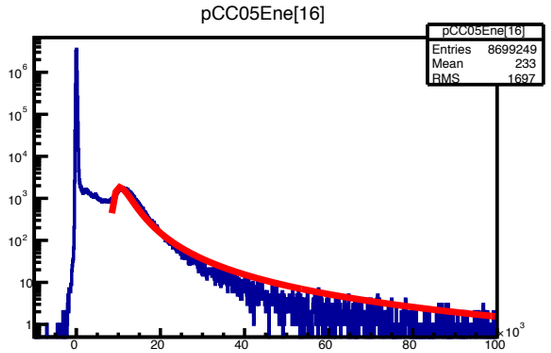


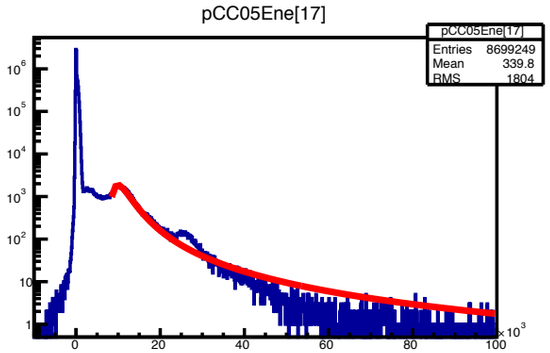


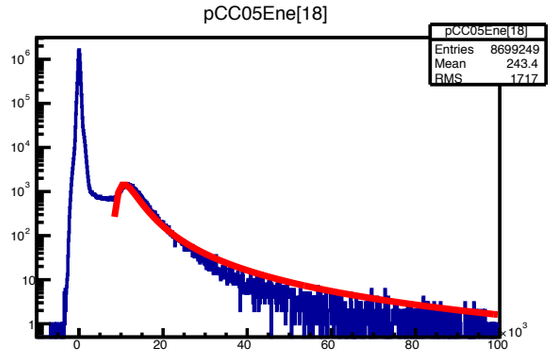


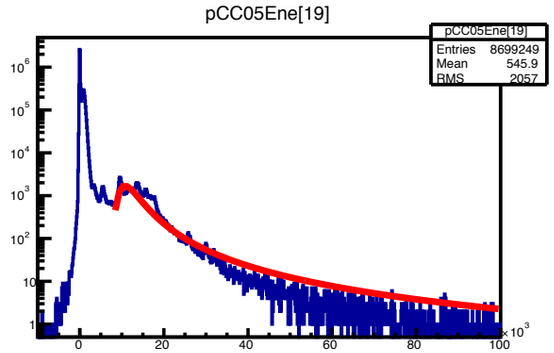


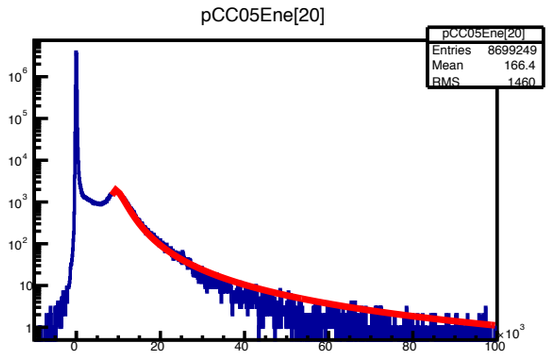
Landau fitting for CC05 energy distribution

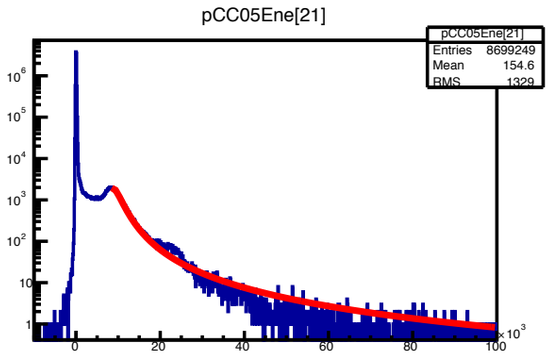


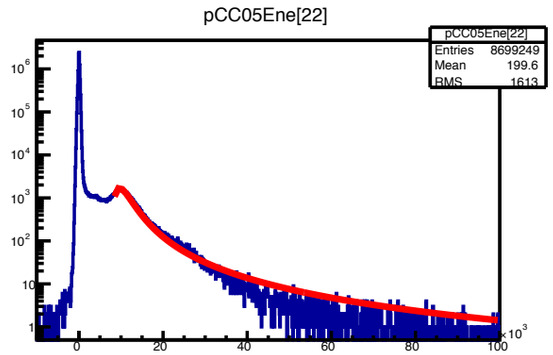


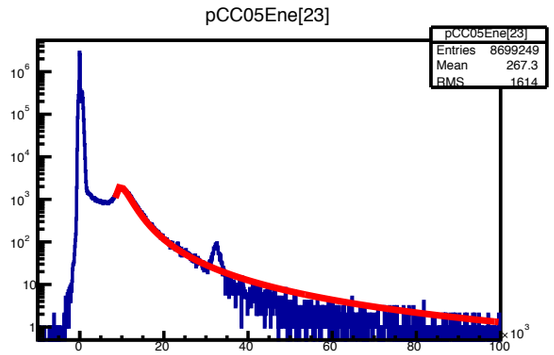


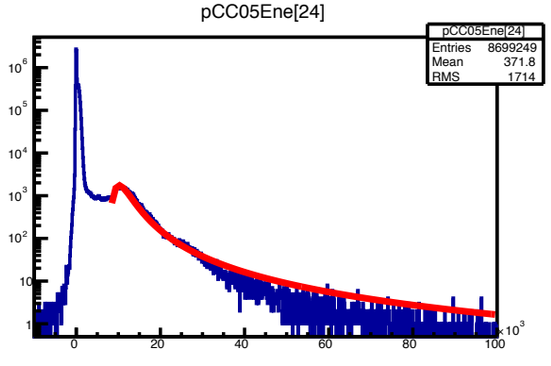


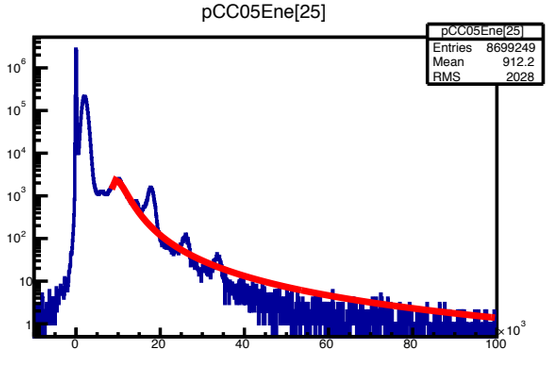


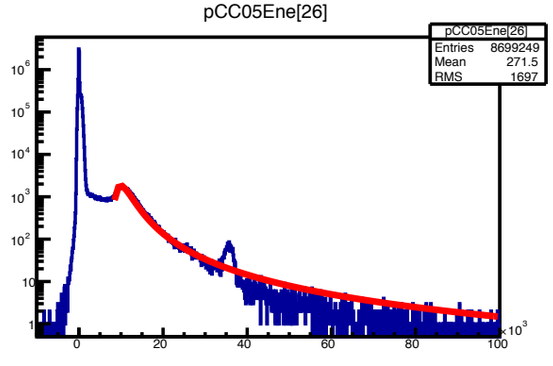


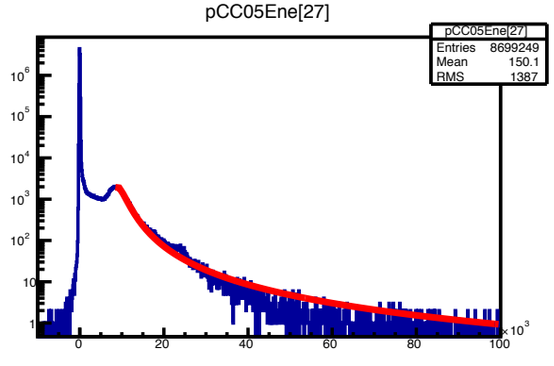


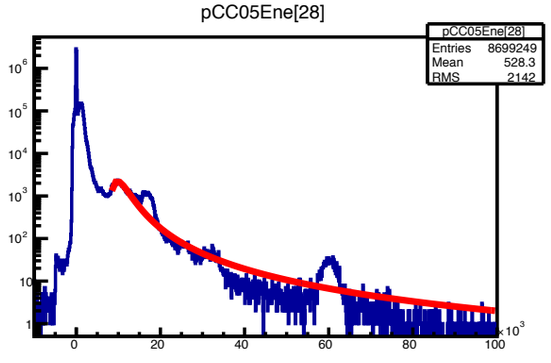


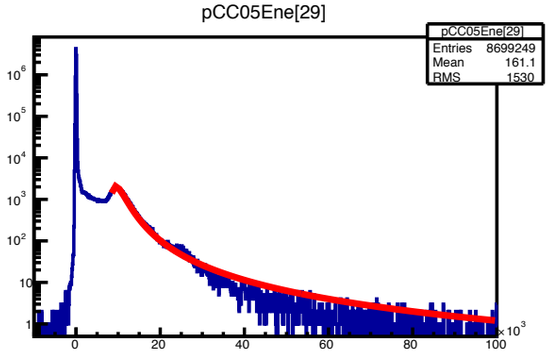


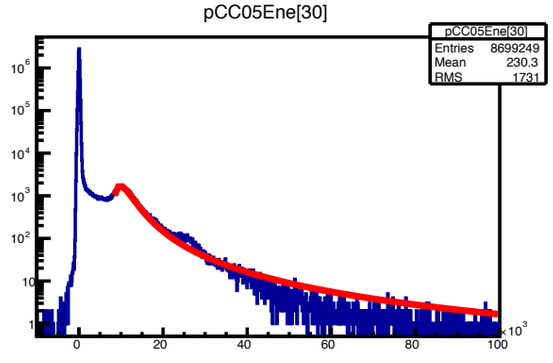


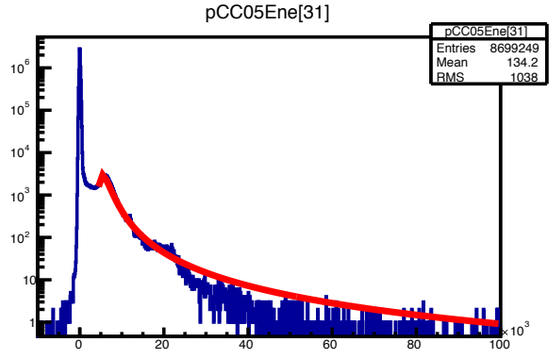




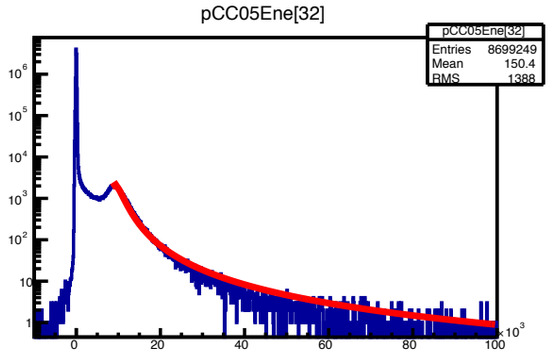


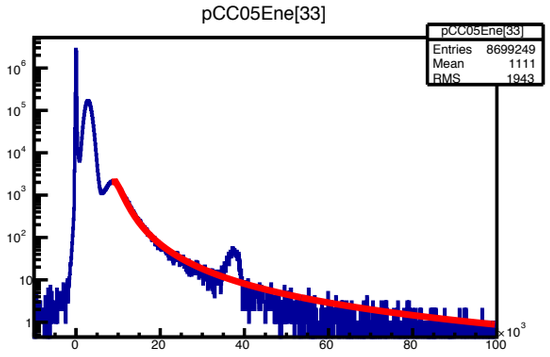


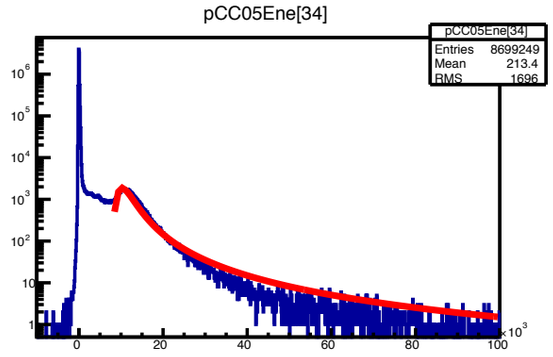


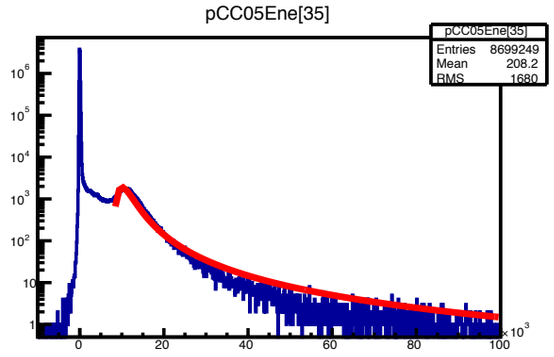


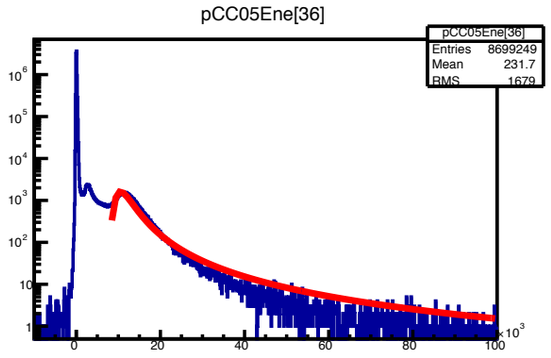
Landau fitting for CC05 energy distribution

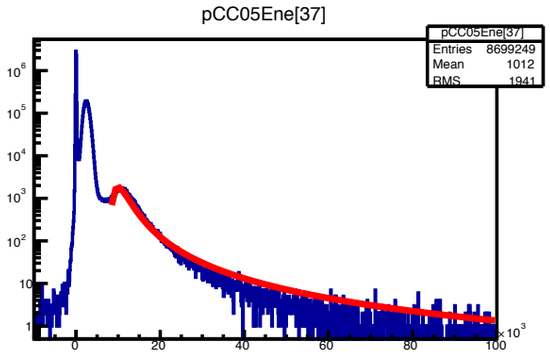


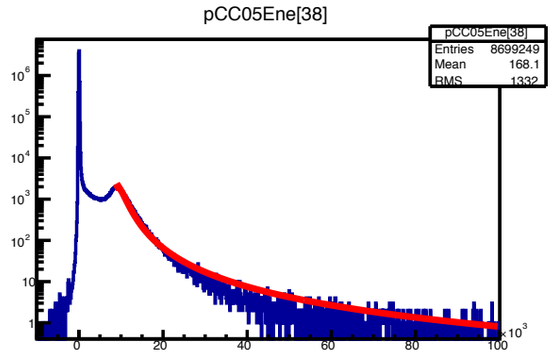


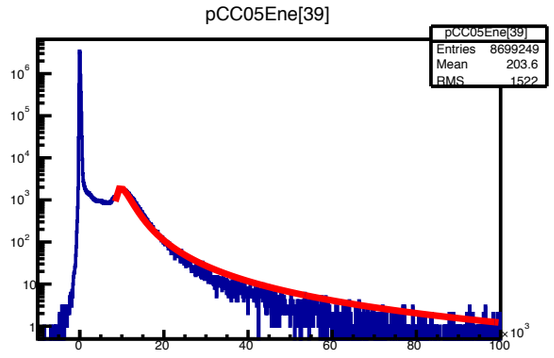


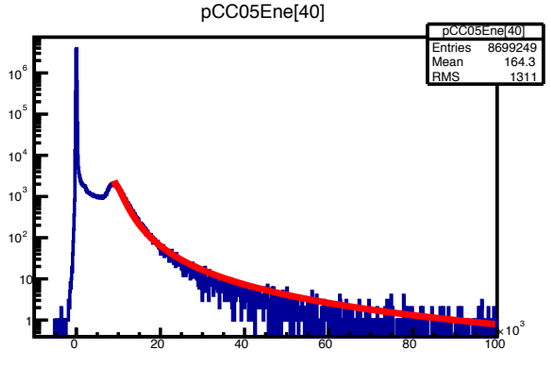


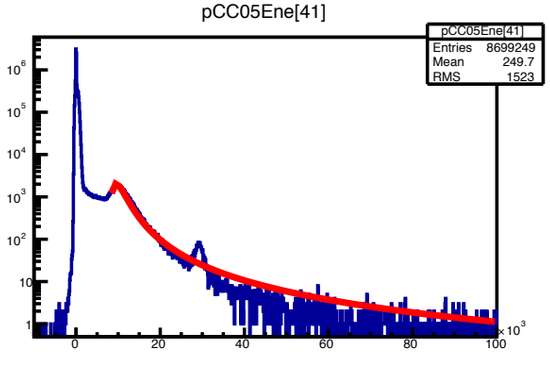


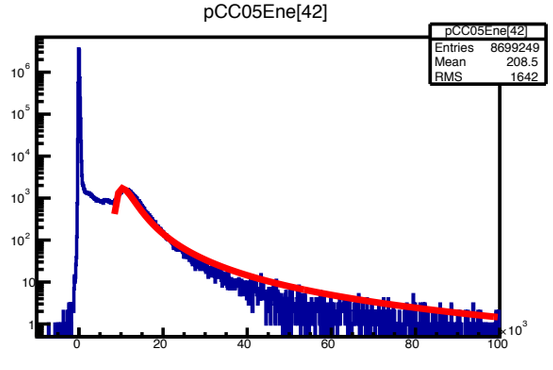


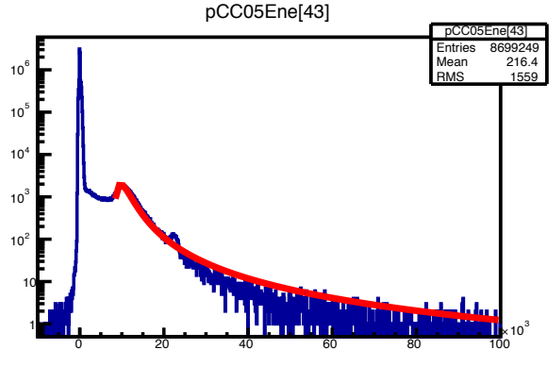


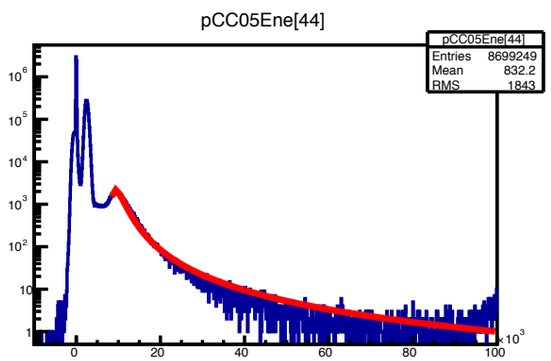


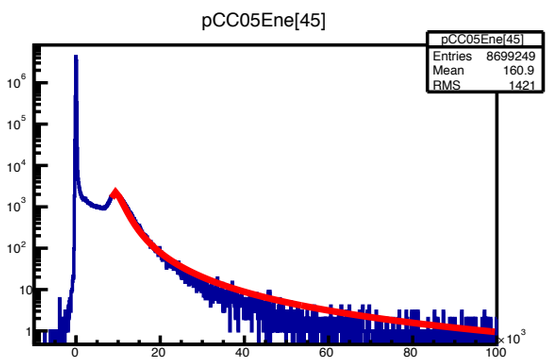


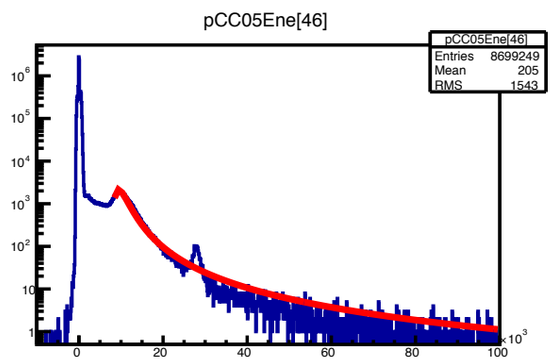


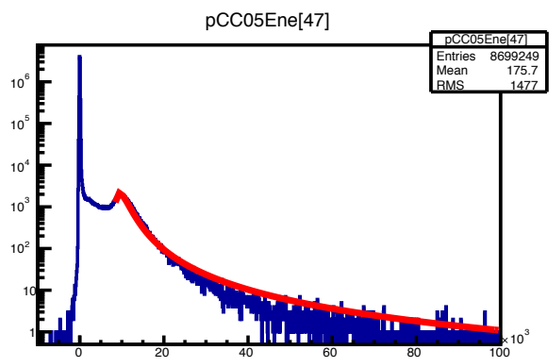




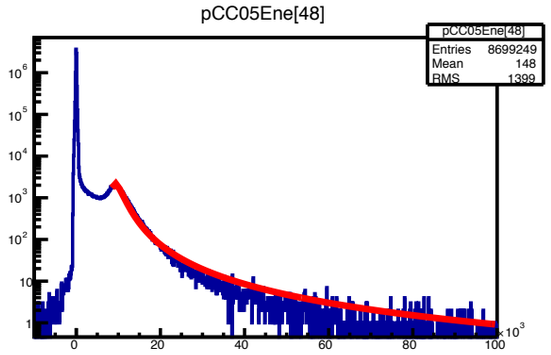


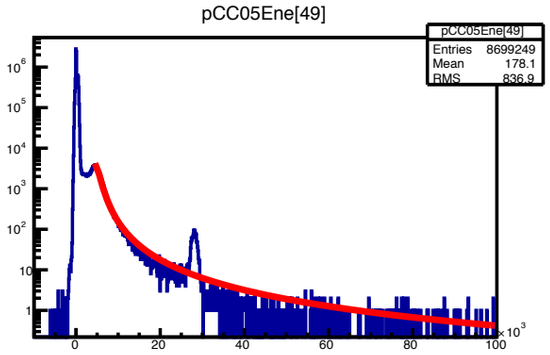


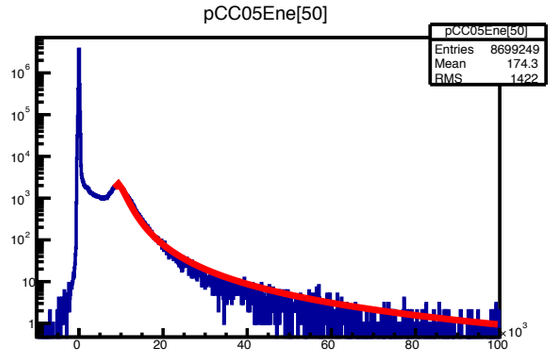


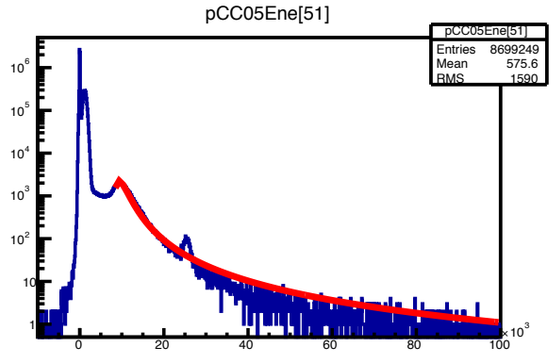


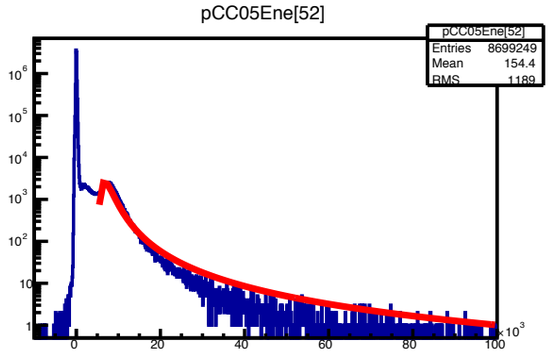
Landau fitting for CC05 energy distribution

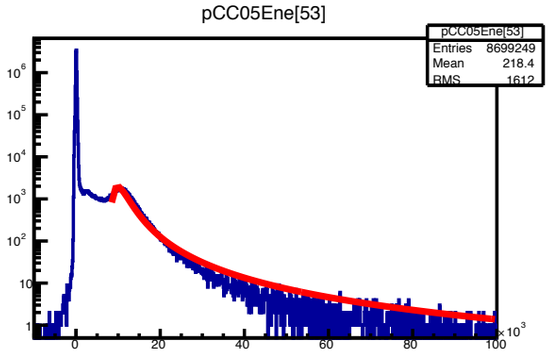


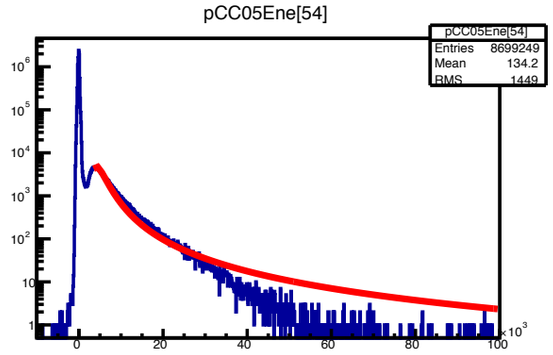


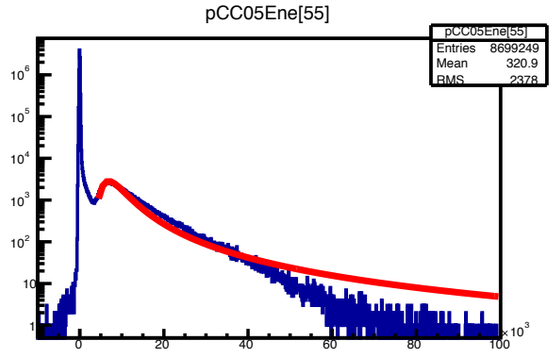


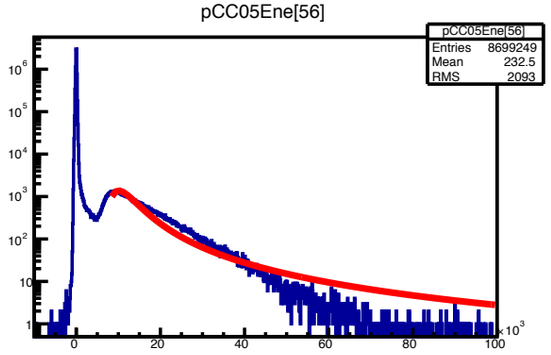


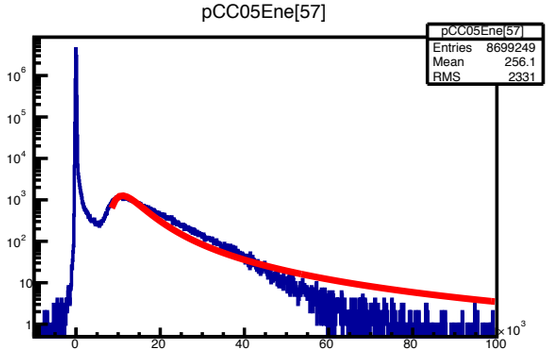


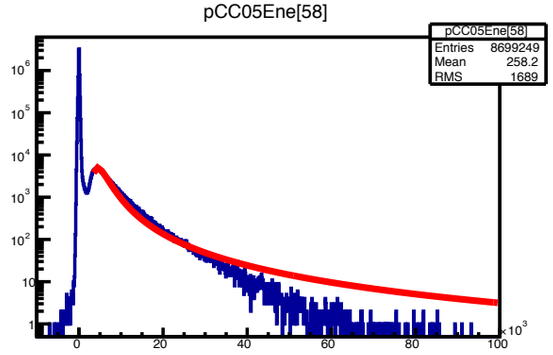


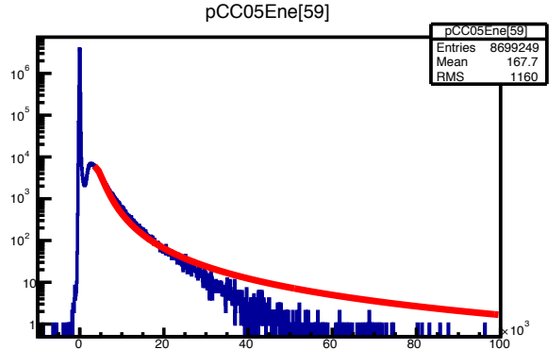








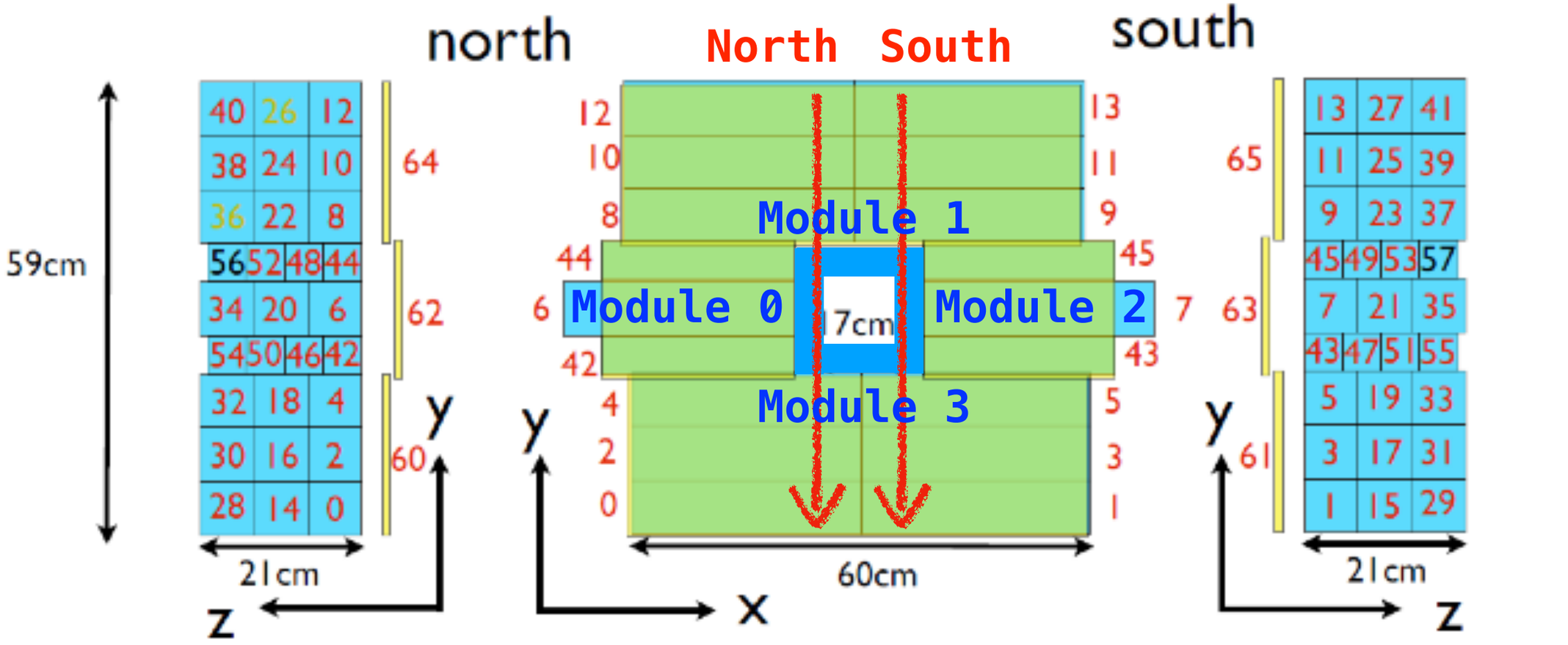




CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

number=CC04ModID
(with amp channel)
(dead channel)

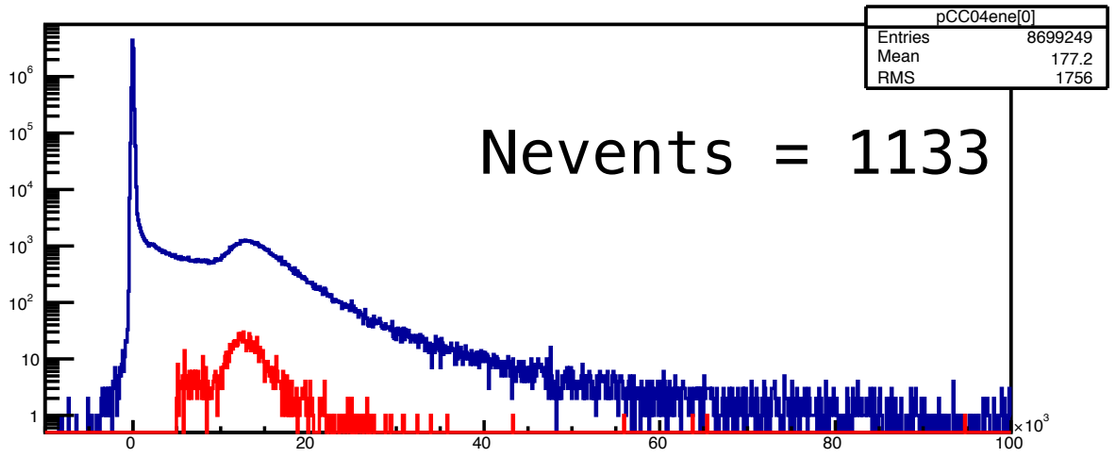


(view from north) (view from upstream) (view from south)

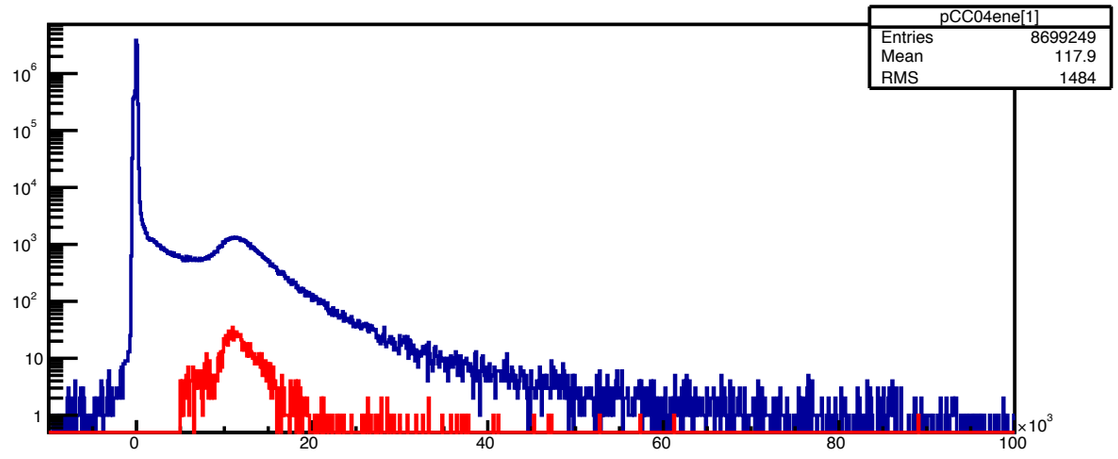
CC04 Distribution cut by ther. = 5000

For South

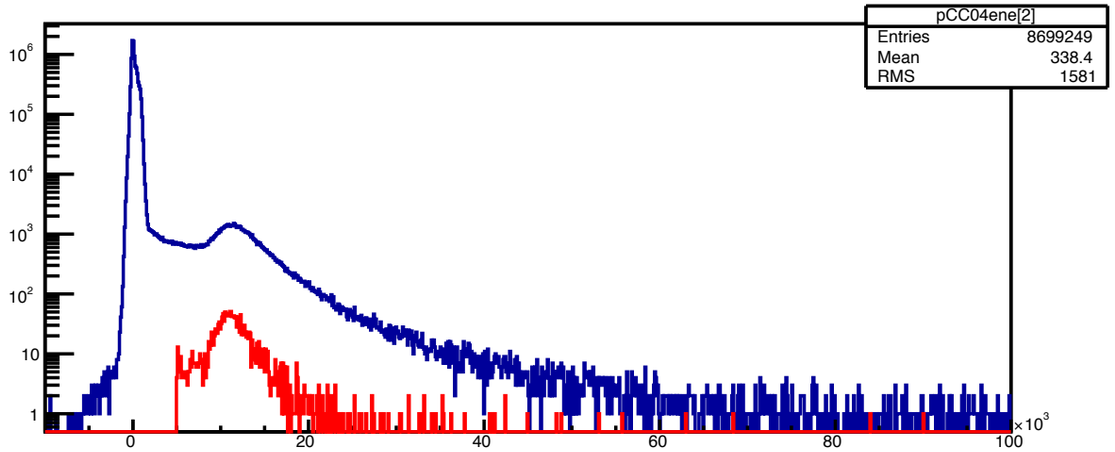
ModID = 11



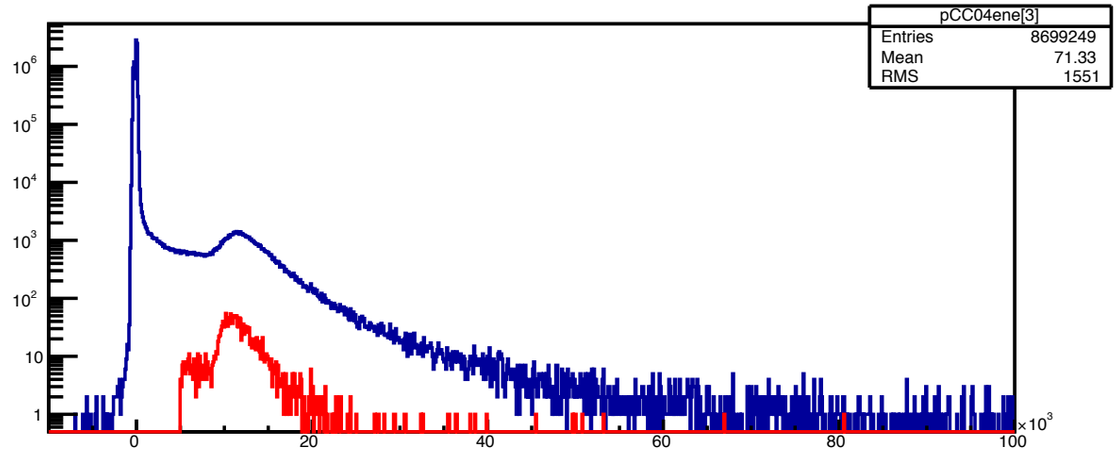
ModID = 3



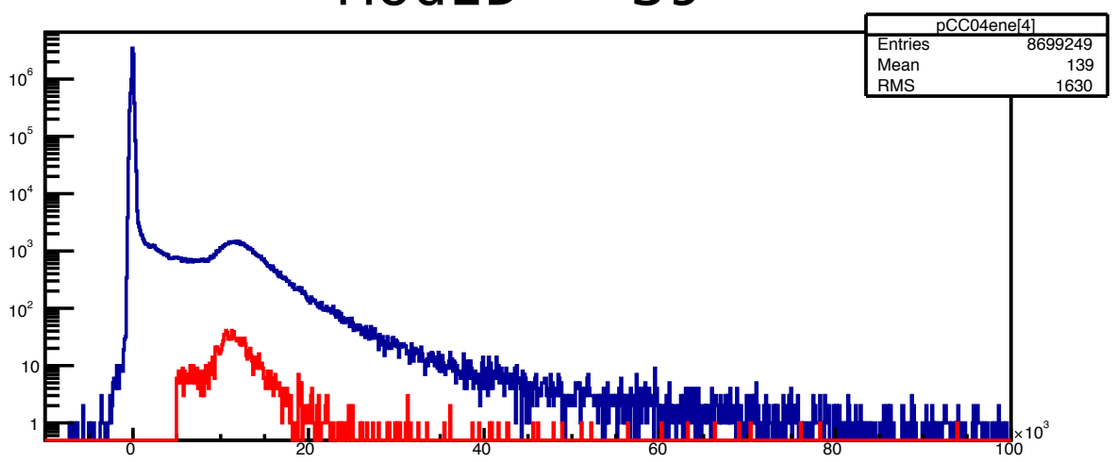
ModID = 25



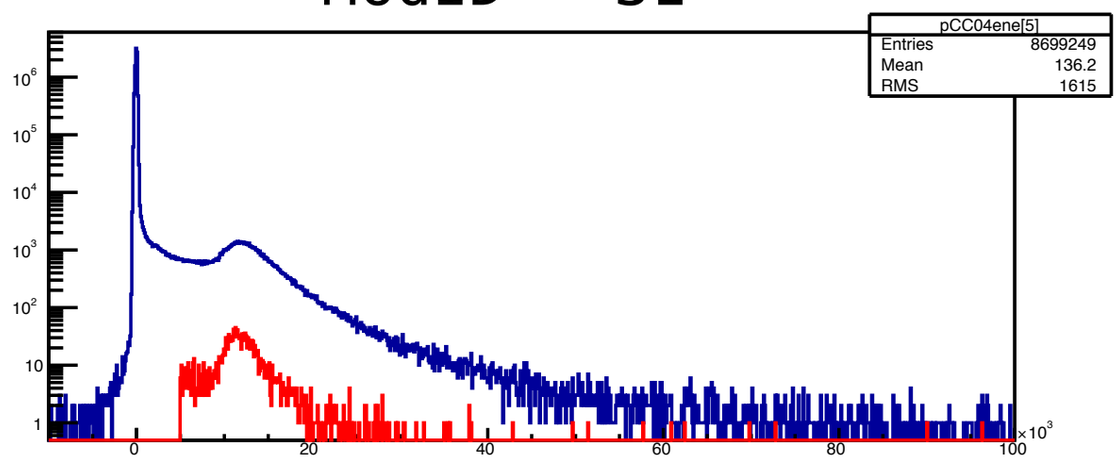
ModID = 17



ModID = 39



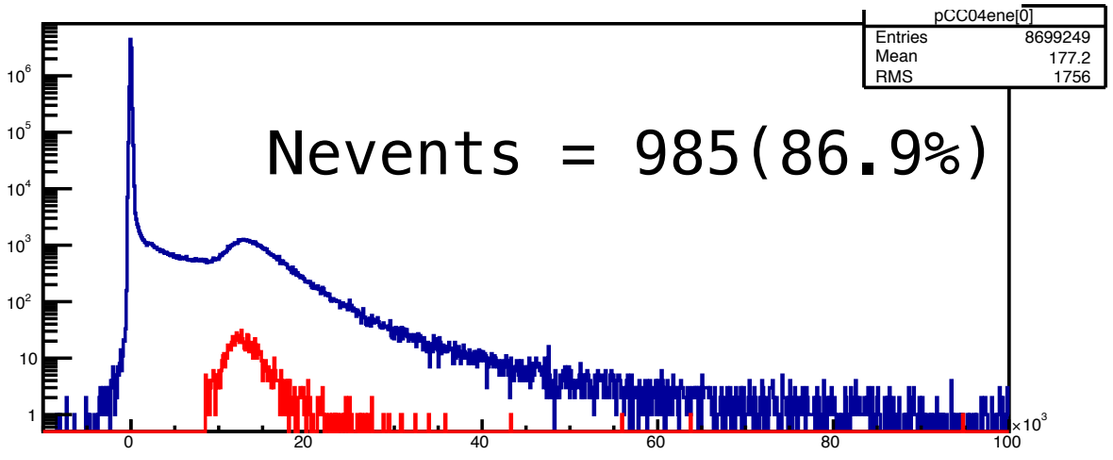
ModID = 31



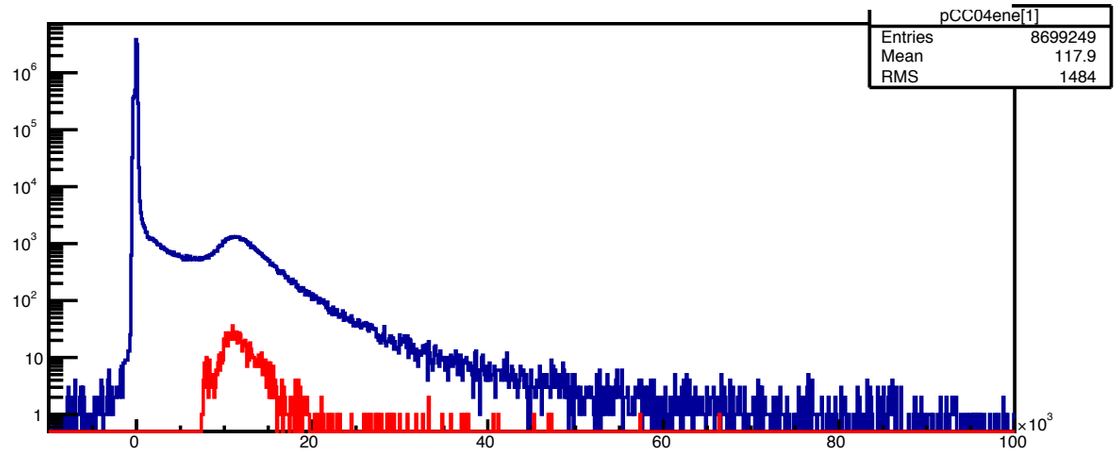
CC04 Distribution cut by ther. = MPV * 0.7

For South

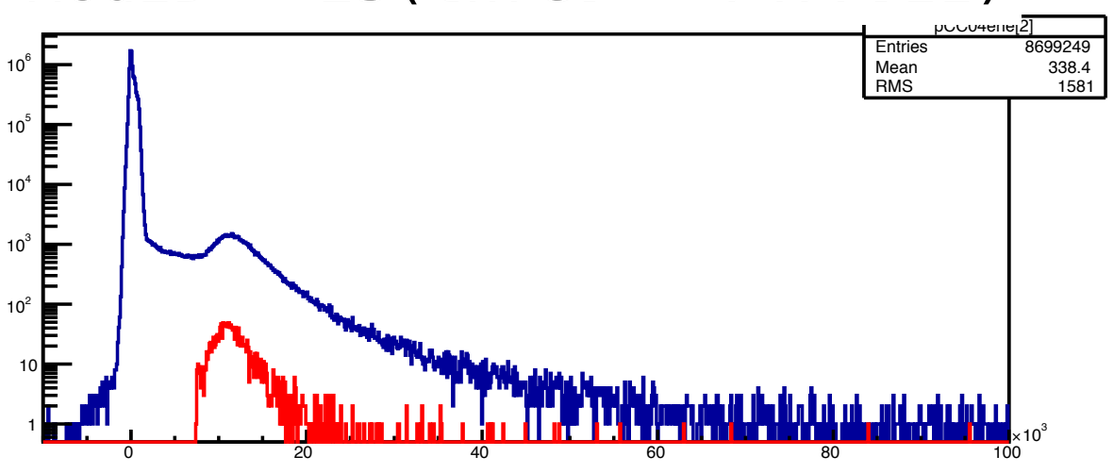
ModID = 11(thre. = 8500.63)



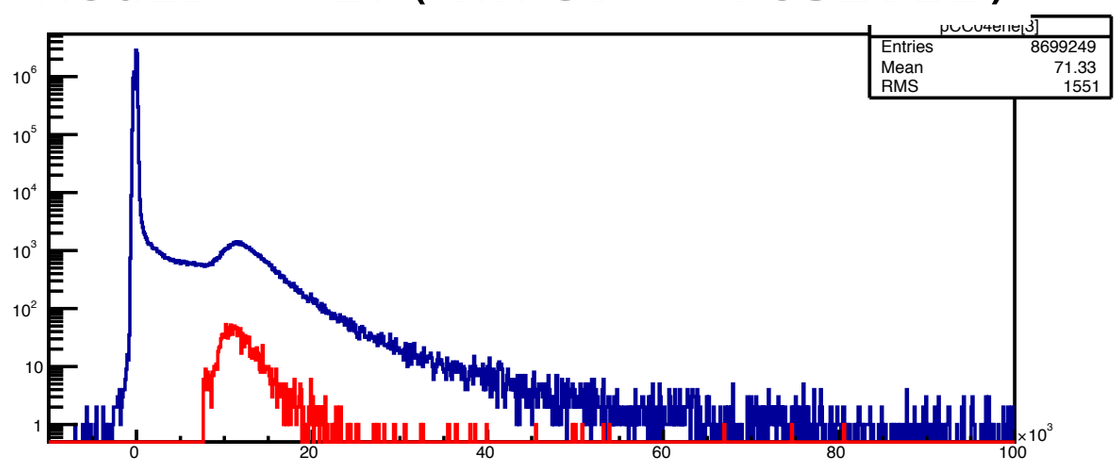
ModID = 3(thre. = 7461.36)



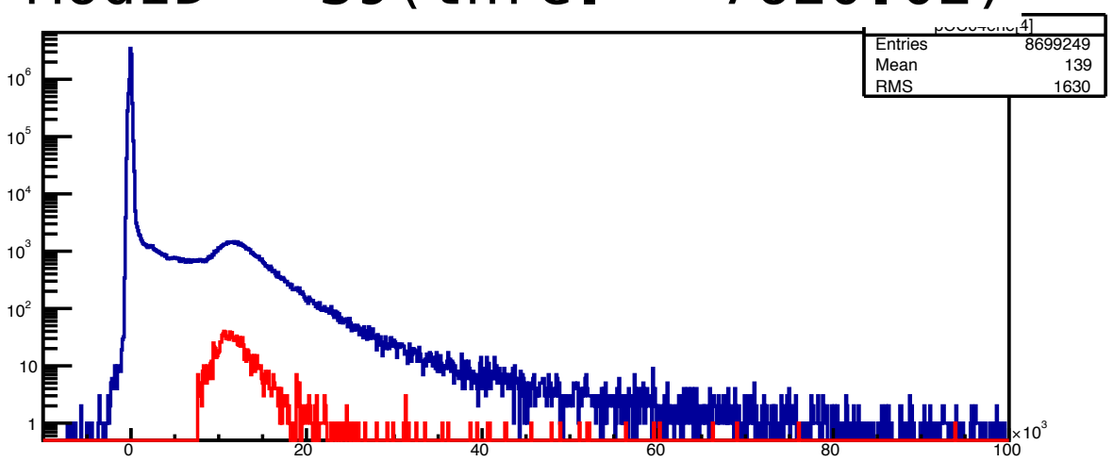
ModID = 25(thre. = 7477.11)



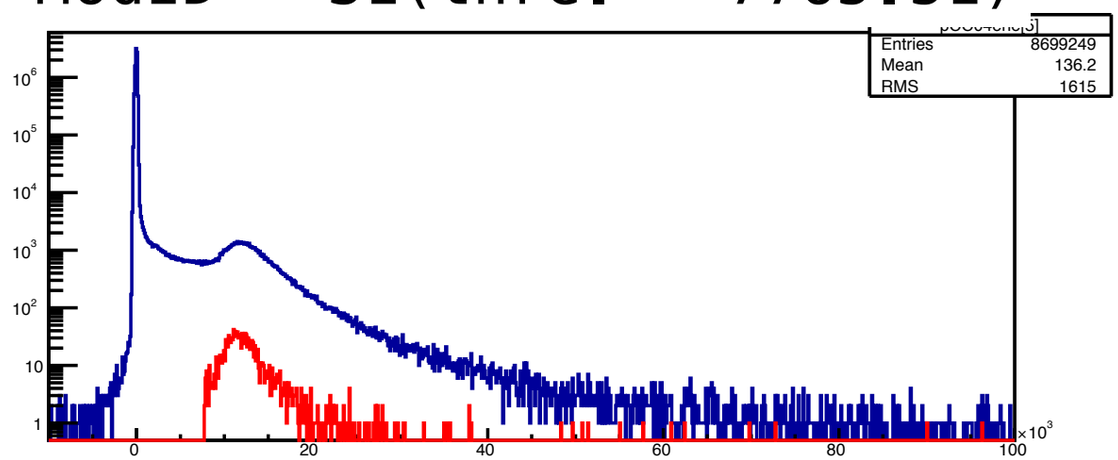
ModID = 17(thre. = 7632.11)



ModID = 39(thre. = 7620.02)



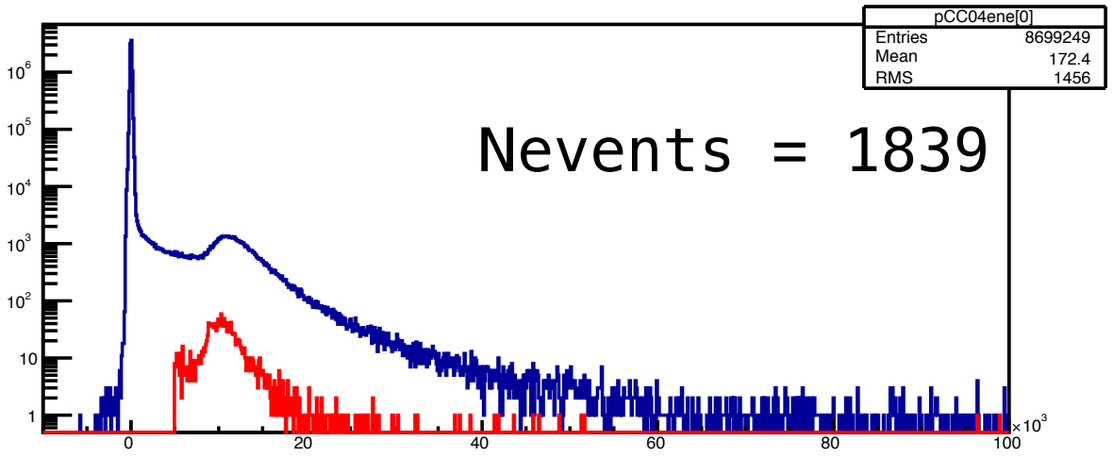
ModID = 31(thre. = 7765.51)



