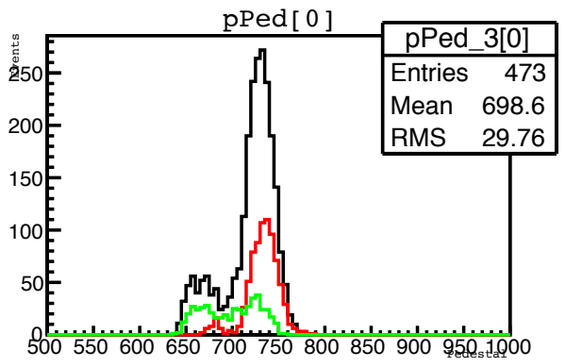
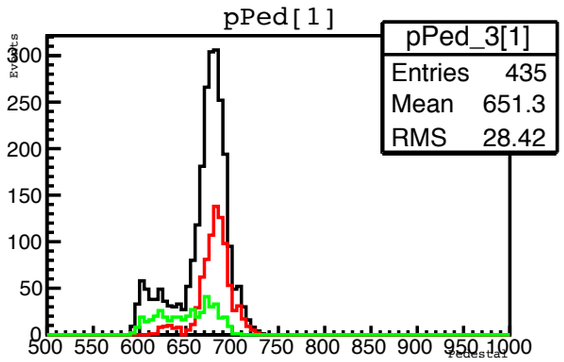
Daily report

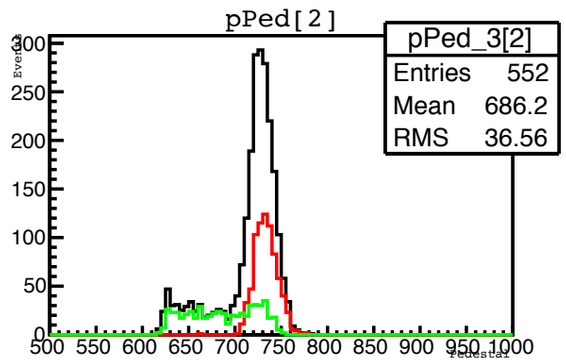
16 April, 2019