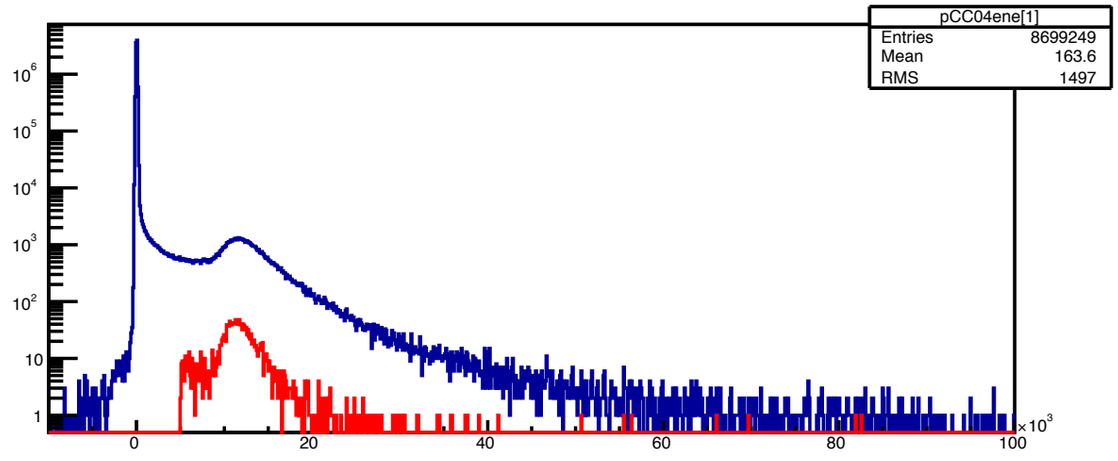
CC04 Distribution cut by ther. = 5000

For North

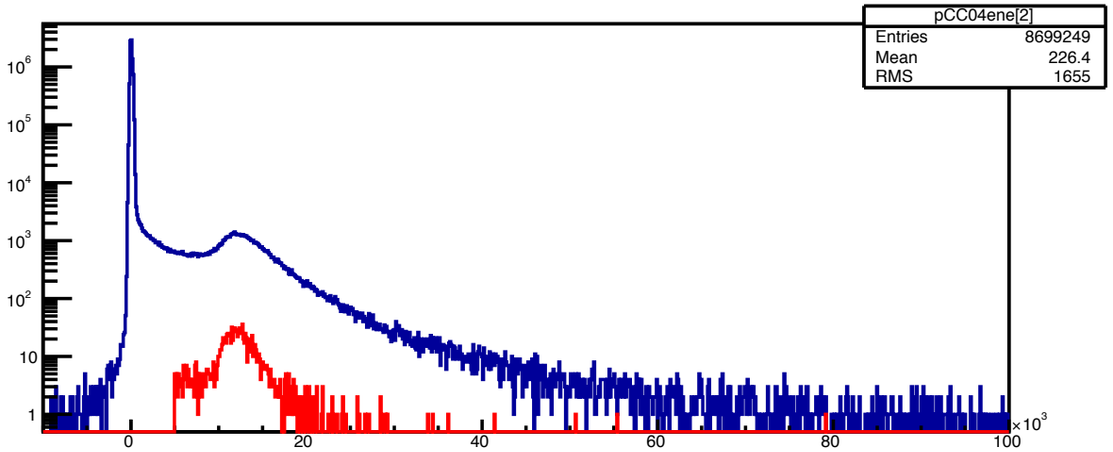
ModID = 10



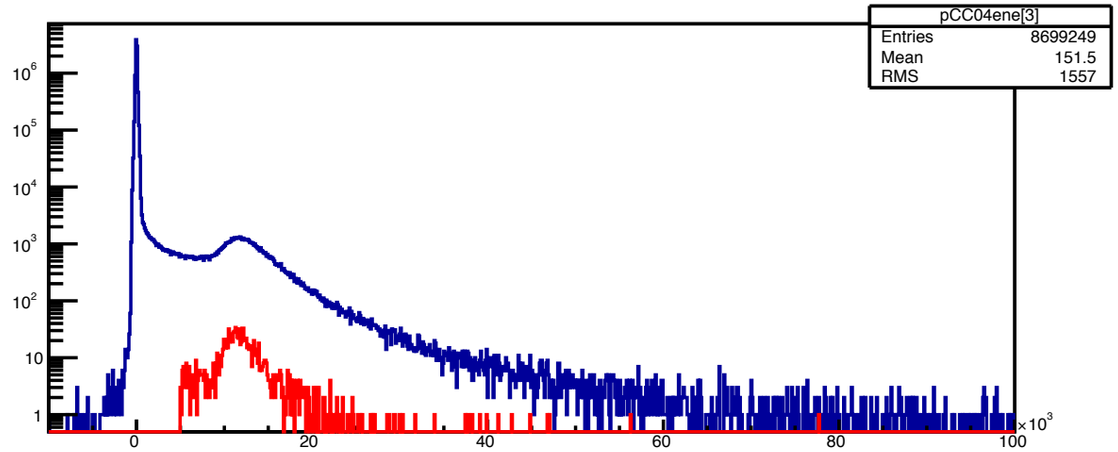
ModID = 2



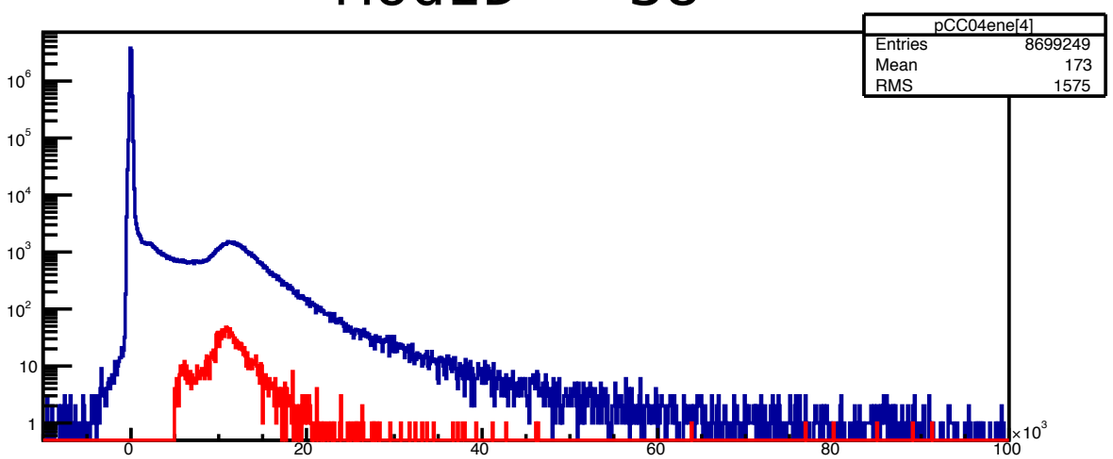
ModID = 24



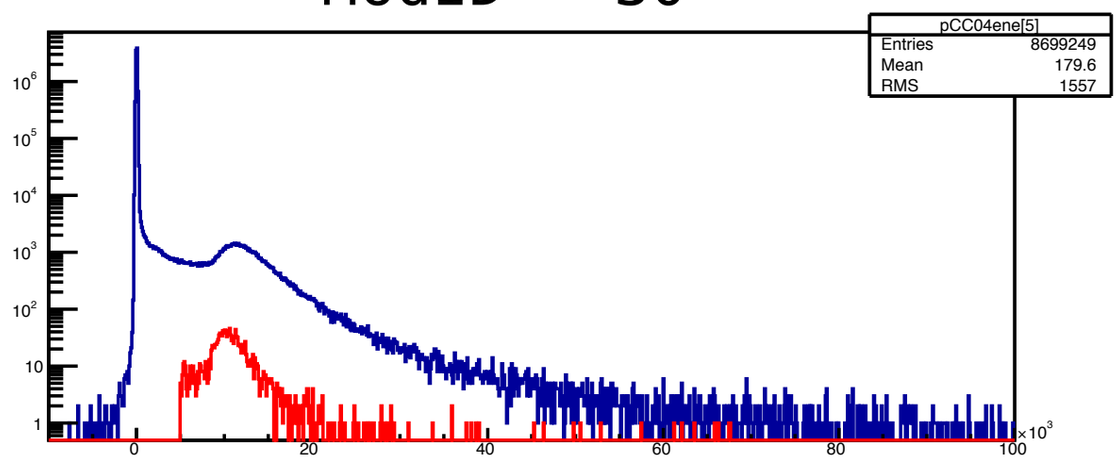
ModID = 16



ModID = 38



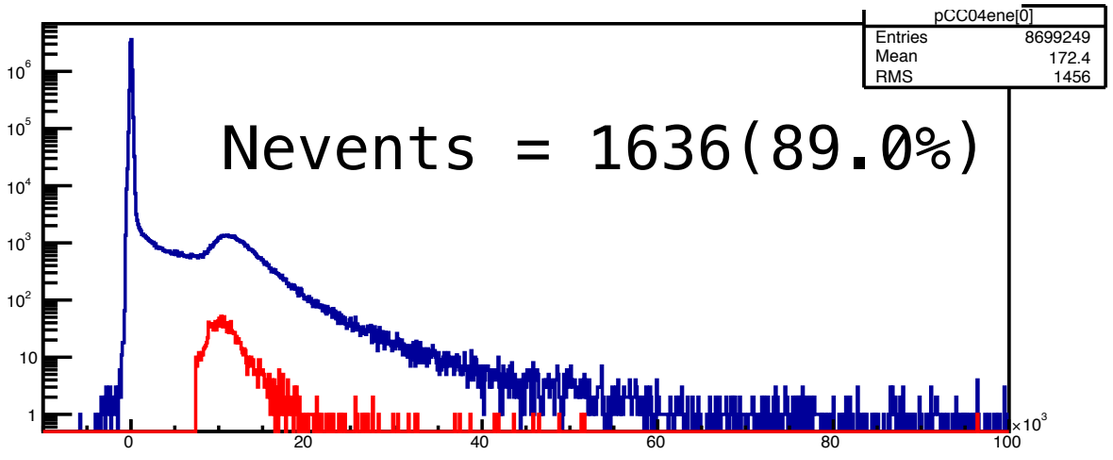
ModID = 30



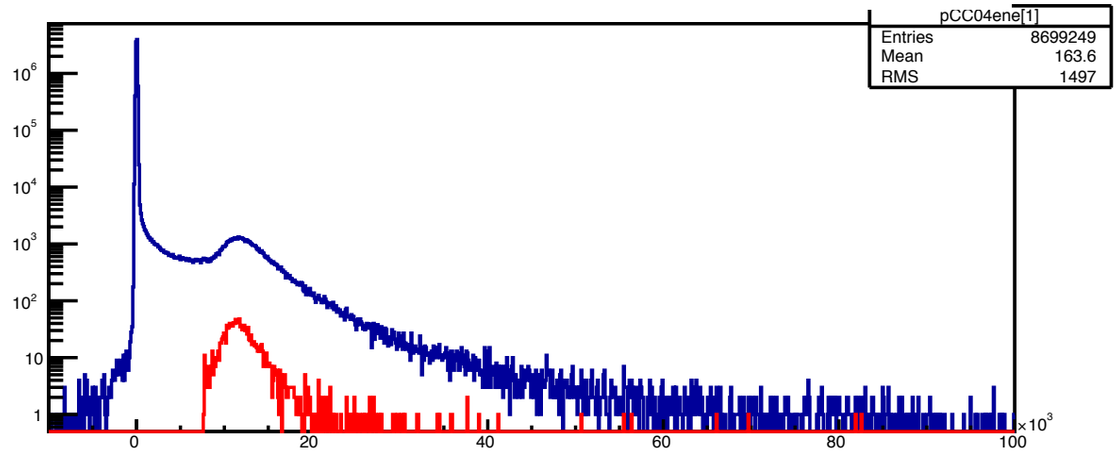
CC04 Distribution cut by ther. = MPV * 0.7

For North

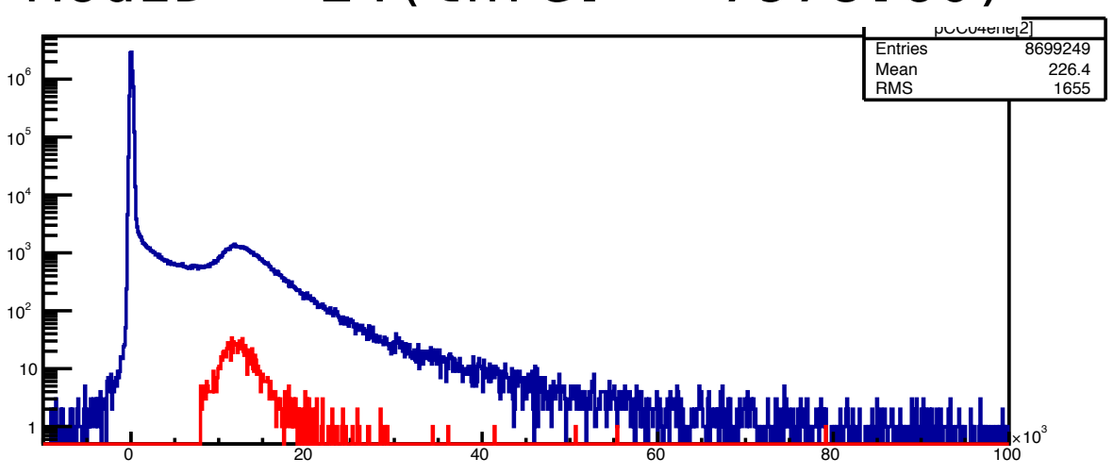
ModID = 10(thre. = 7380.33)



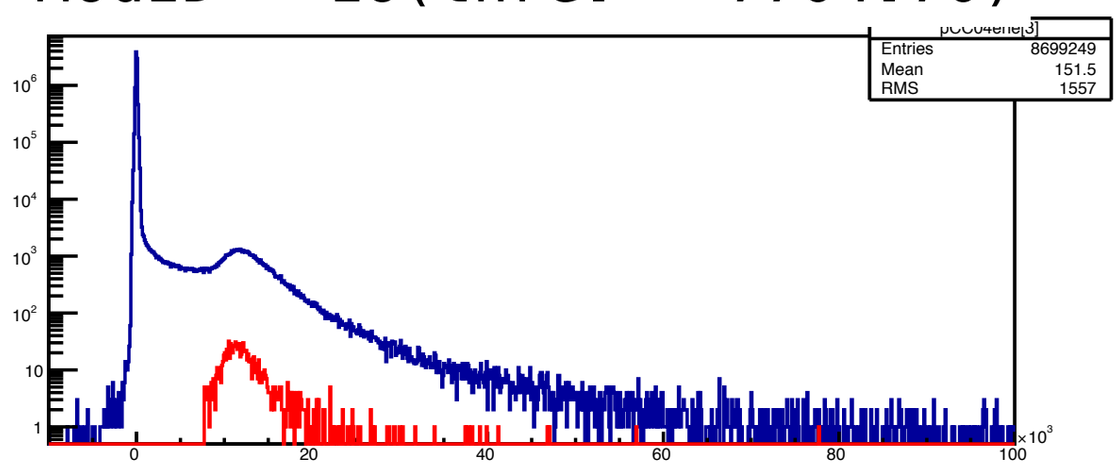
ModID = 2(thre. = 7693.93)



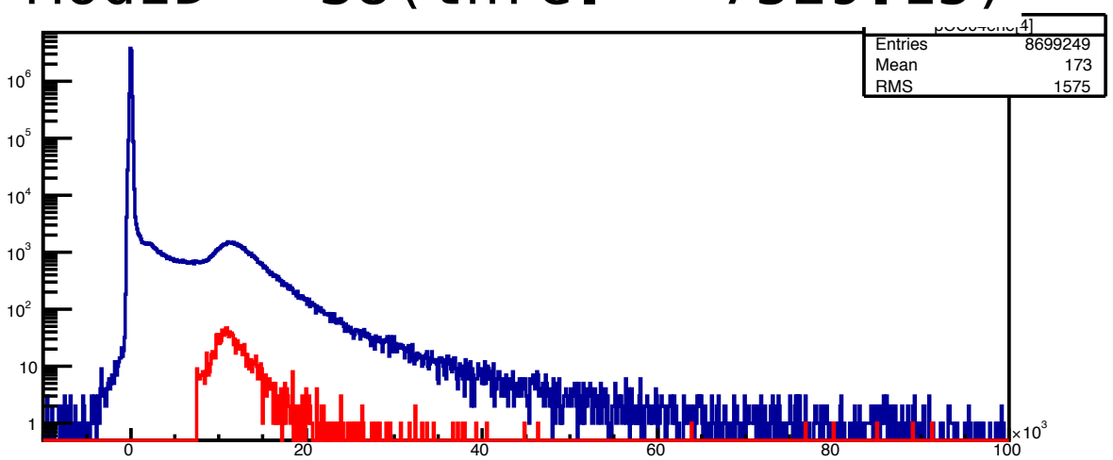
ModID = 24(thre. = 7978.60)



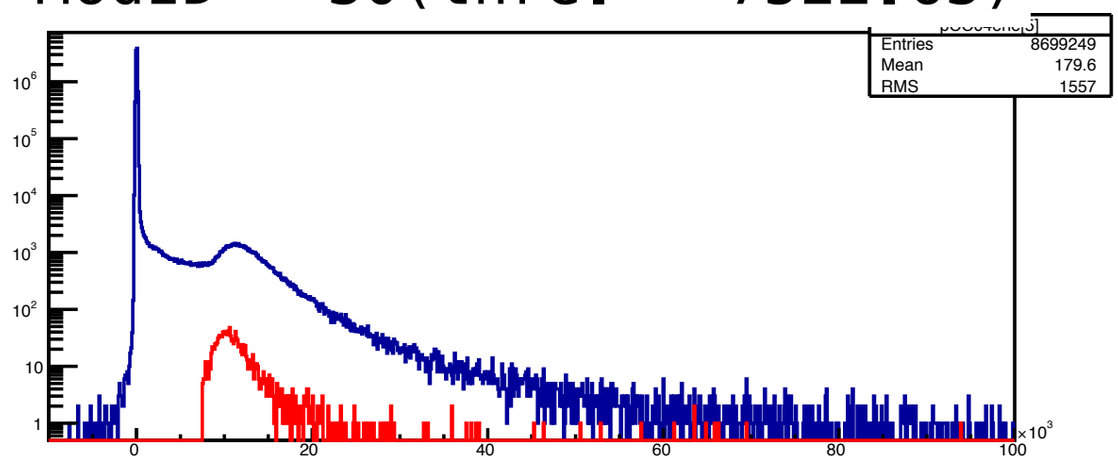
ModID = 16(thre. = 7704.70)



ModID = 38(thre. = 7529.15)



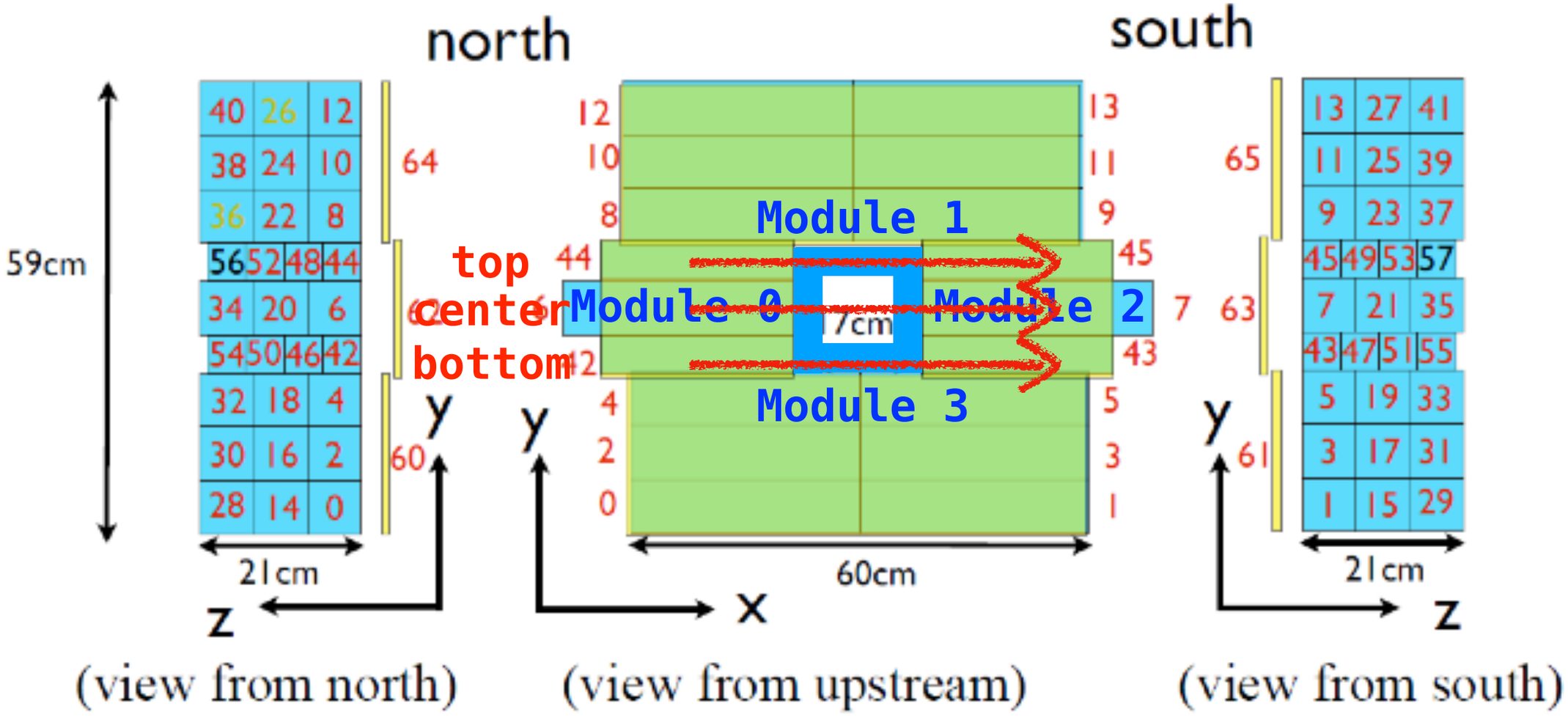
ModID = 30(thre. = 7522.63)



CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

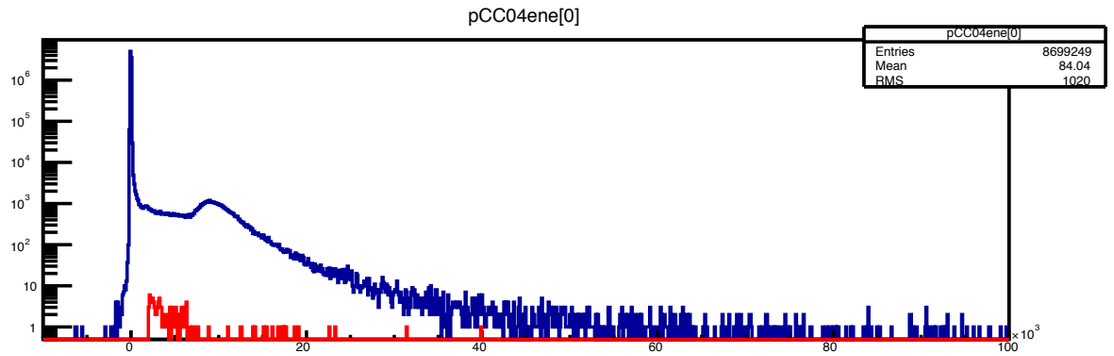
number=CC04ModID
(with amp channel)
(dead channel)

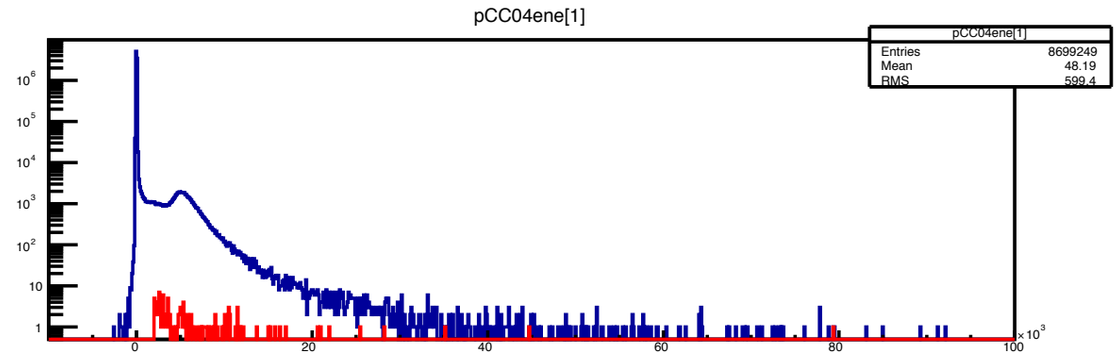


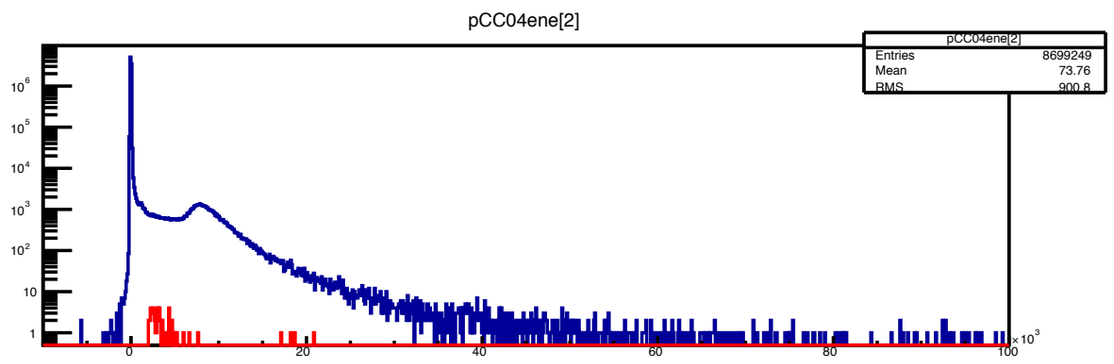
(view from north) (view from upstream) (view from south)

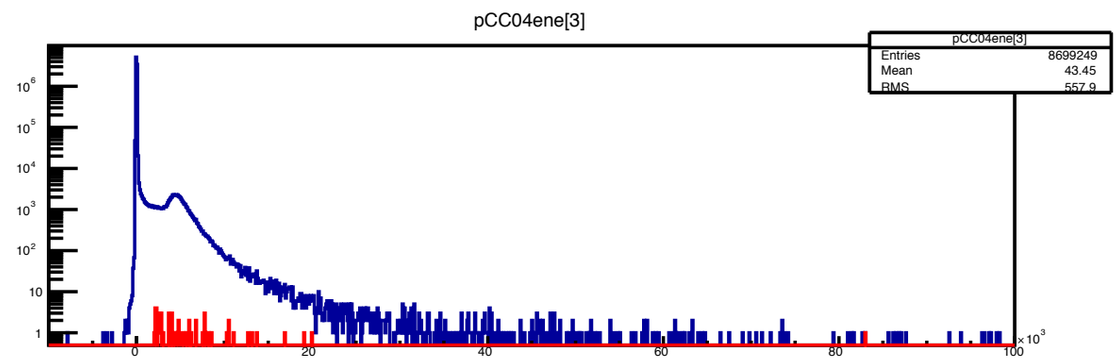
CC04 Distribution cut by constant ther.

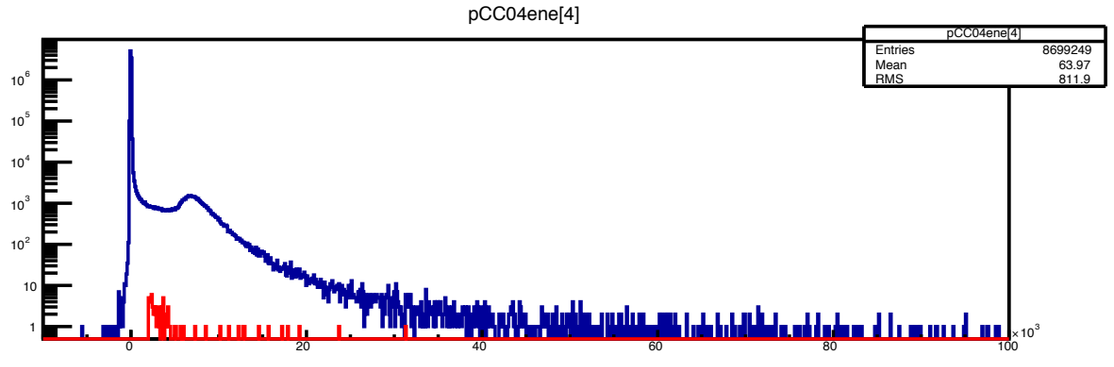
For Top(Straight)

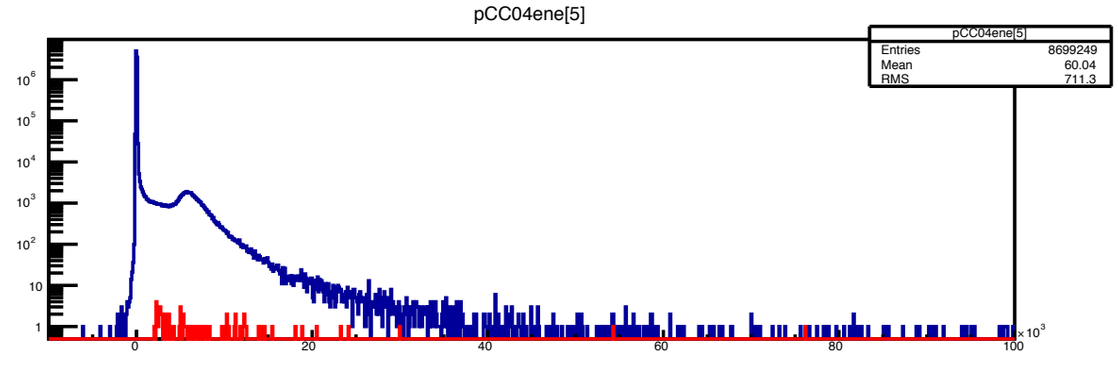


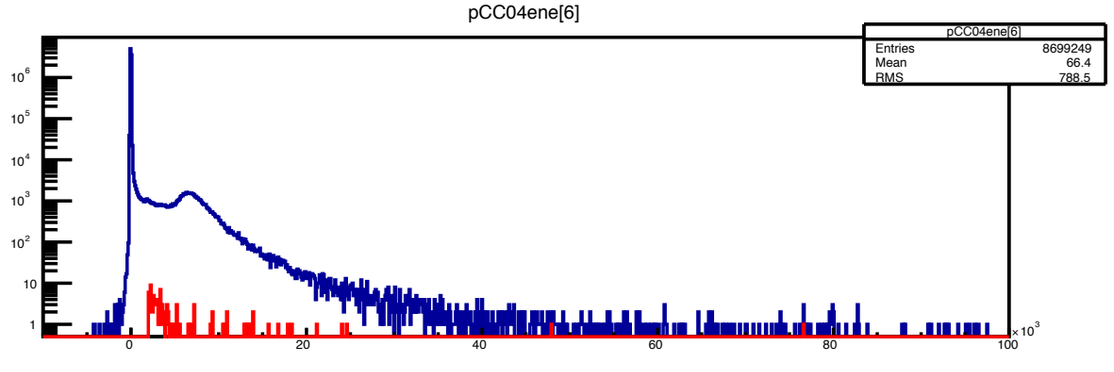


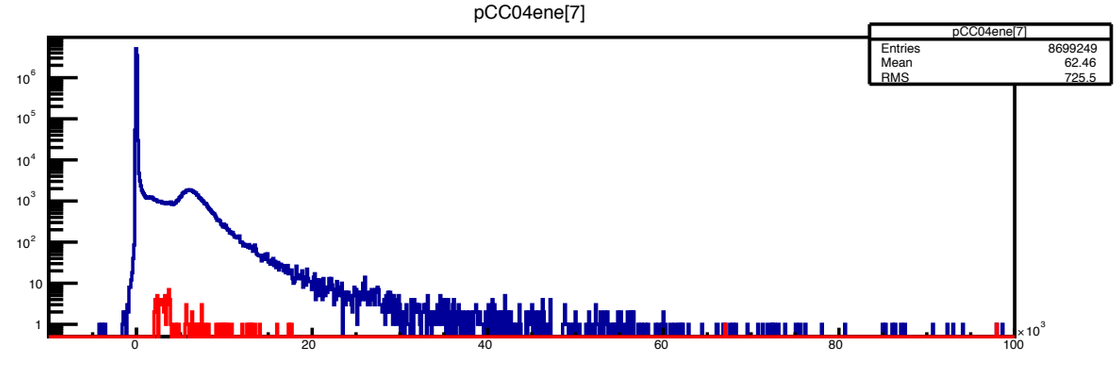






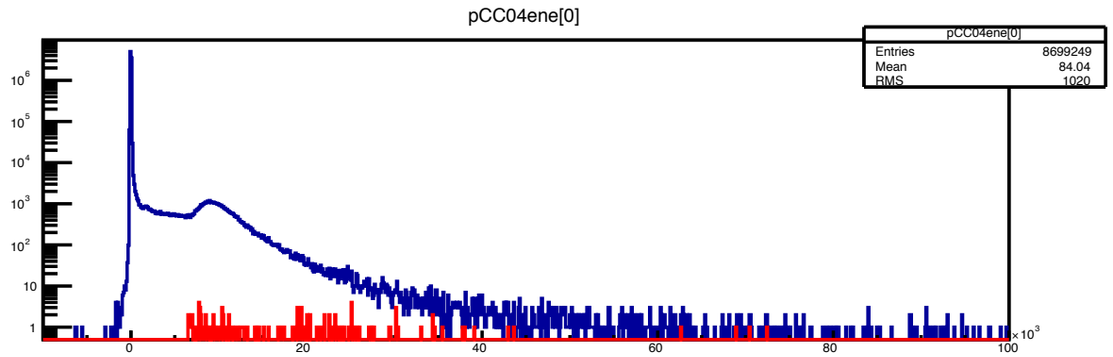


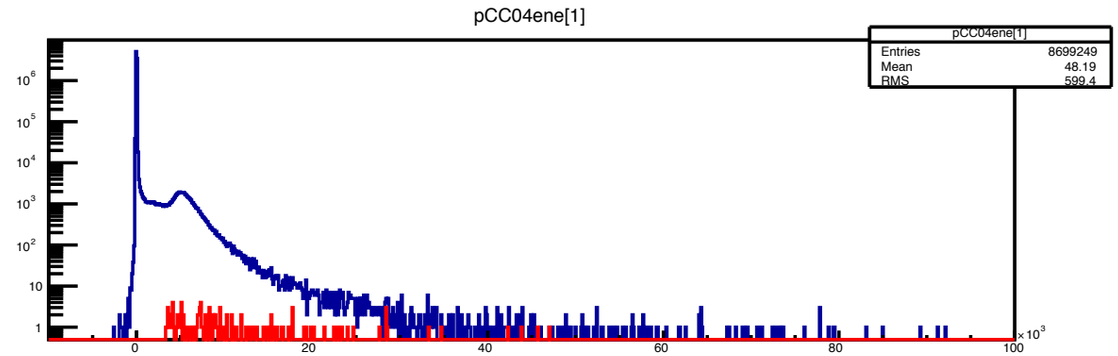


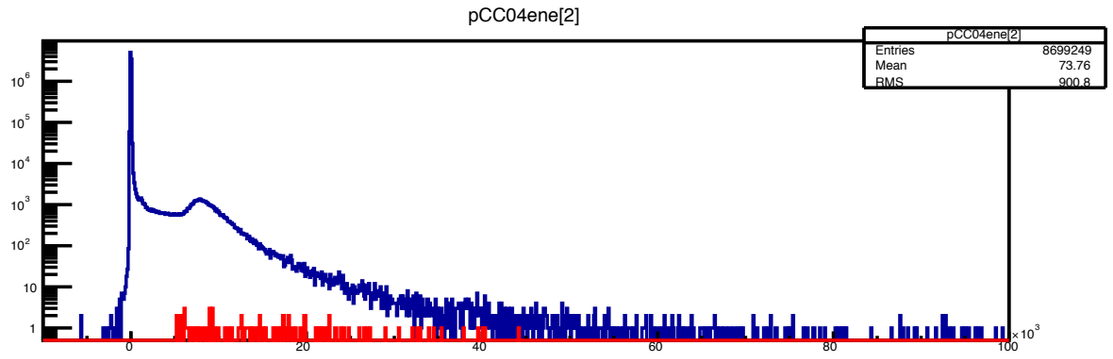


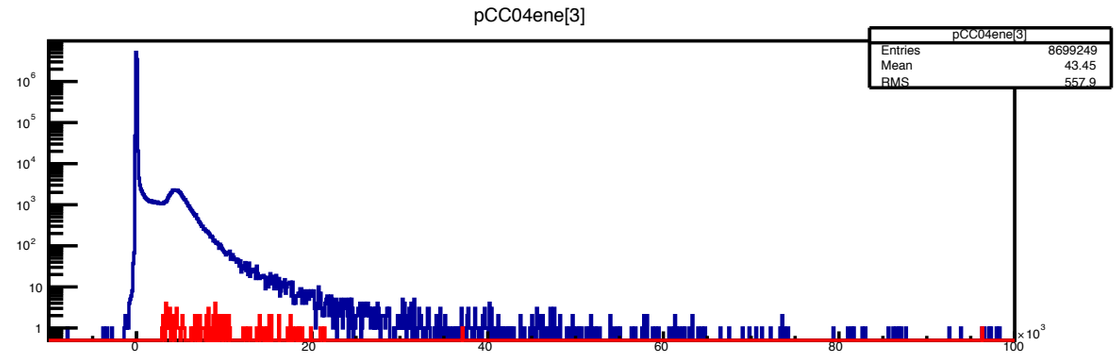
CC04 Distribution cut by ther. = MPV * 0.7

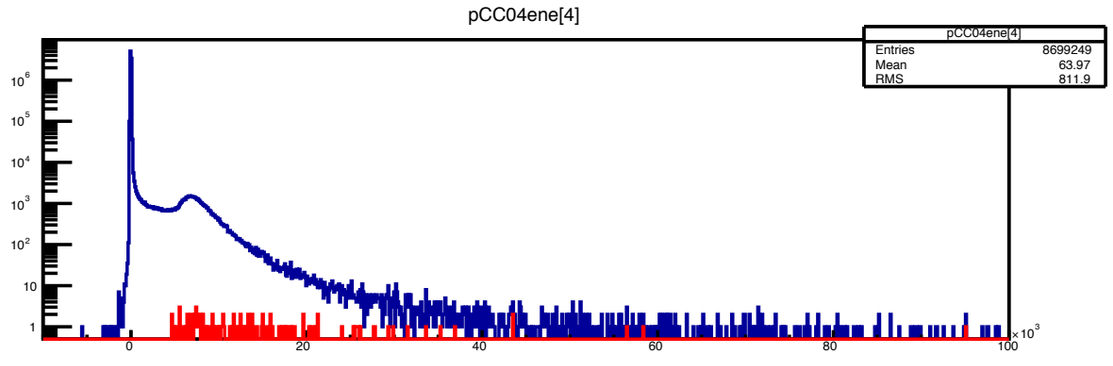
For Top(Straight)

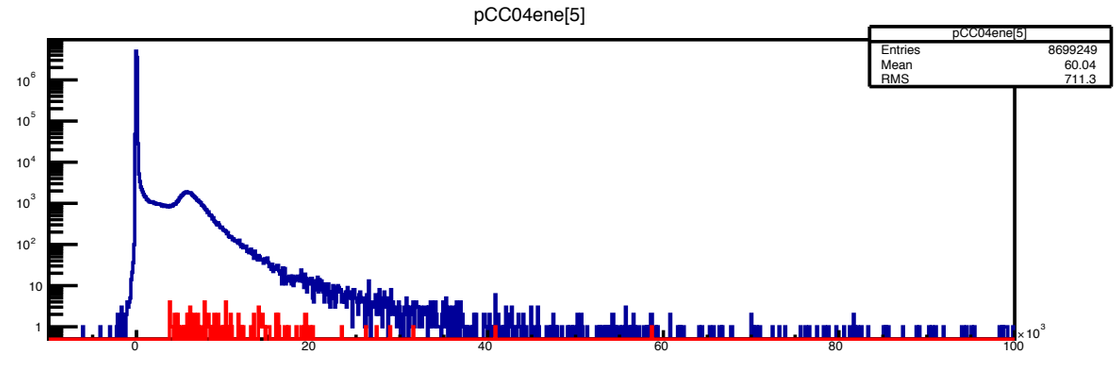


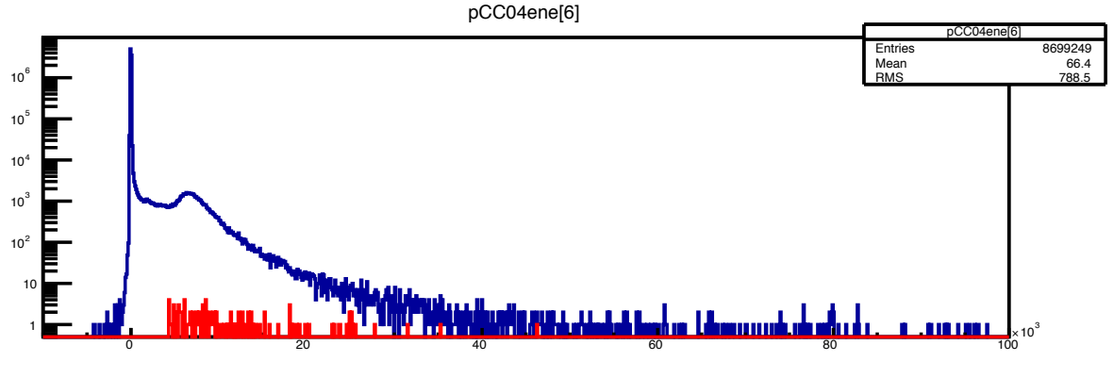


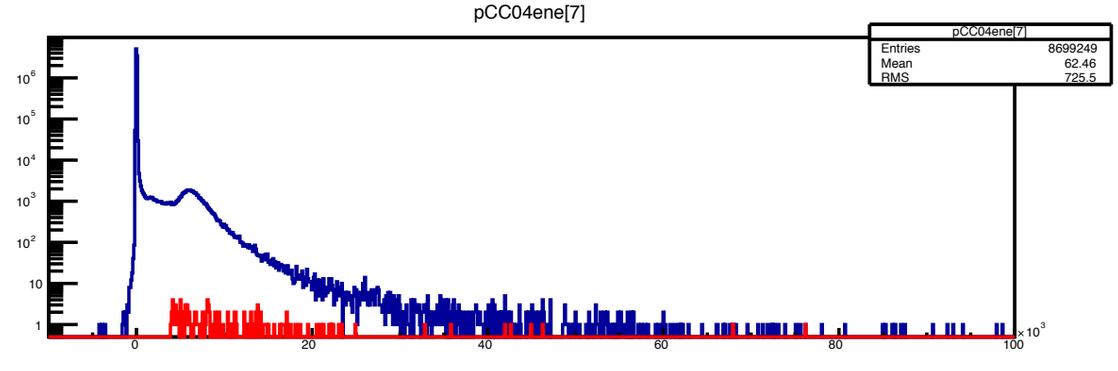






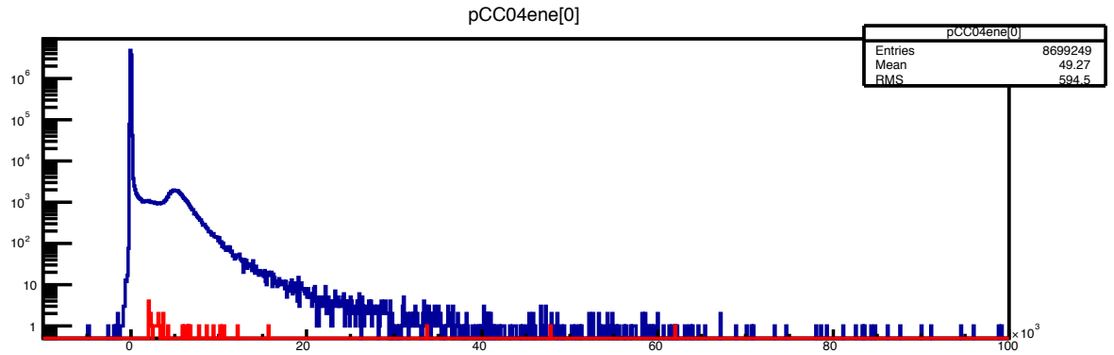


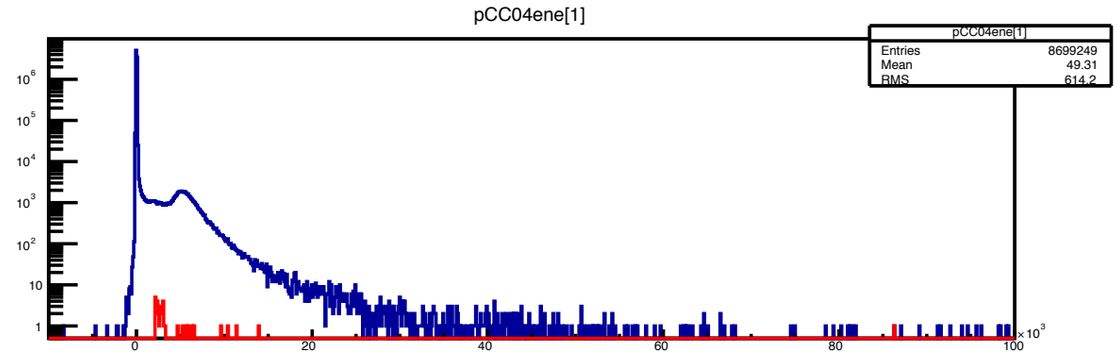


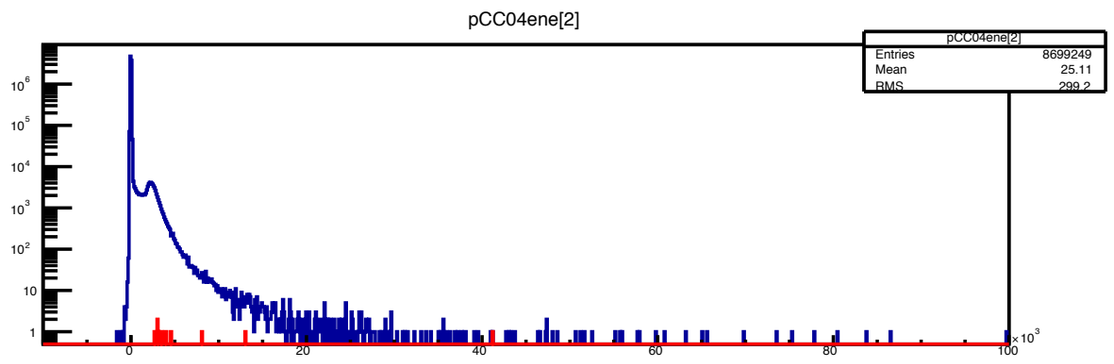


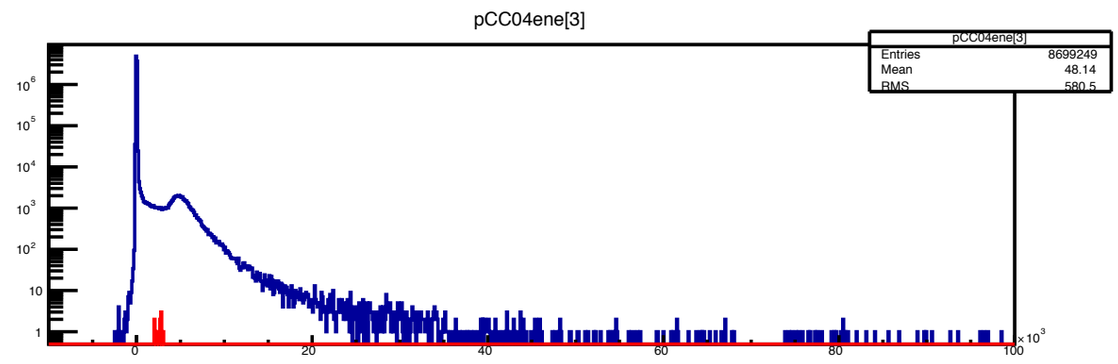
CC04 Distribution cut by constant ther.

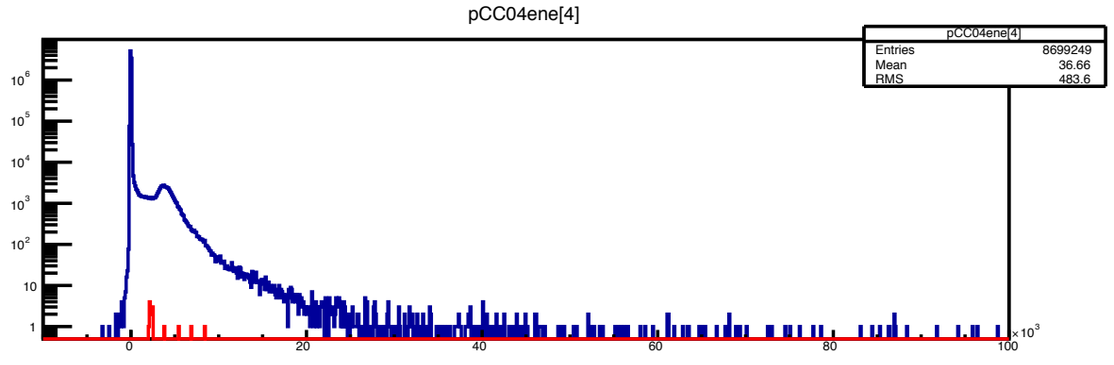
For Bottom(Straight)

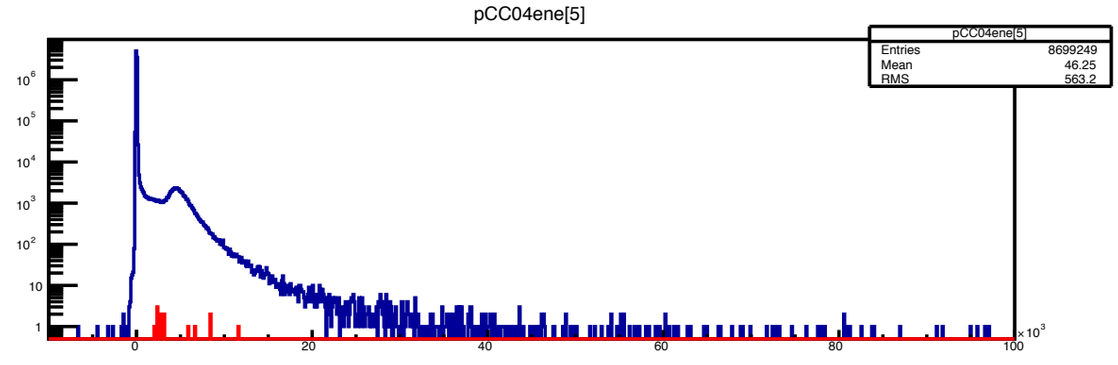


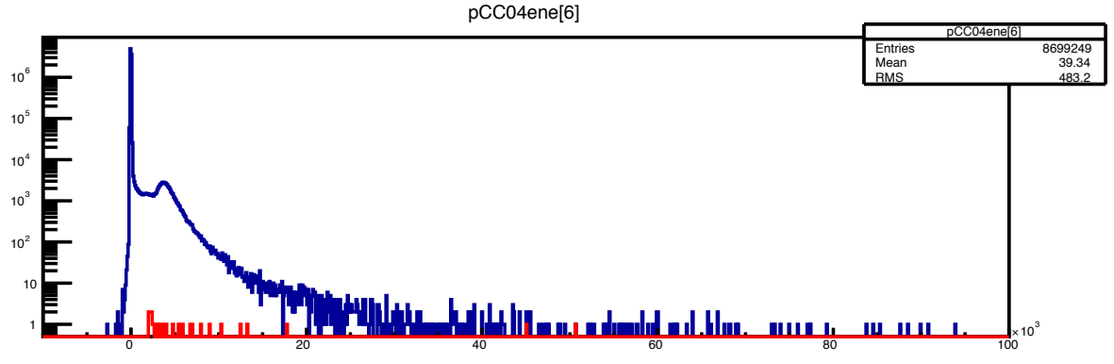


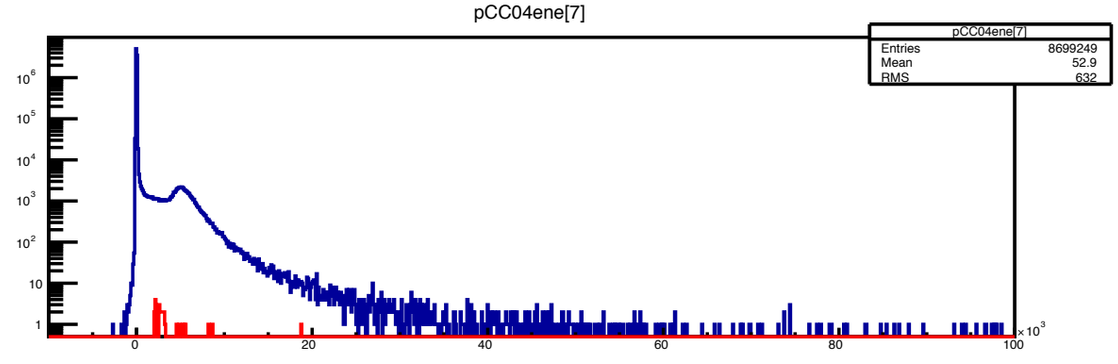






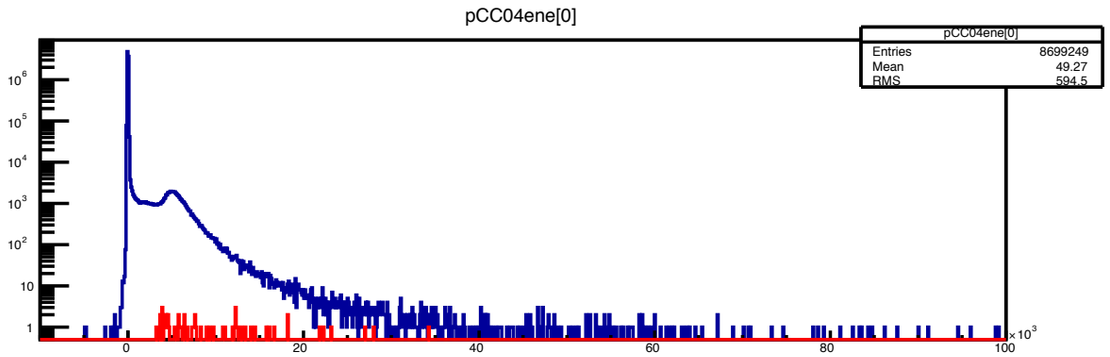


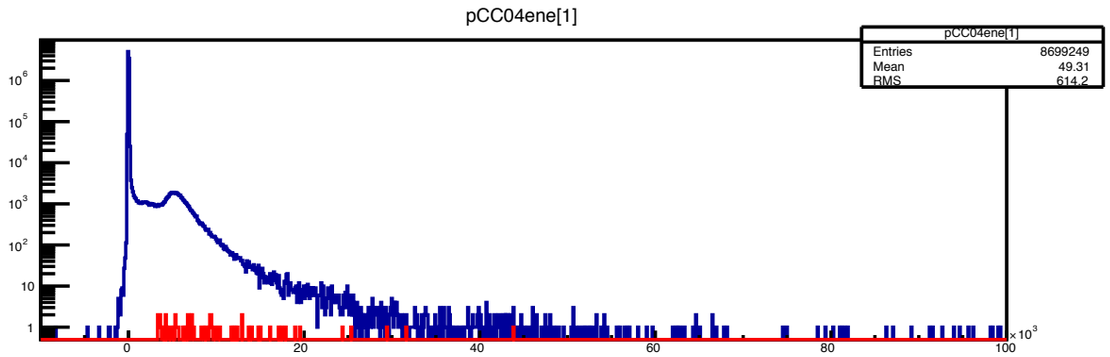


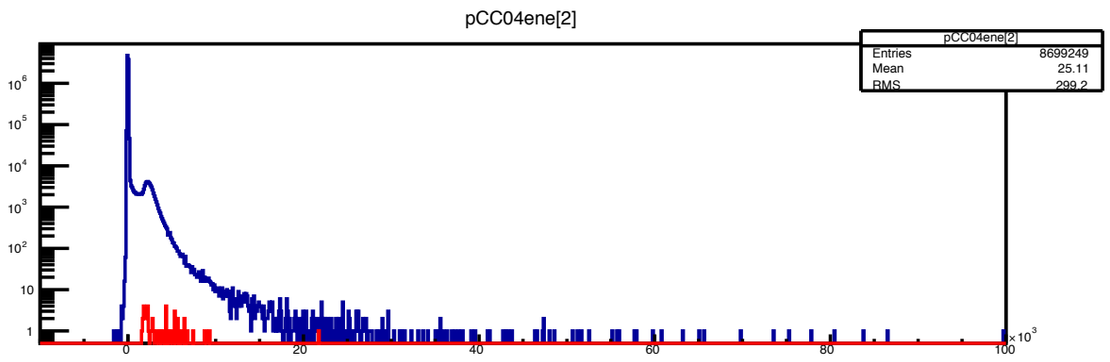


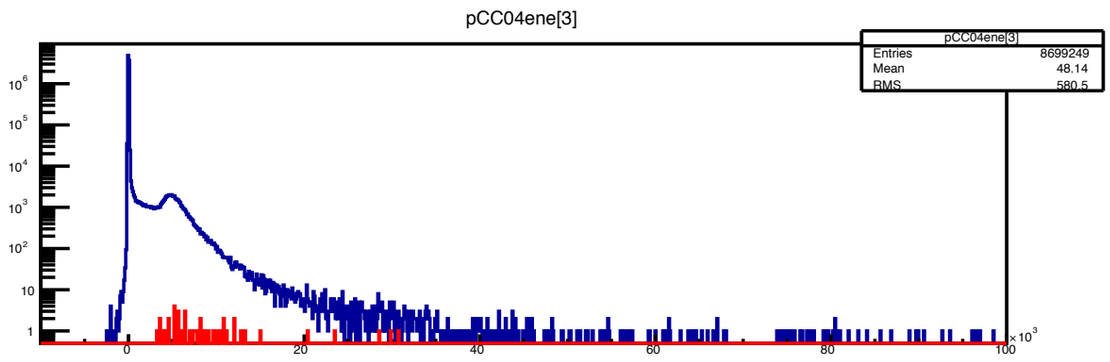
CC04 Distribution cut by ther. = MPV * 0.7

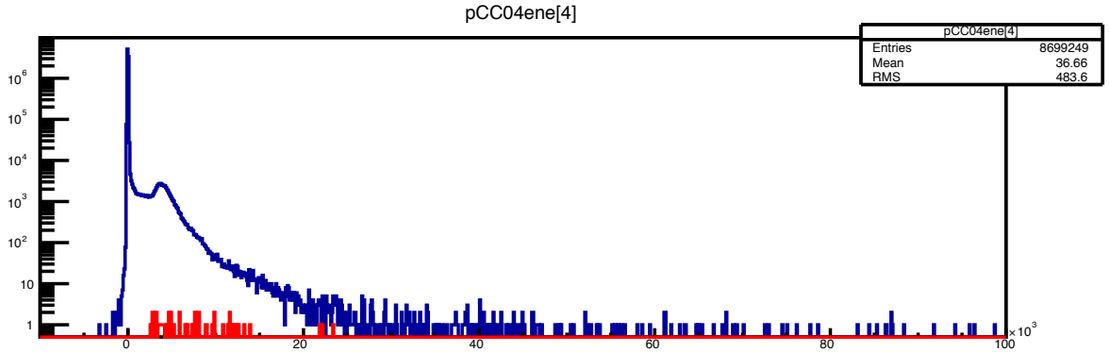
For Bottom(Straight)

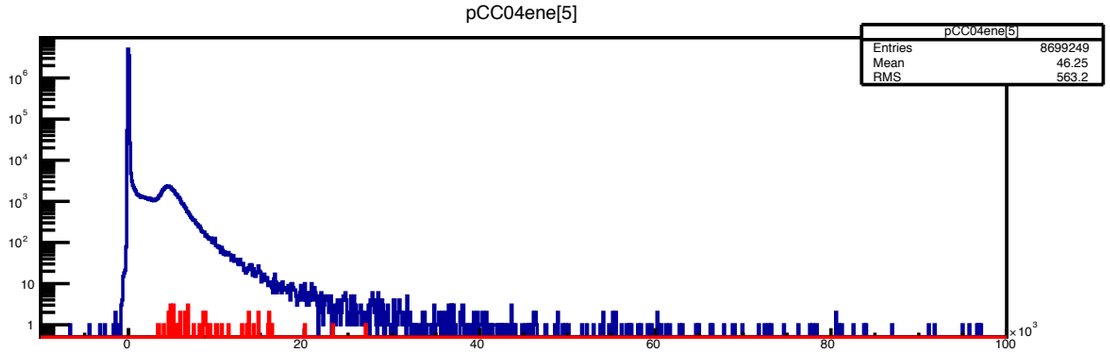


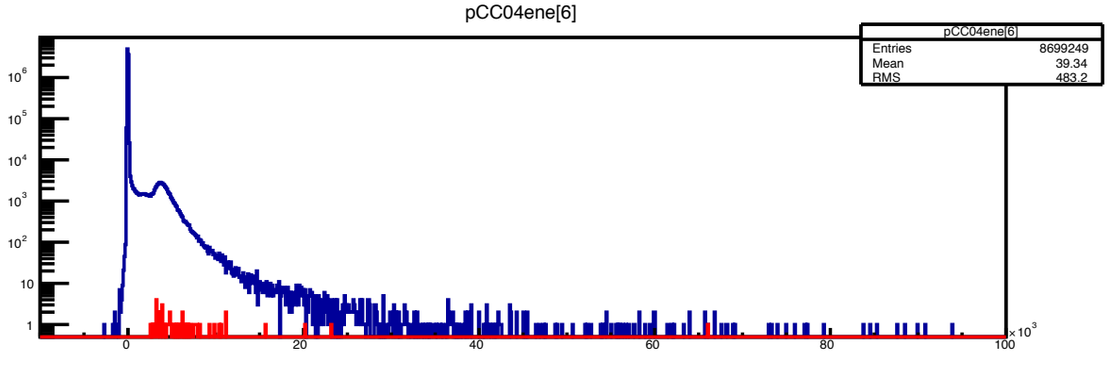


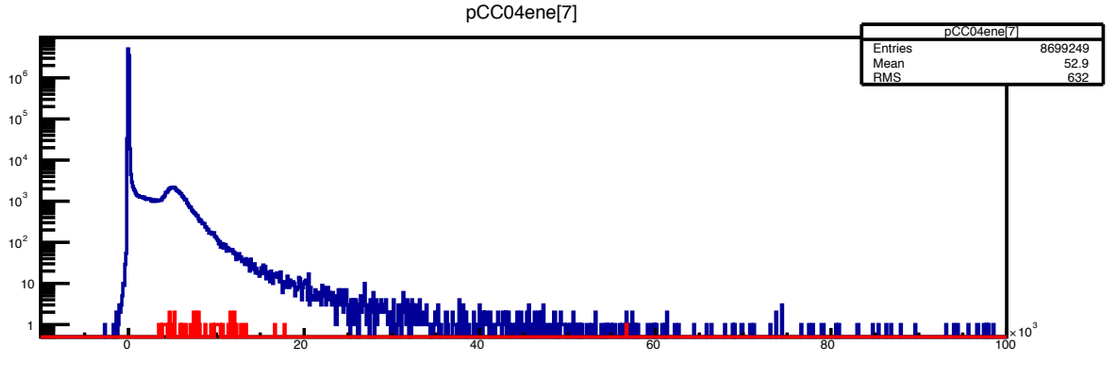








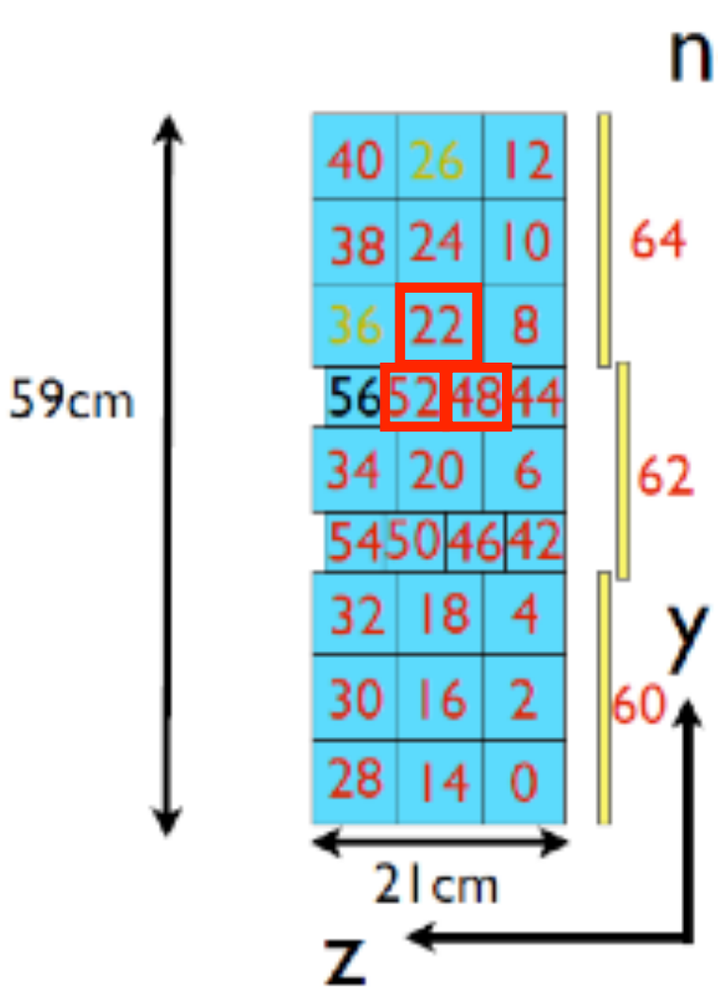




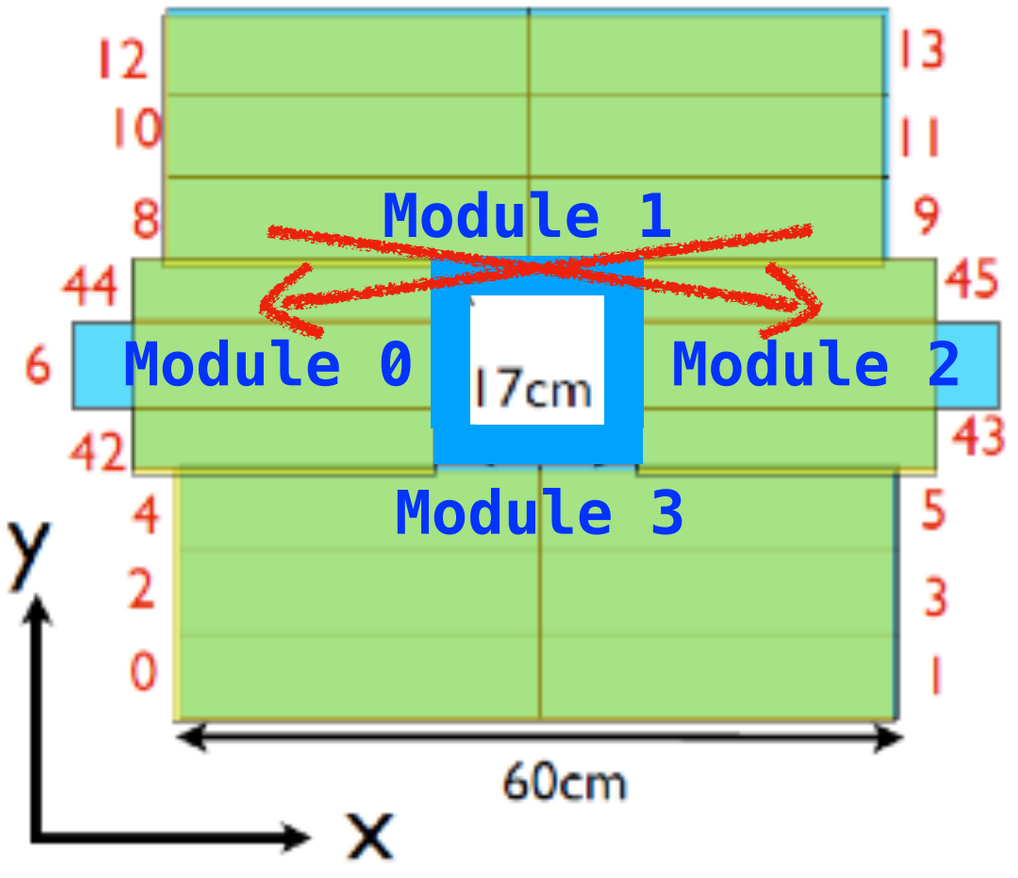
CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

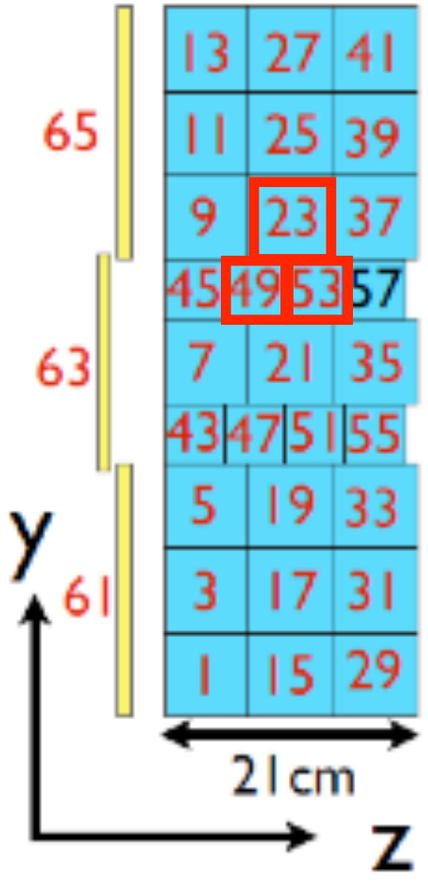
number=CC04ModID
(with amp channel)
(dead channel)



(view from north)



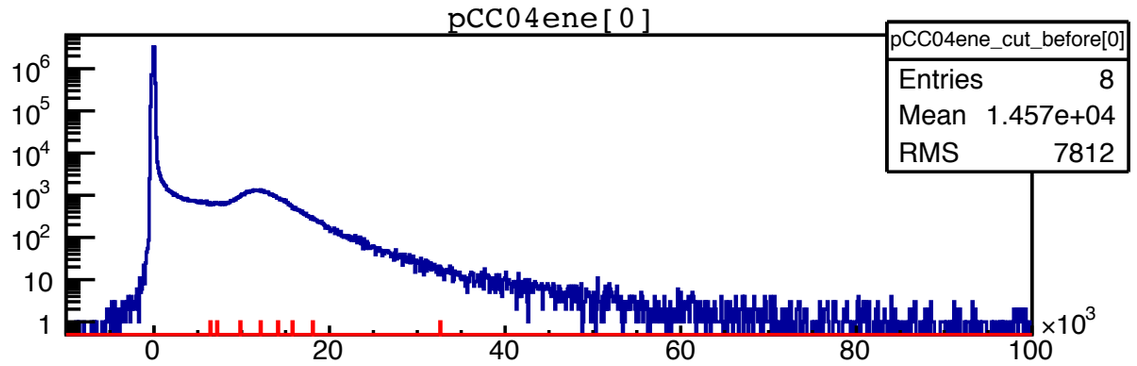
(view from upstream)

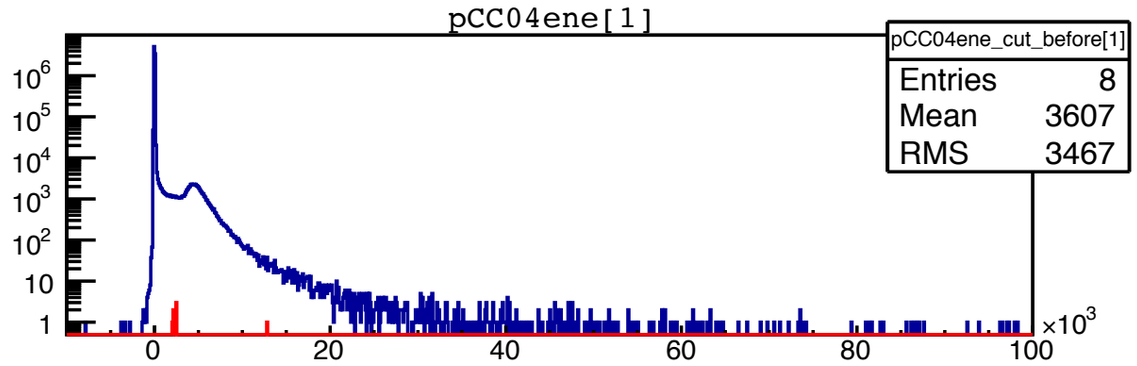


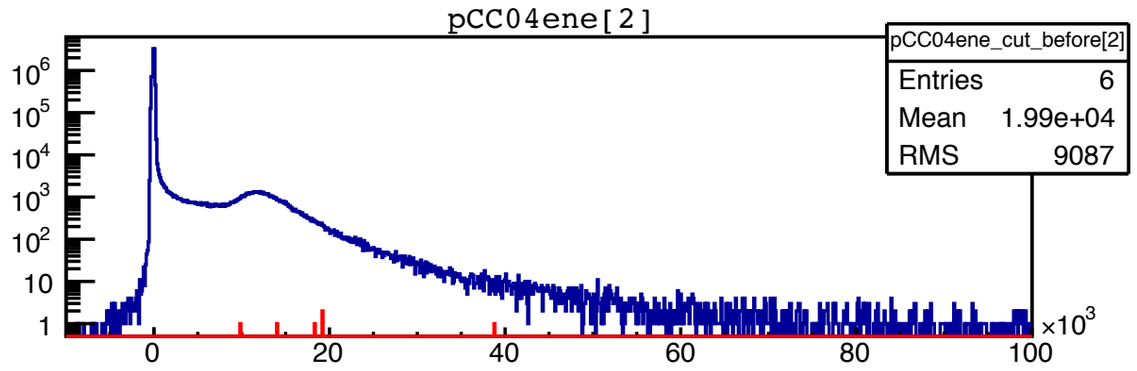
(view from south)

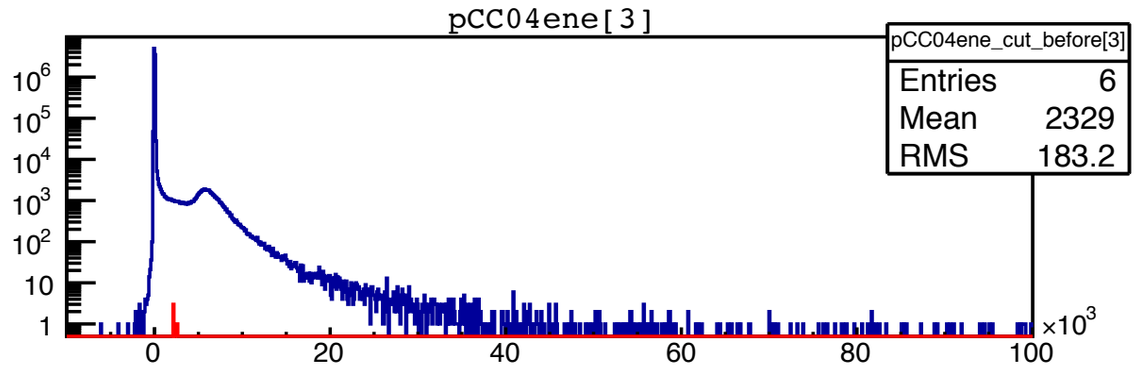
CC04 Distribution cut by constant ther.

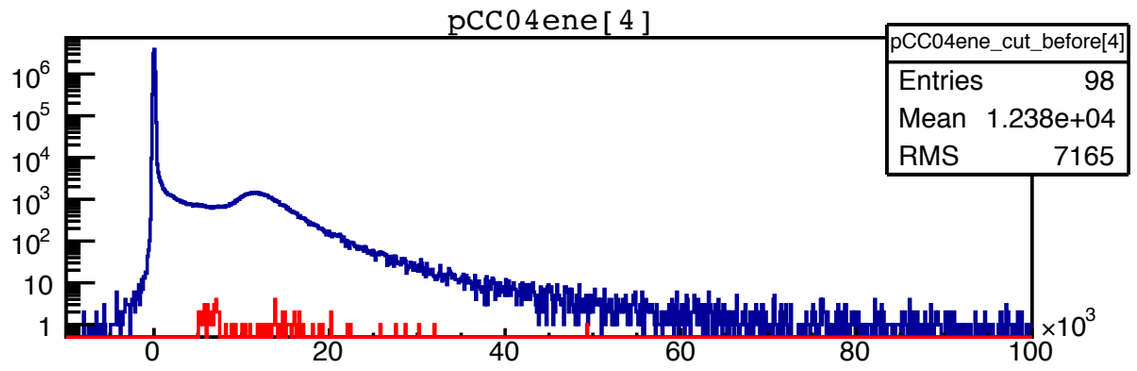
For Top(Cross)

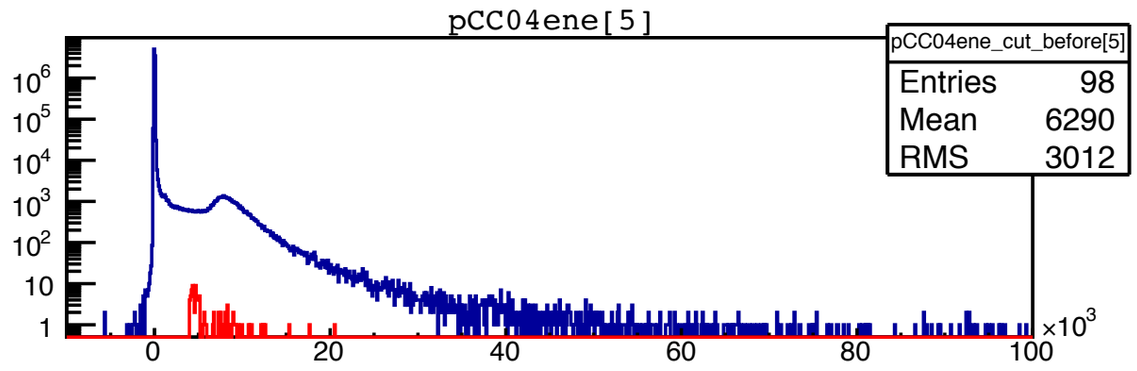


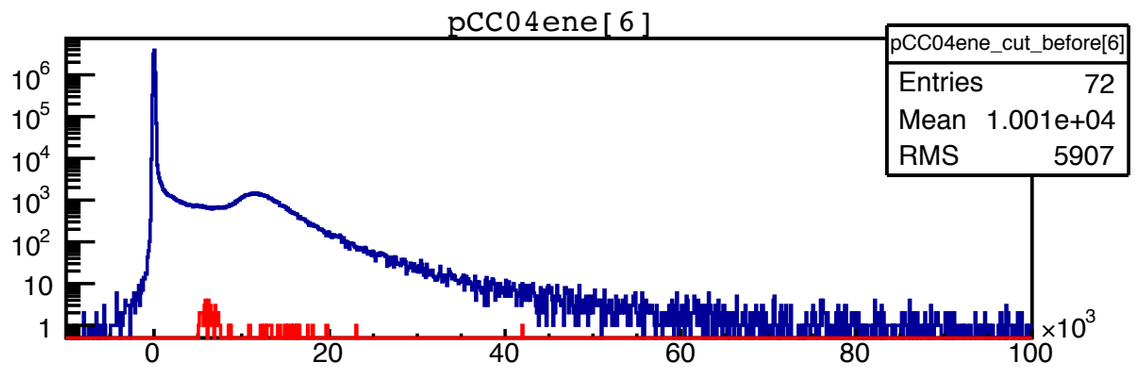


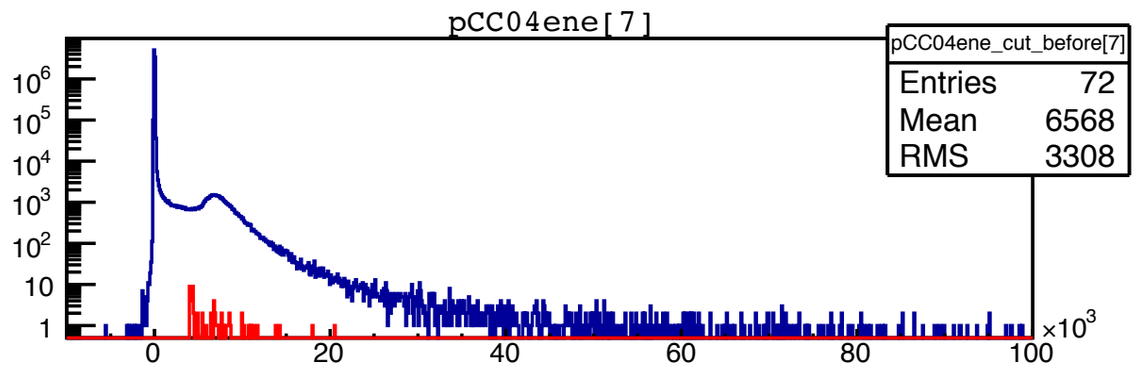








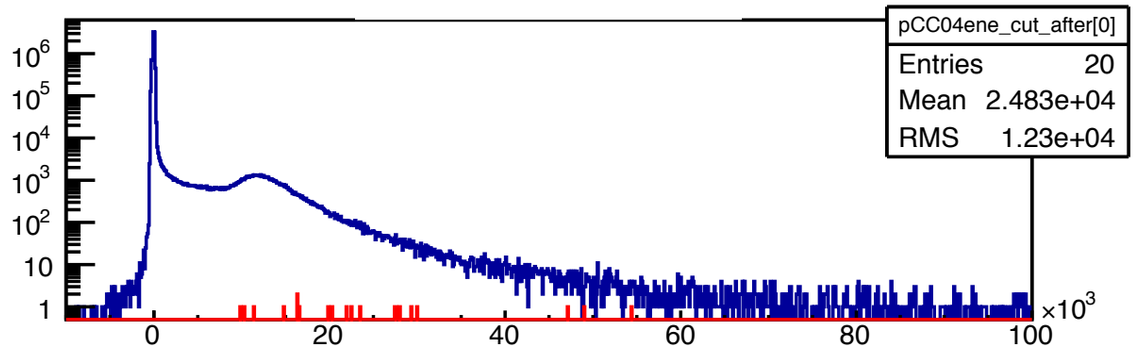




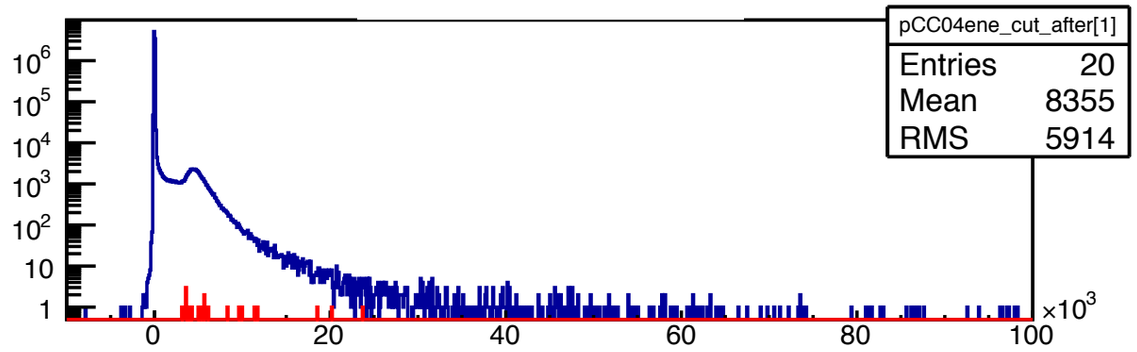
CC04 Distribution cut by ther. = MPV * 0.7

For Top(Cross)

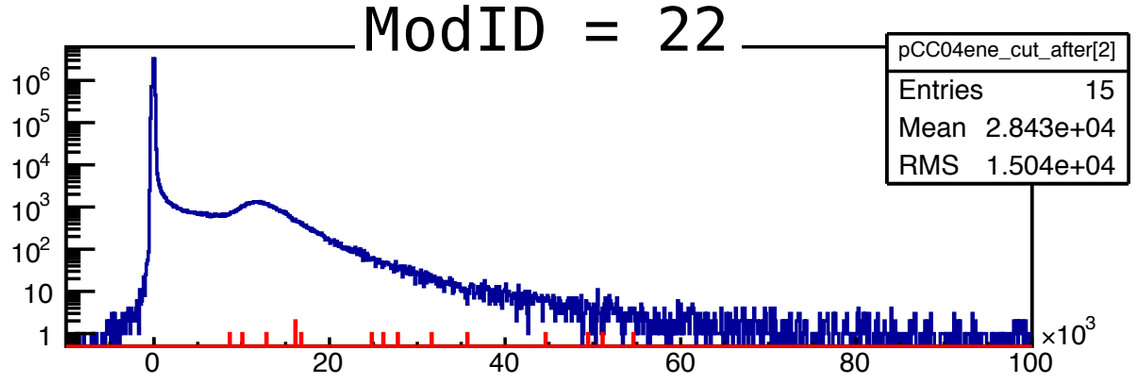
ModID = 22



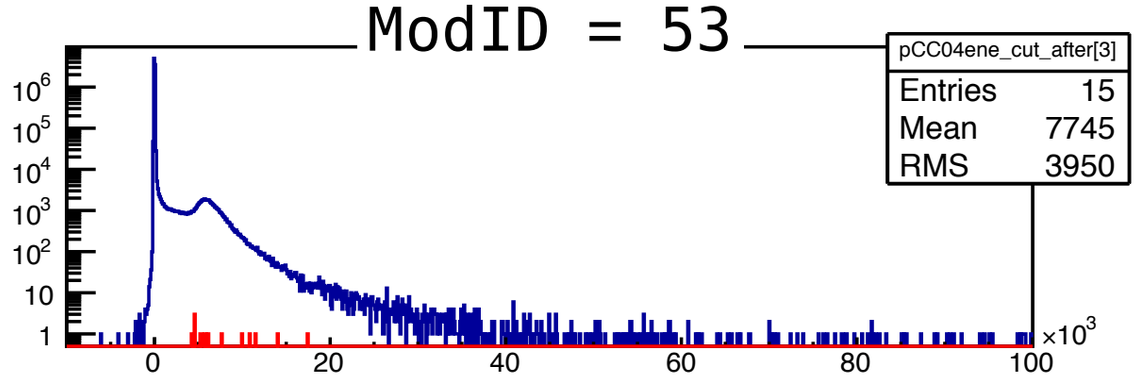
ModID = 49



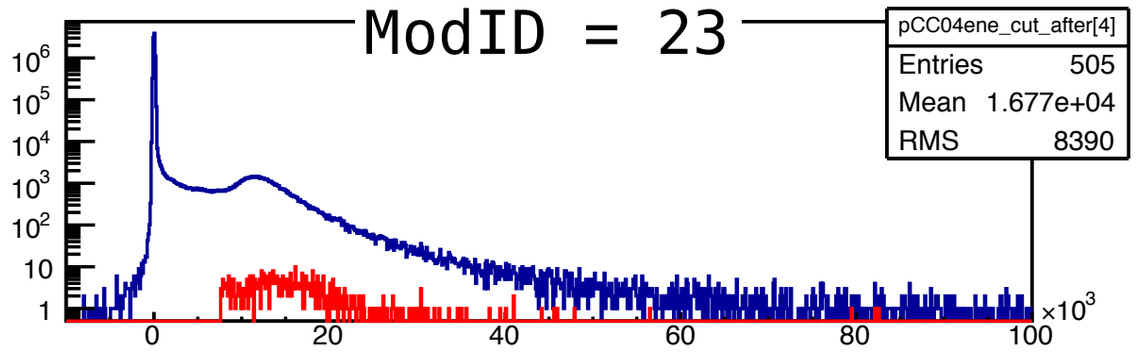
ModID = 22



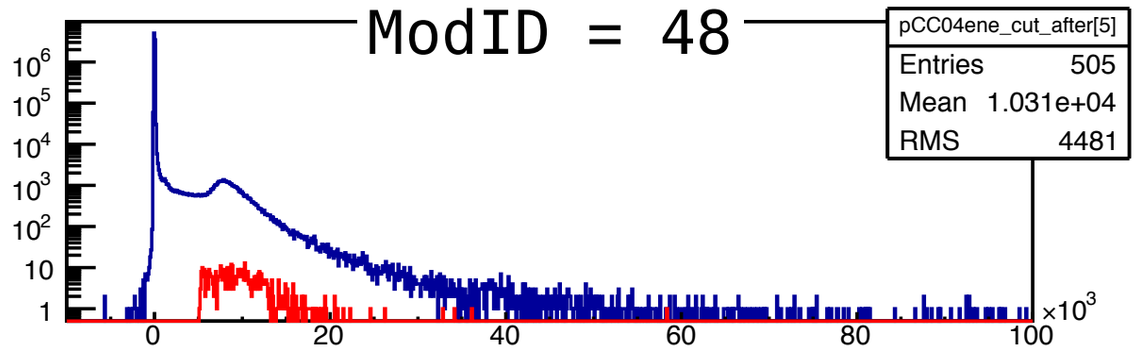
ModID = 53



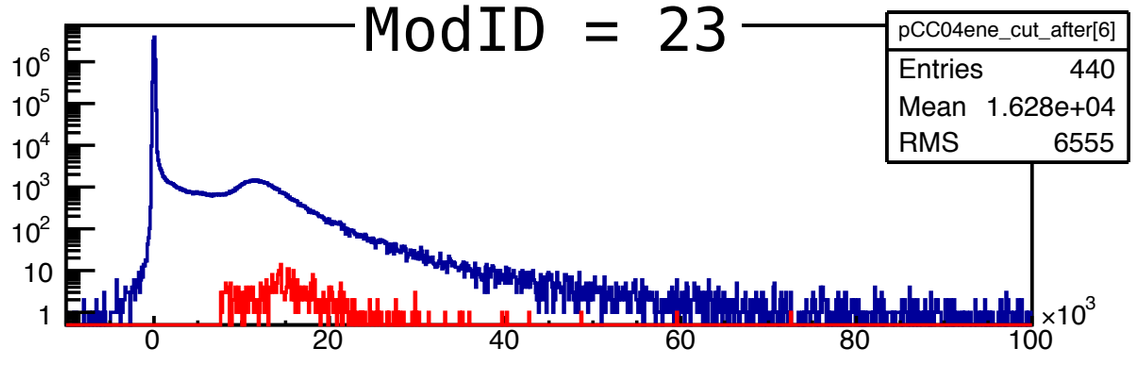
ModID = 23



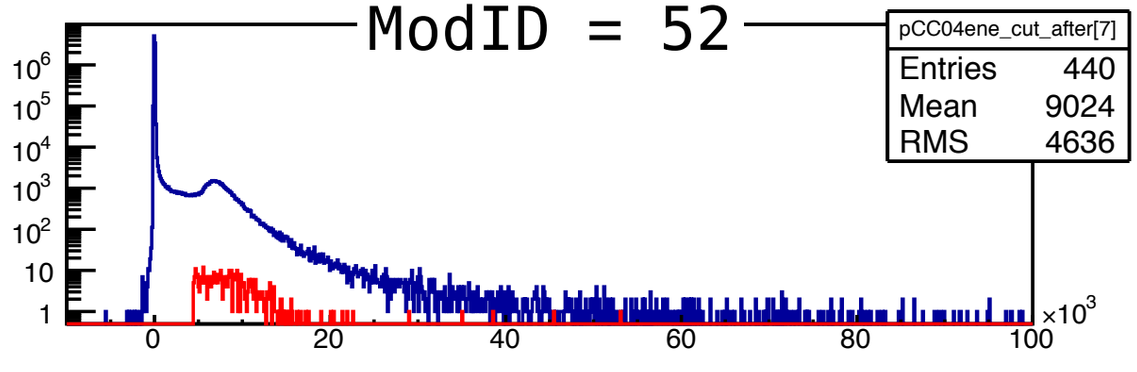
ModID = 48



ModID = 23



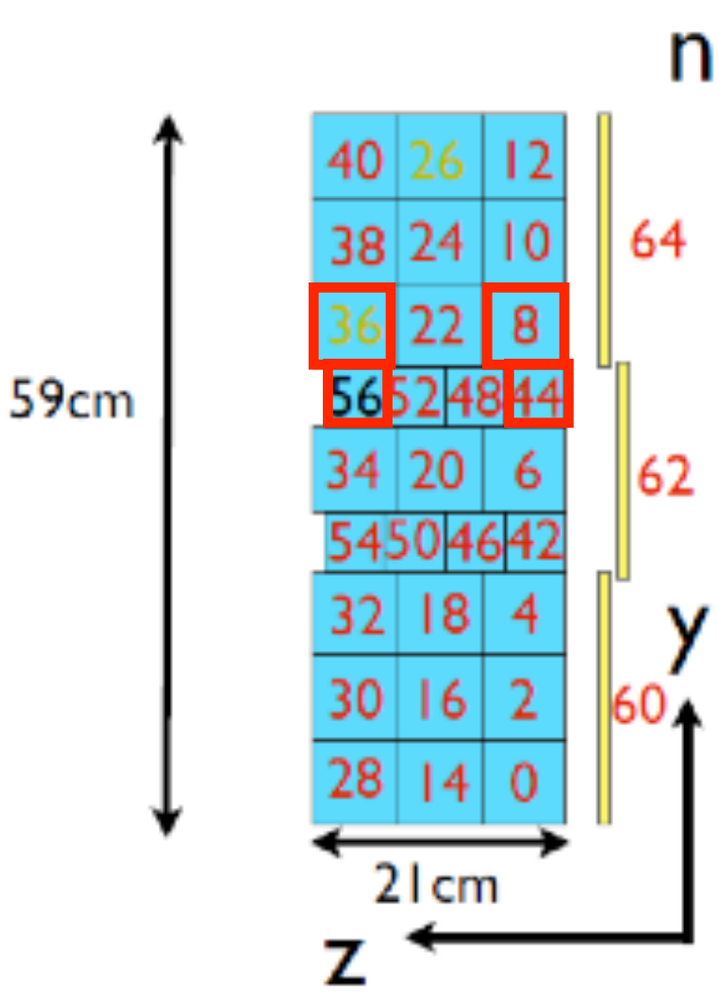
ModID = 52



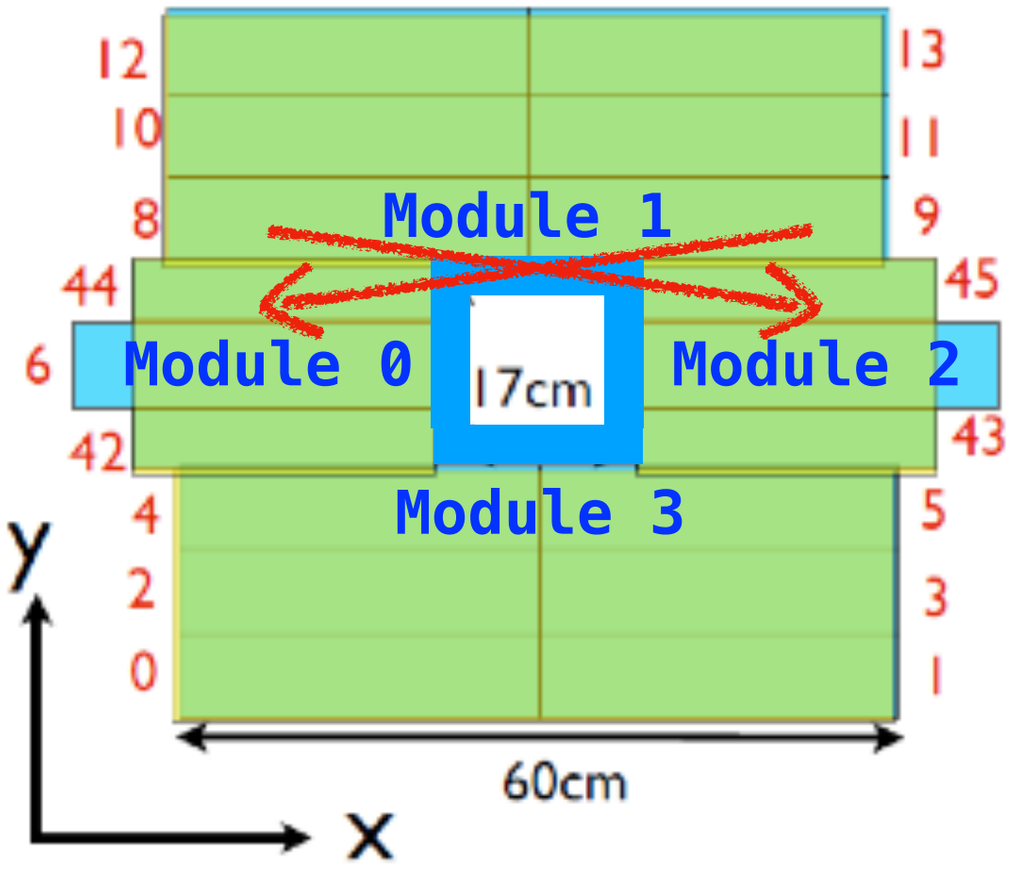
CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

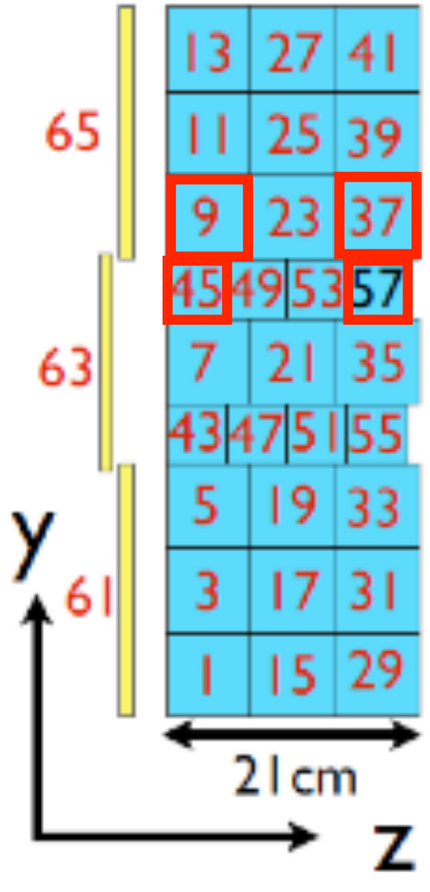
number=CC04ModID
(with amp channel)
(dead channel)



(view from north)



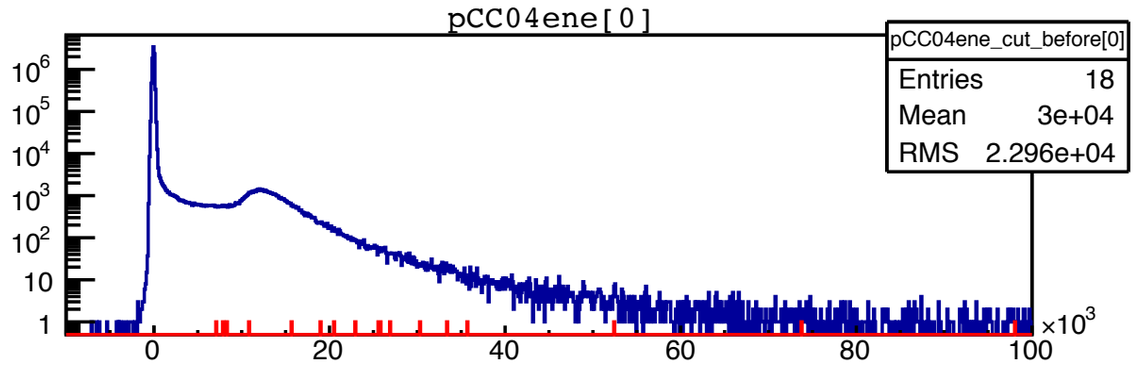
(view from upstream)

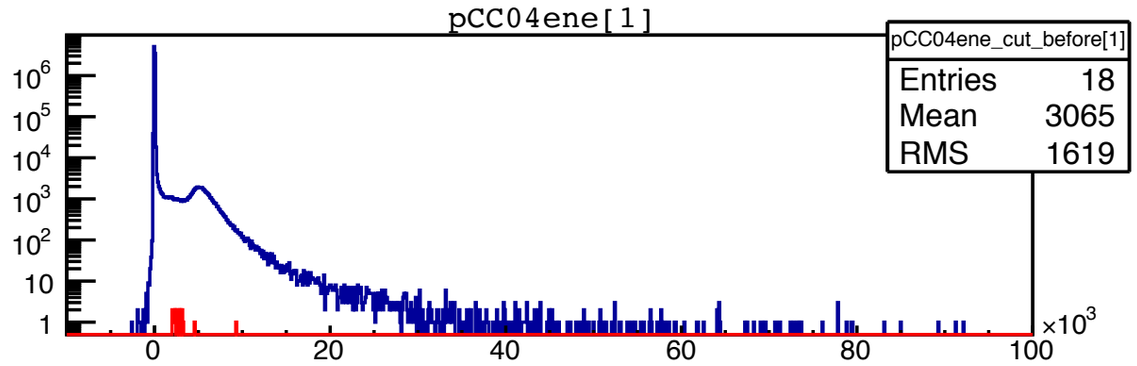


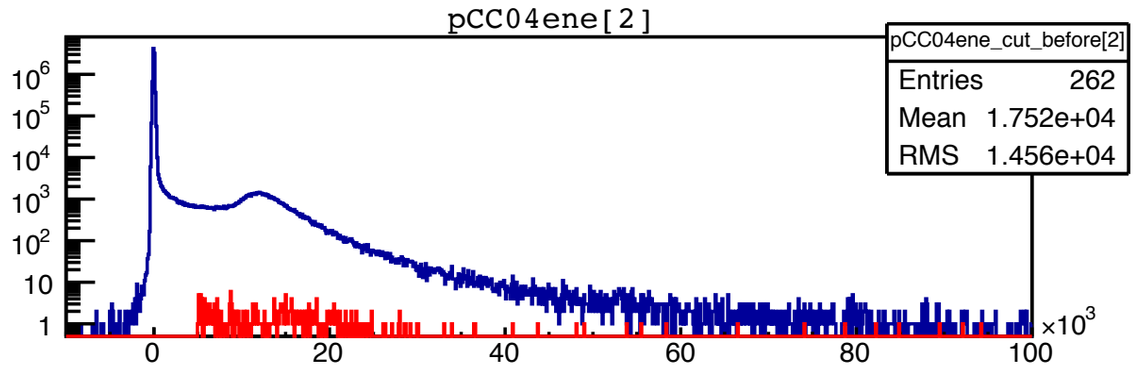
(view from south)

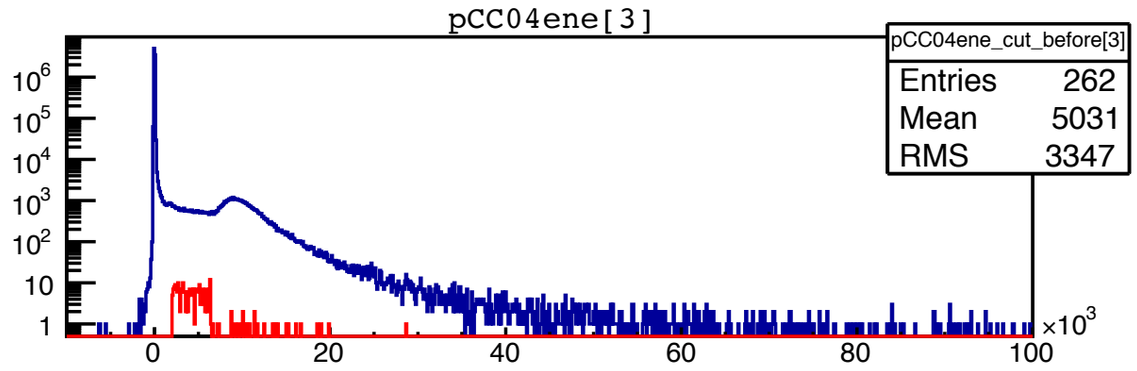
CC04 Distribution cut by constant ther.

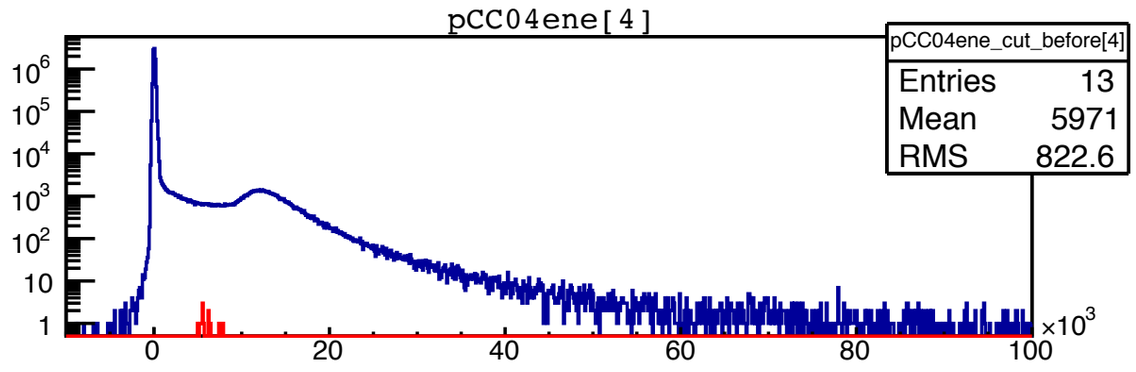
For Top(Cross)

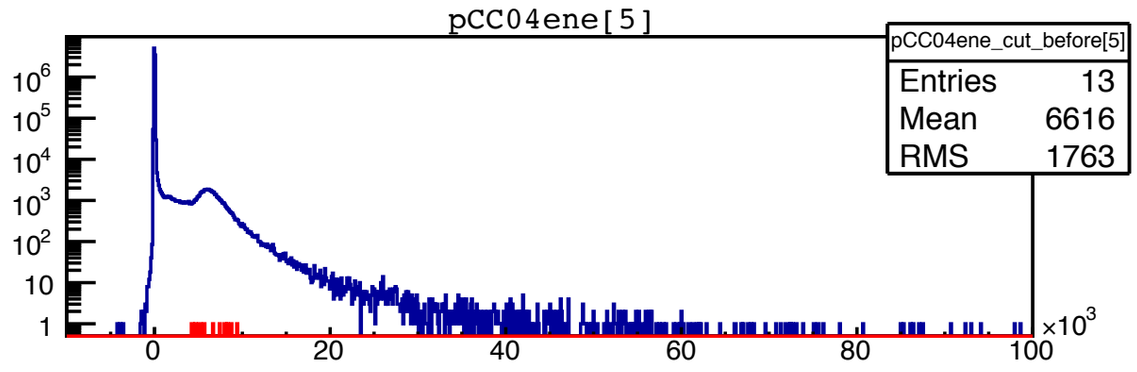


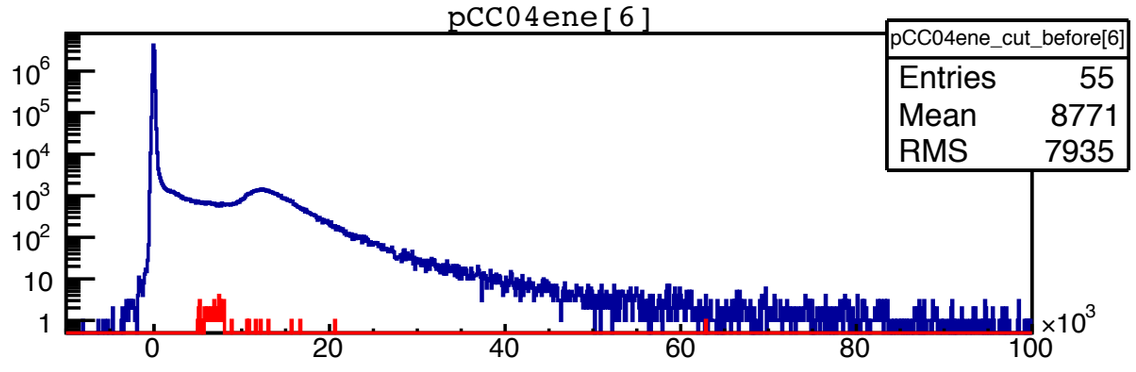


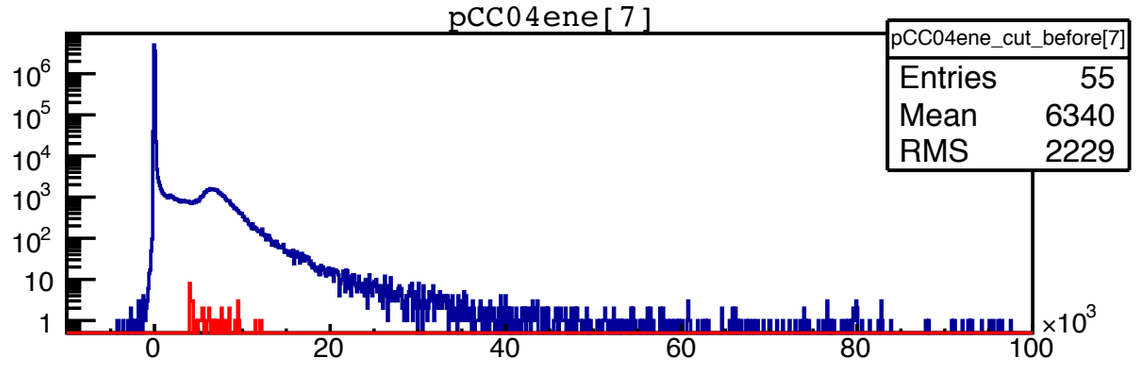






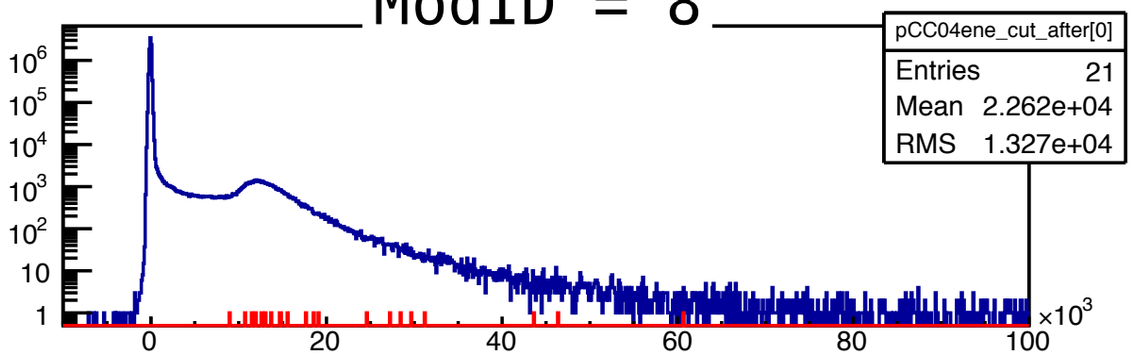


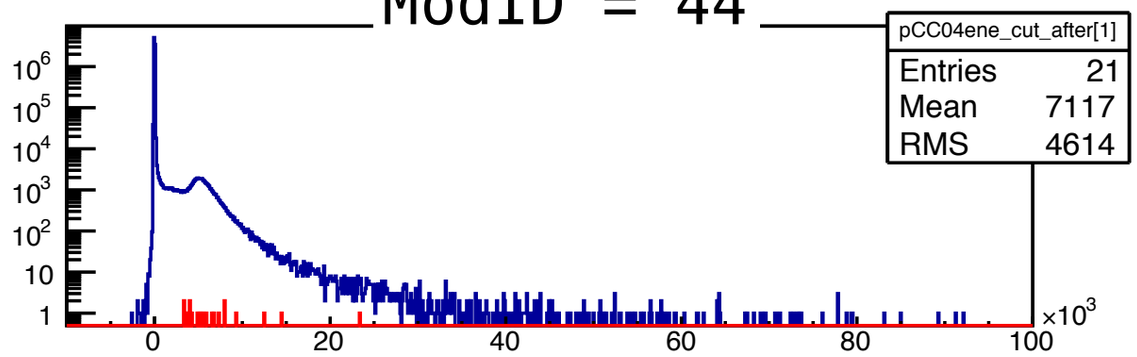


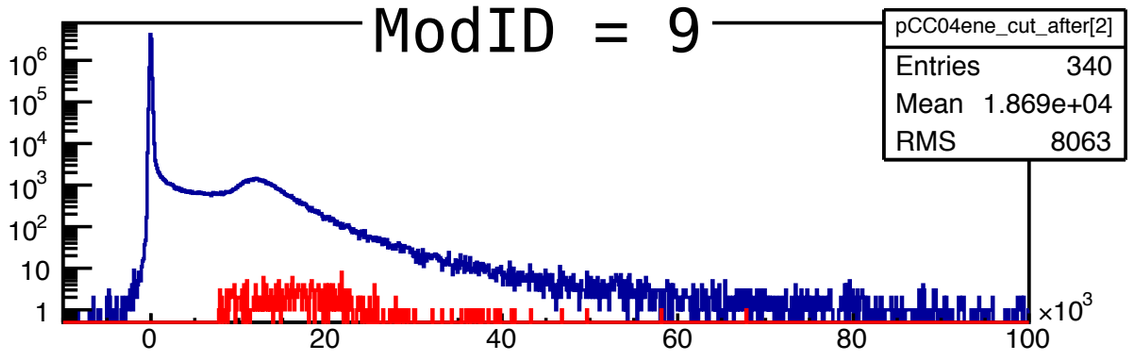


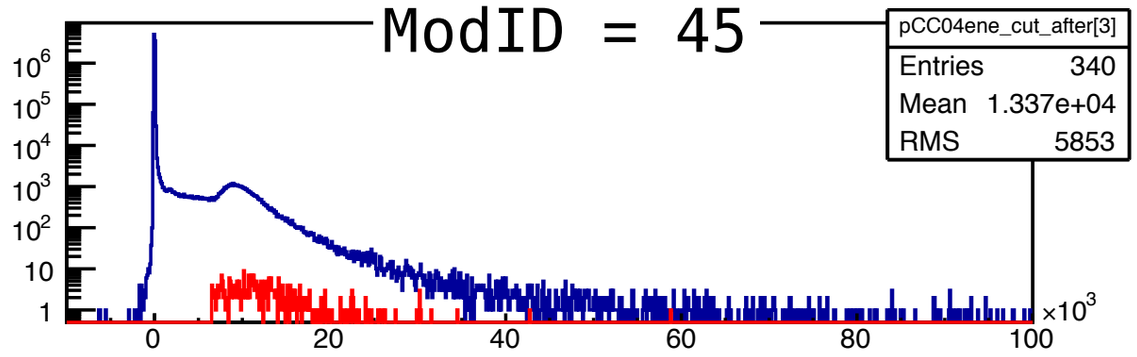
CC04 Distribution cut by ther. = MPV * 0.7

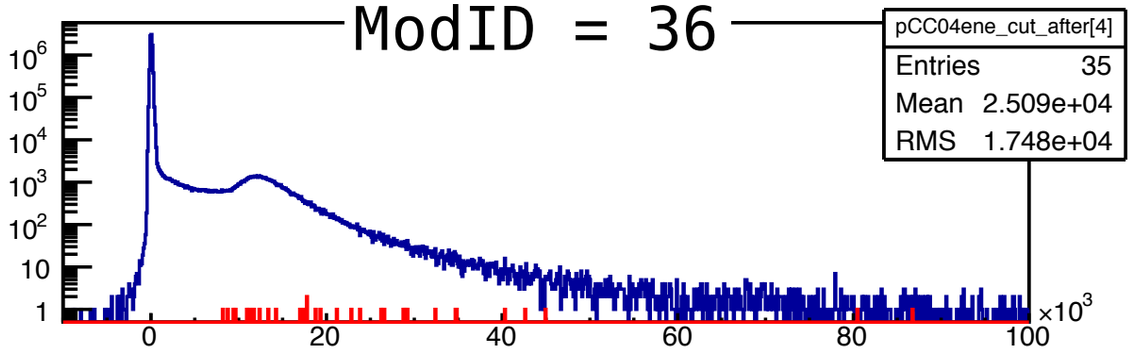
For Top(Cross)

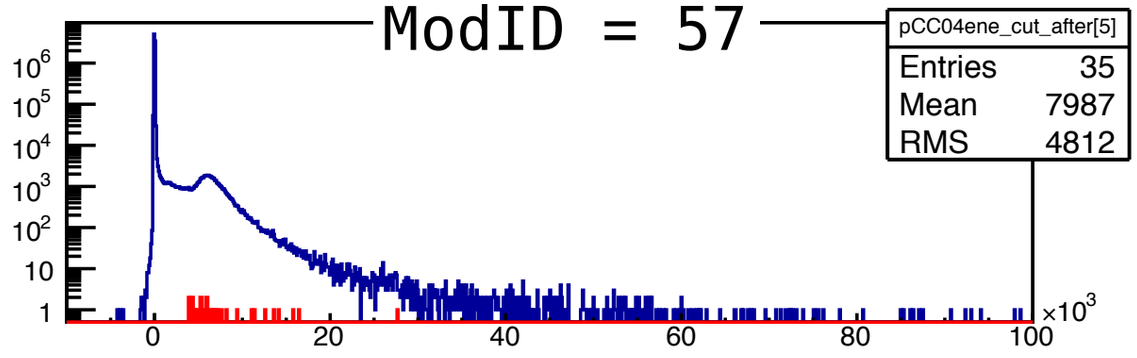


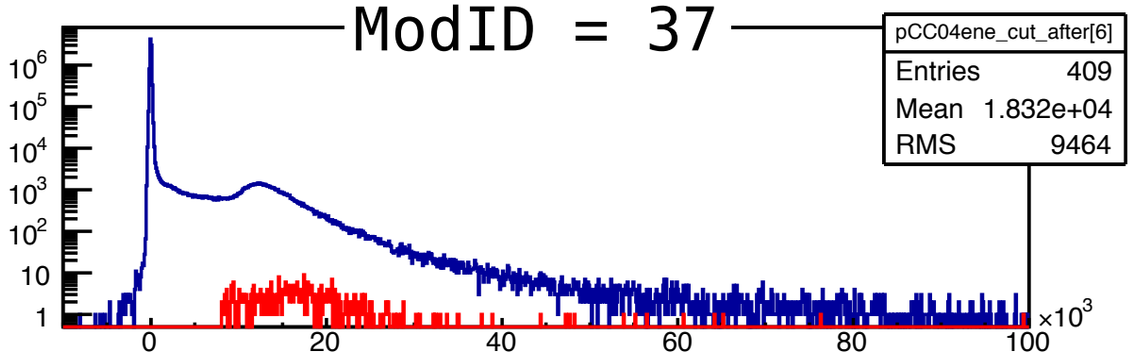


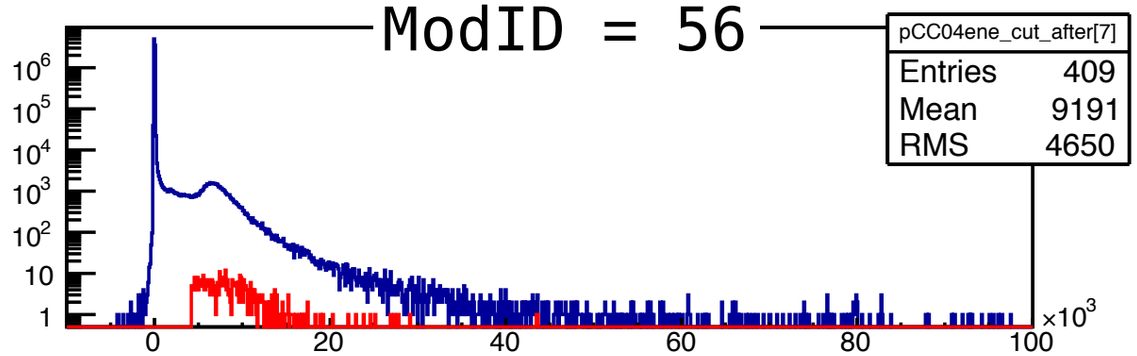








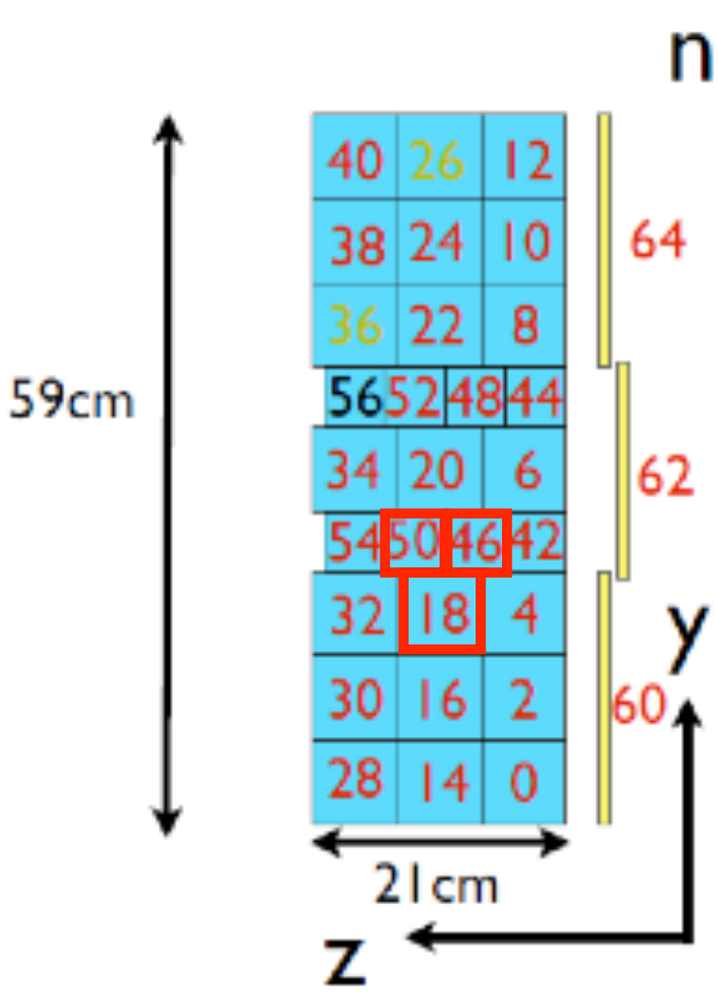




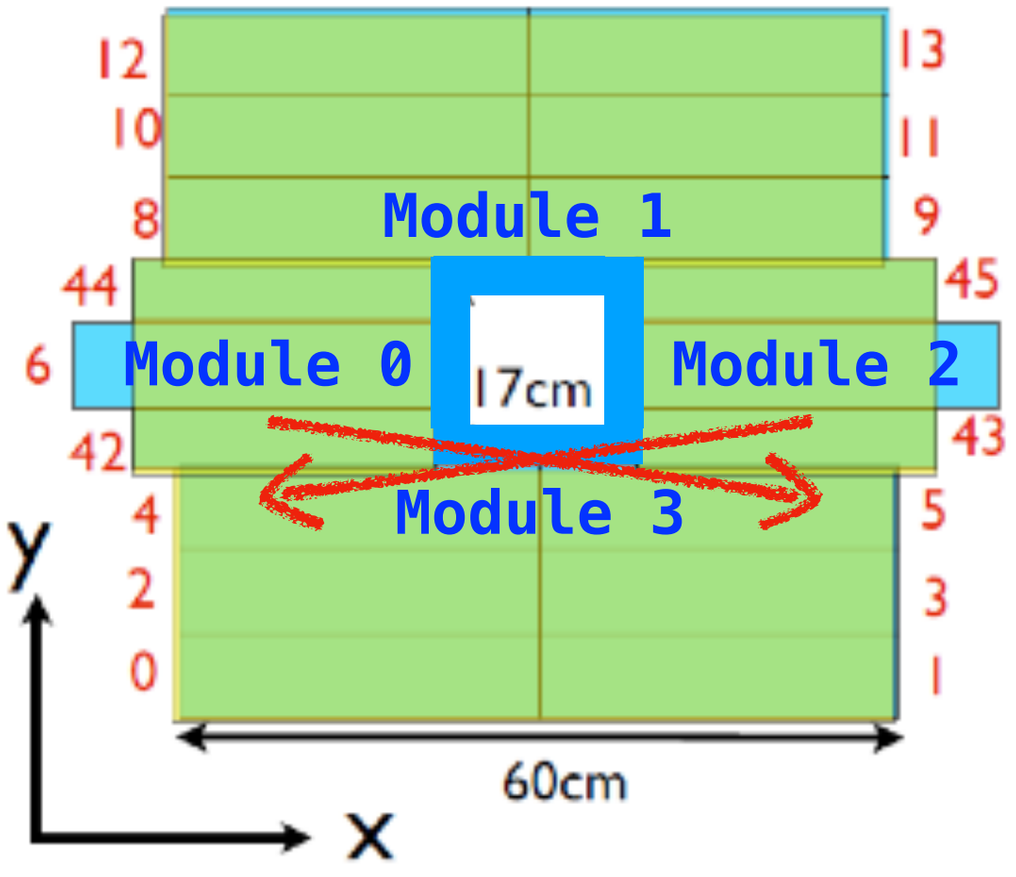
CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

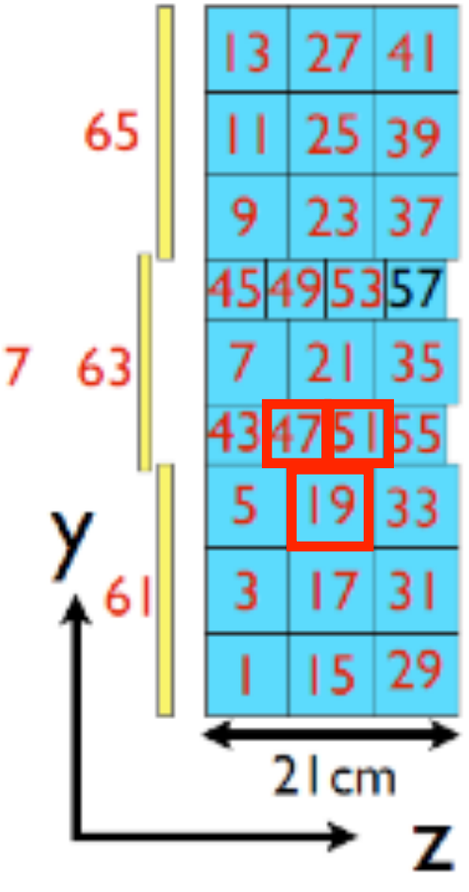
number=CC04ModID
(with amp channel)
(dead channel)



(view from north)



(view from upstream)

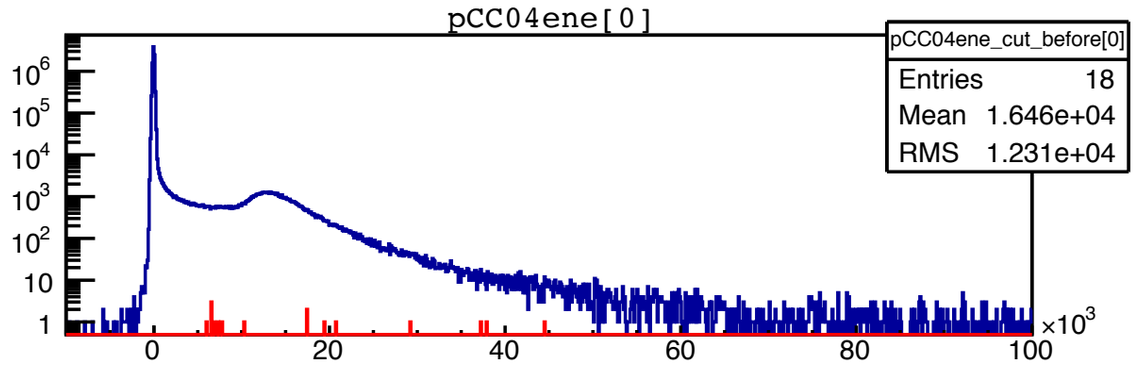


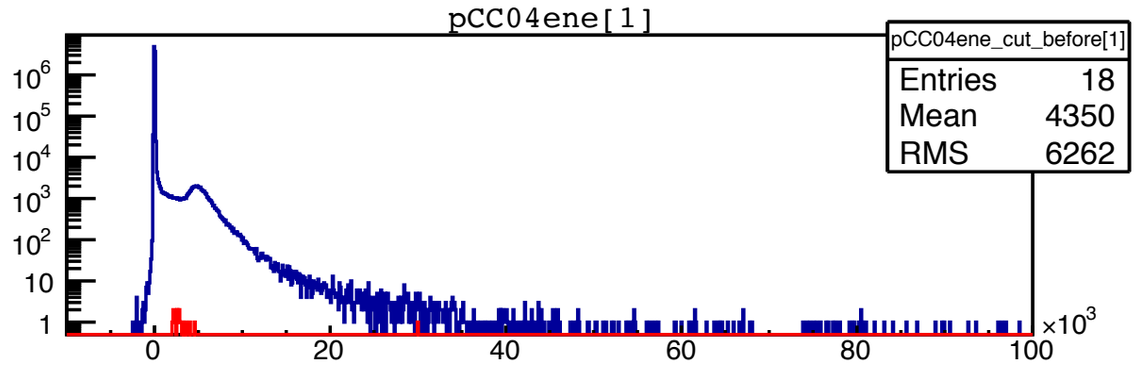
(view from south)

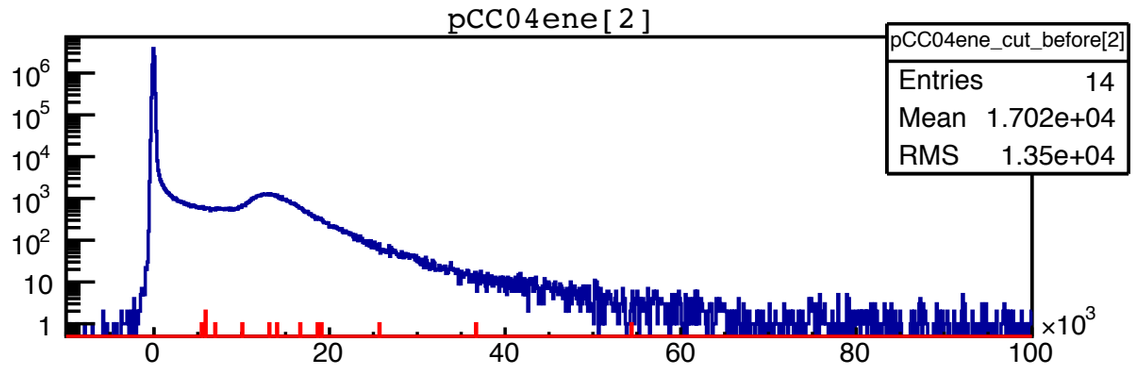
south

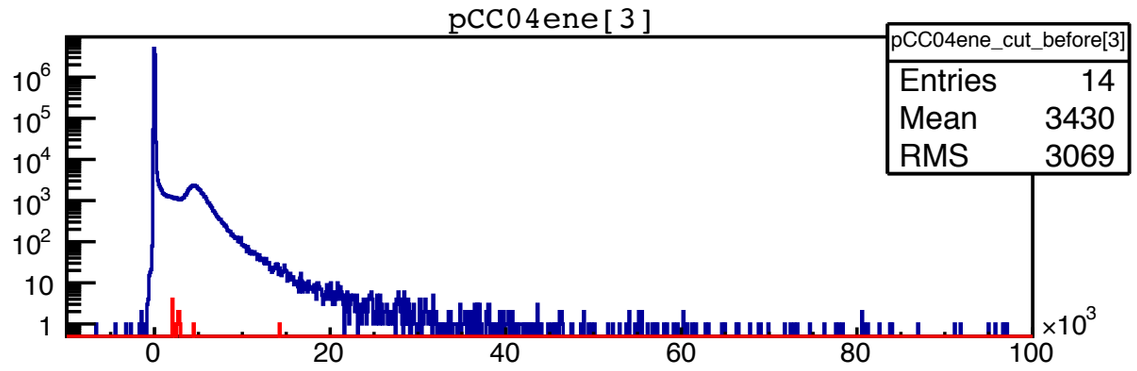
CC04 Distribution cut by constant ther.

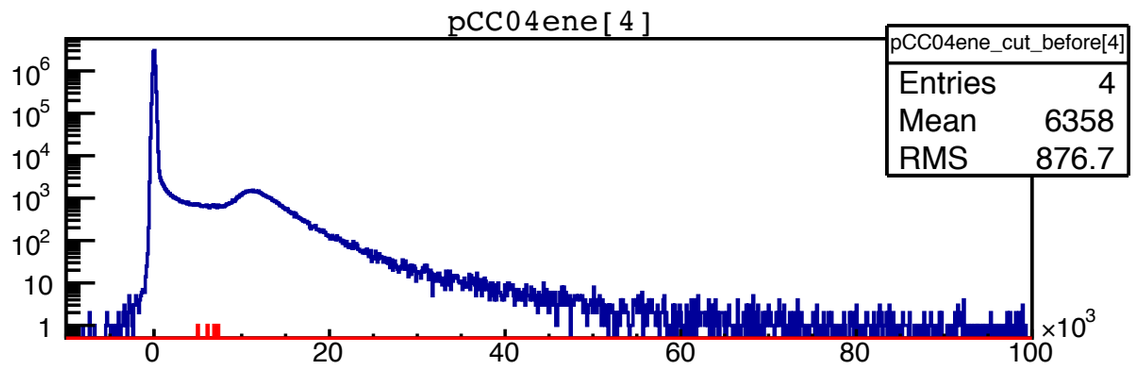
For Bottom(Cross)

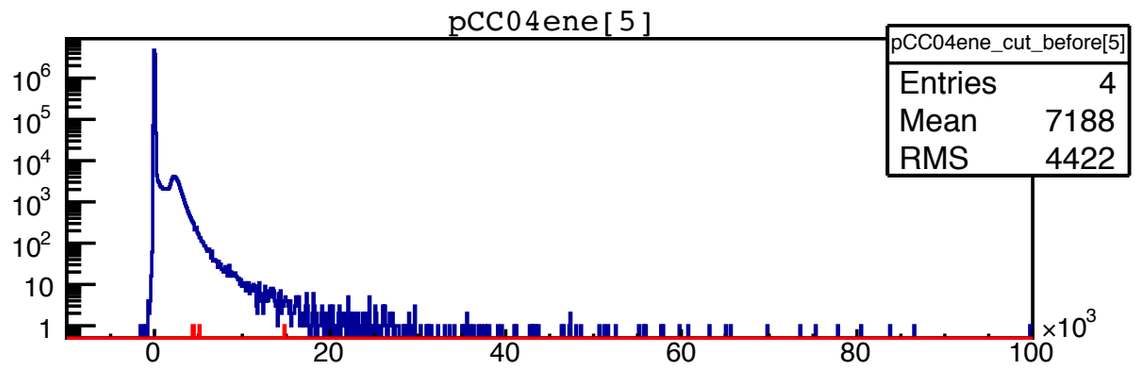


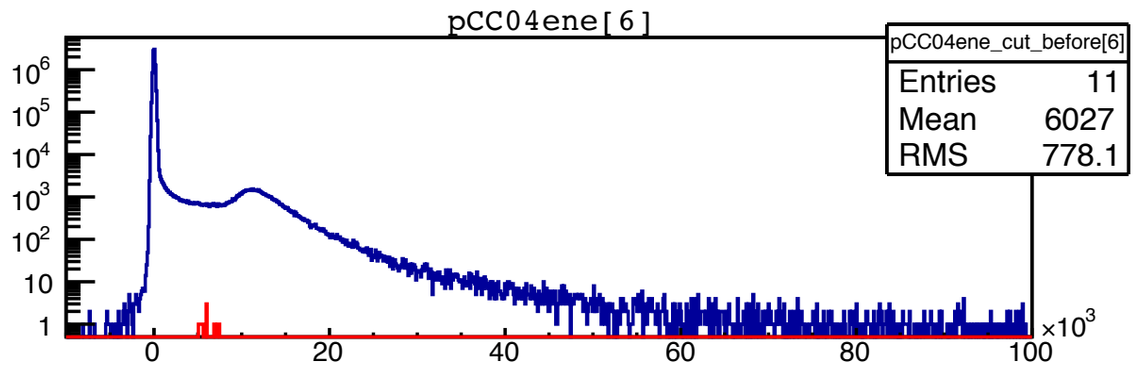


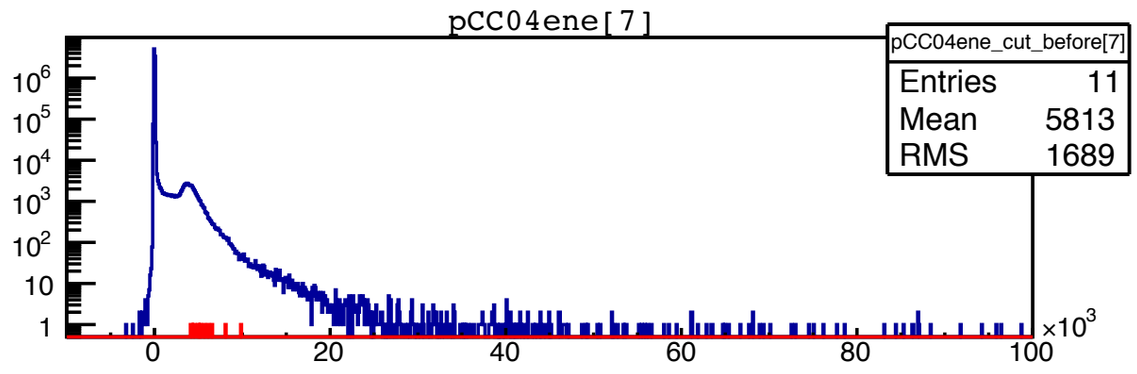






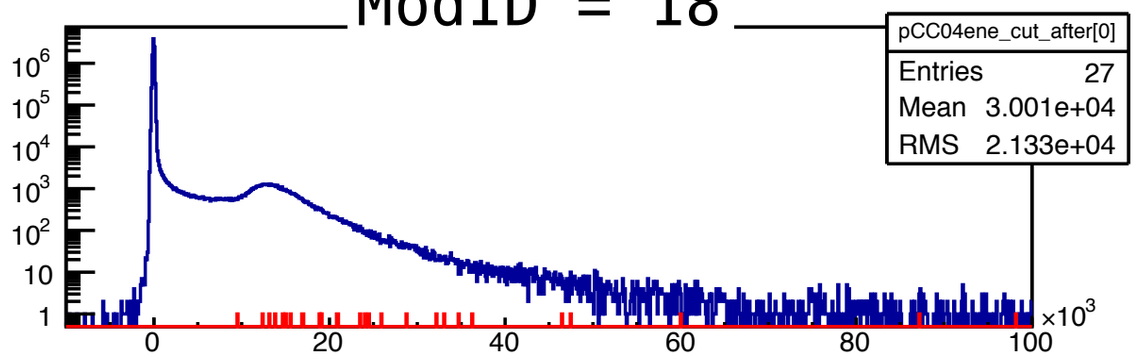


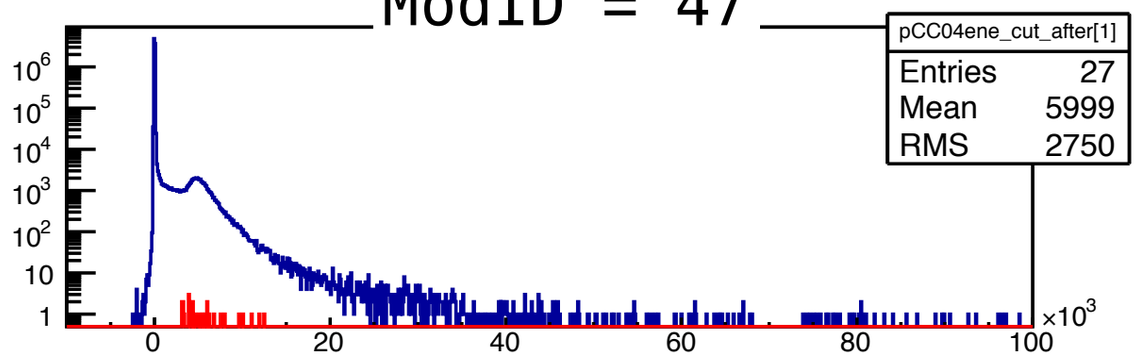


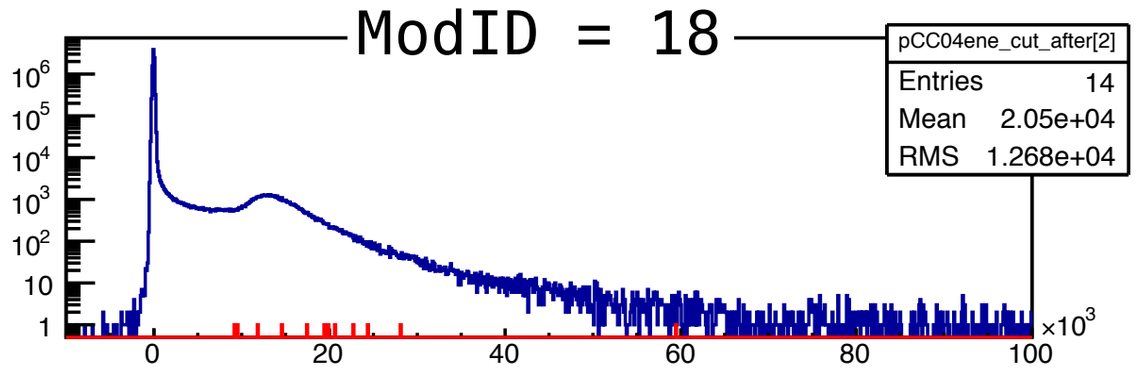


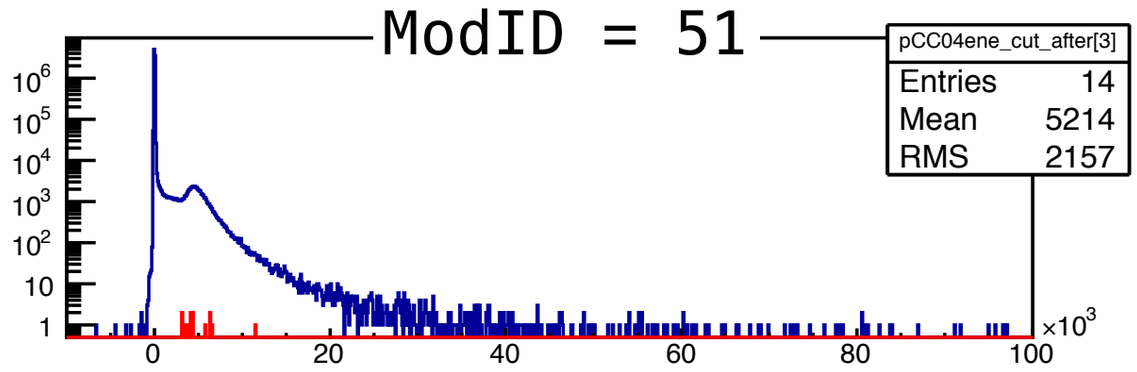
CC04 Distribution cut by ther. = MPV * 0.7

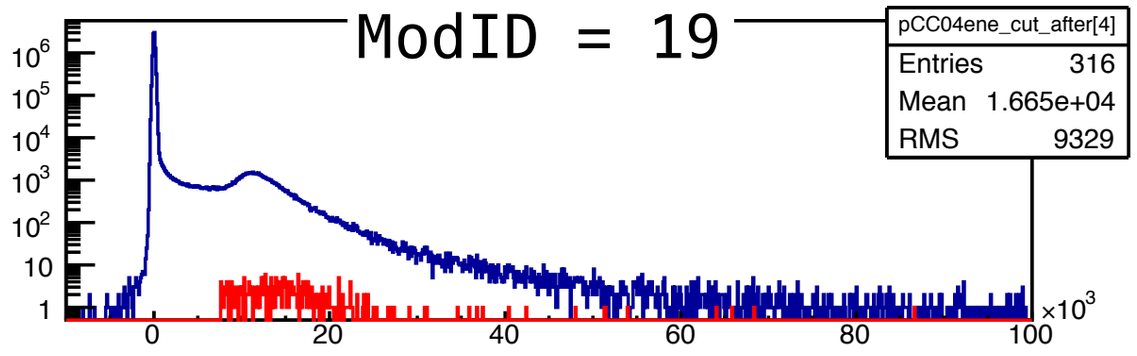
For Bottom(Cross)

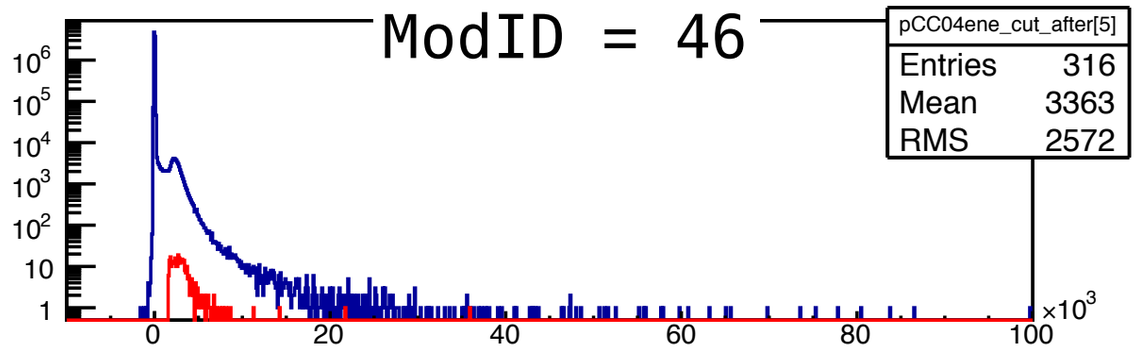


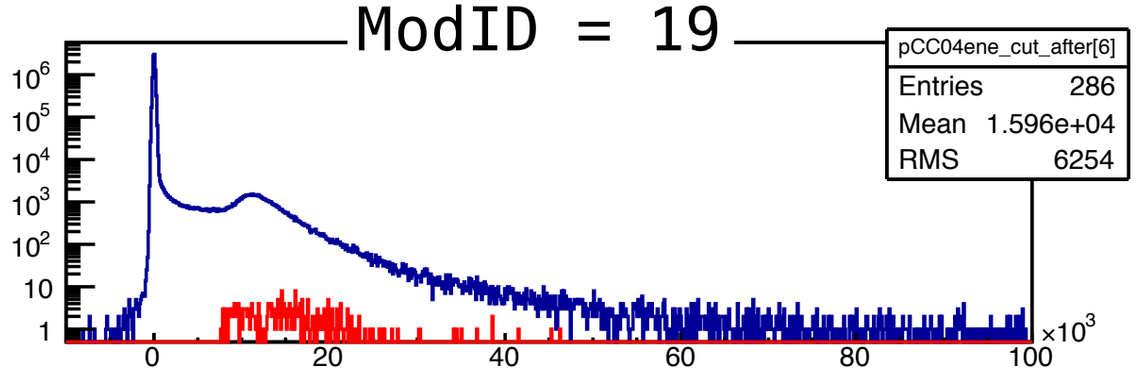


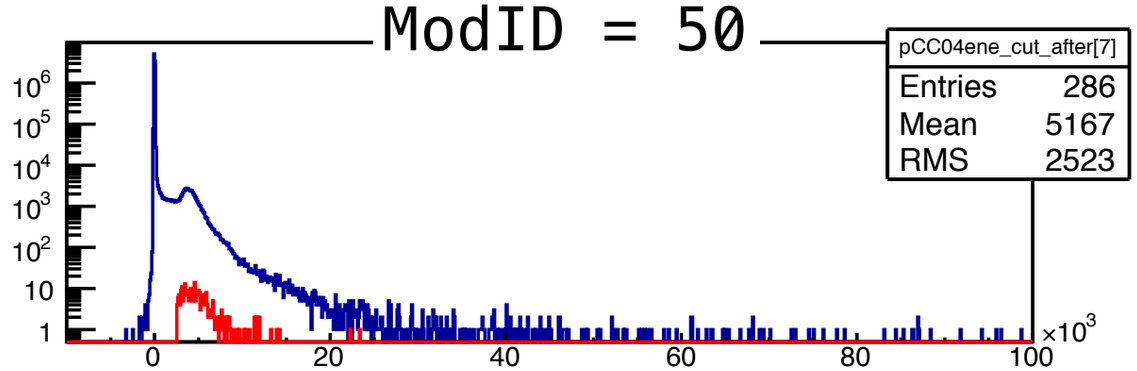








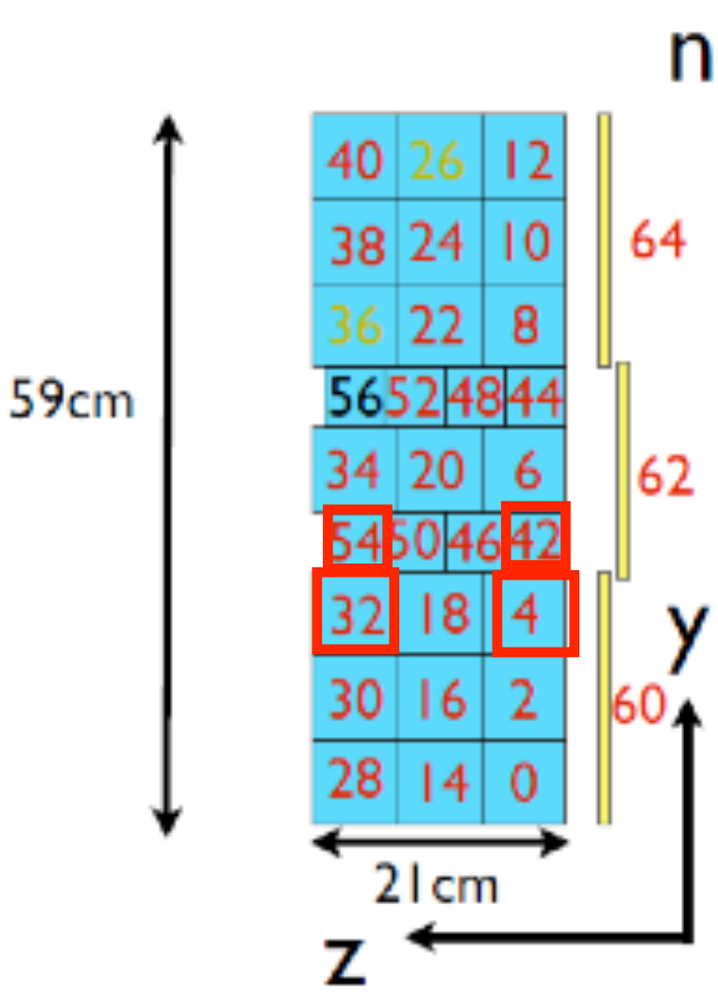




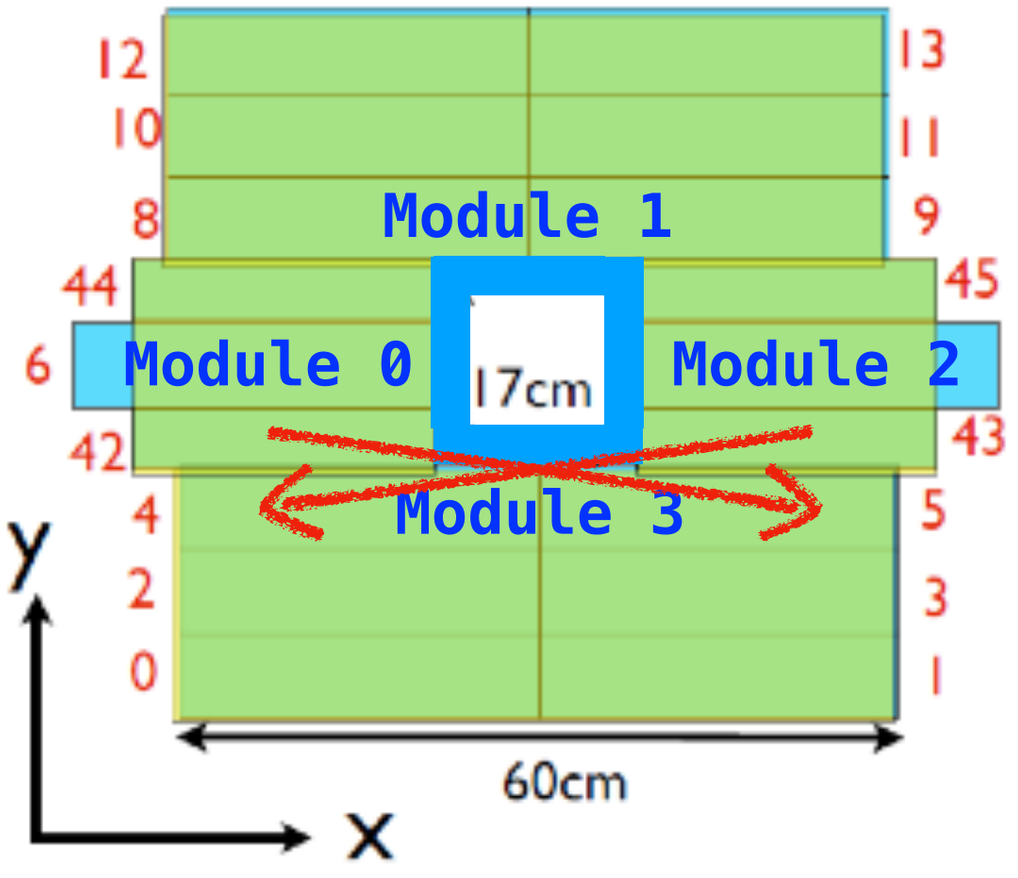
CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

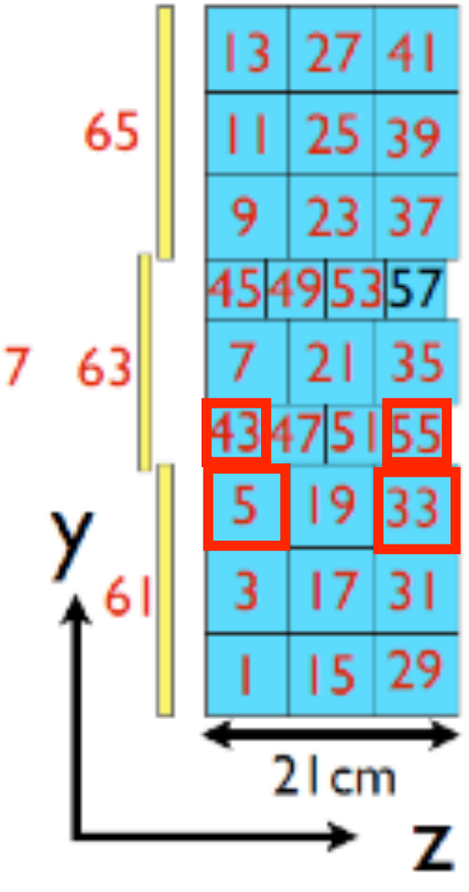
number=CC04ModID
(with amp channel)
(dead channel)



(view from north)



(view from upstream)

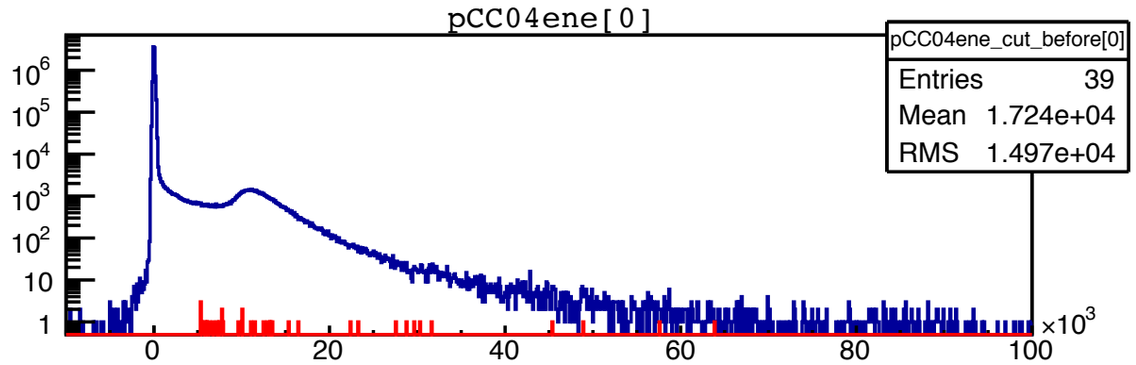


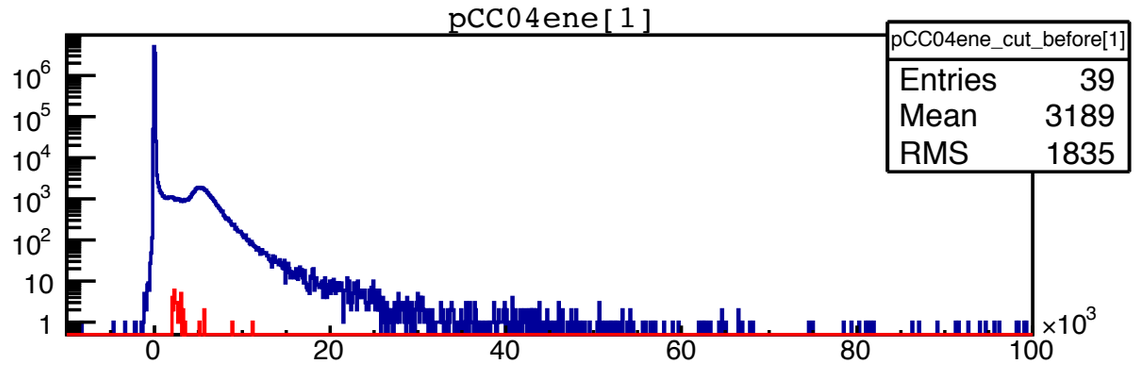
(view from south)

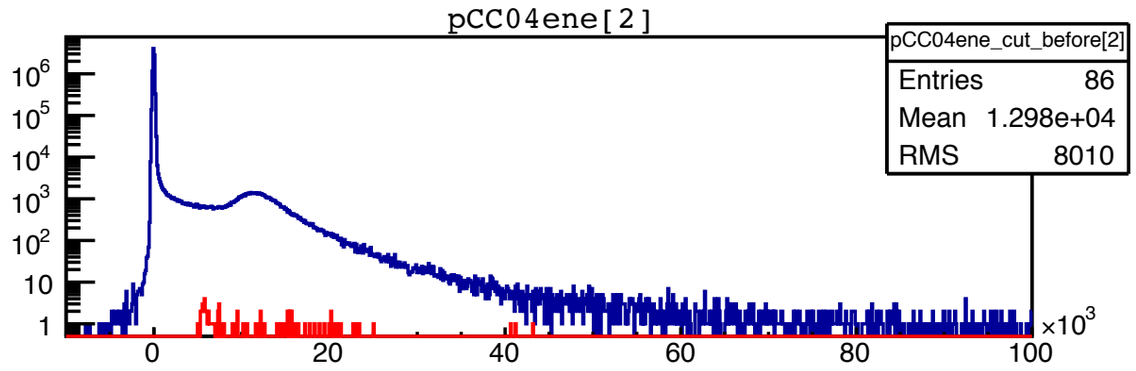
south

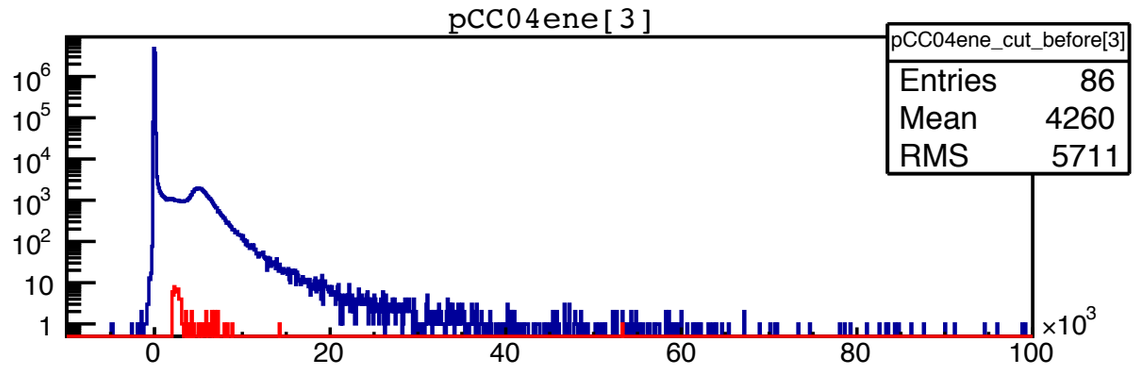
CC04 Distribution cut by constant ther.

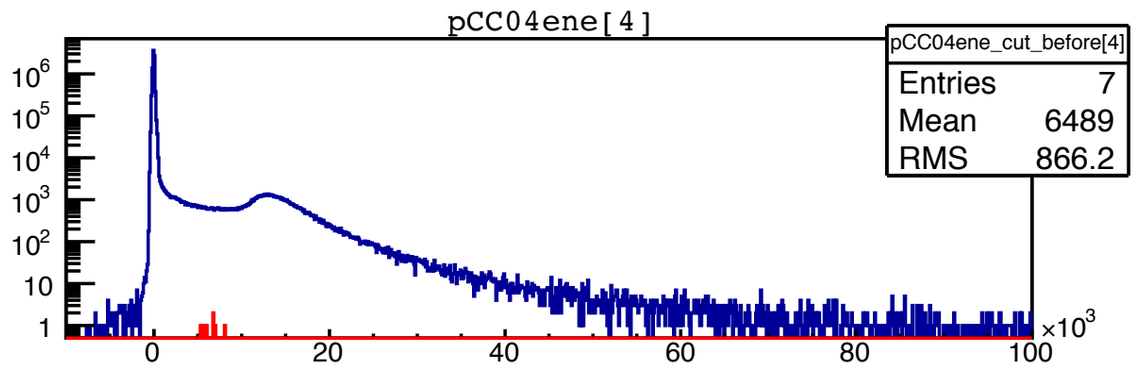
For Bottom(Cross)

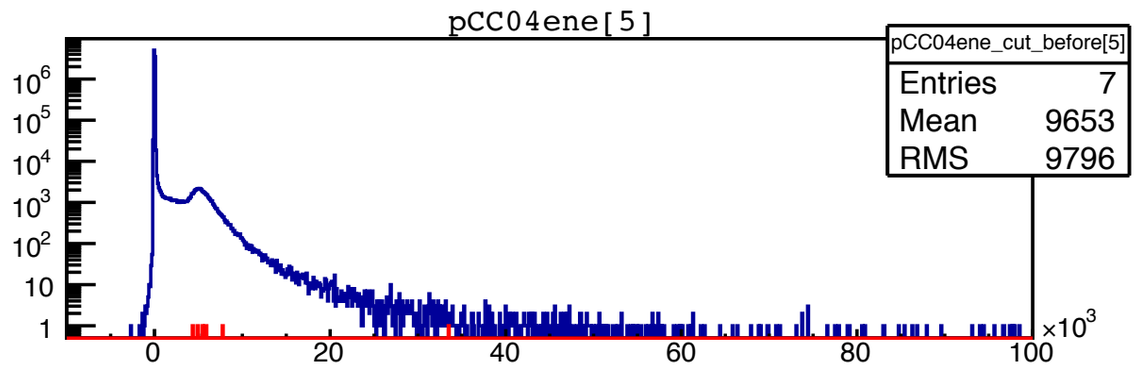


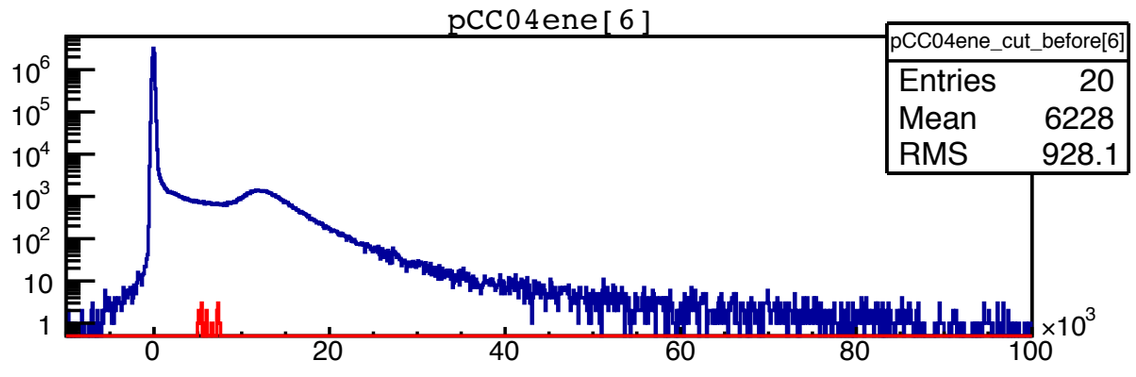


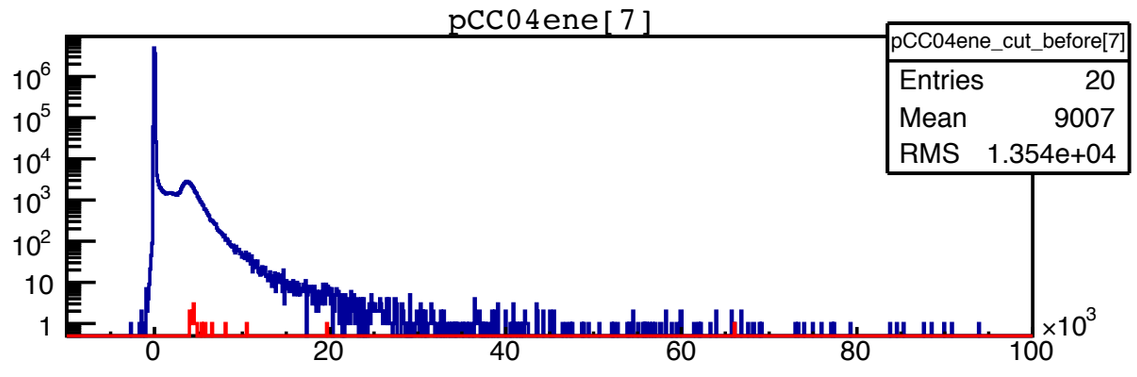






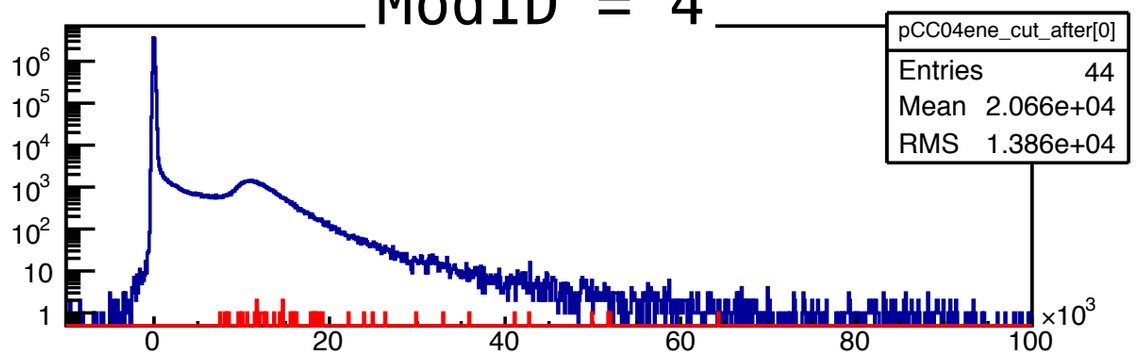


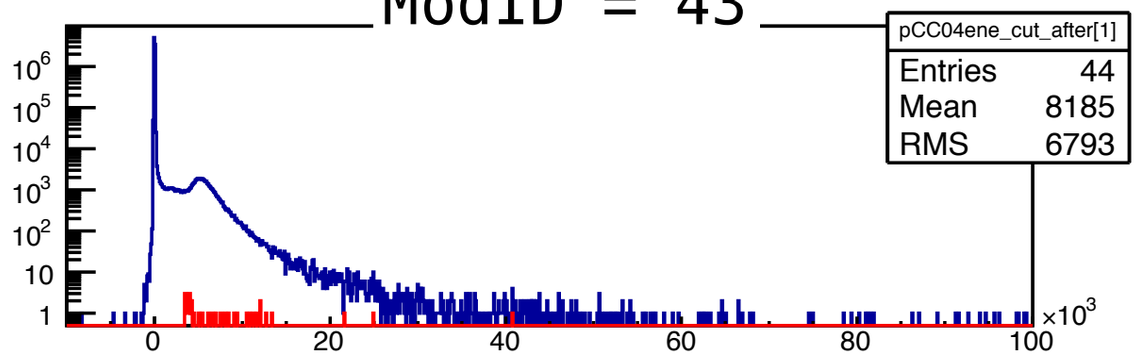


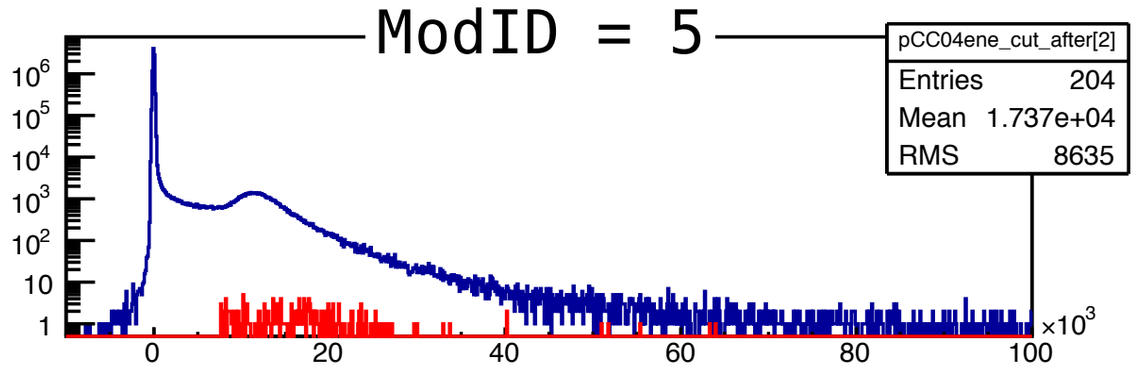


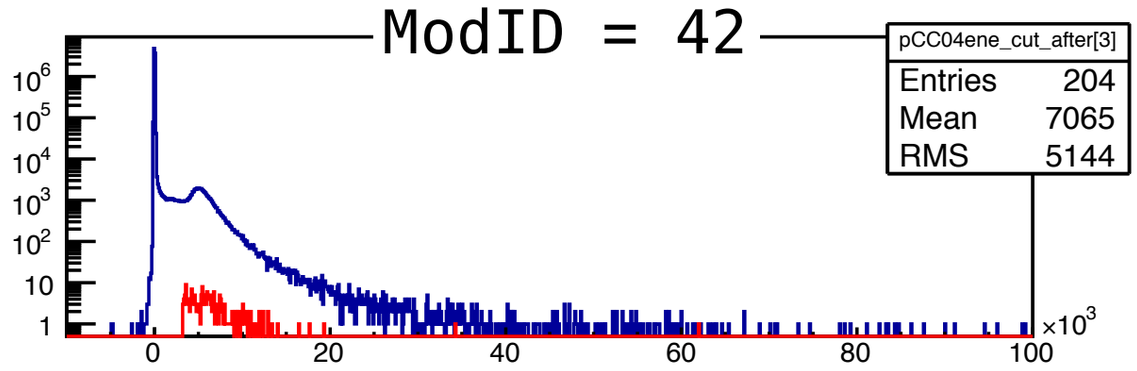
CC04 Distribution cut by ther. = MPV * 0.7

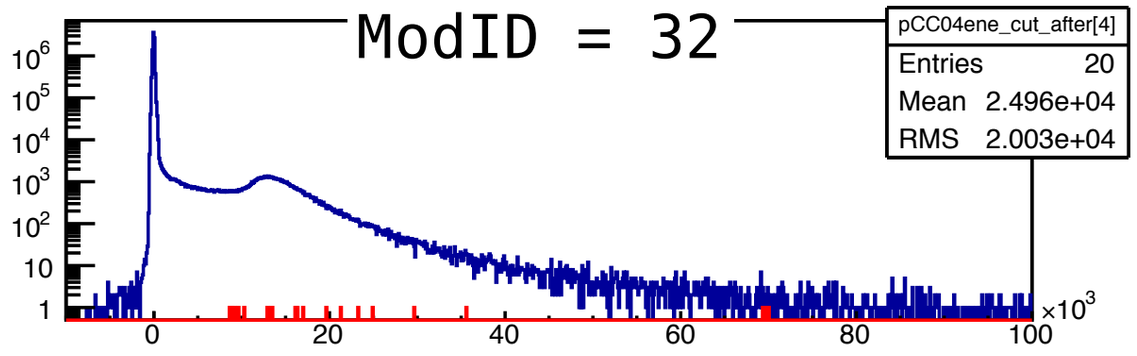
For Bottom(Cross)

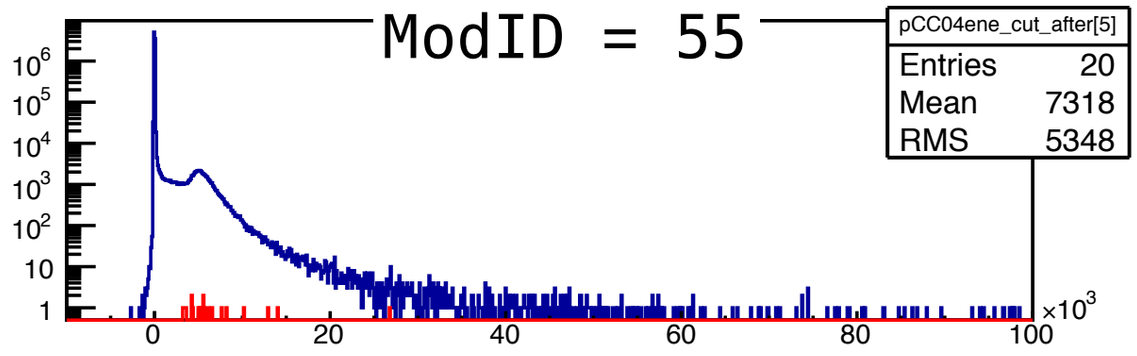


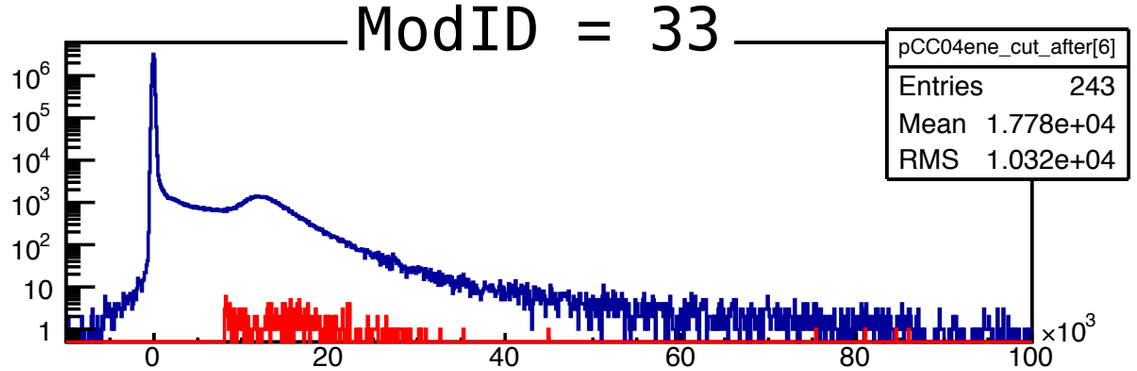


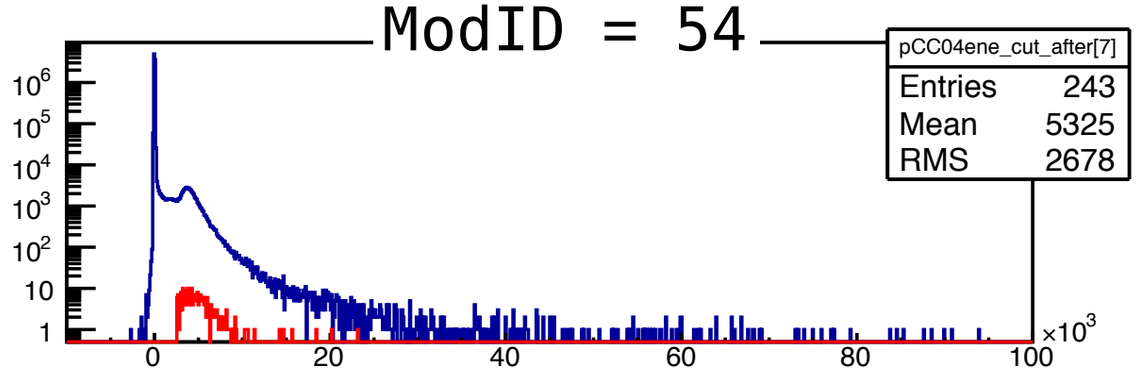






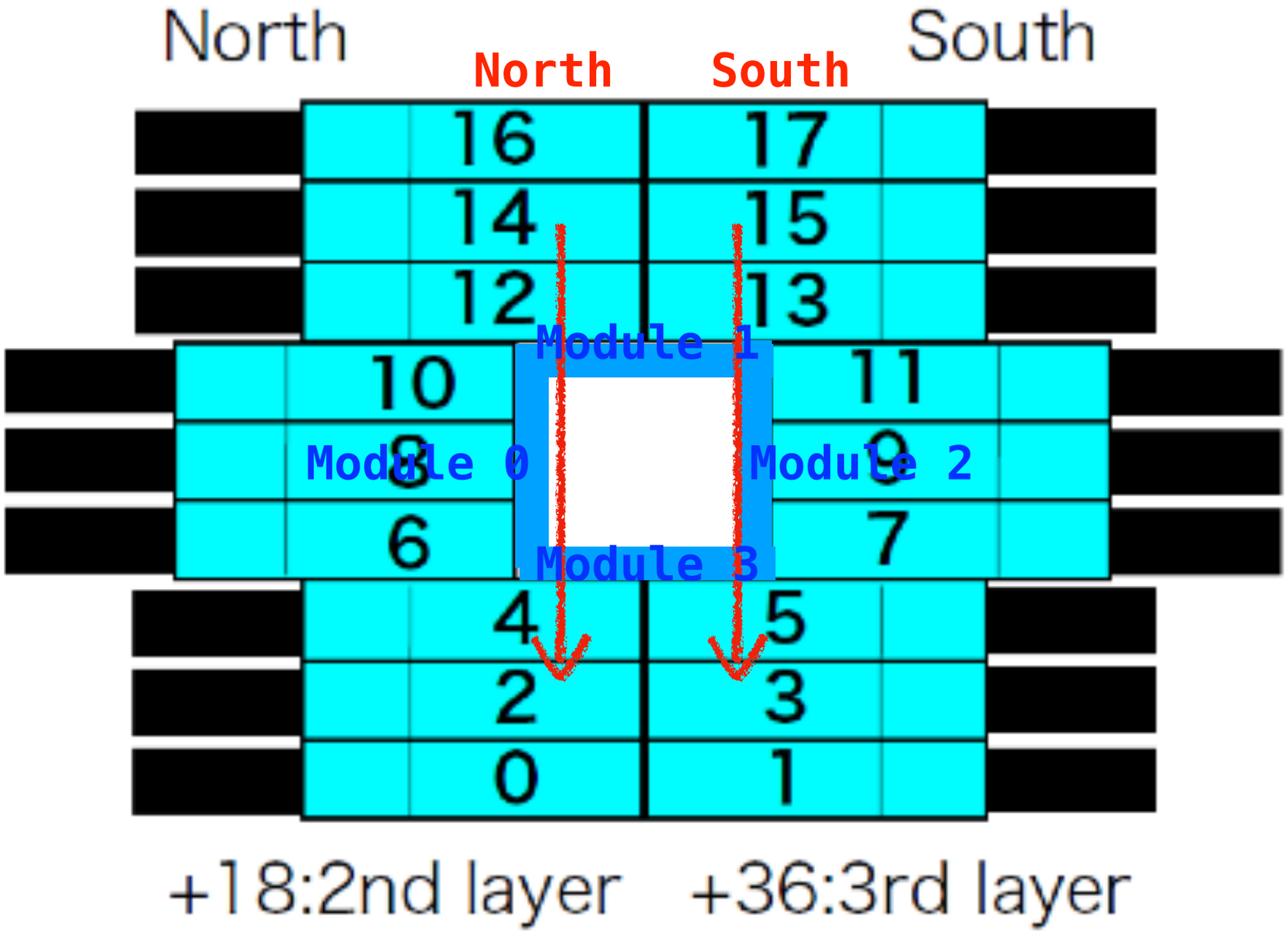






CC05

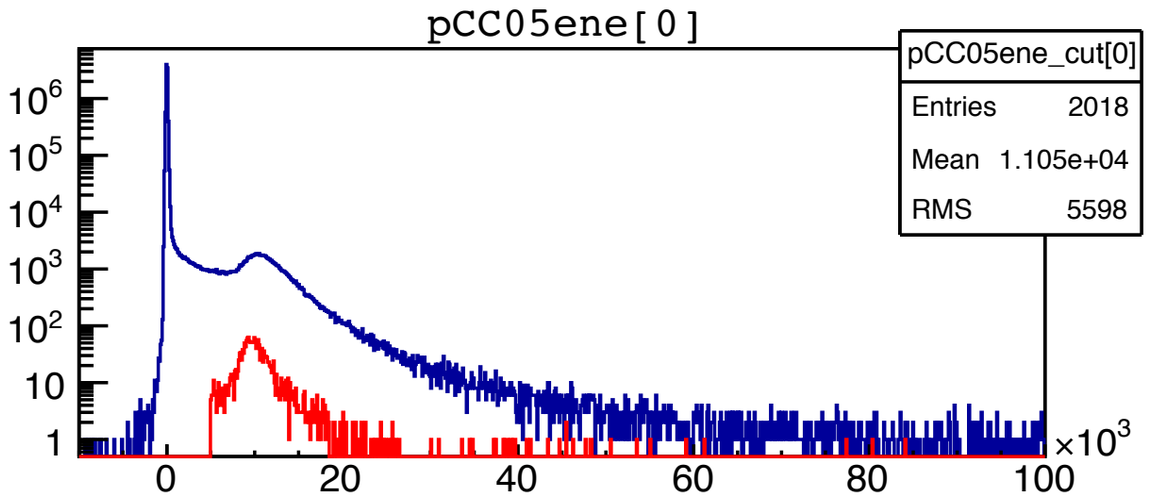
※ See CC05 from Upstream

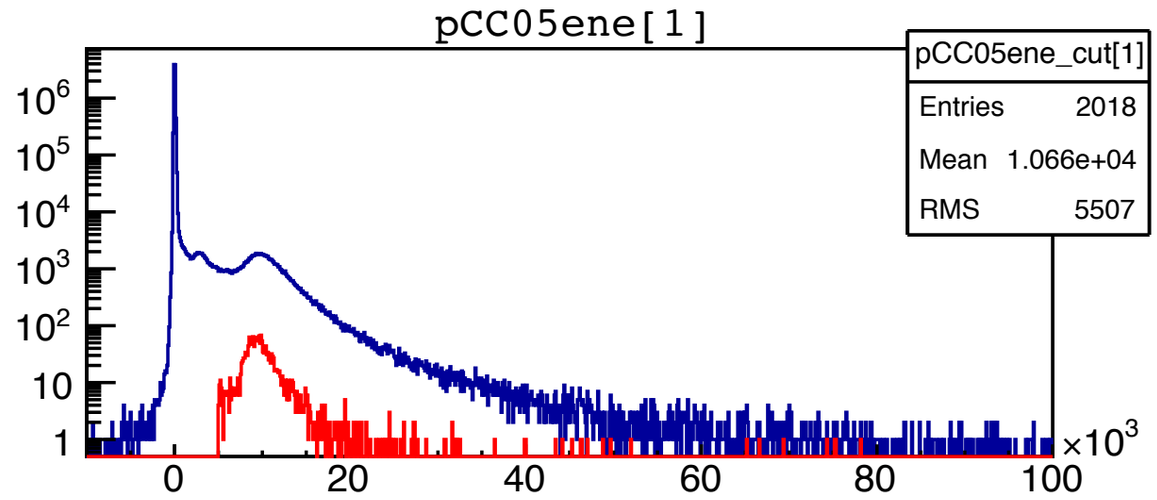


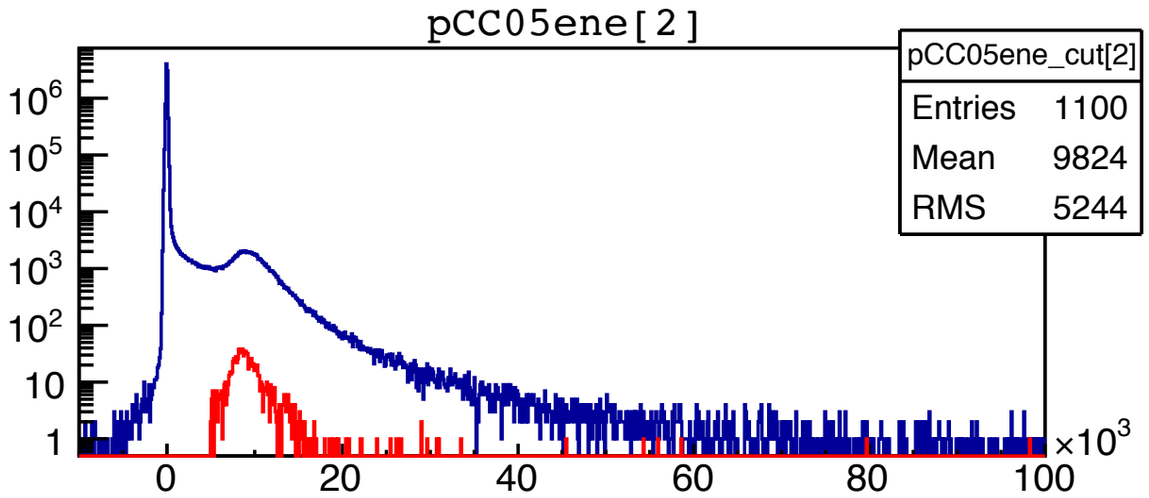
+18:2nd layer +36:3rd layer

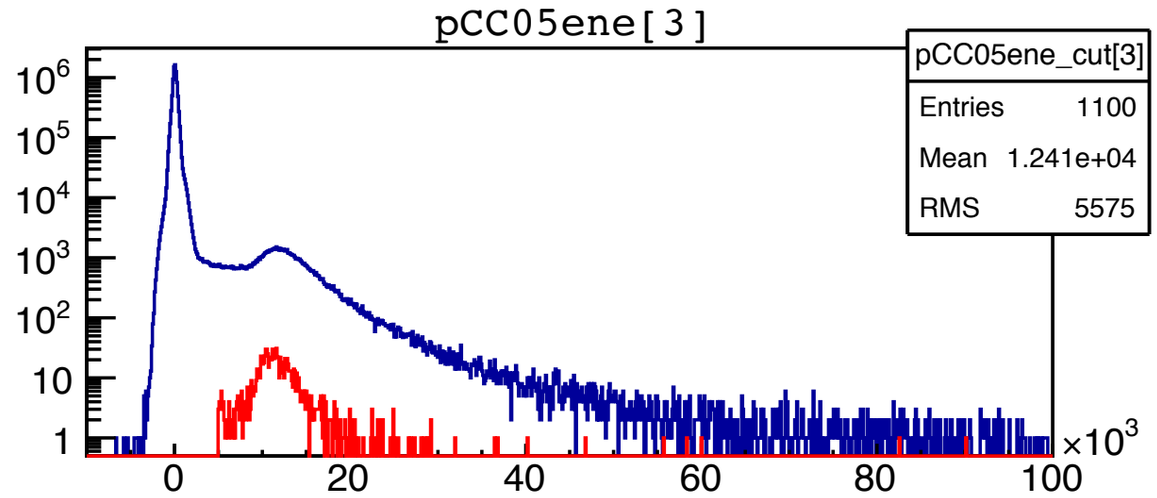
CC05 Distribution cut by constant ther.

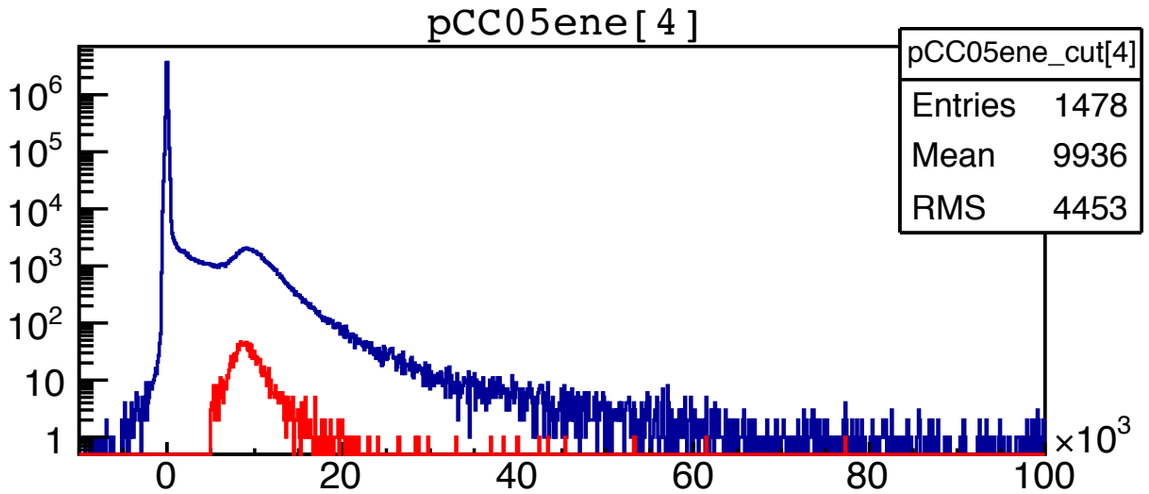
For North

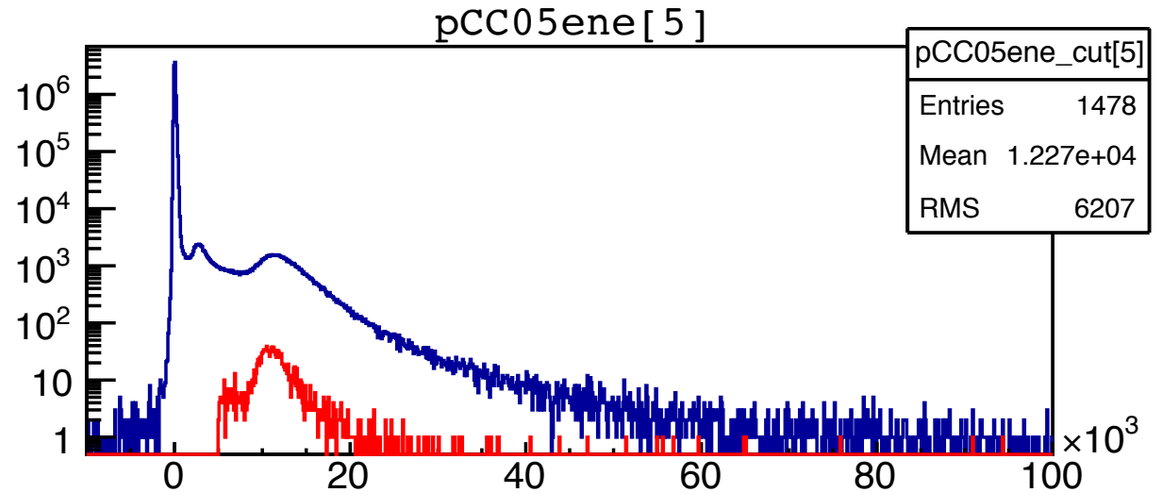






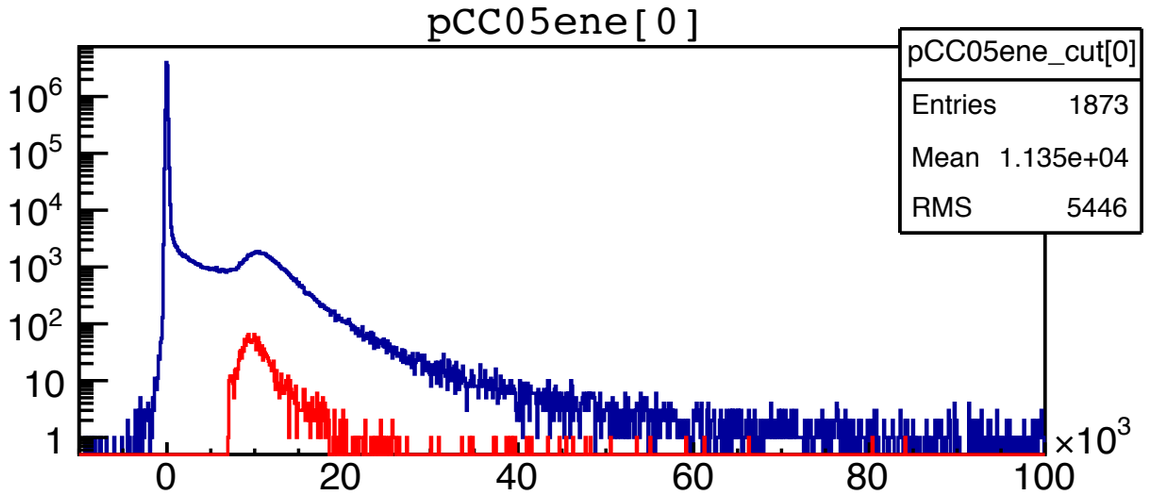


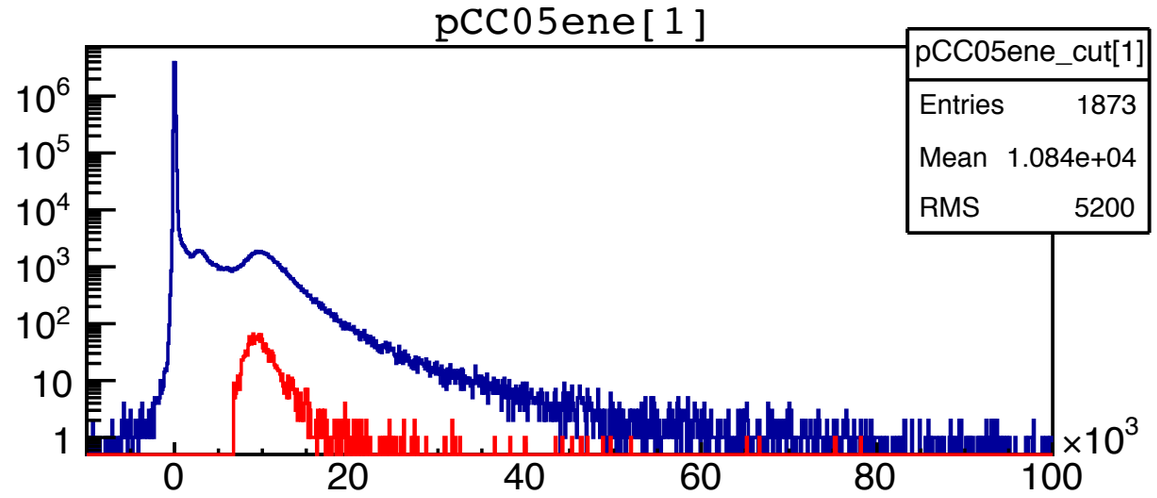


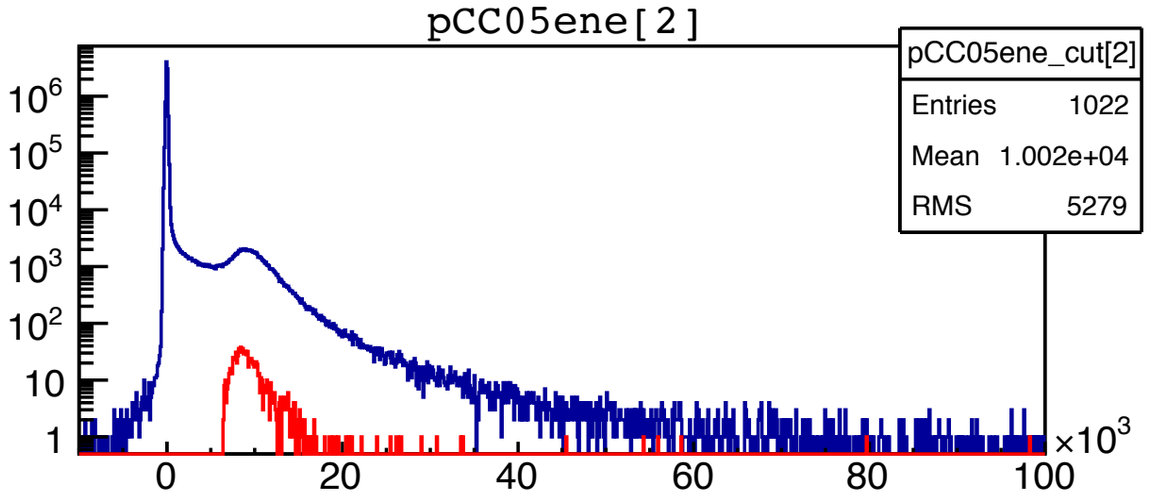


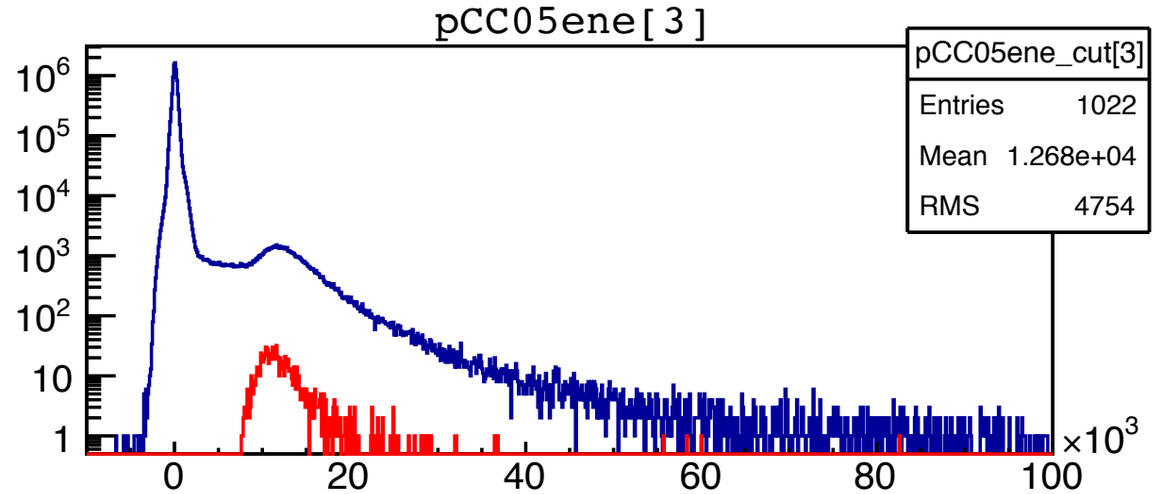
CC05 Distribution cut by ther. = MPV * 0.7

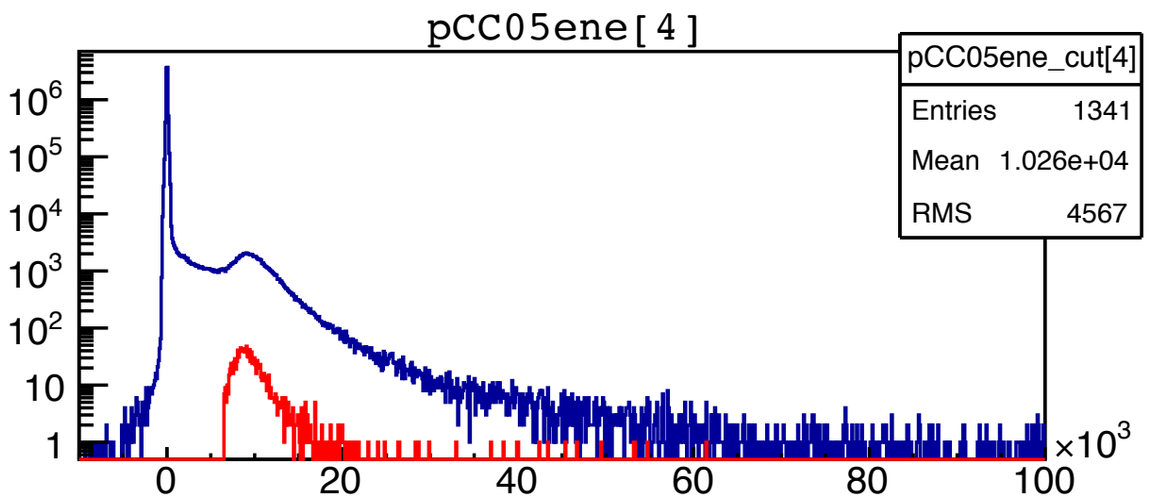
For North

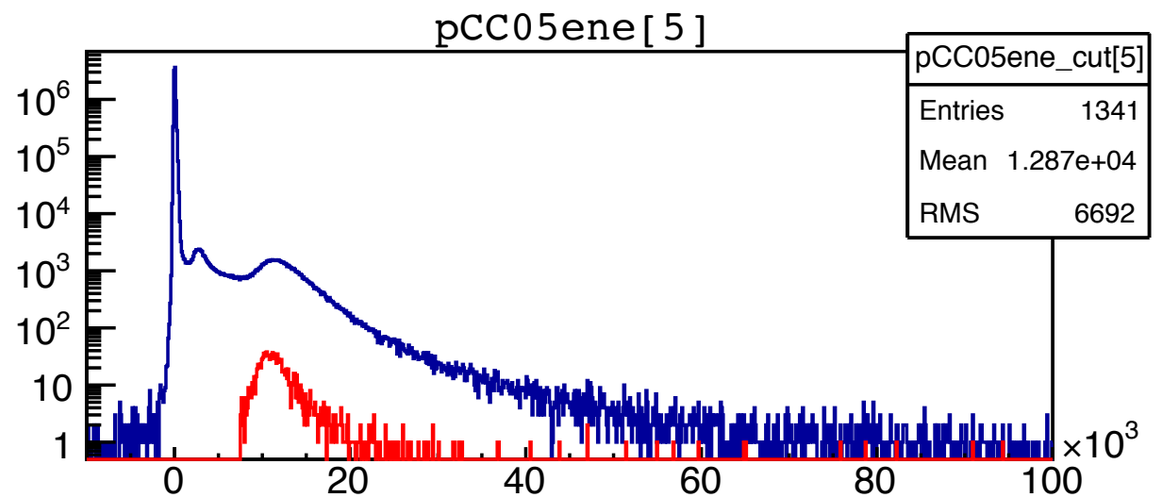






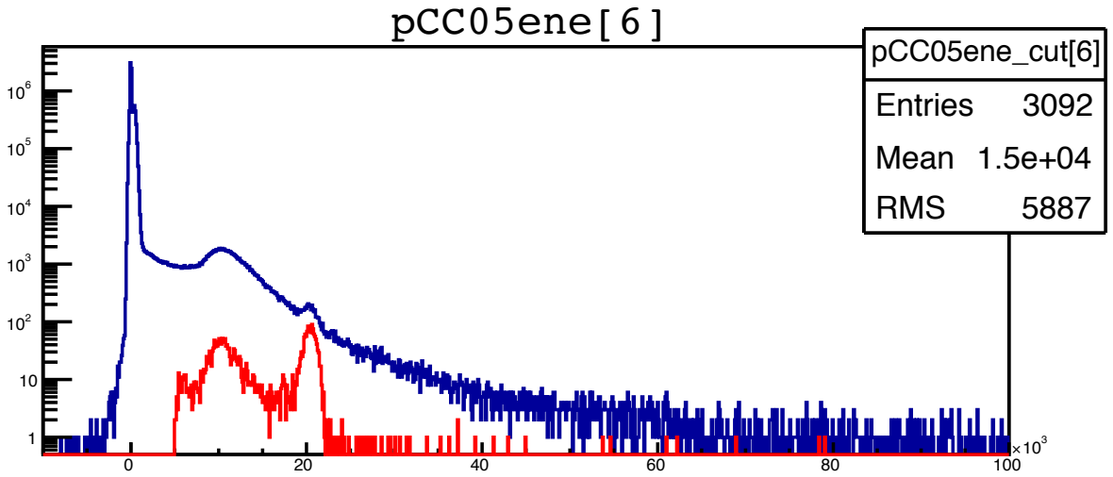


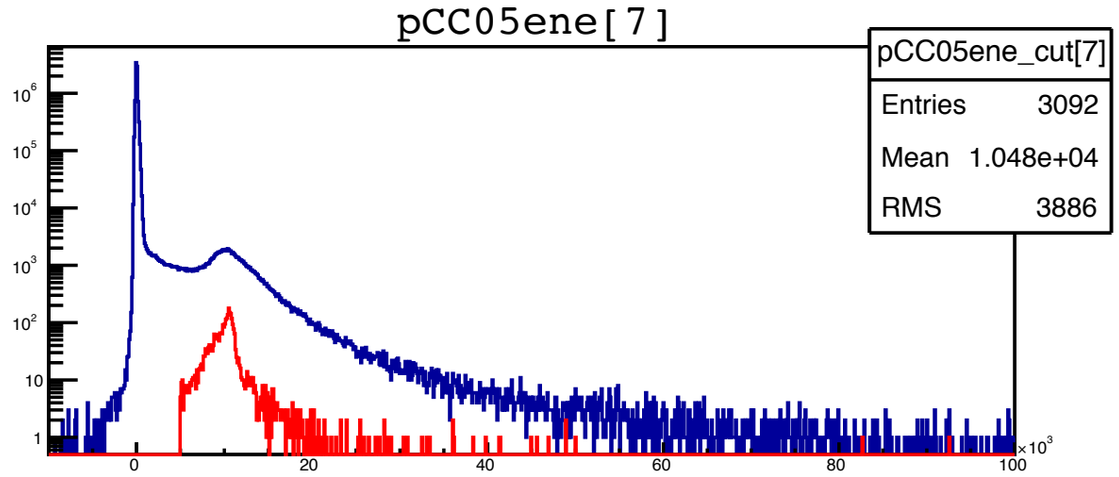


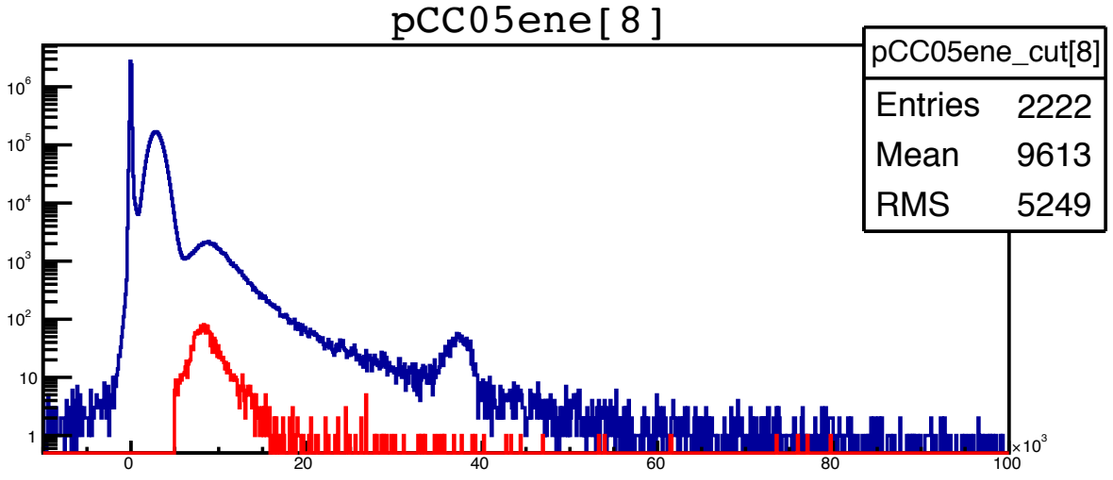


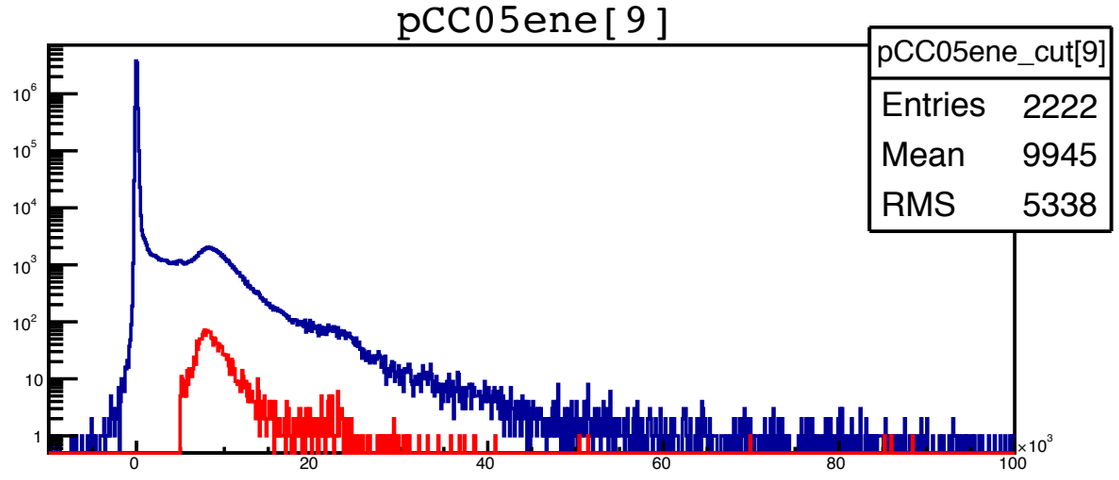
CC05 Distribution cut by constant ther.

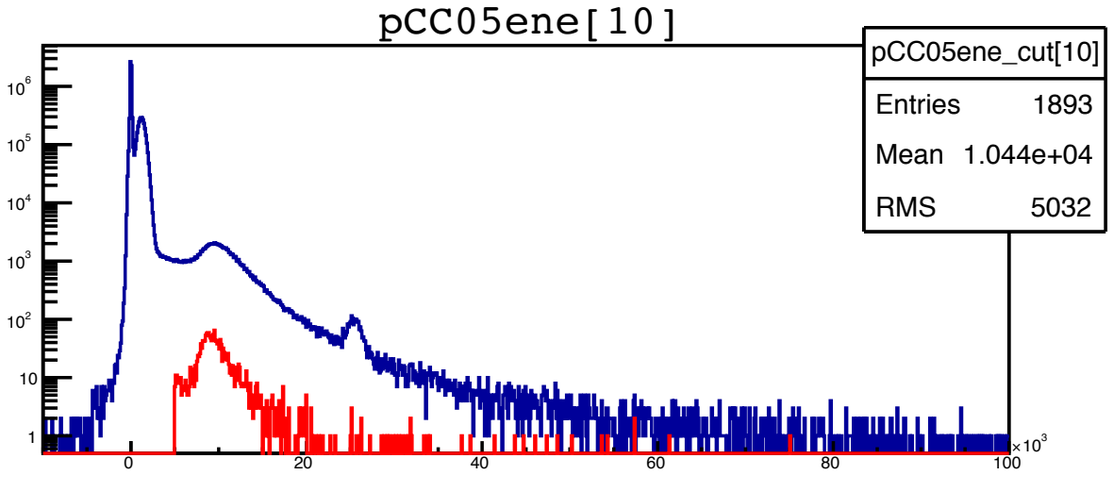
For South

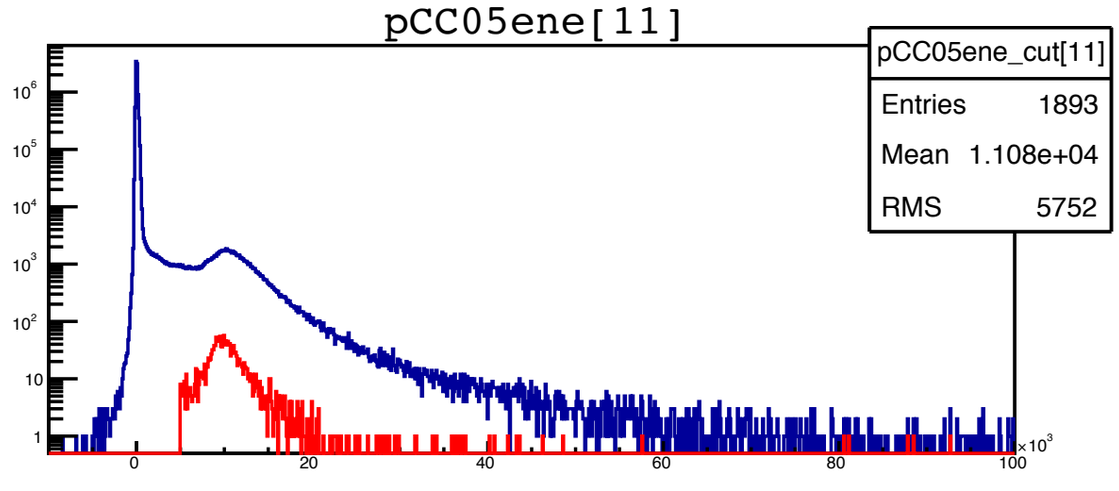






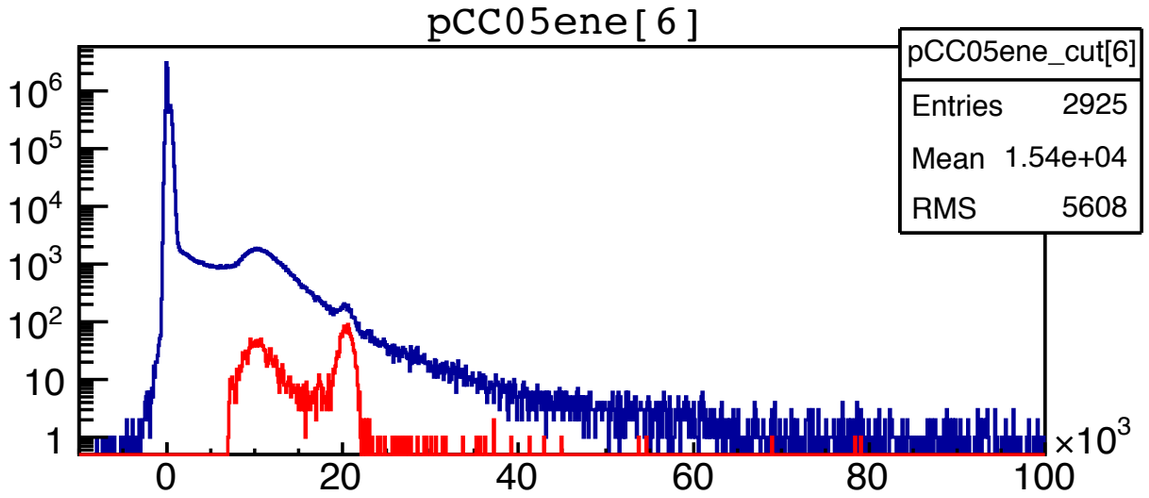


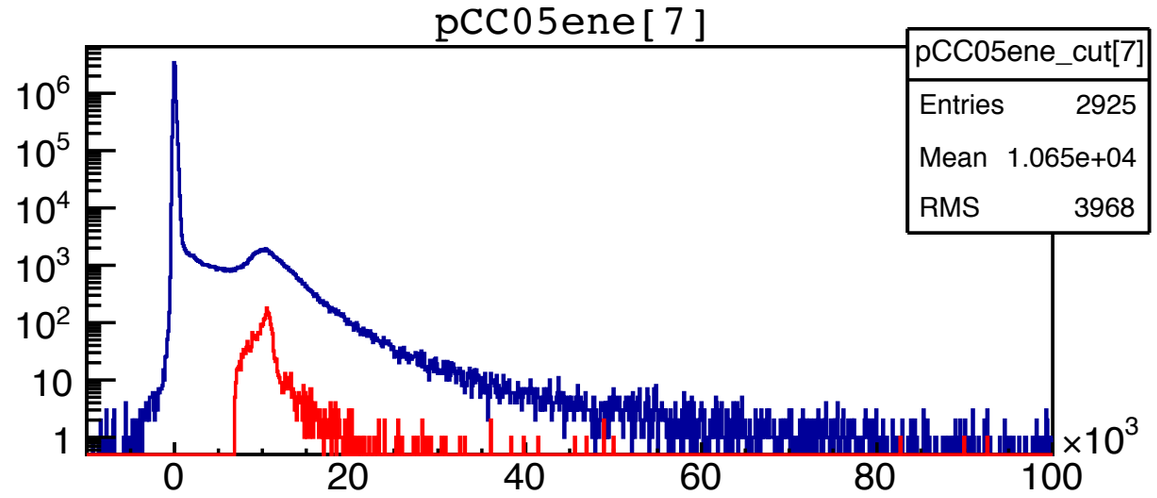


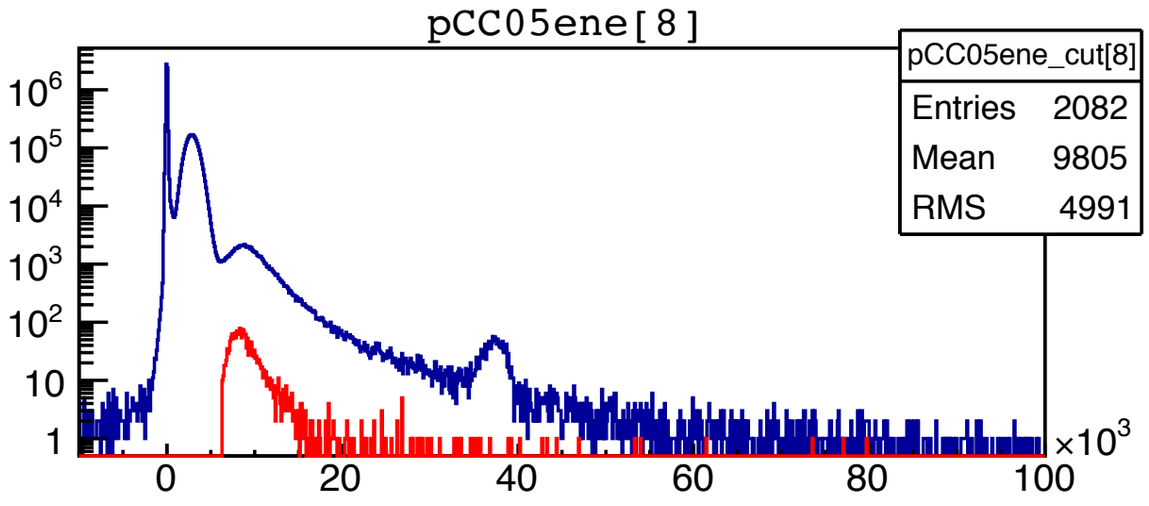


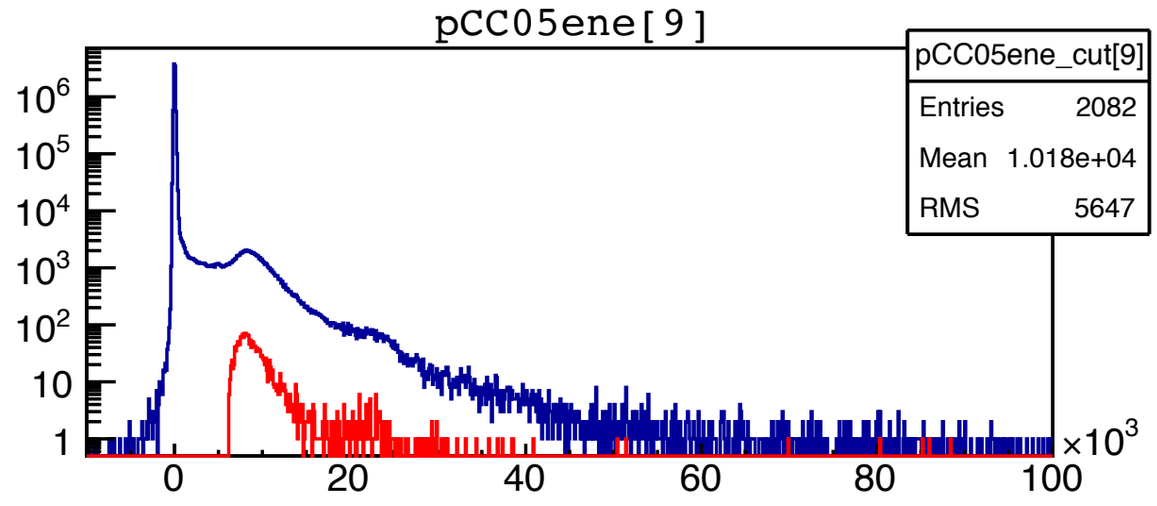
CC05 Distribution cut by ther. = MPV * 0.7

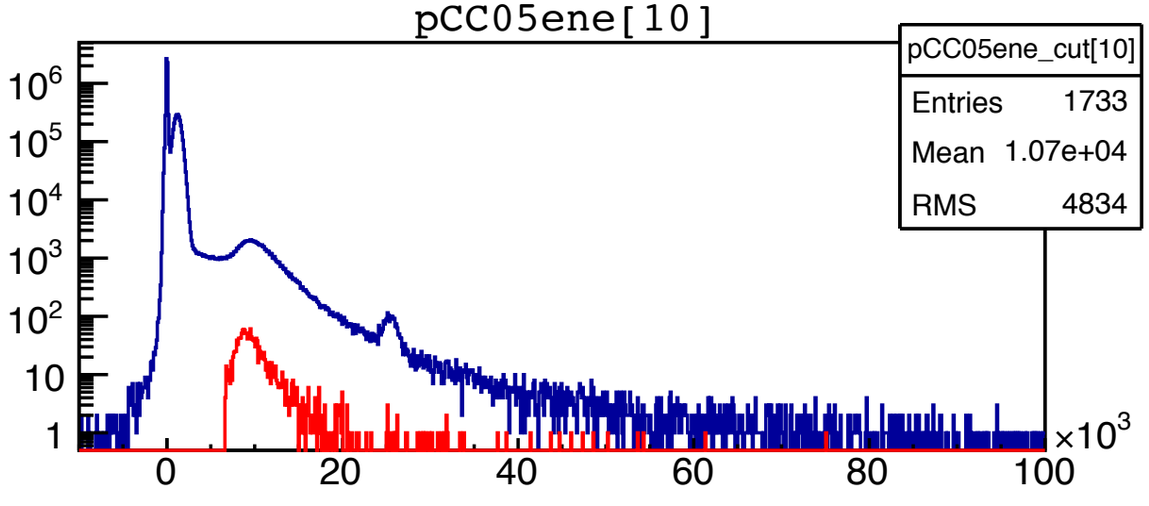
For North

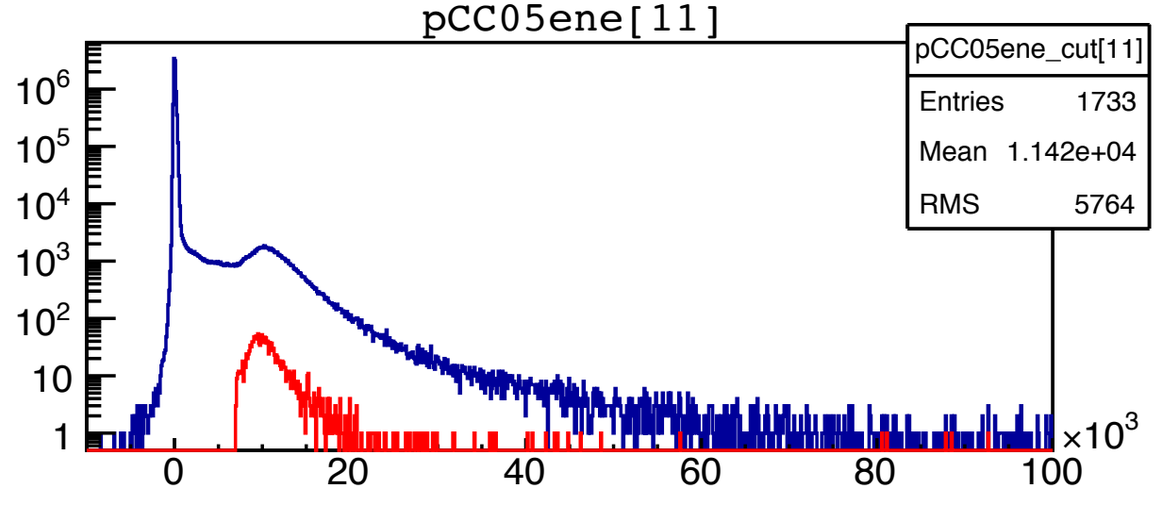






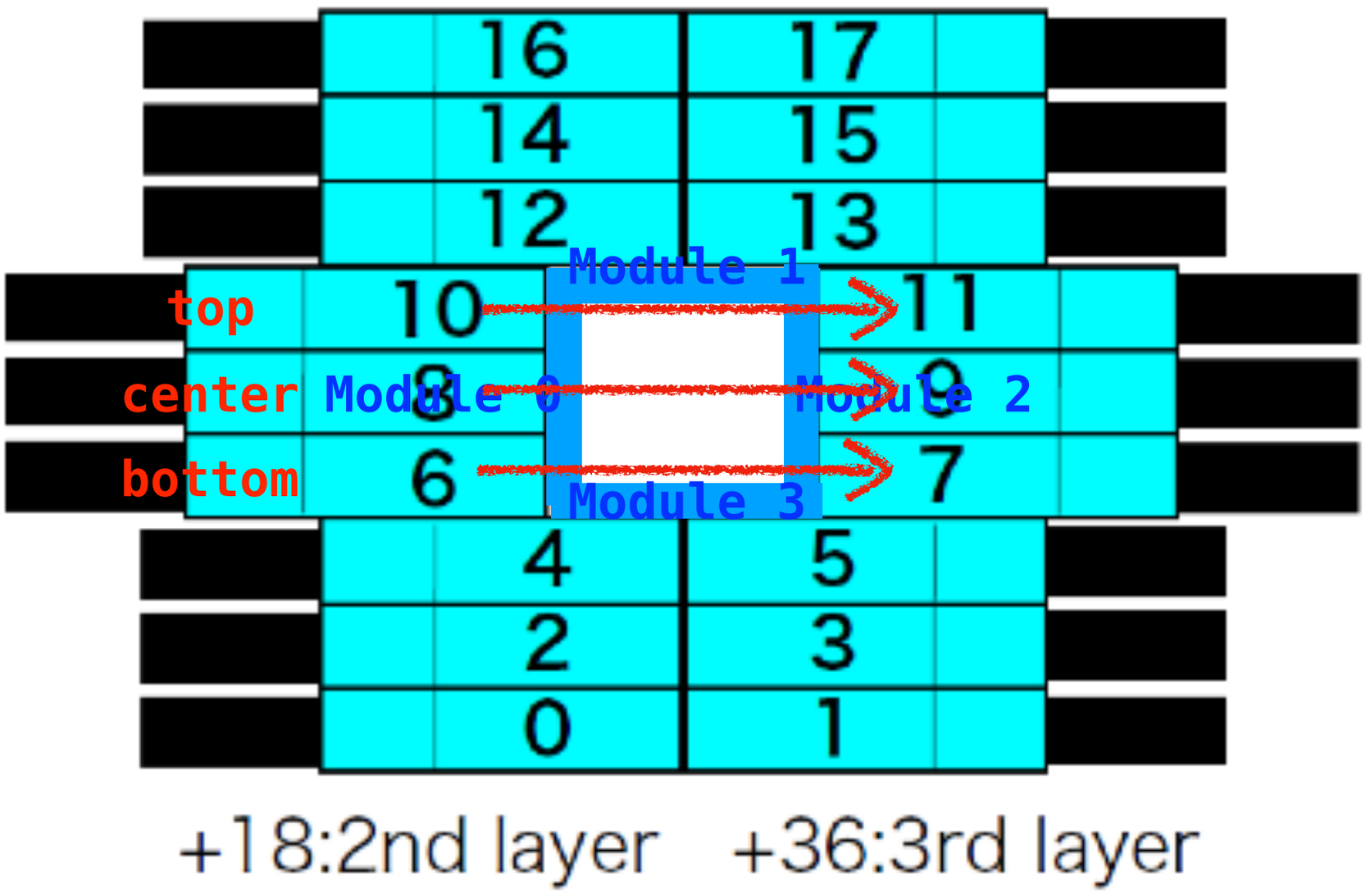






CC05

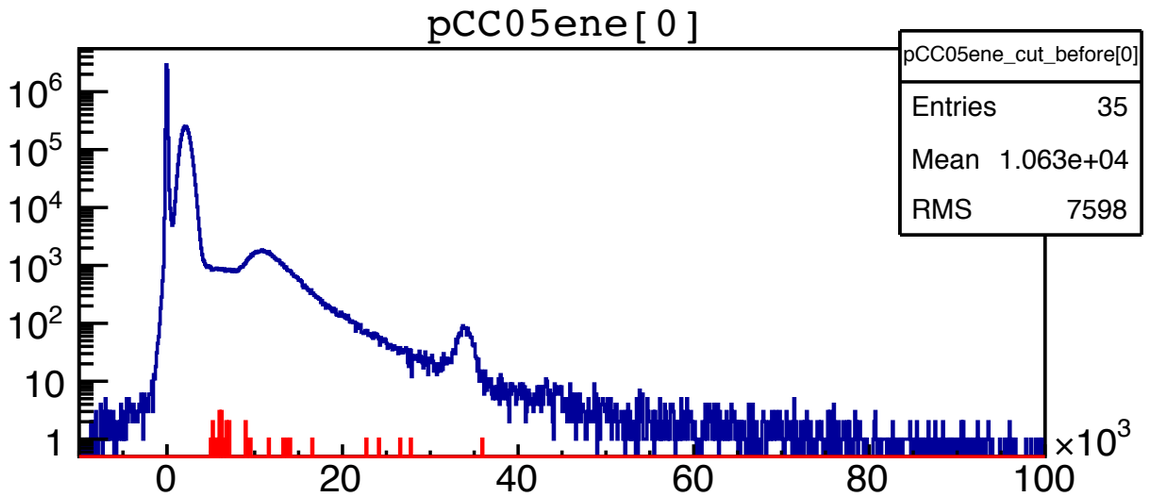
※ See CC05 from Upstream

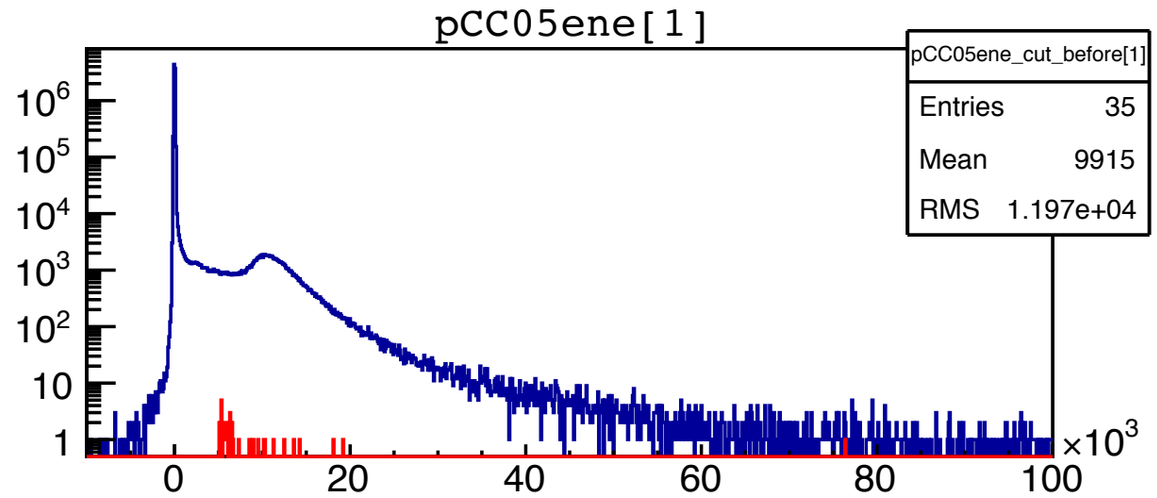


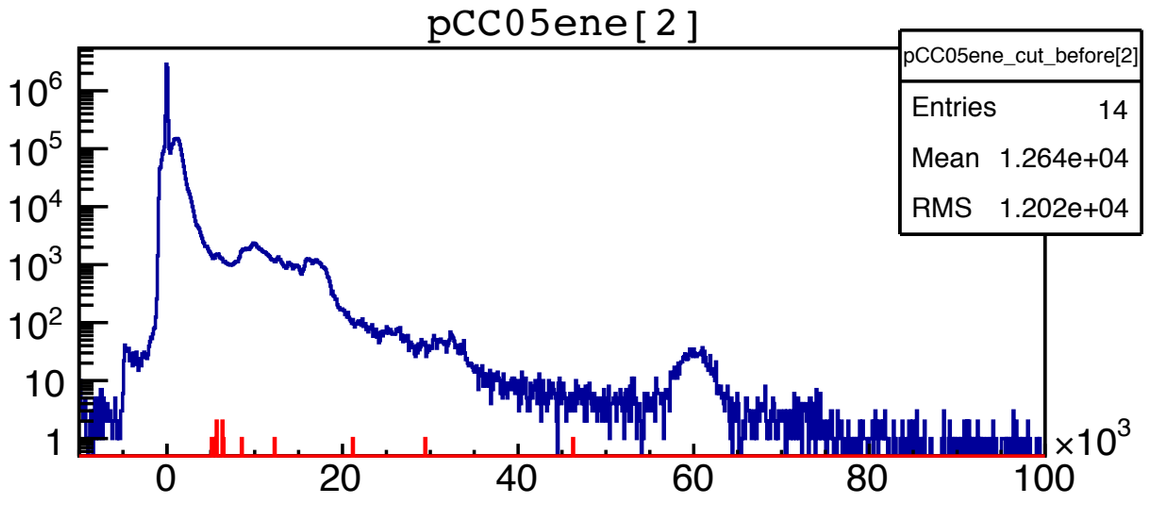
+18:2nd layer +36:3rd layer

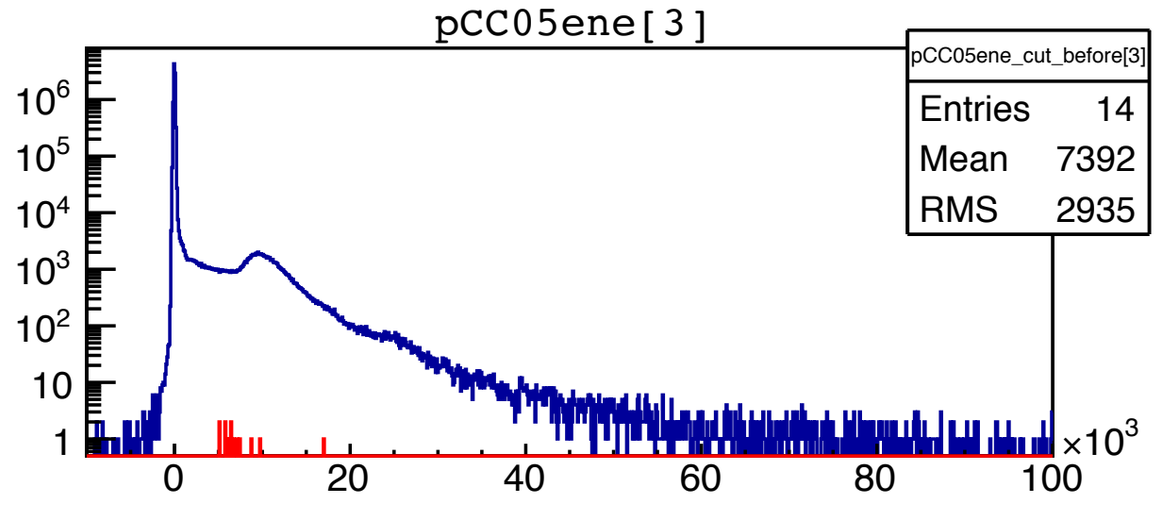
CC05 Distribution cut by constant ther.

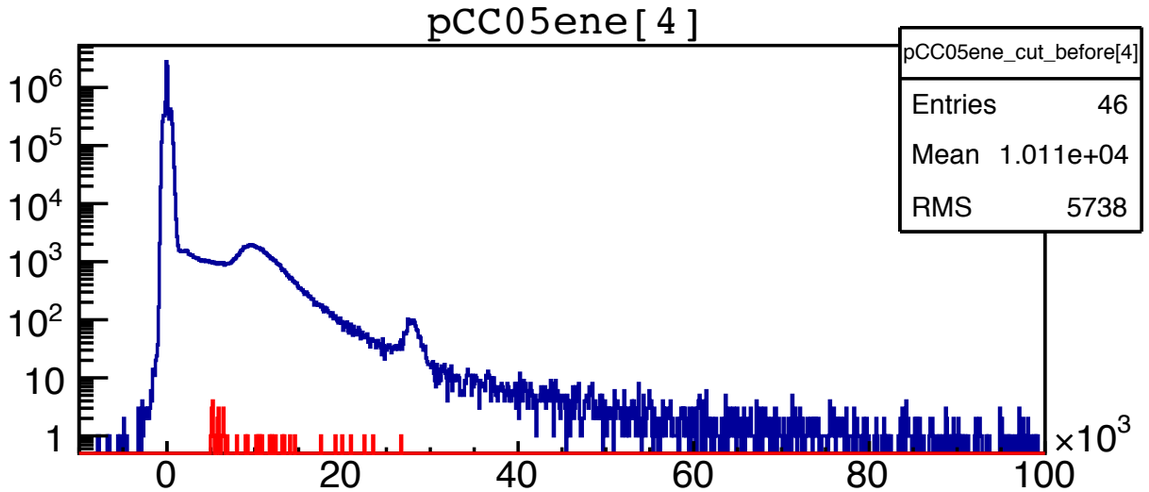
For Top

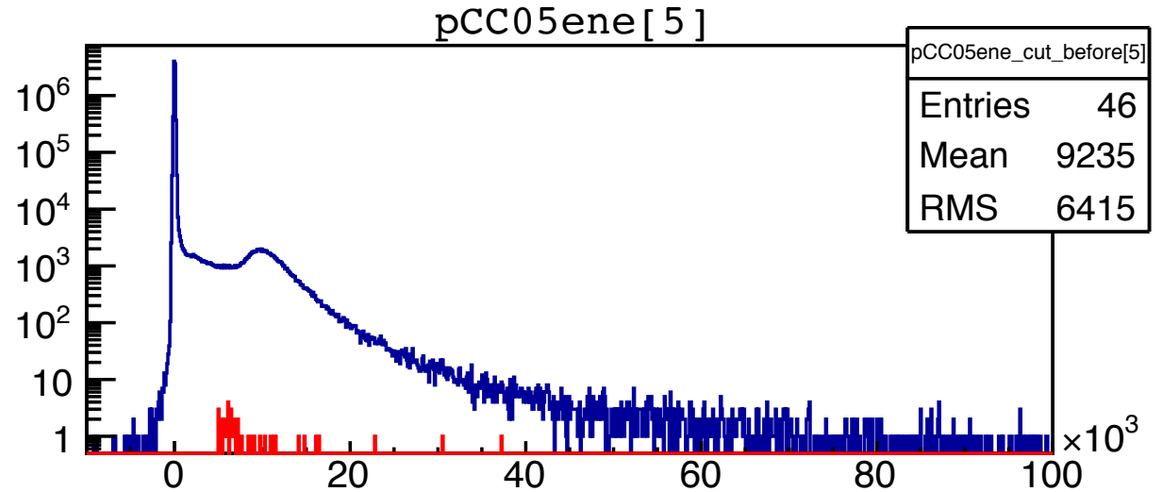






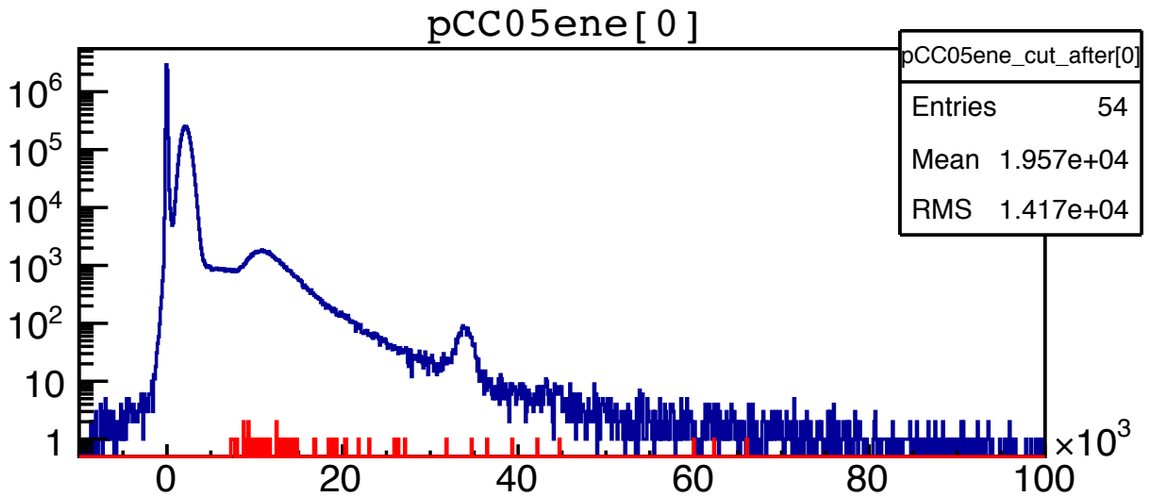


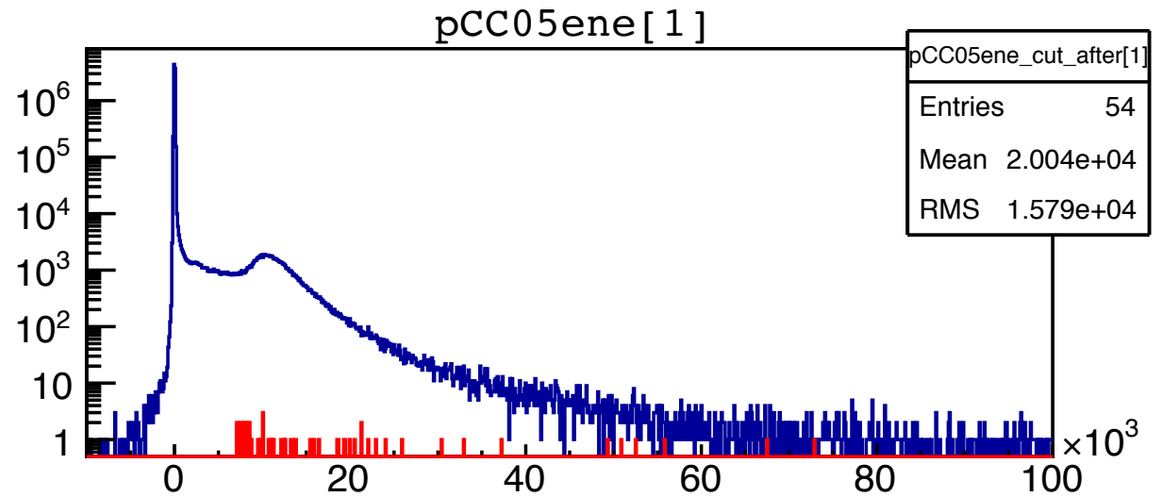


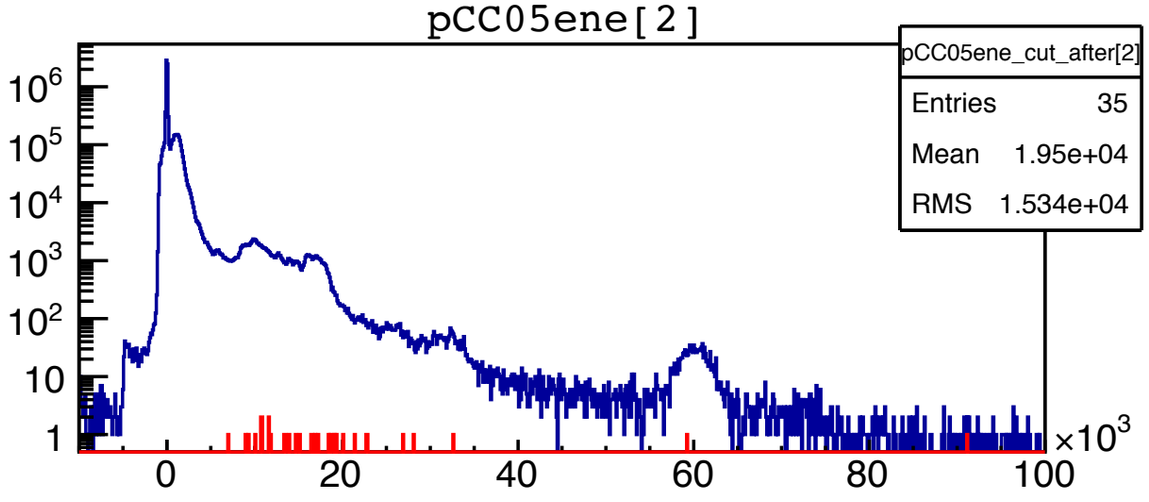


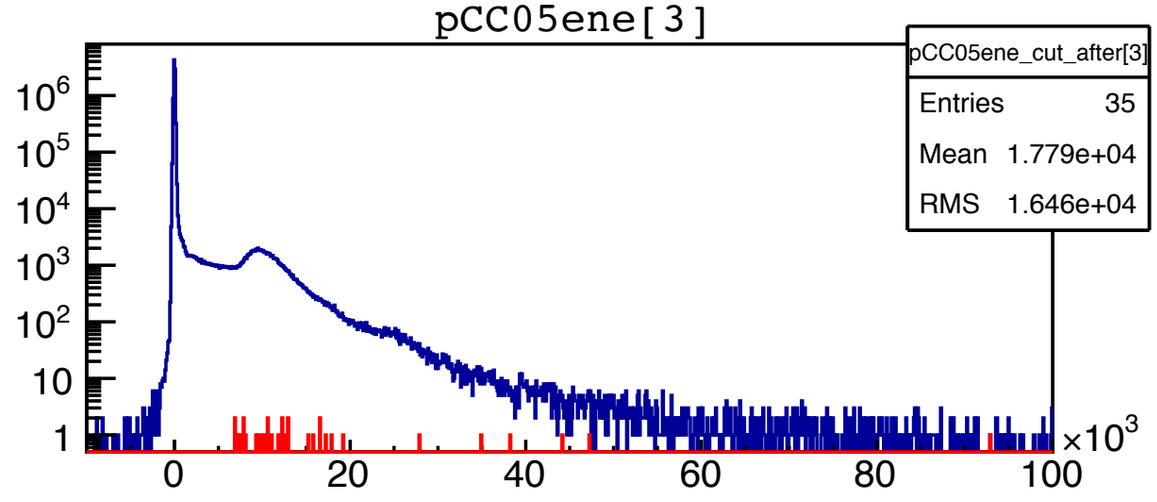
CC05 Distribution cut by ther. = MPV * 0.7

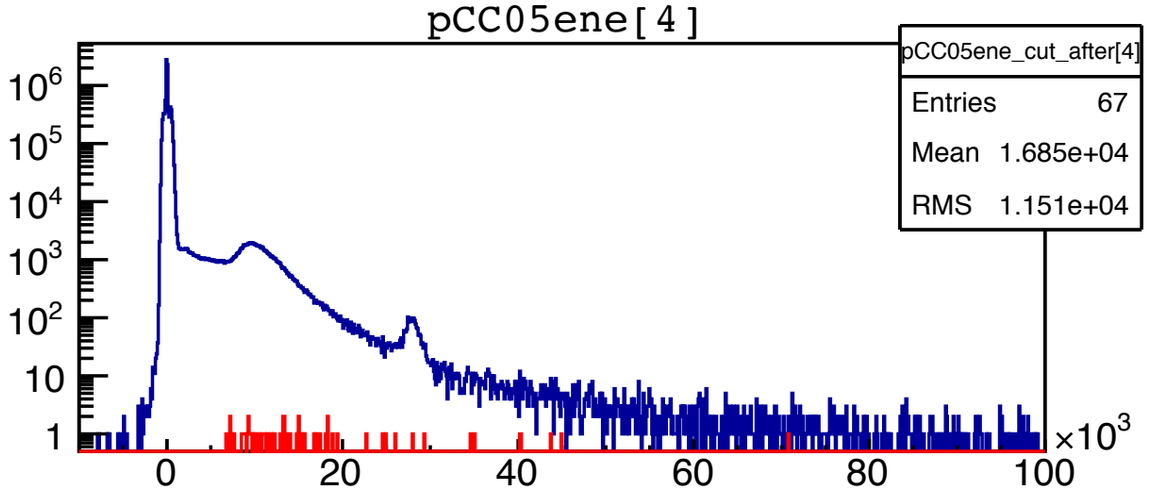
For Top

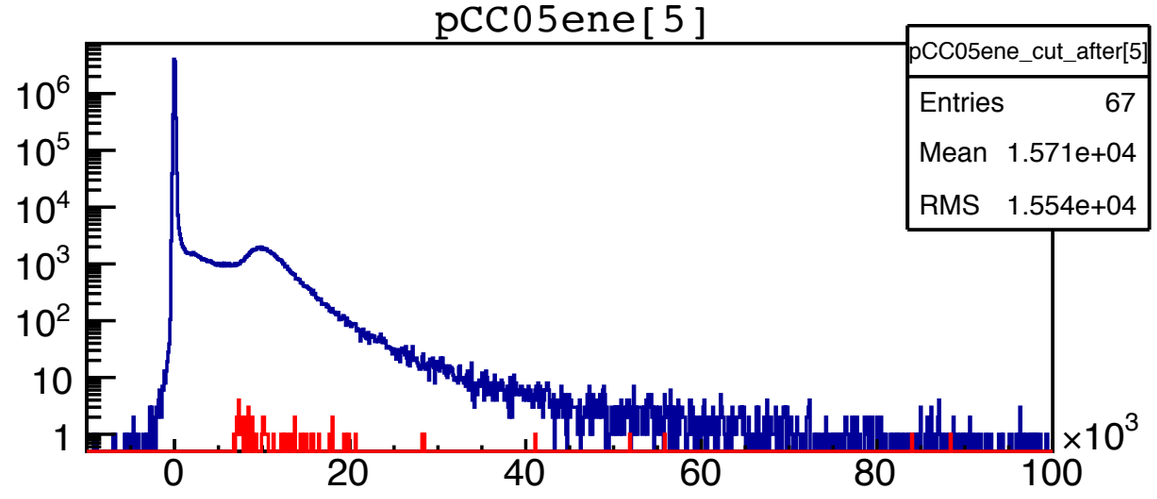






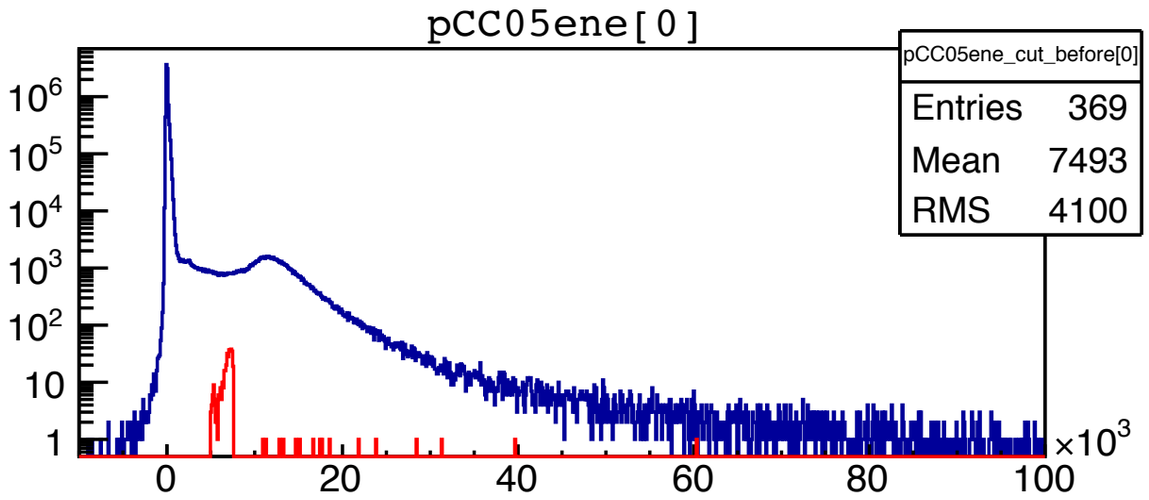


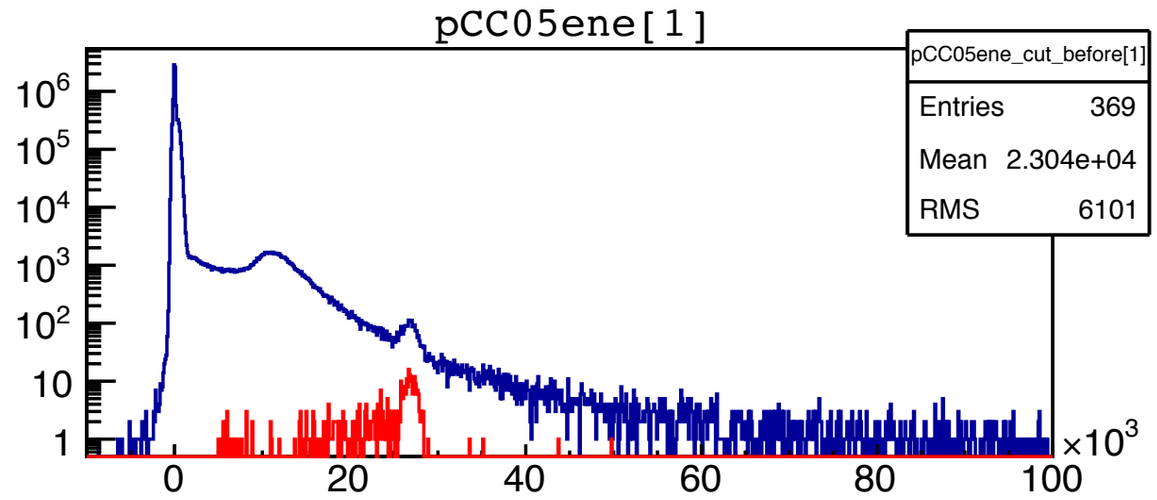


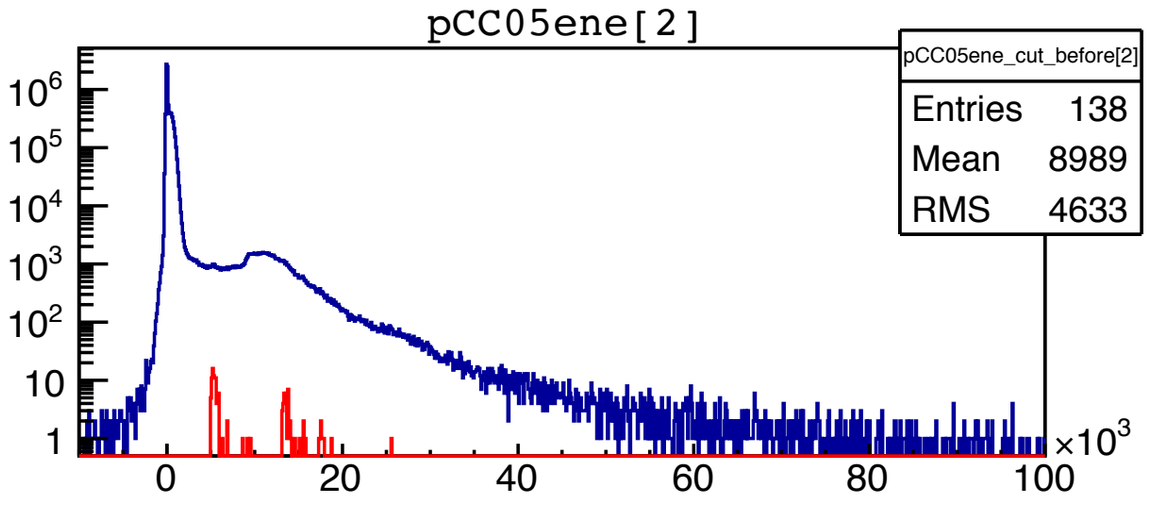


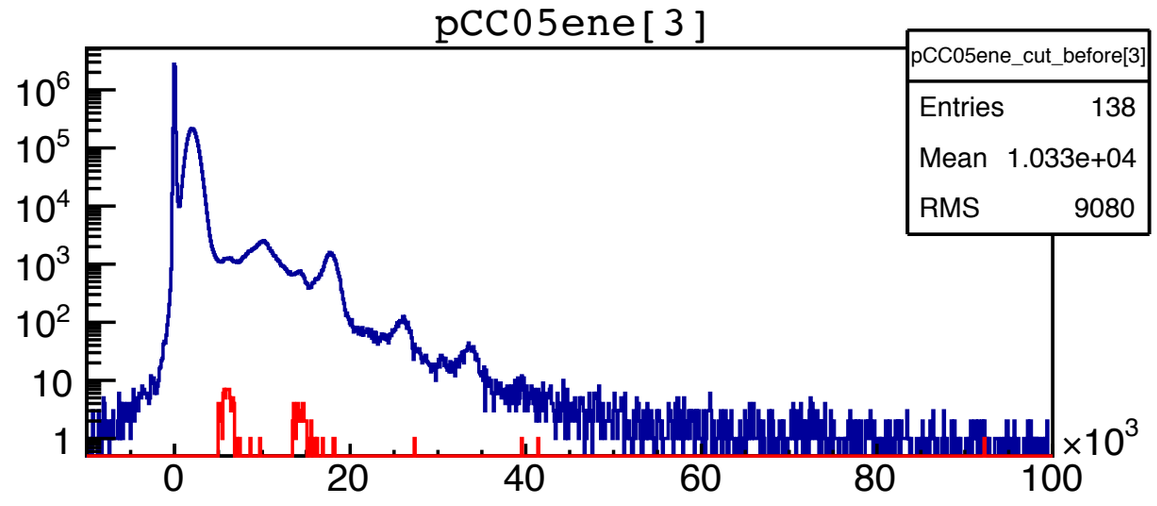
CC05 Distribution cut by constant ther.

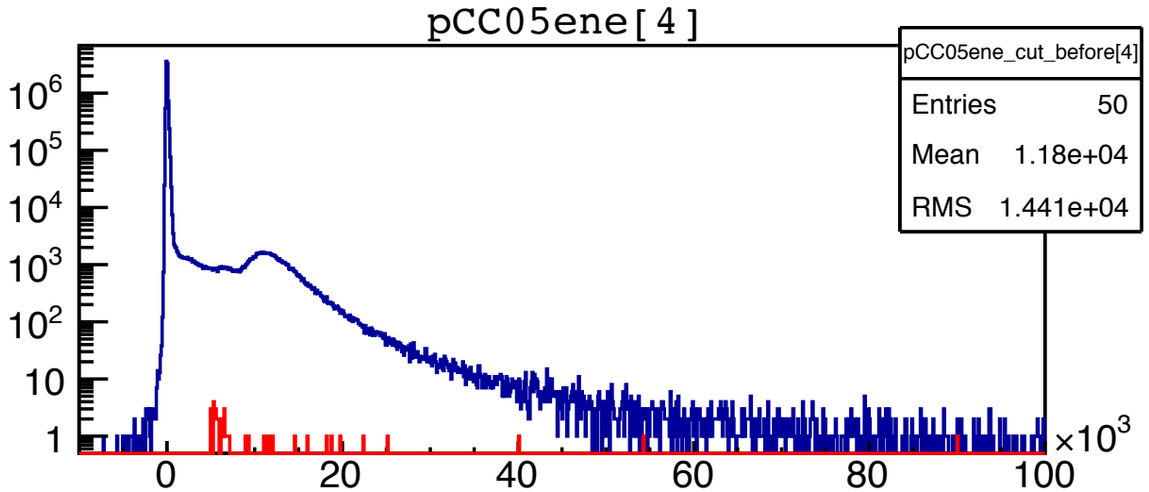
For Bottom

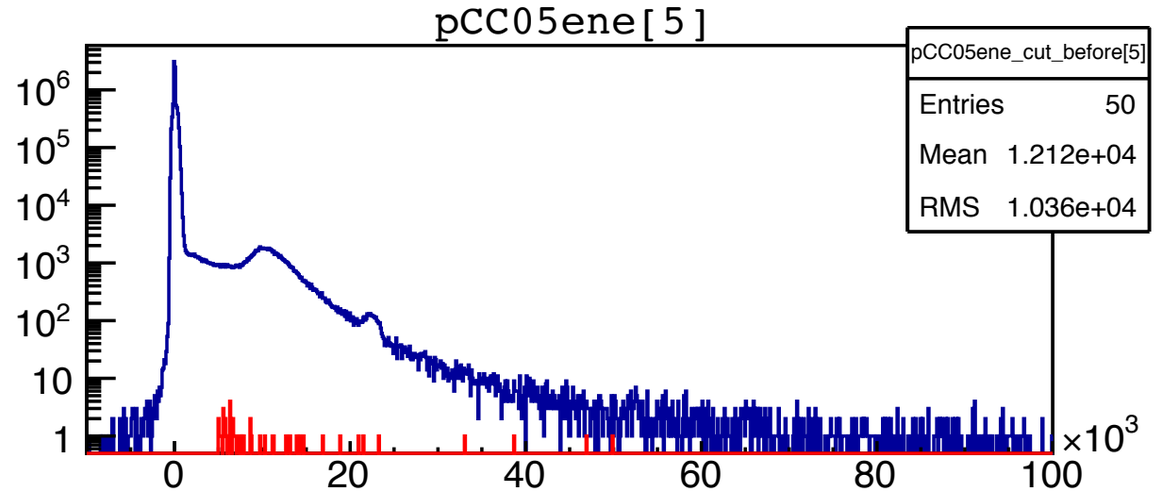






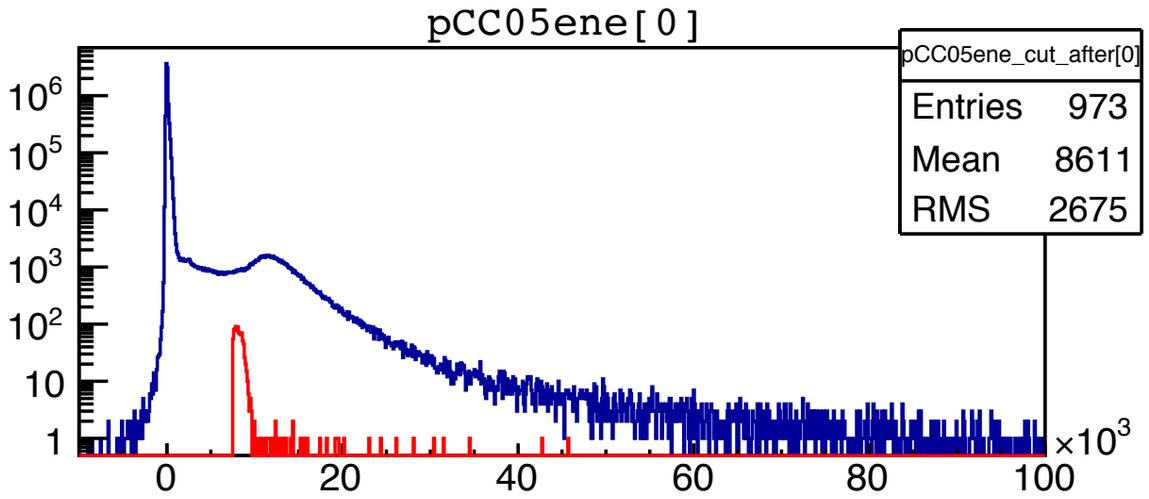


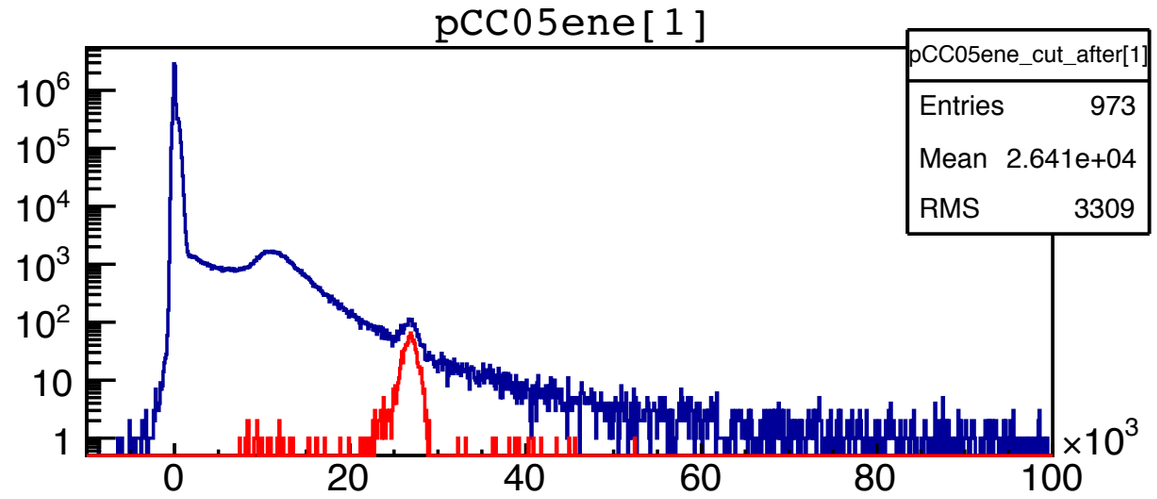


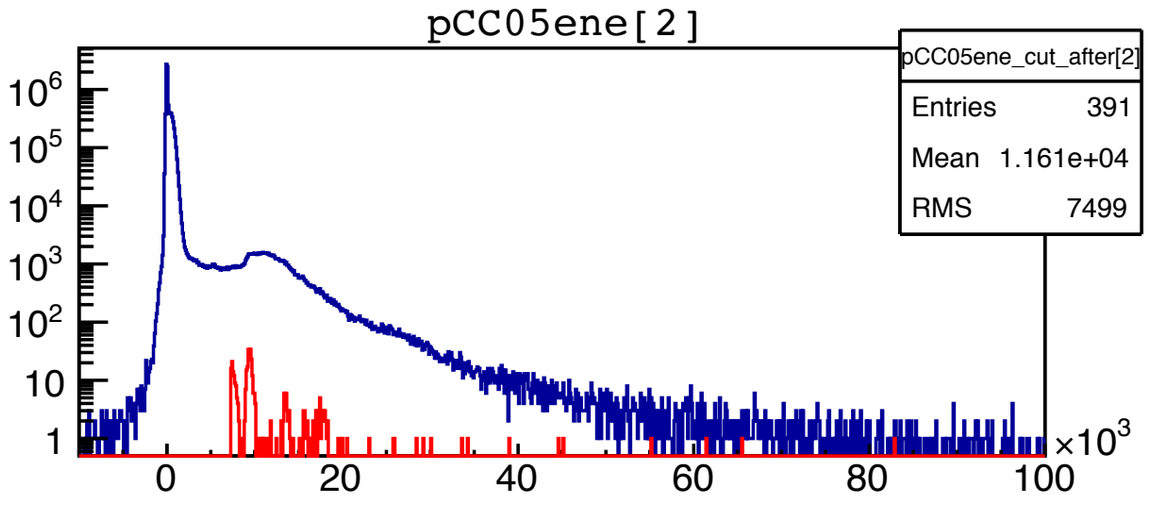


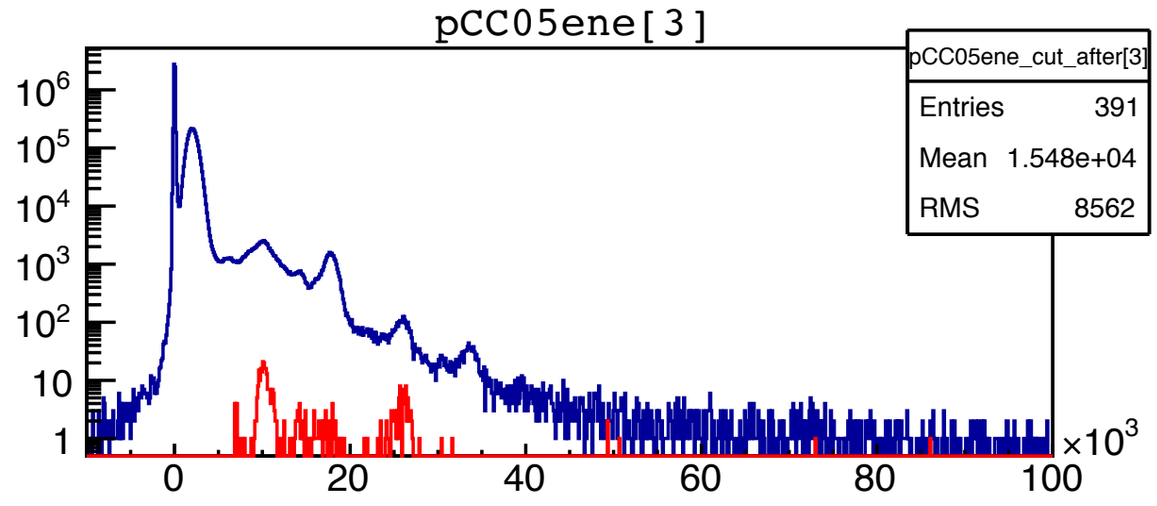
CC05 Distribution cut by ther. = MPV * 0.7

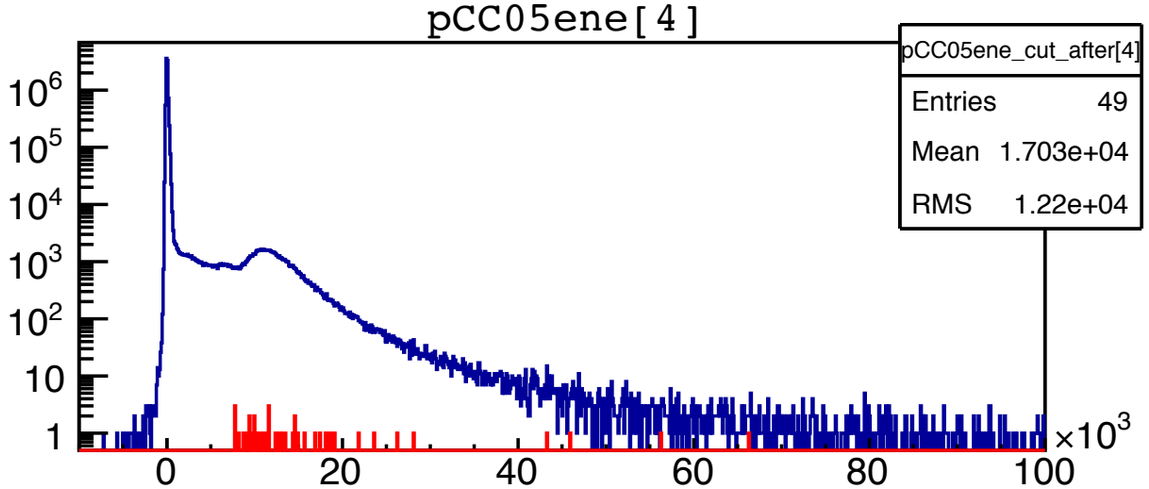
For Bottom

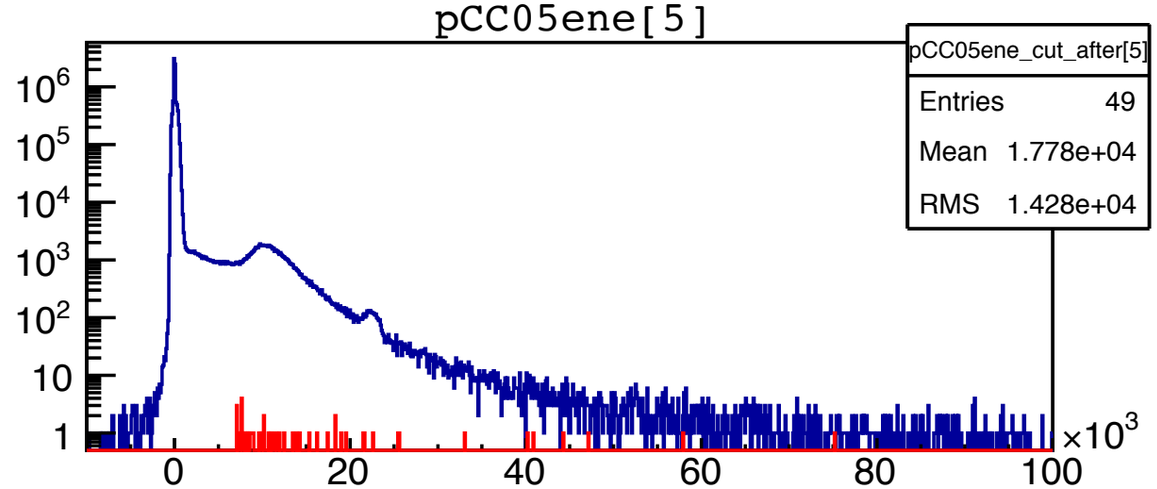






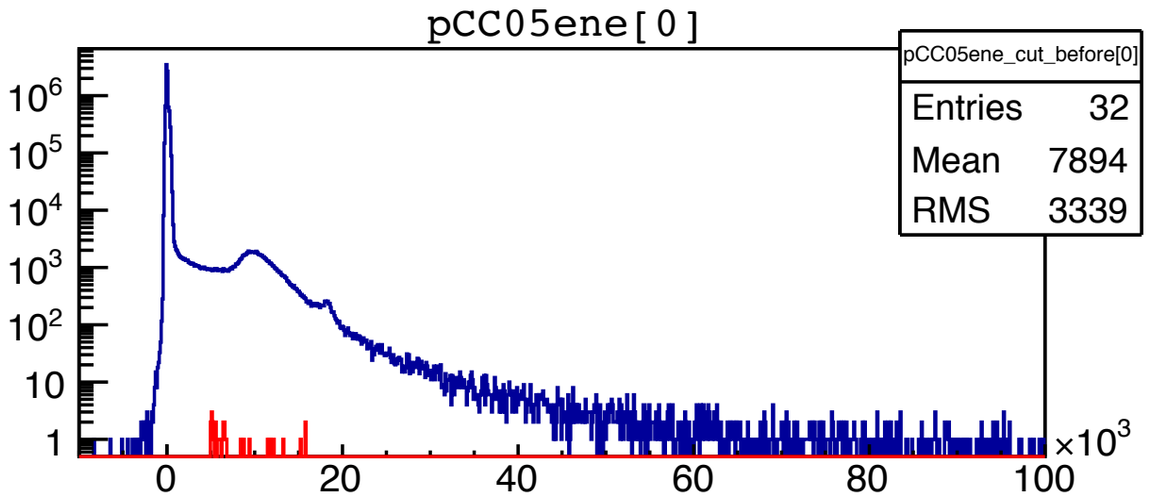


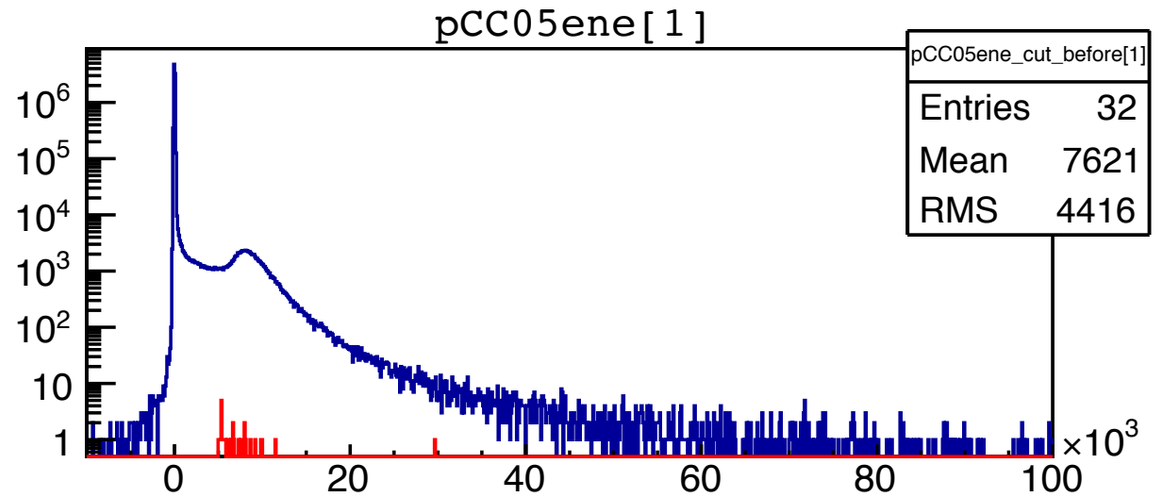


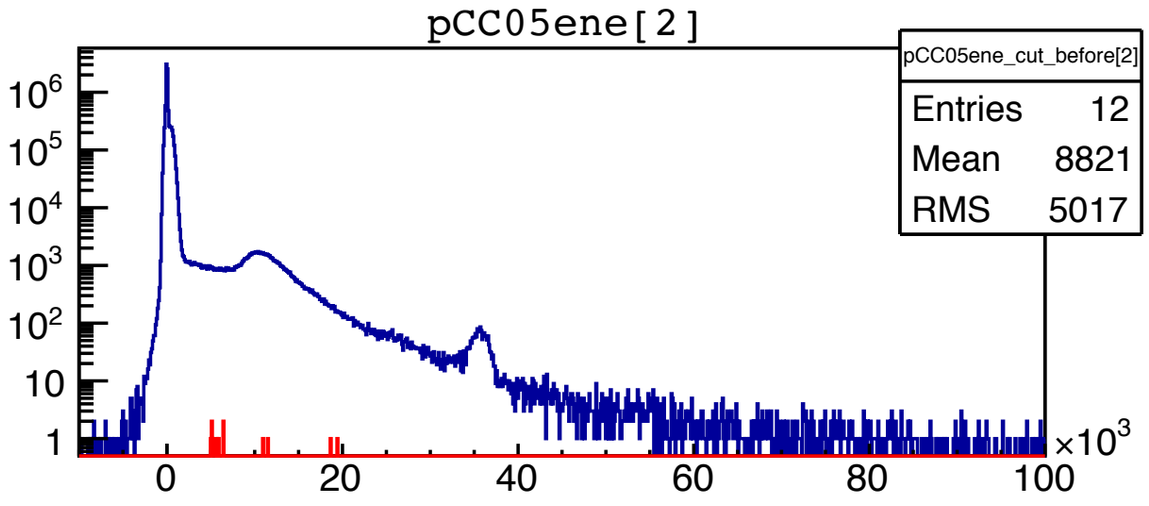


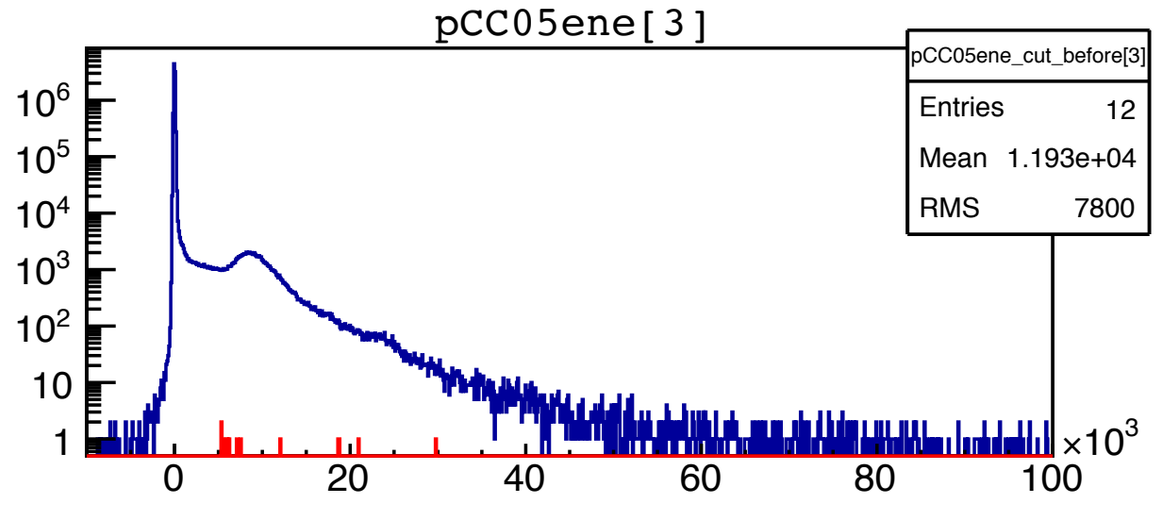
CC05 Distribution cut by constant ther.

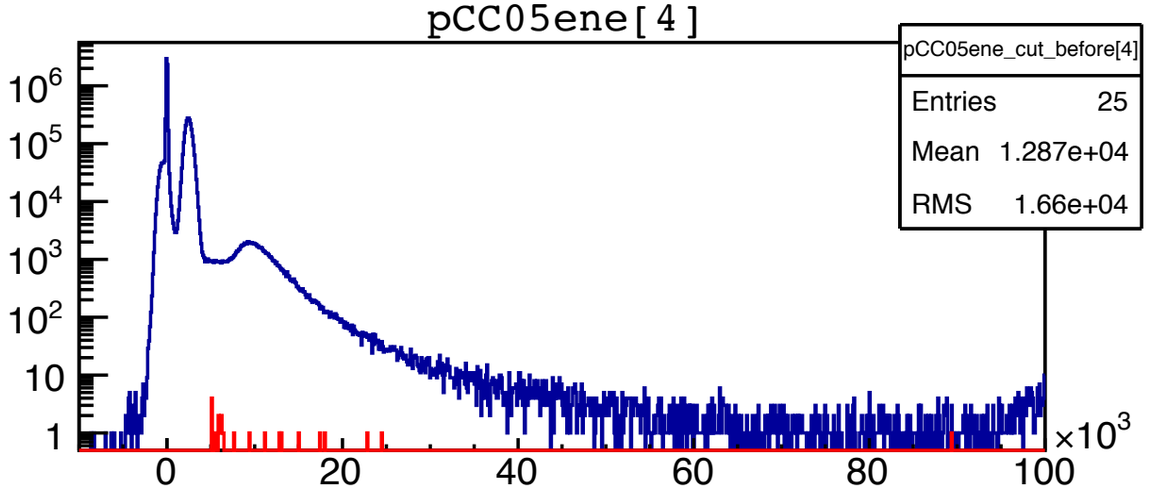
For Center

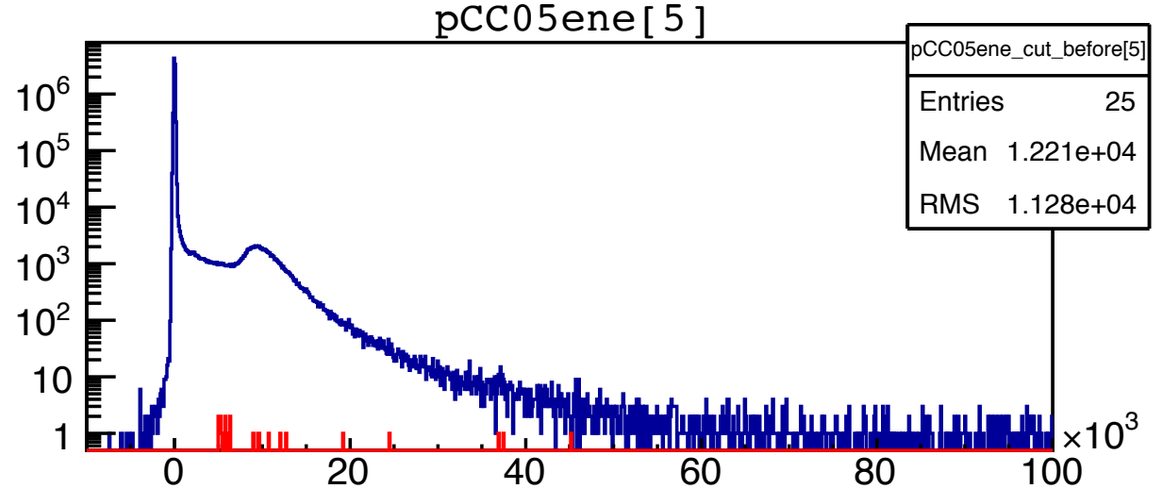






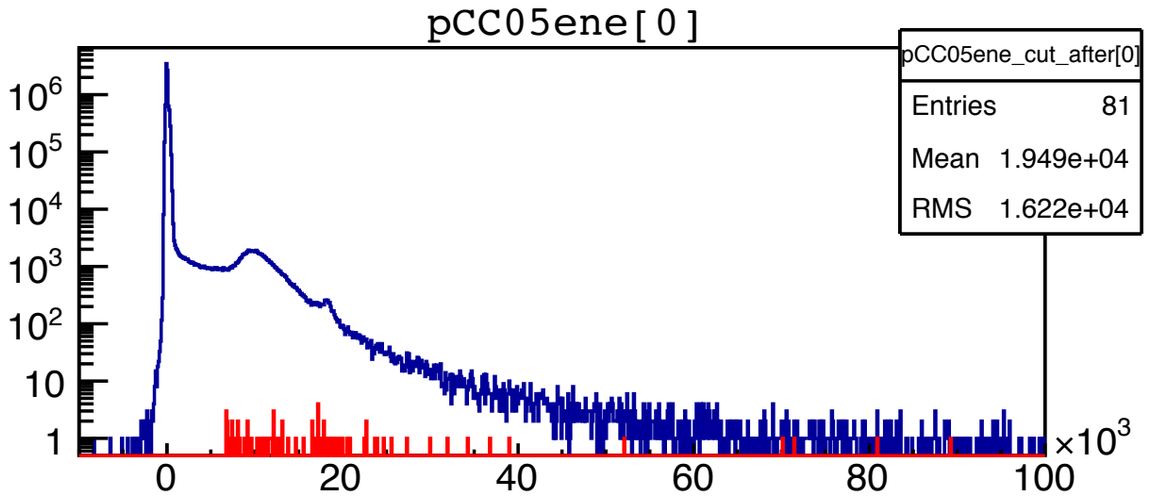


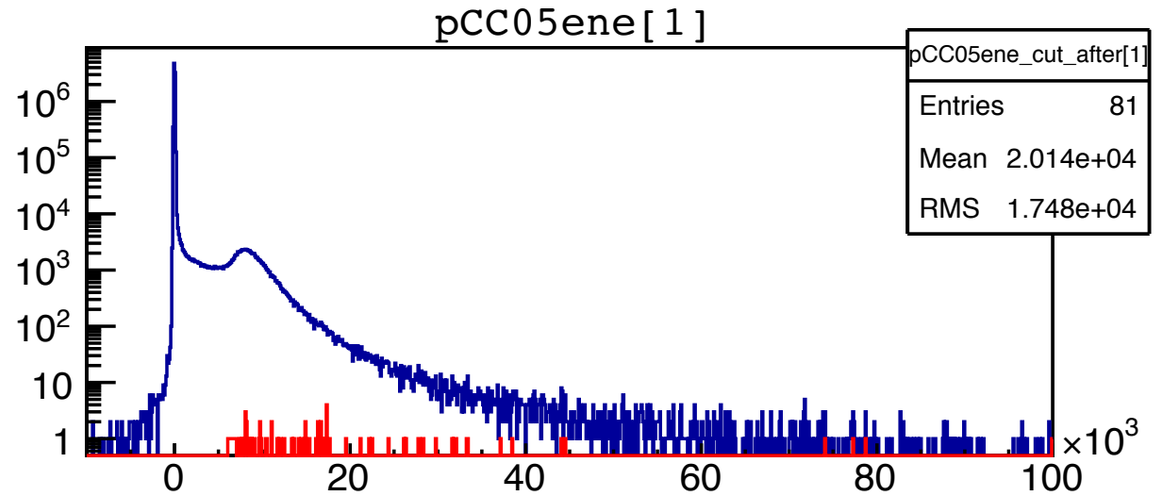


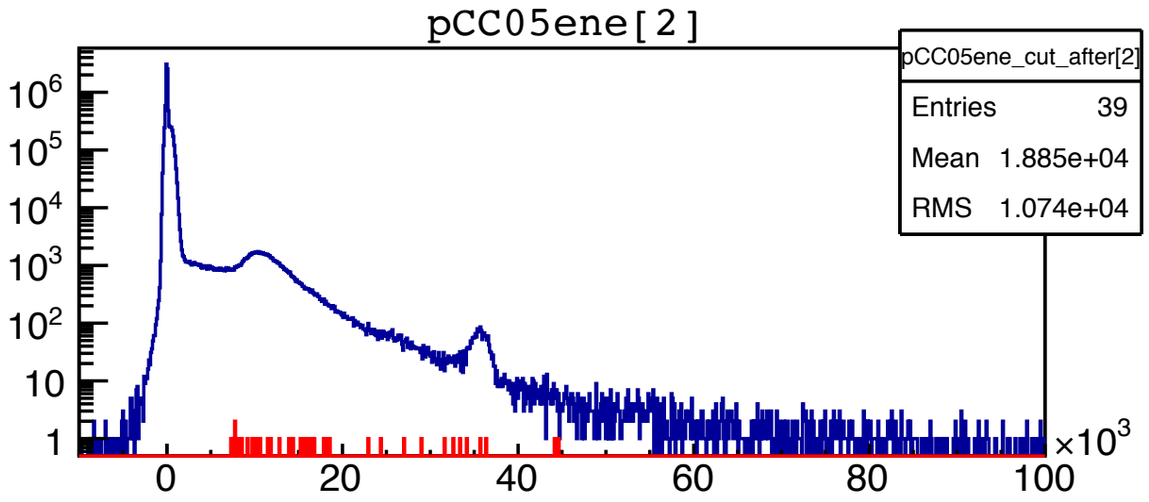


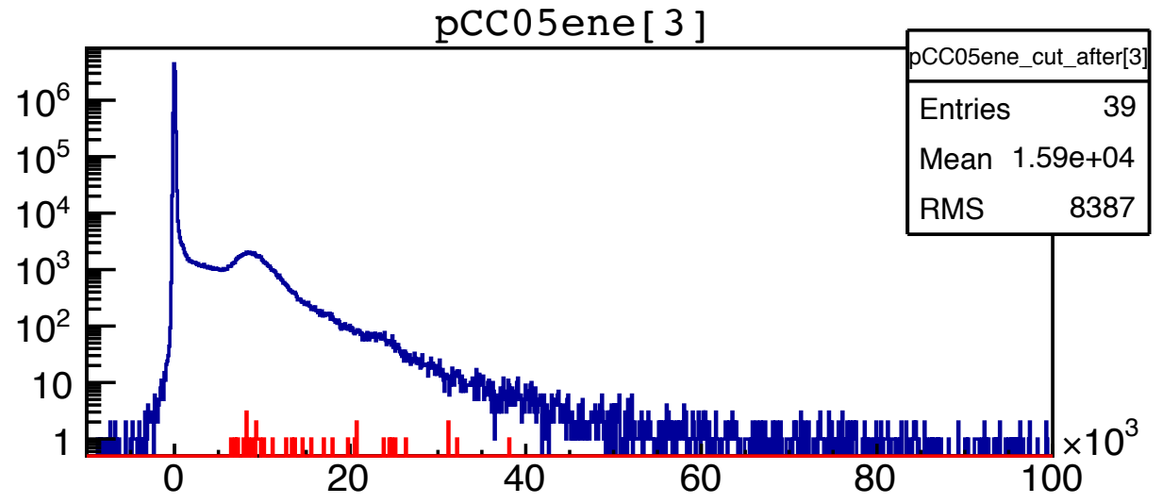
CC05 Distribution cut by ther. = MPV * 0.7

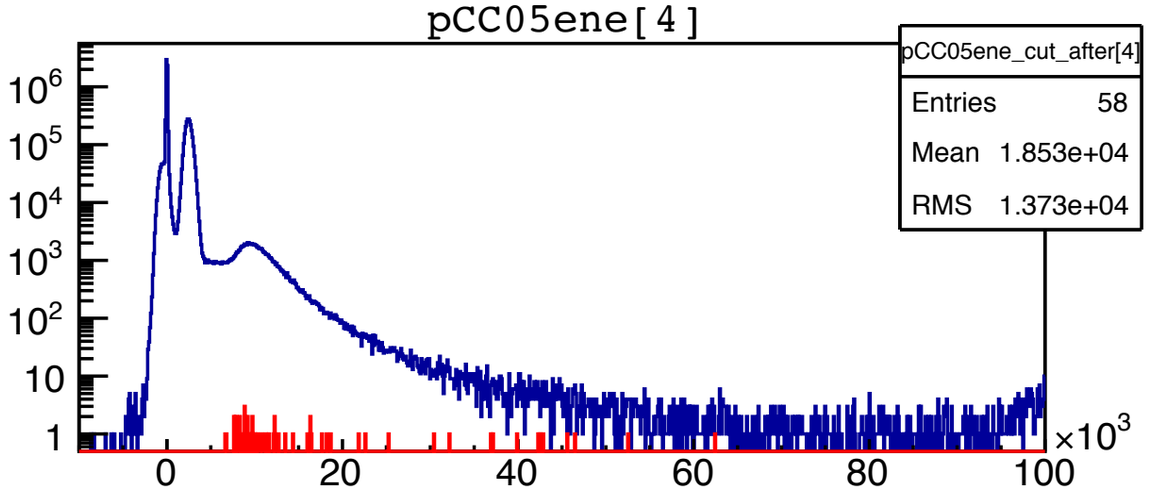
For Center

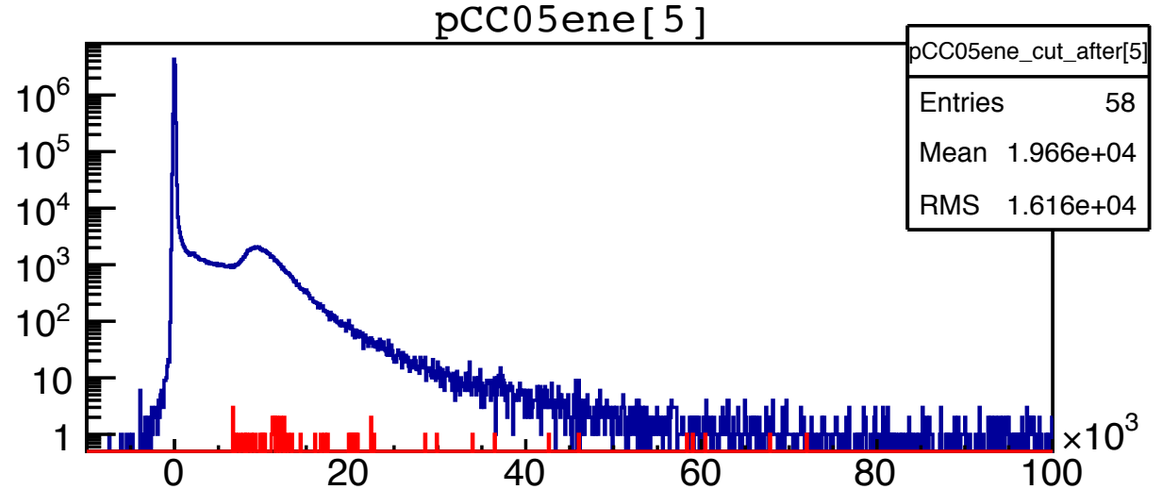






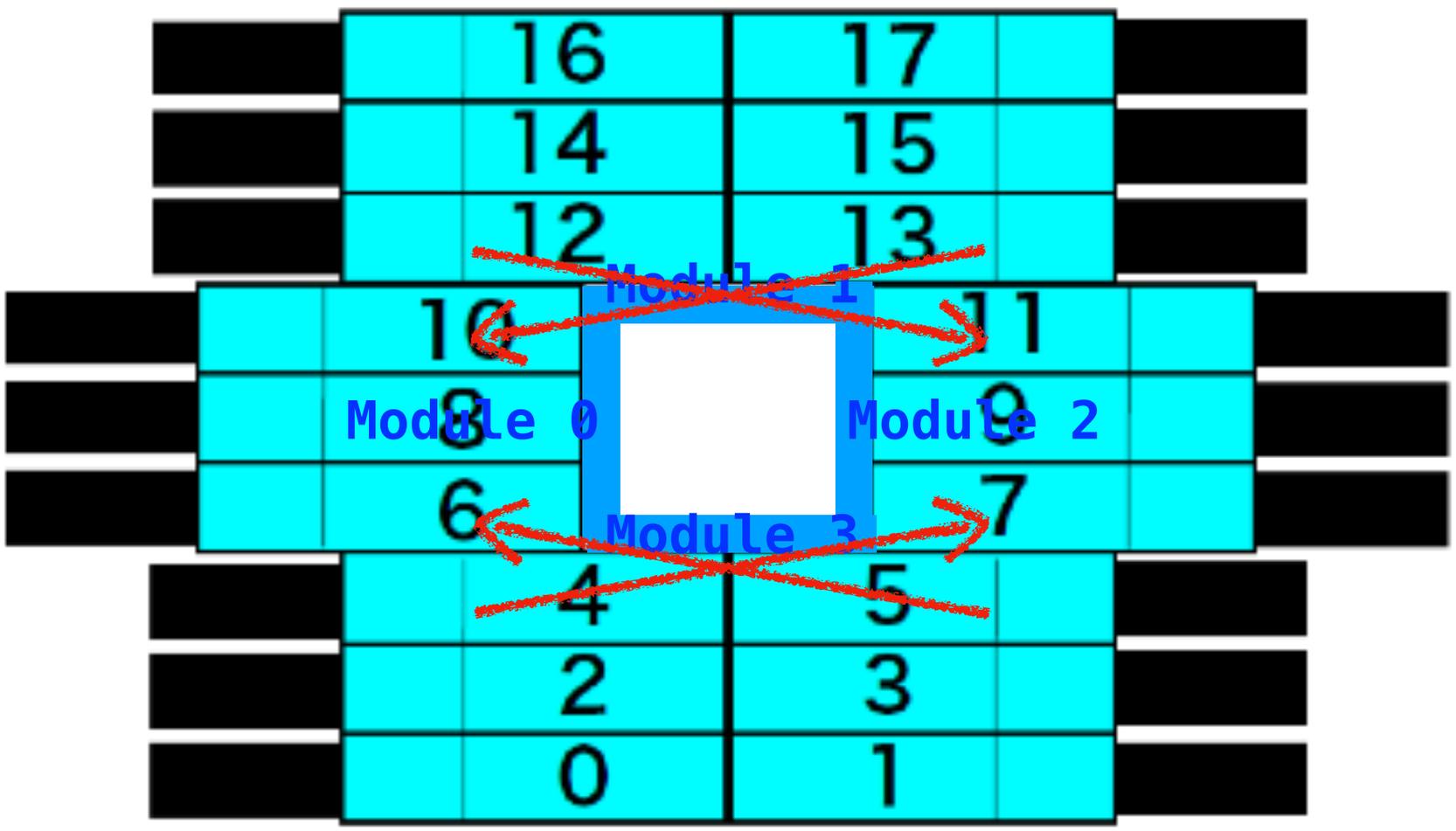






CC05

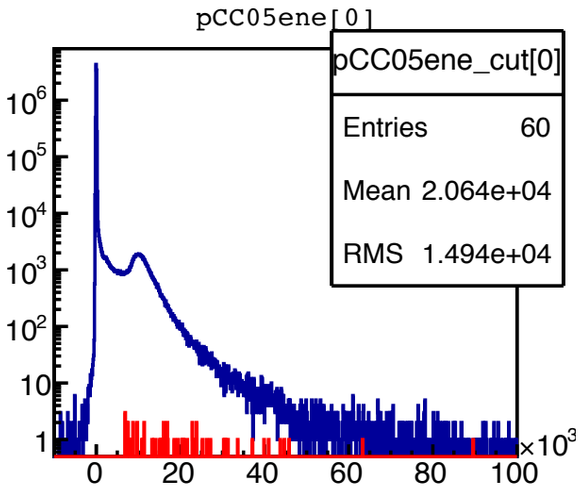
※ See CC05 from Upstream

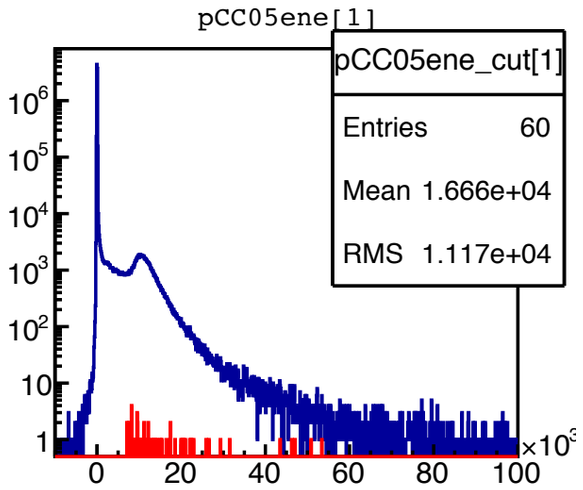


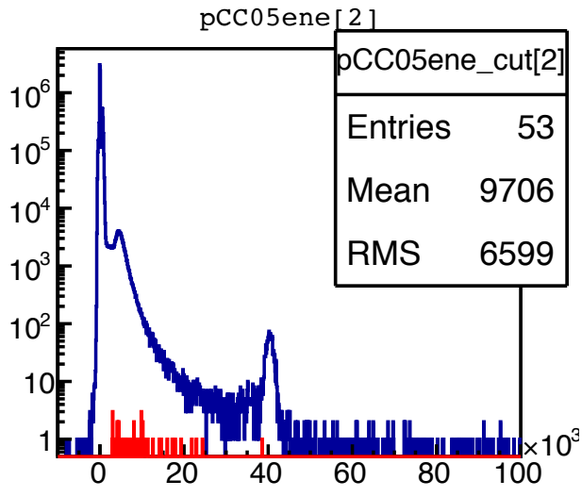
+18:2nd layer +36:3rd layer

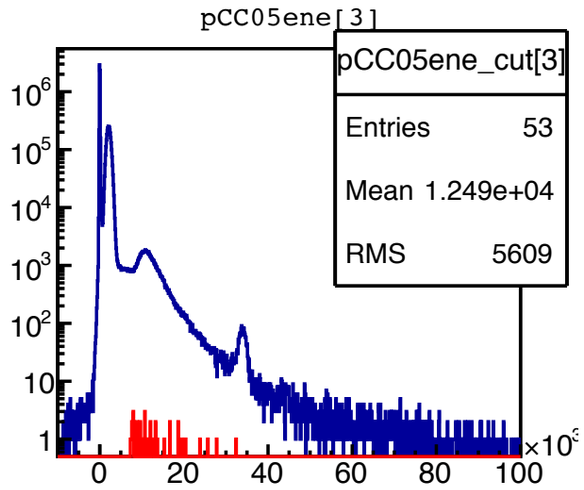
CC05 Distribution cut by ther. = MPV * 0.7

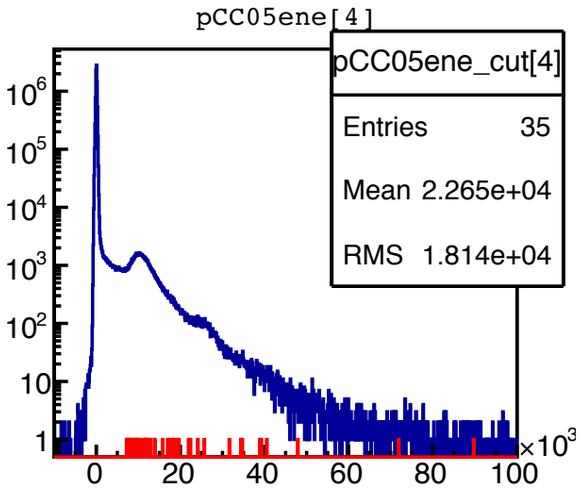
For Top(Cross)

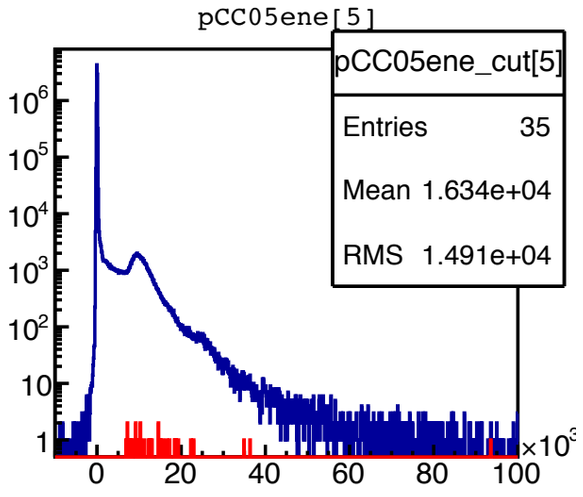


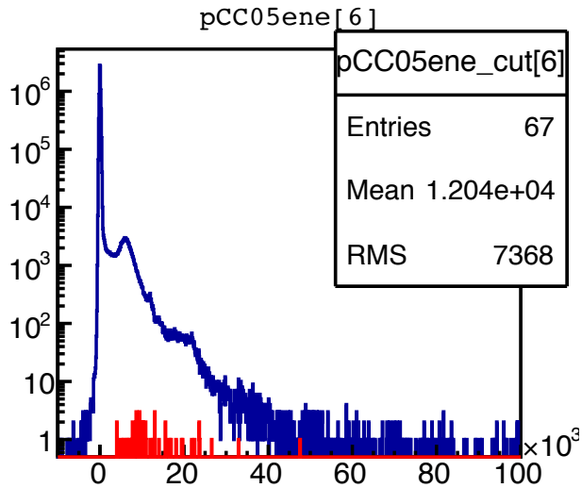


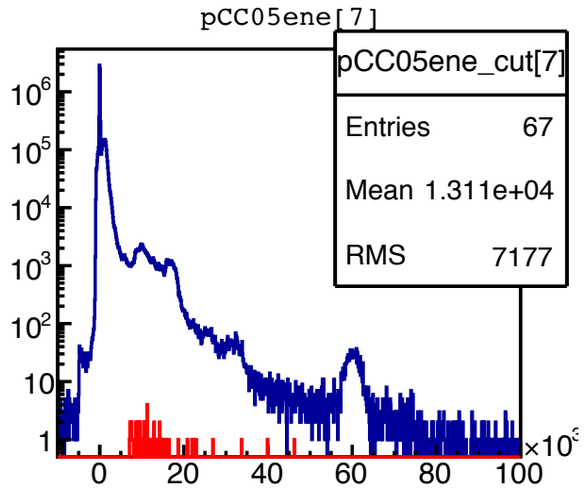


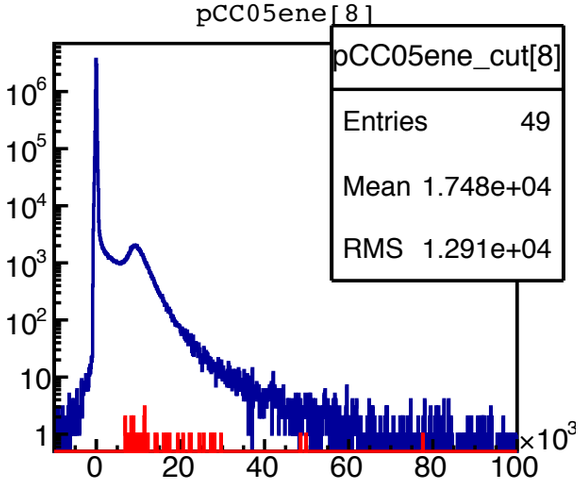


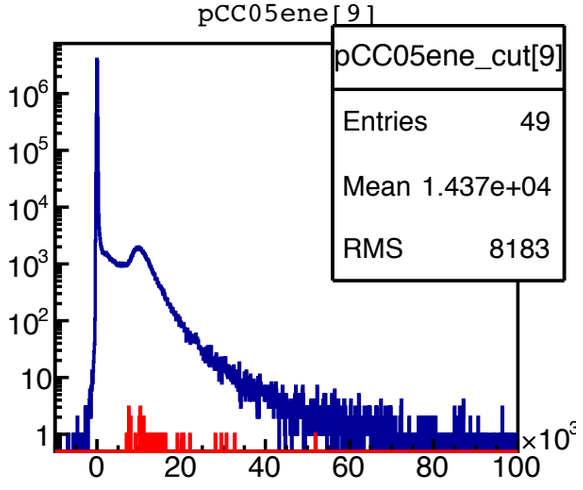


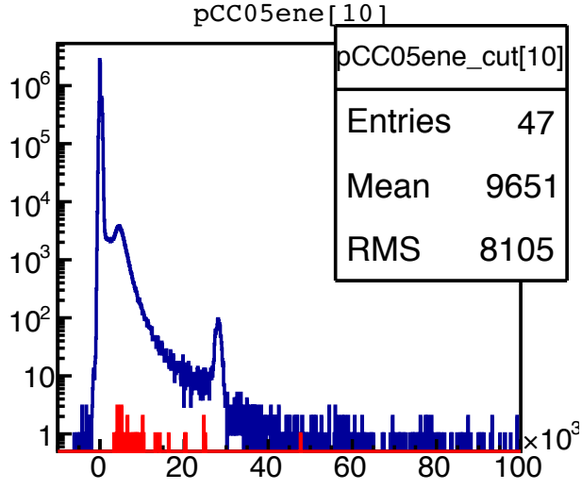


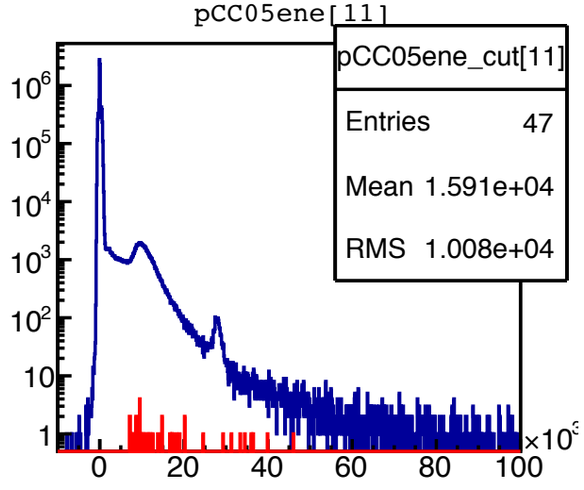






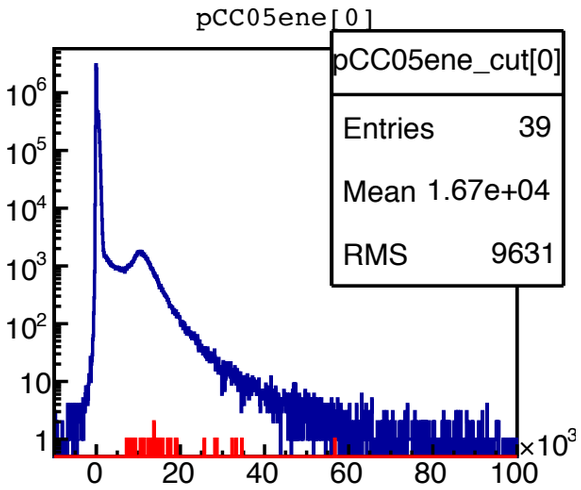


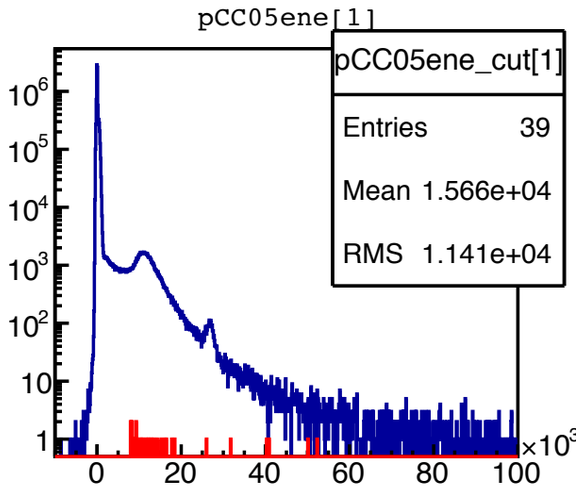


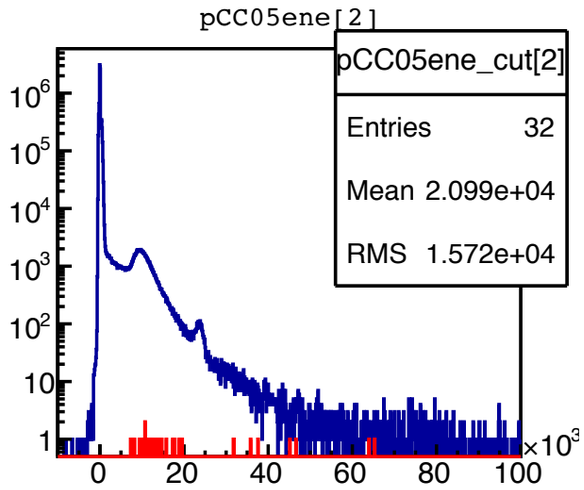


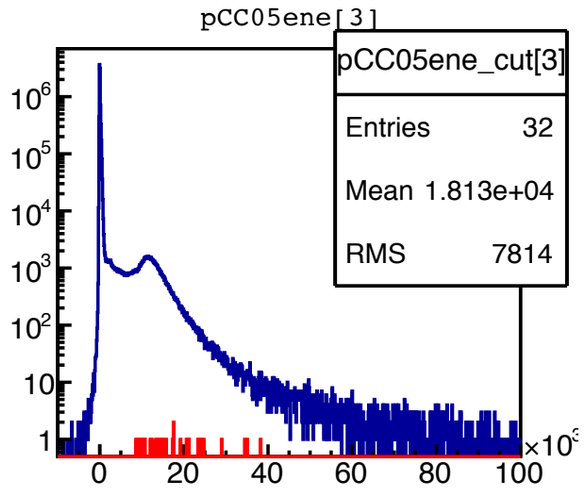
CC05 Distribution cut by ther. = MPV * 0.7

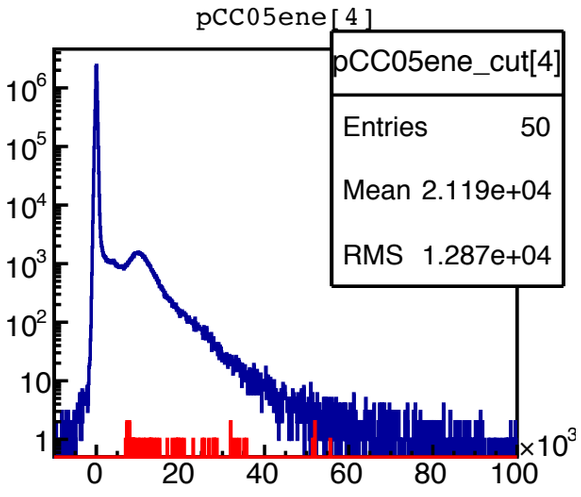
For Bottom(Cross)

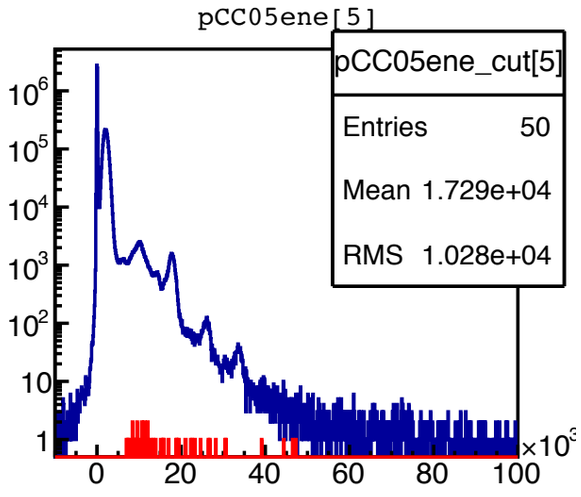


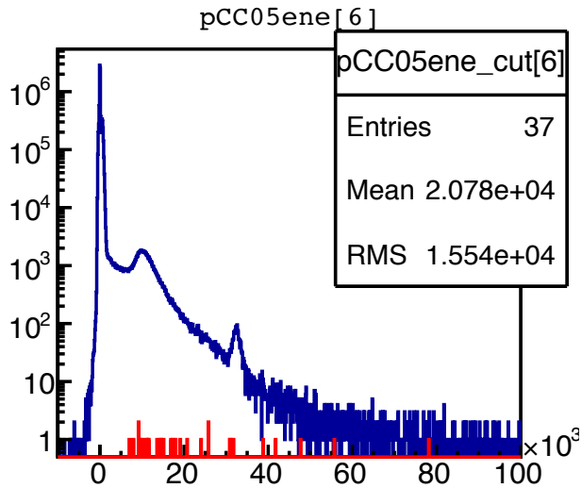


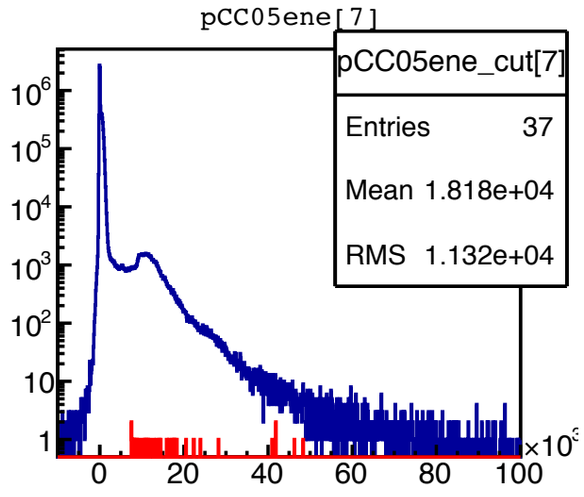


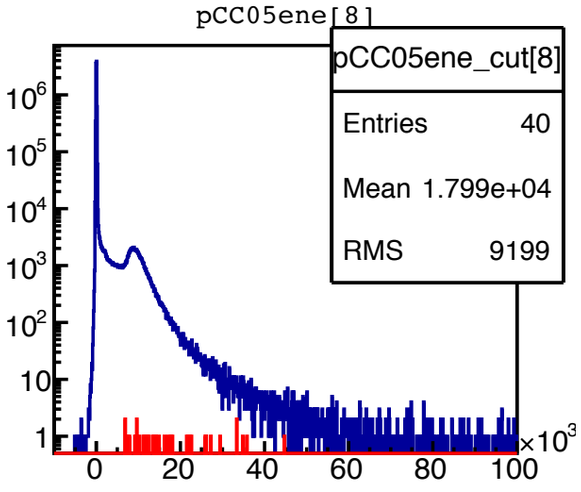


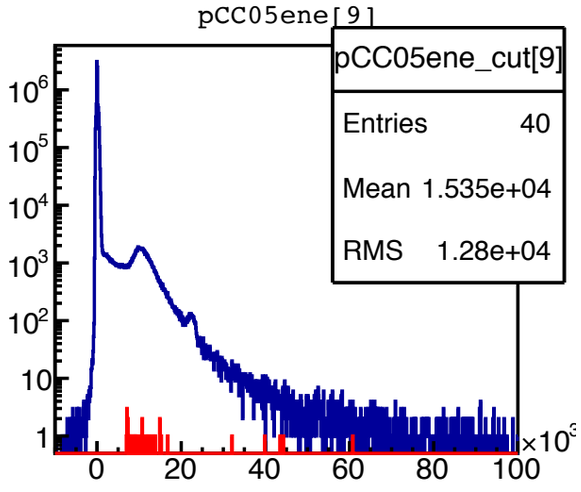


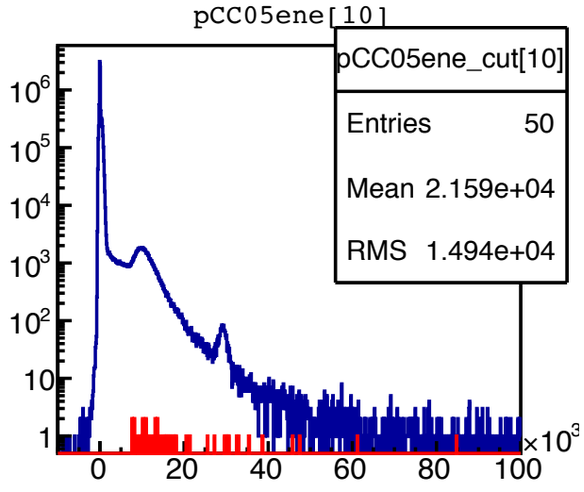


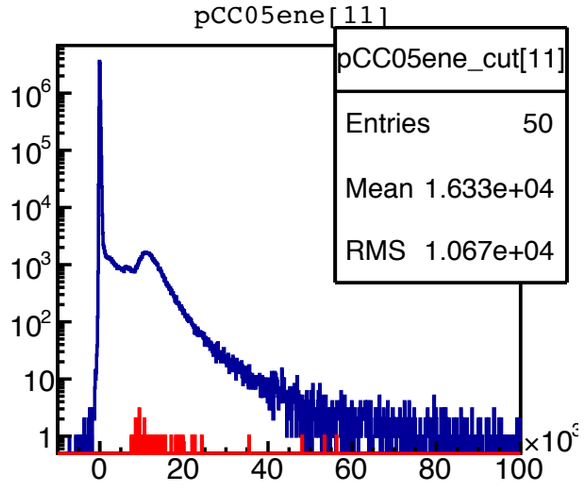








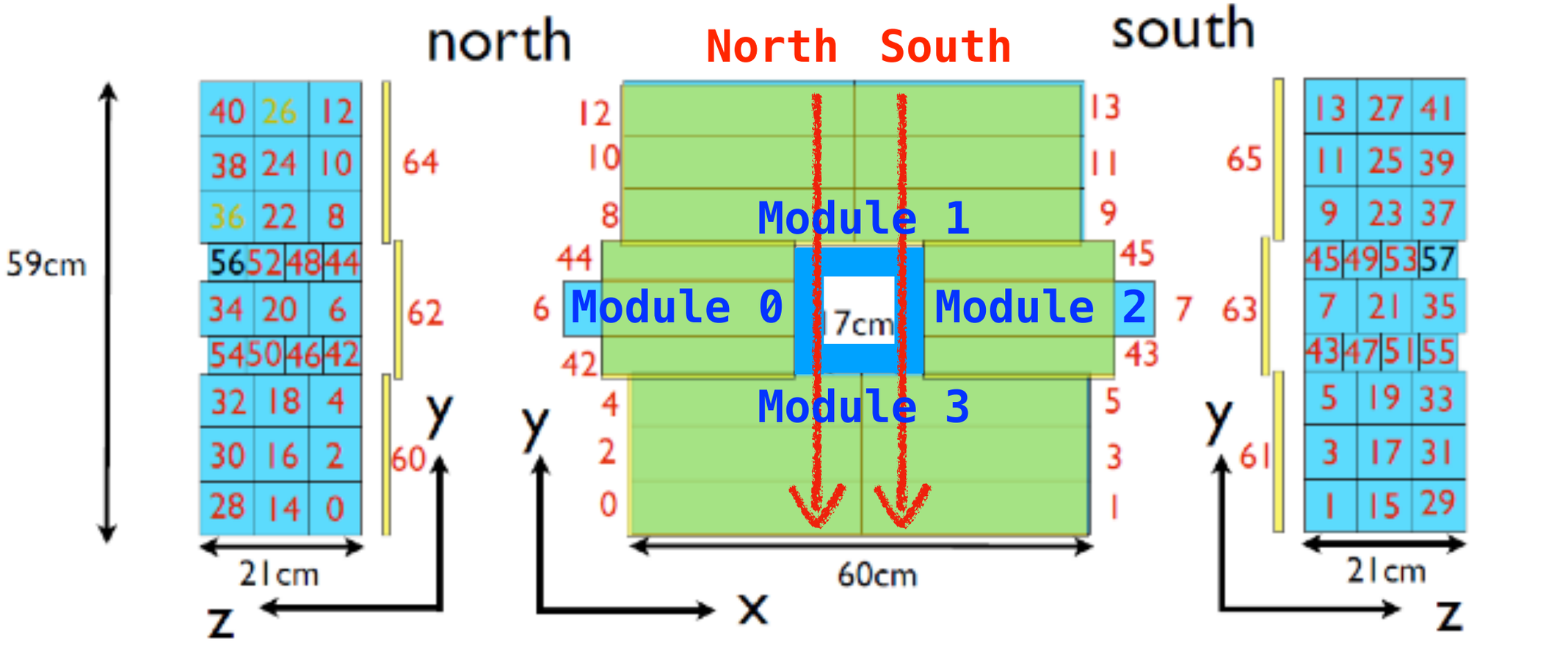




CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

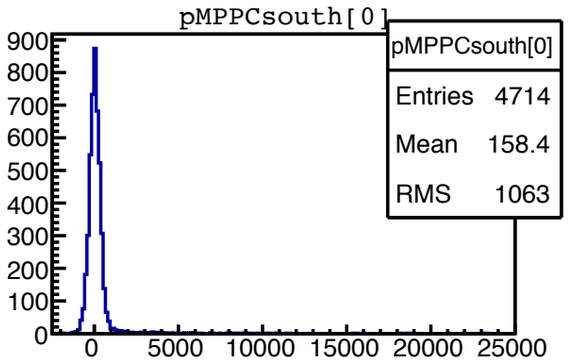
number=CC04ModID
(with amp channel)
(dead channel)

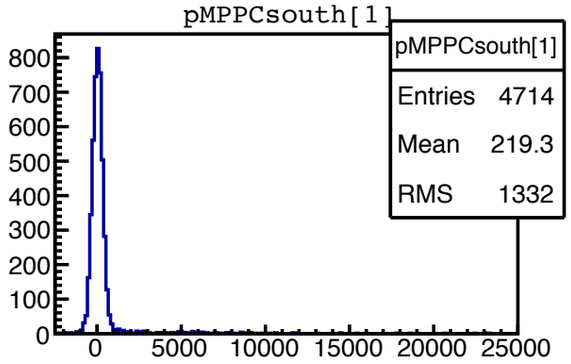


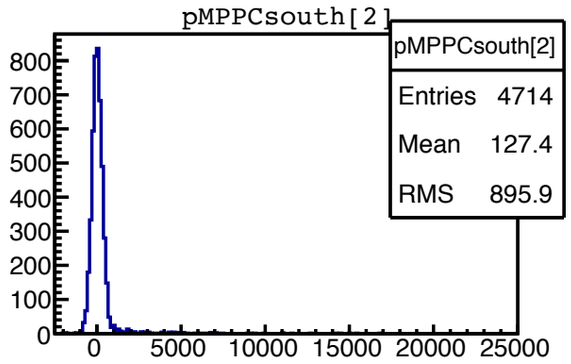
(view from north) (view from upstream) (view from south)

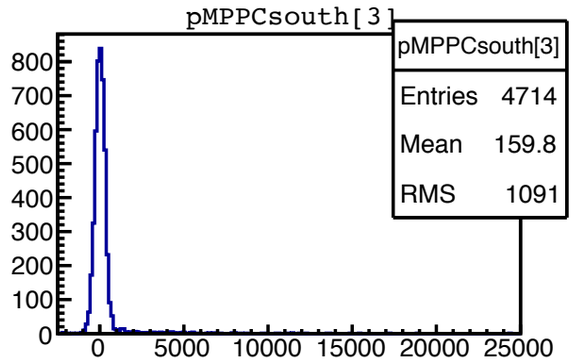
MPPC ADC Distribution by constant ther.

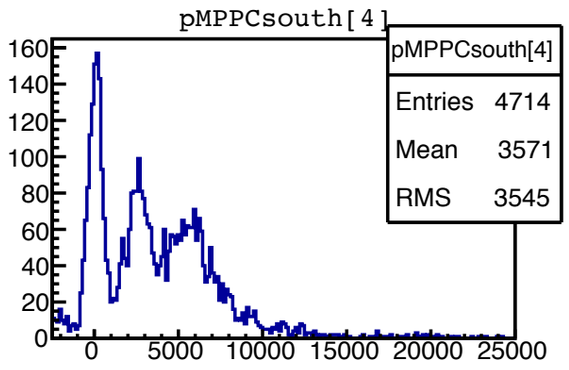
For South

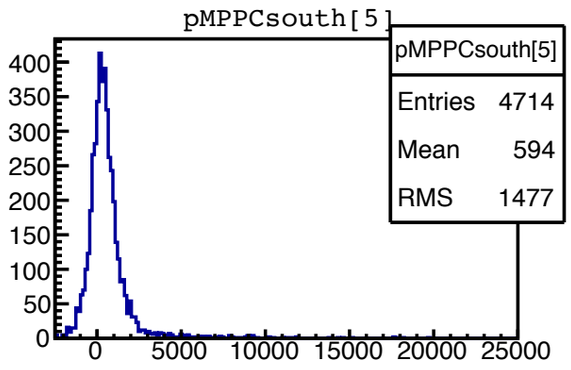


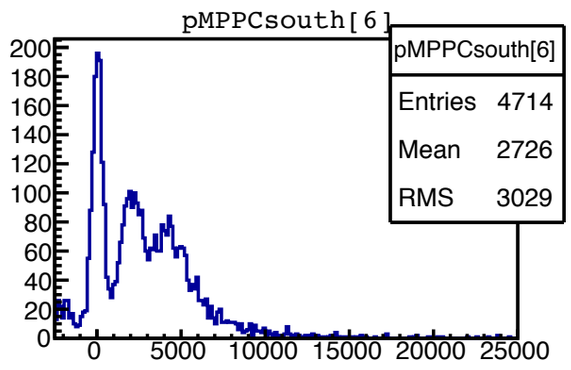


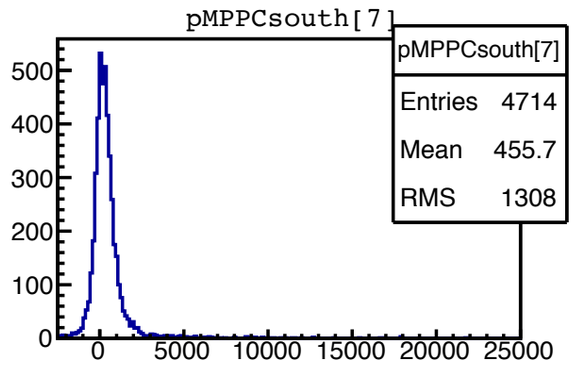


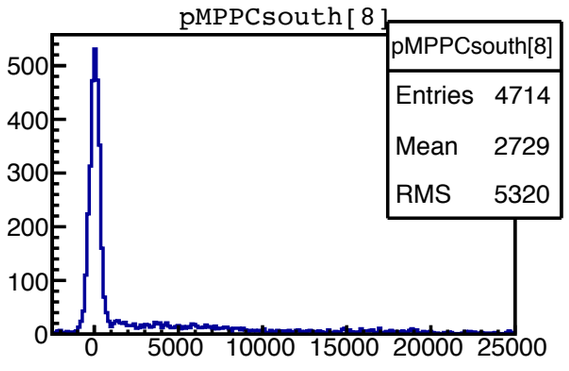


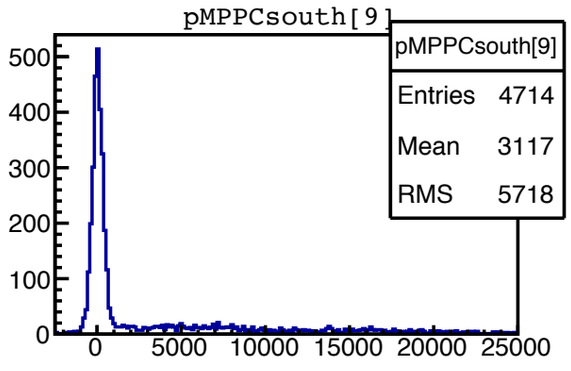


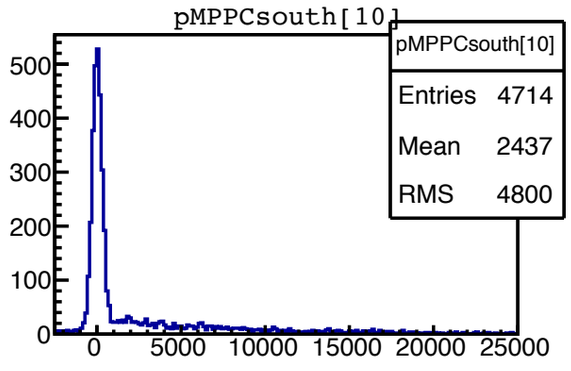


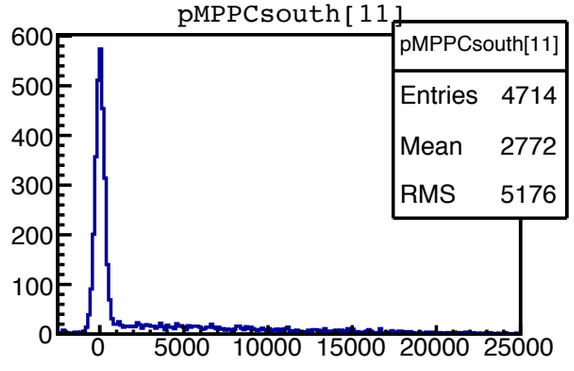


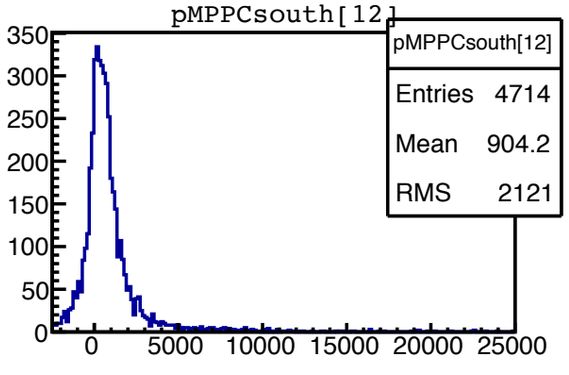


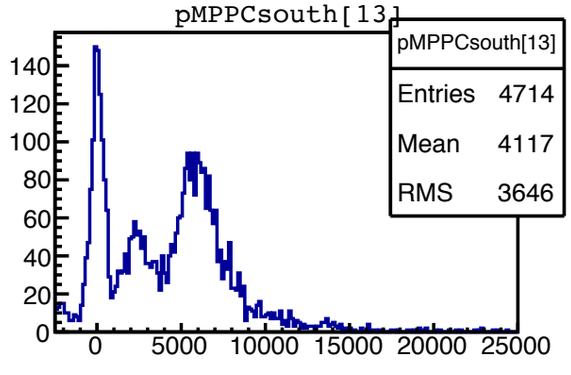


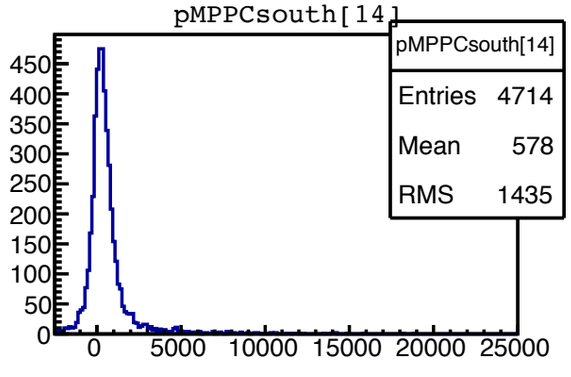


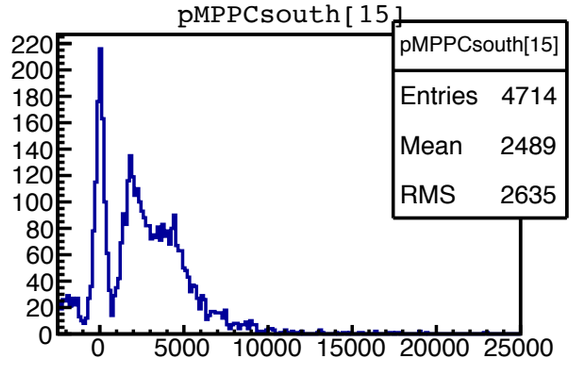






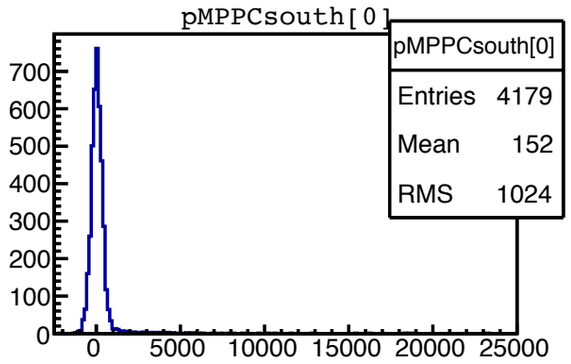


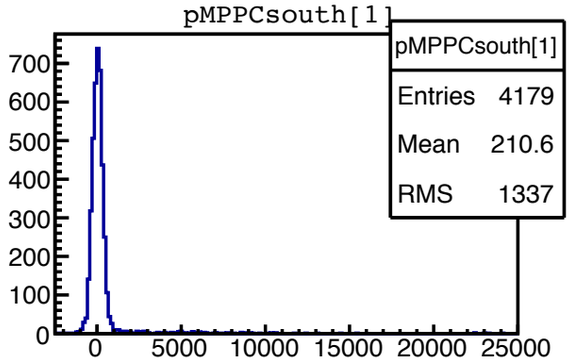


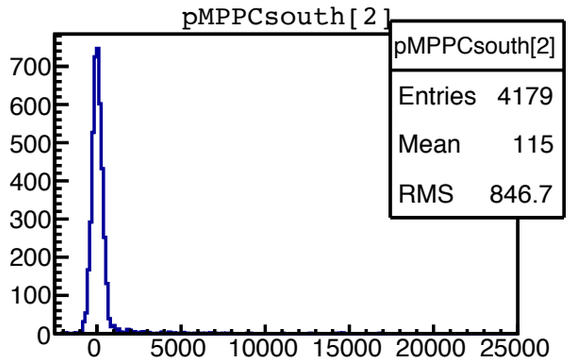


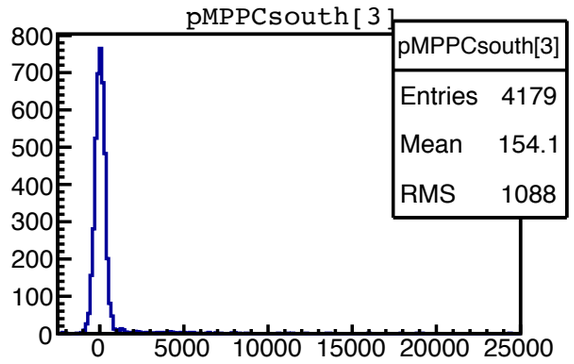
MPPC ADC Distribution by MPV * 0.7 of CC04

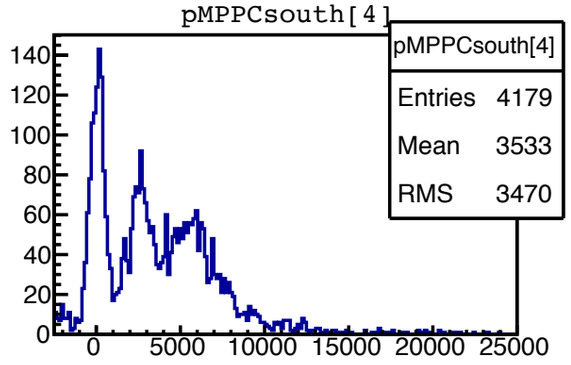
For South

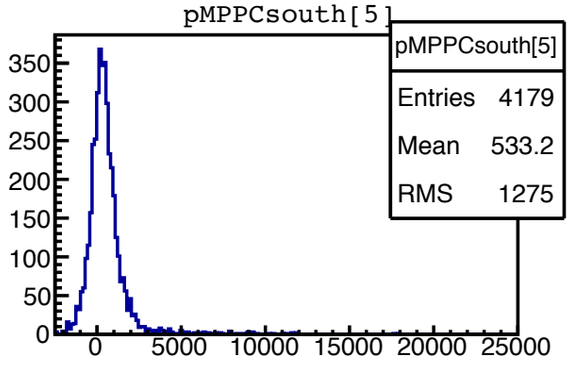


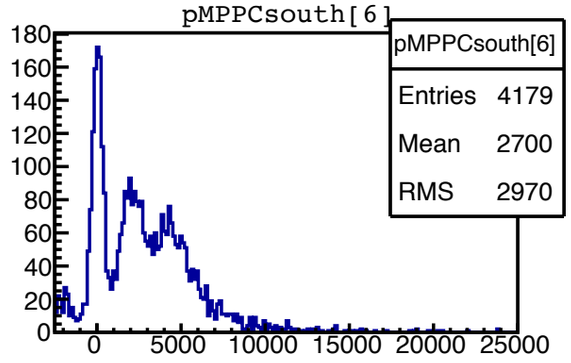


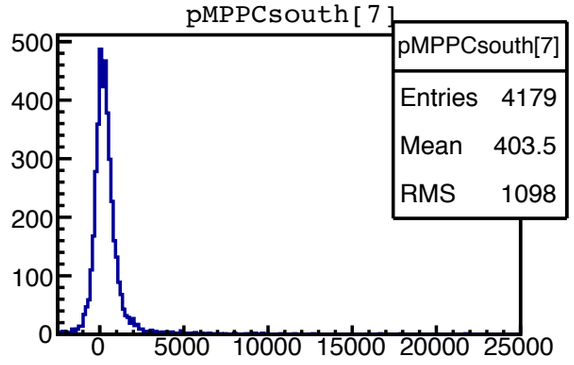


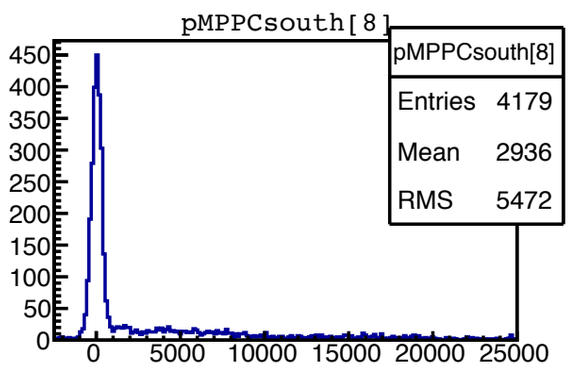


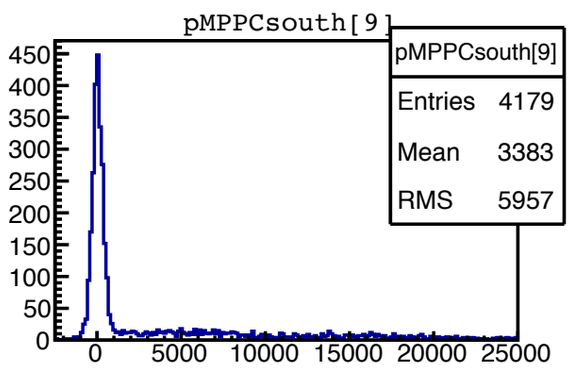


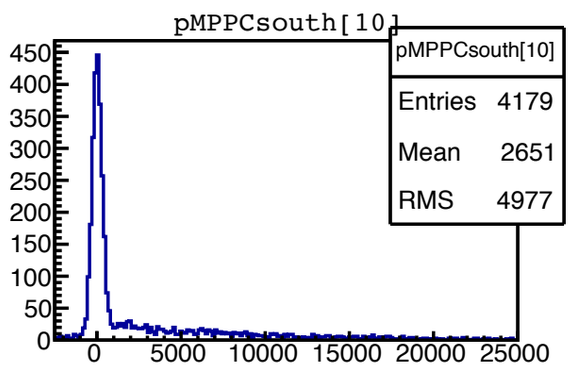


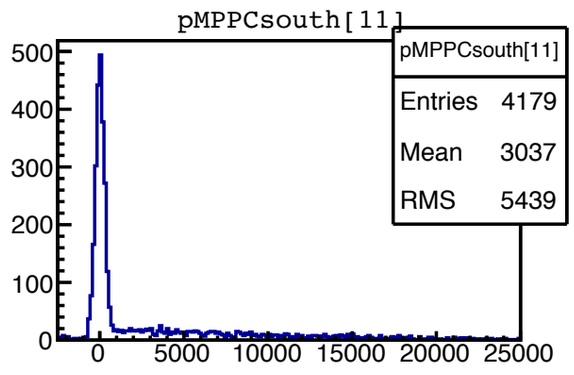


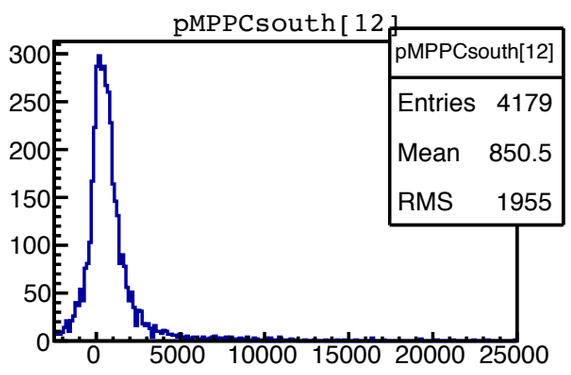


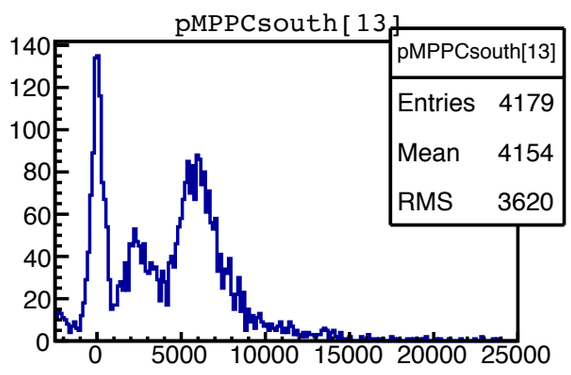


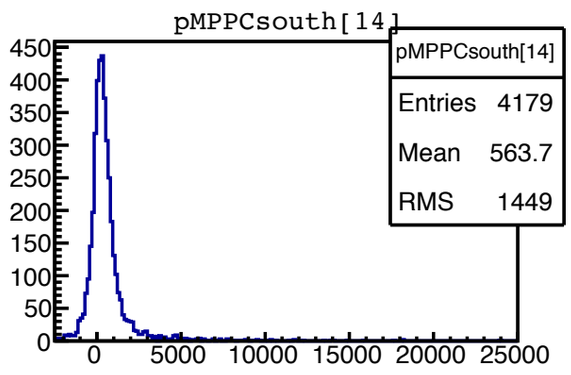


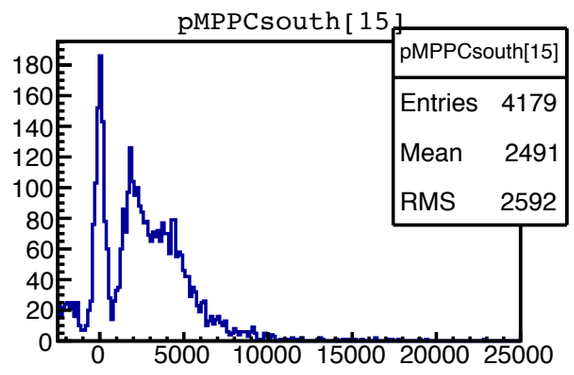








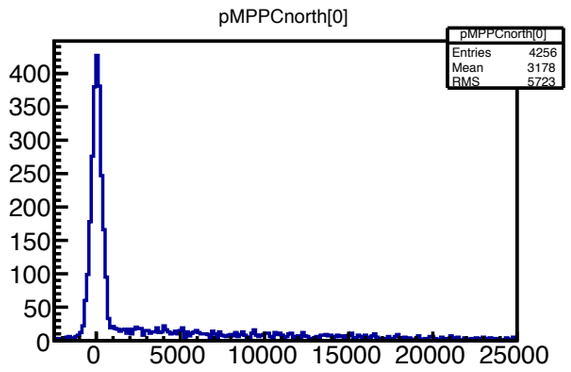


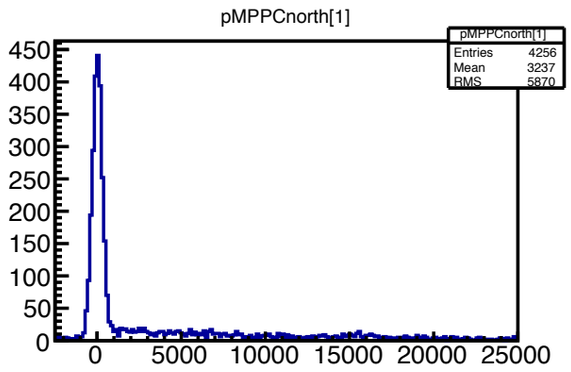


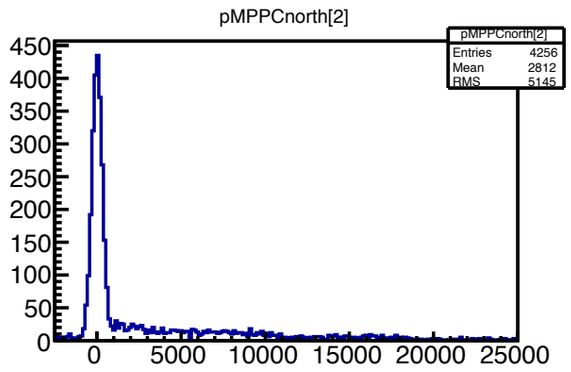
Each North and South?

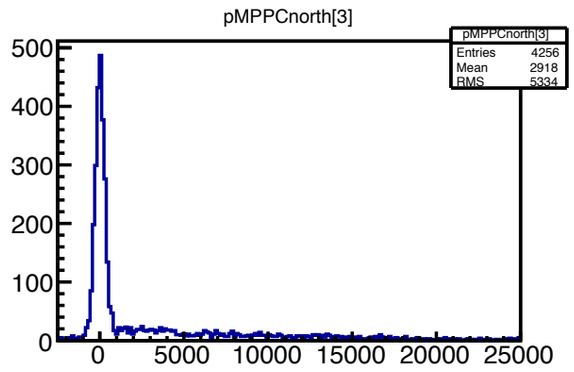
Or All?

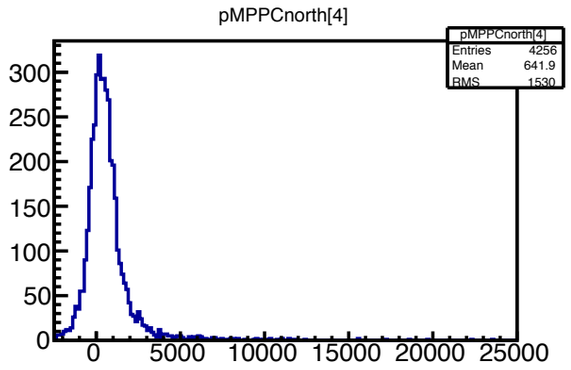
MPPC ADC Distribution for Only north trigger

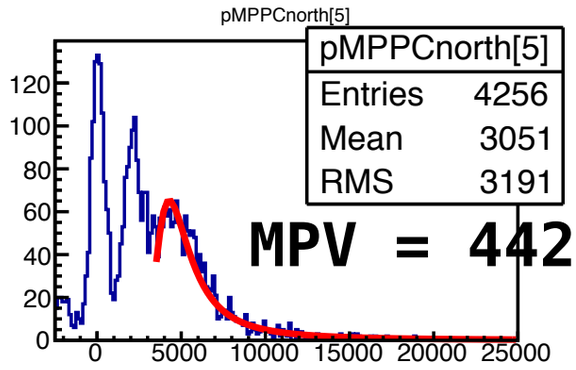


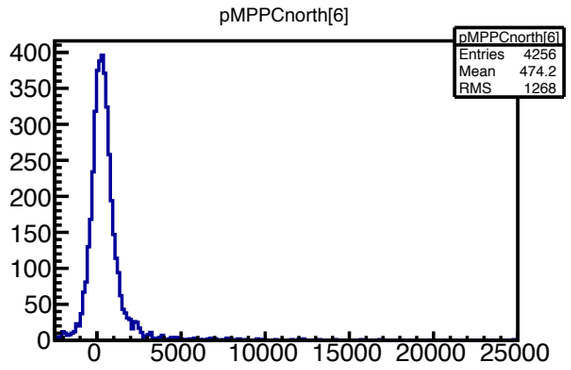


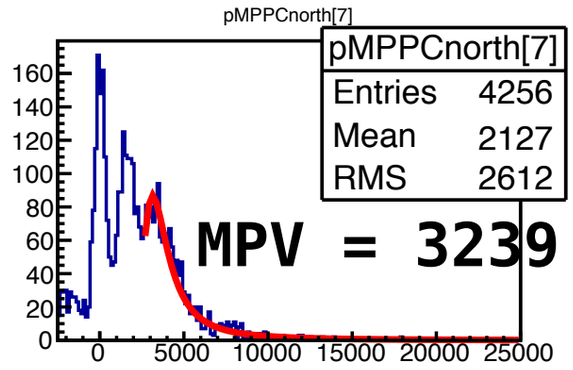


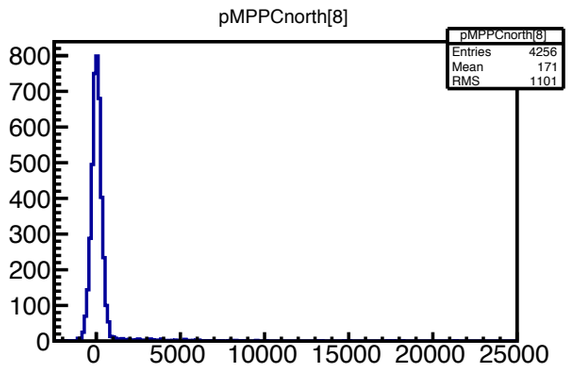


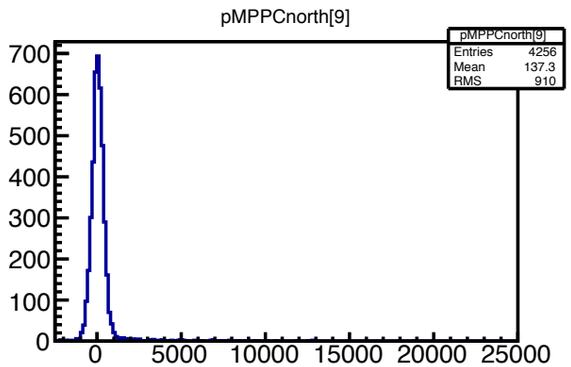


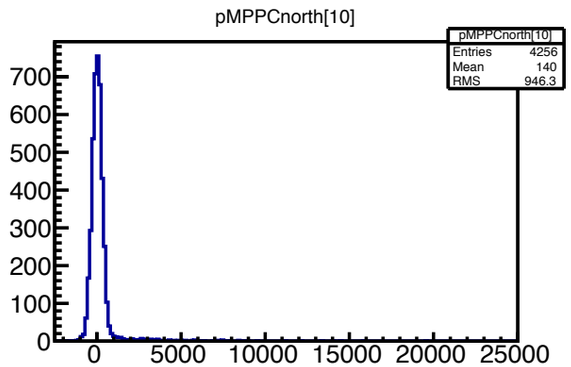


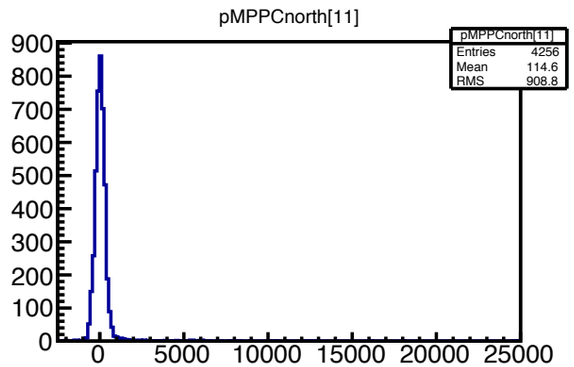


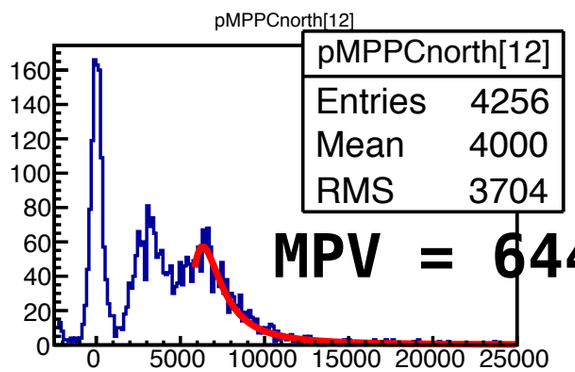


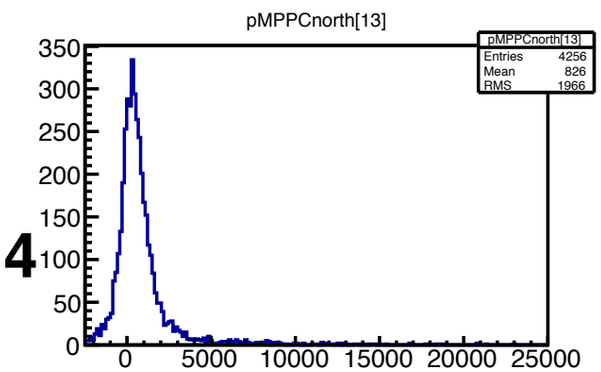


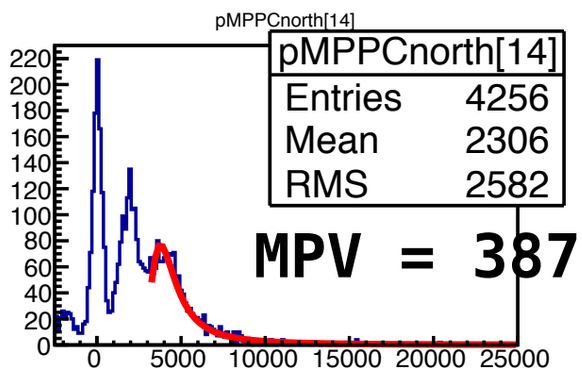


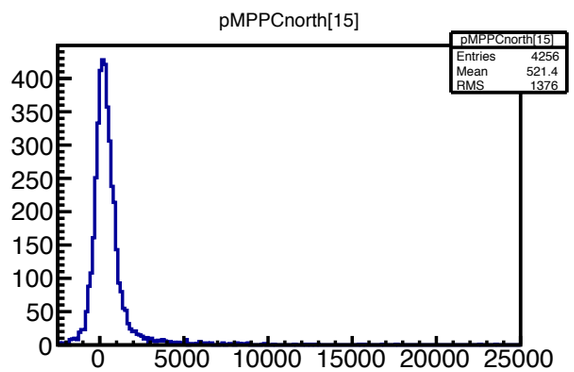




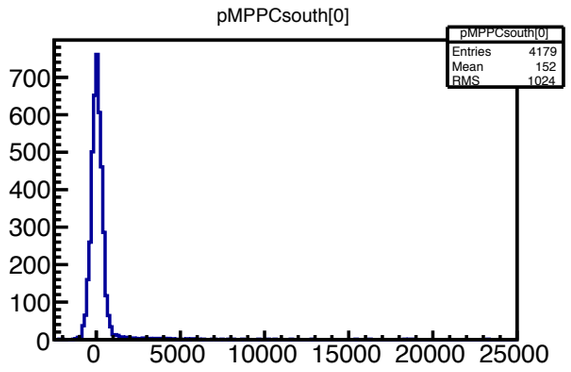


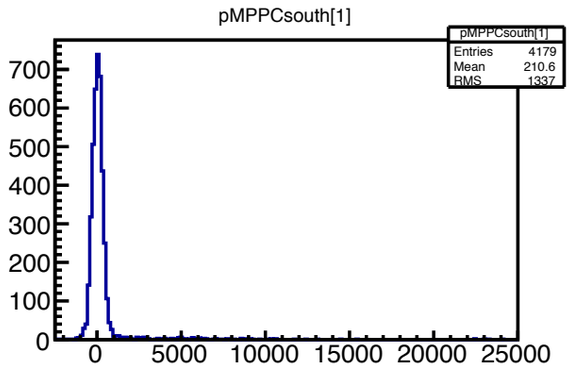


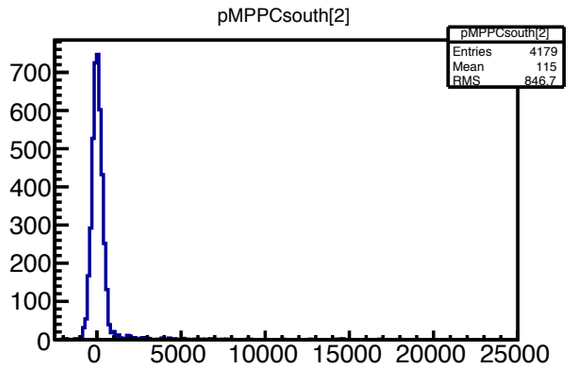


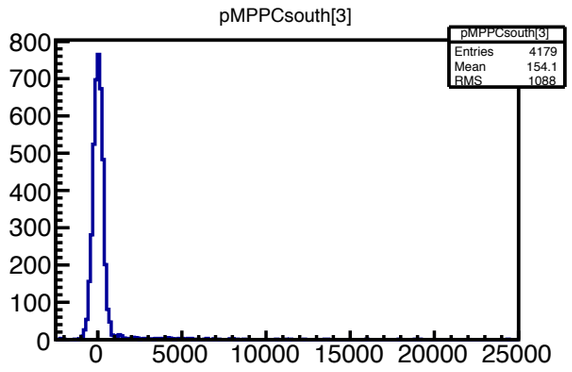


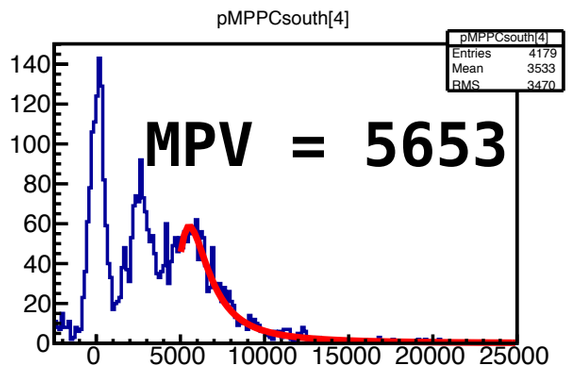
MPPC ADC Distribution for Only south trigger

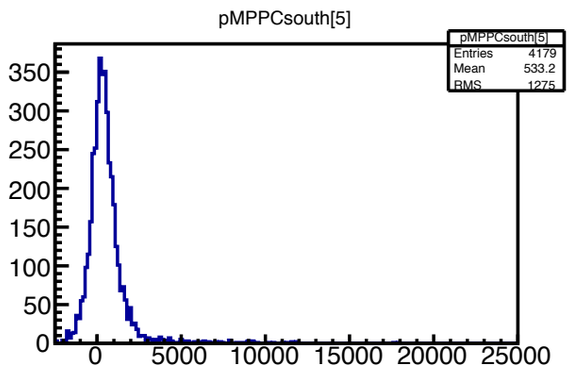


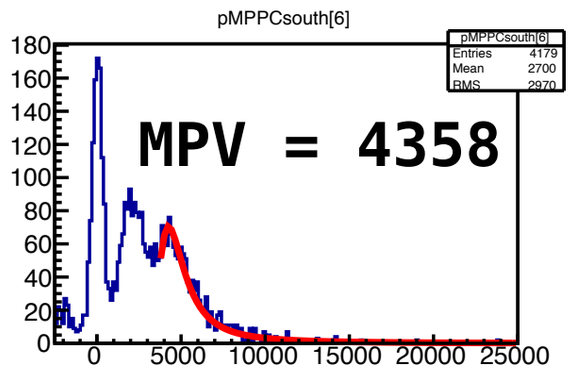


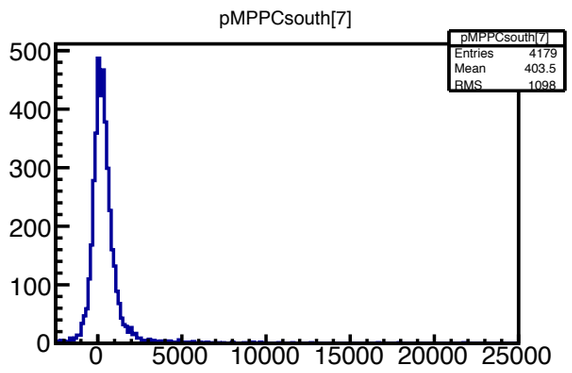


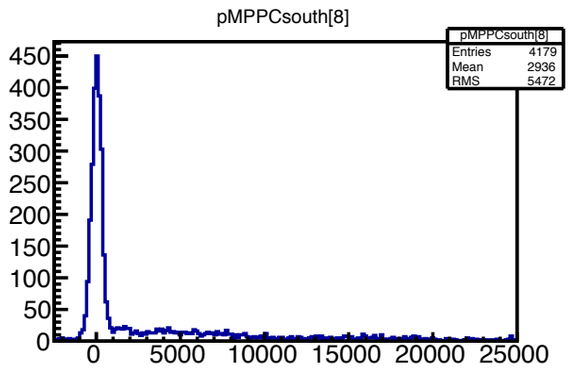


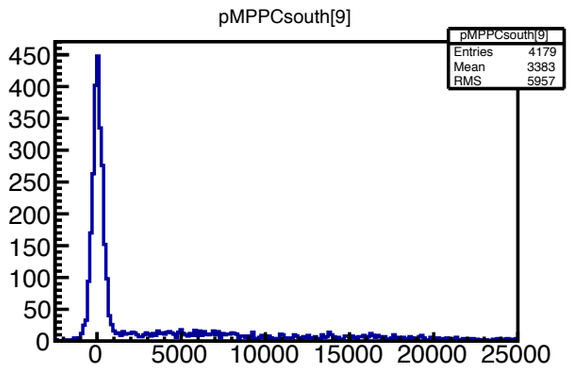


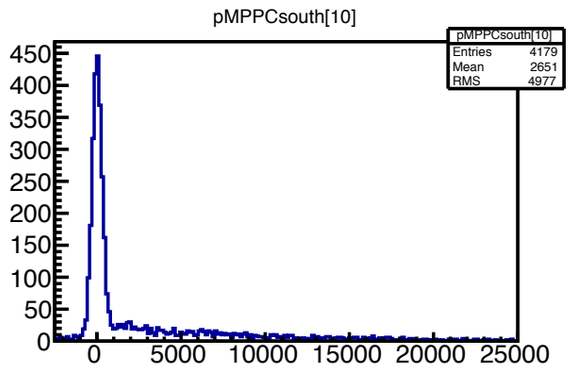


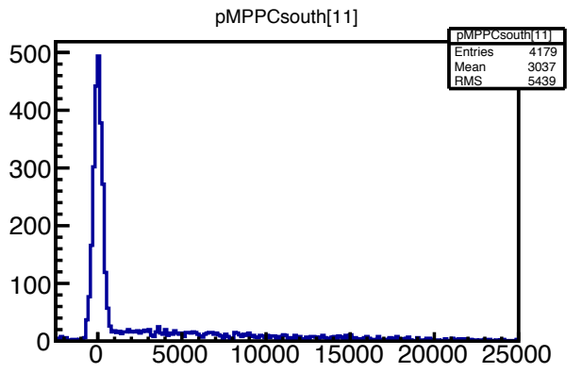


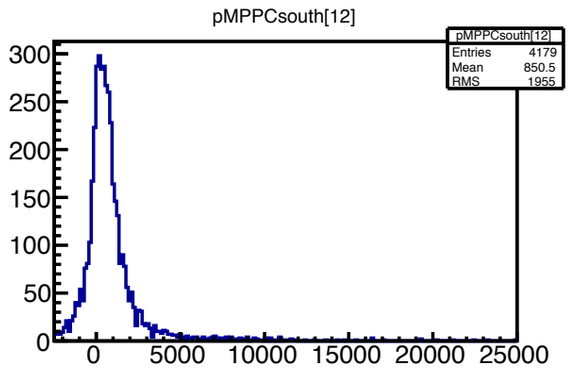


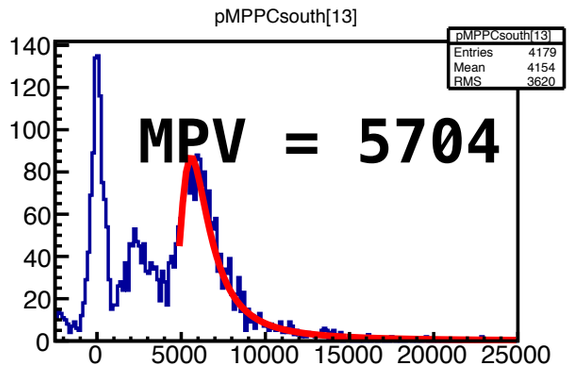


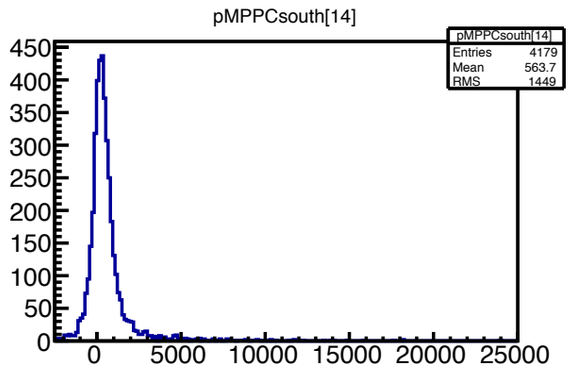


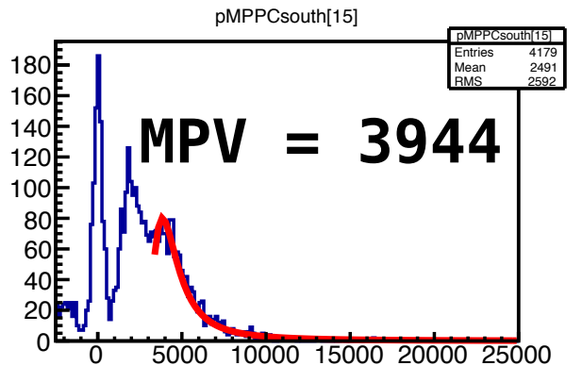




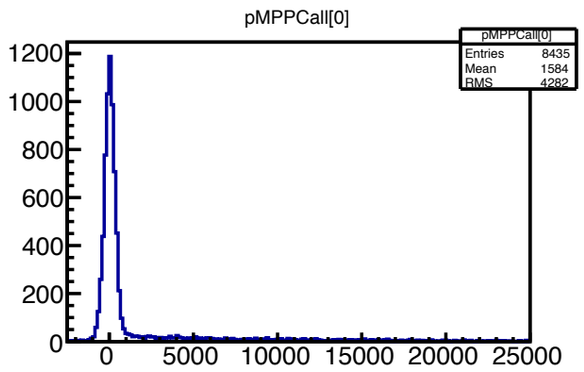


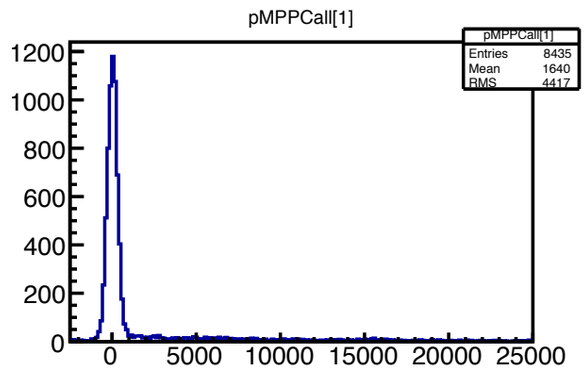


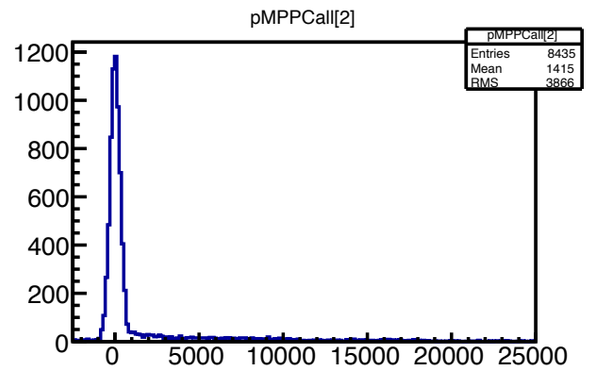


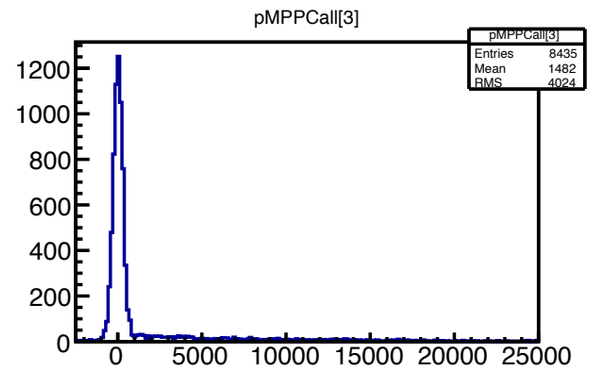


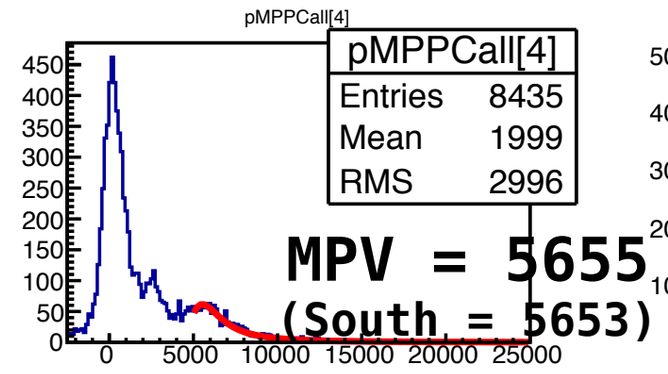
MPPC ADC Distribution for All trigger

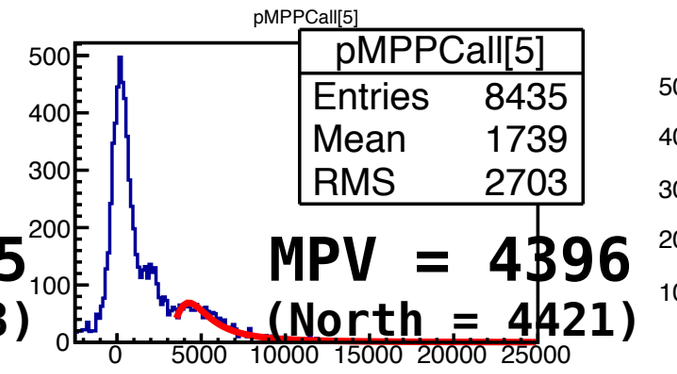


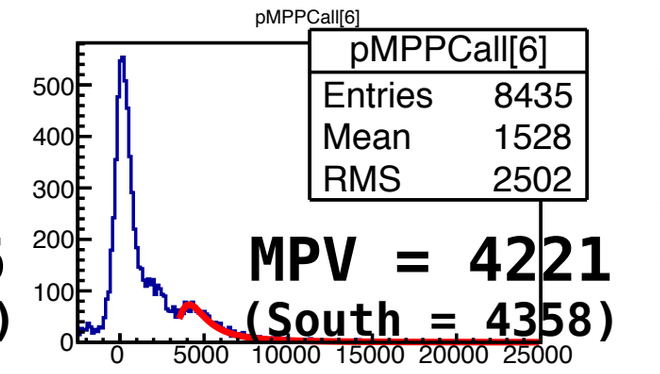


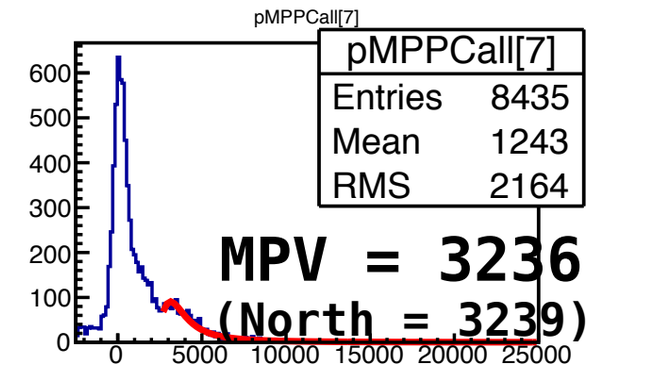


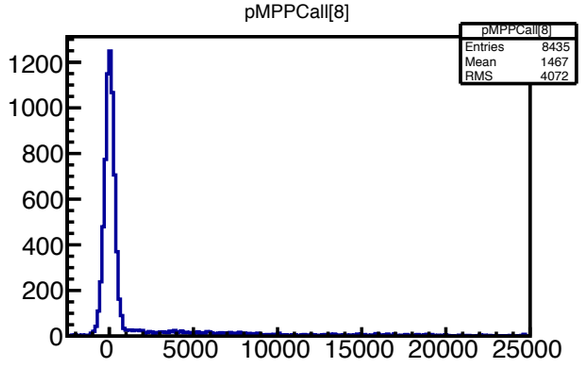


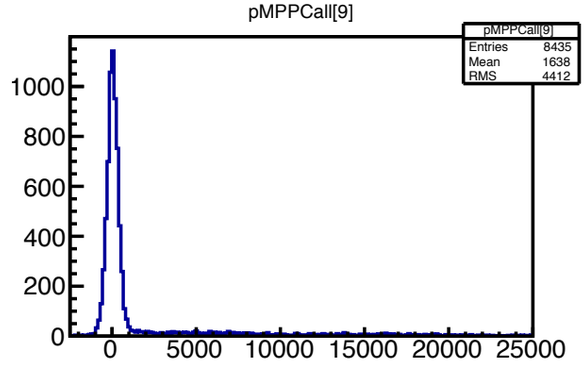


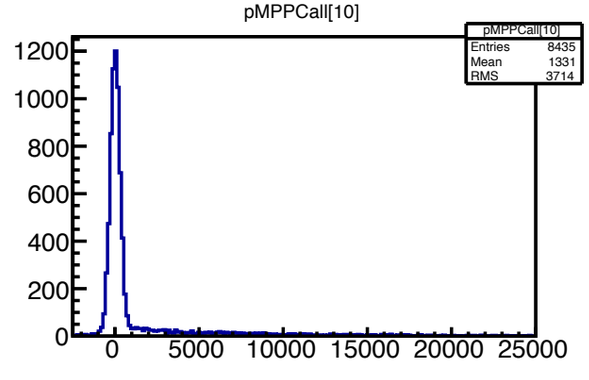


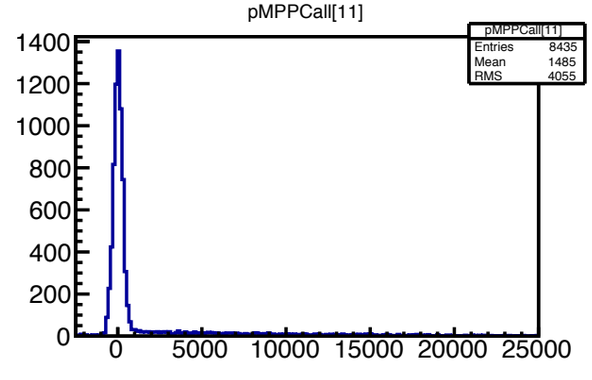


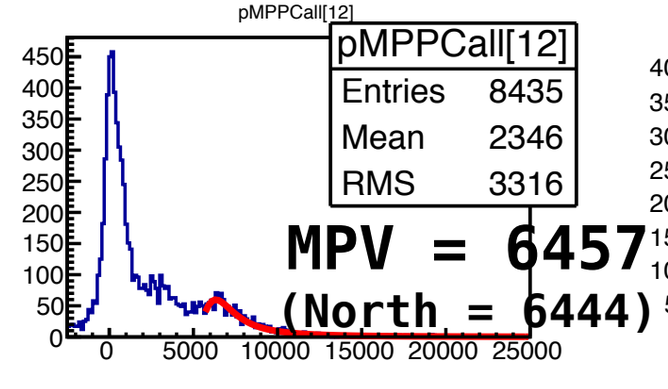


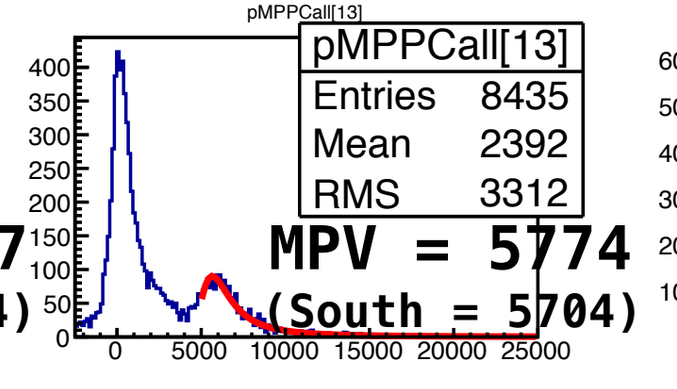


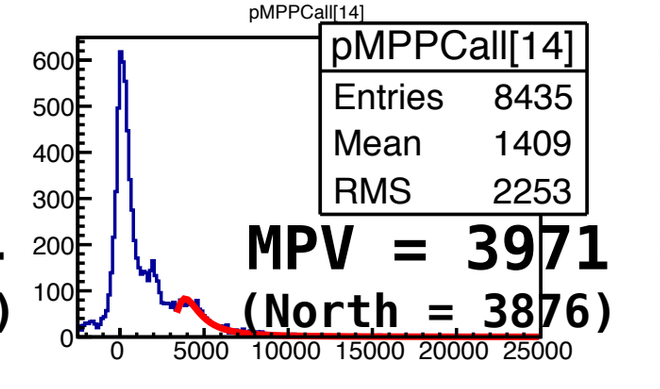


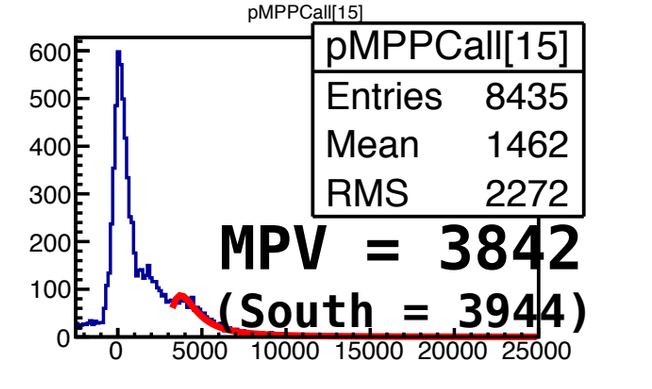








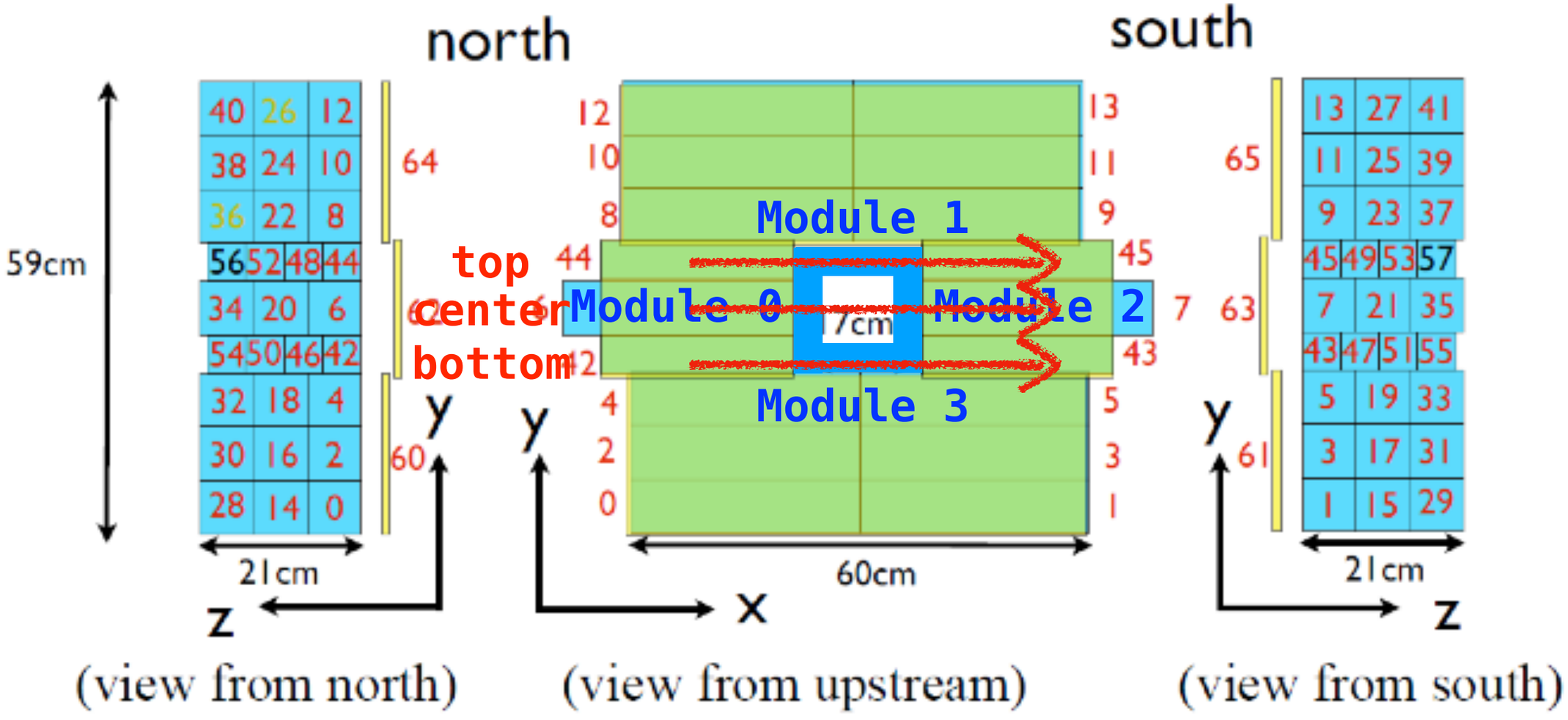




CC04

- 42 CsI crystals of 70×70×300mm,
  16 CsI crystals of 50×50×250mm,
  4 scintillator of thickness 10mm

number=CC04ModID
(with amp channel)
(dead channel)



(view from north) (view from upstream) (view from south)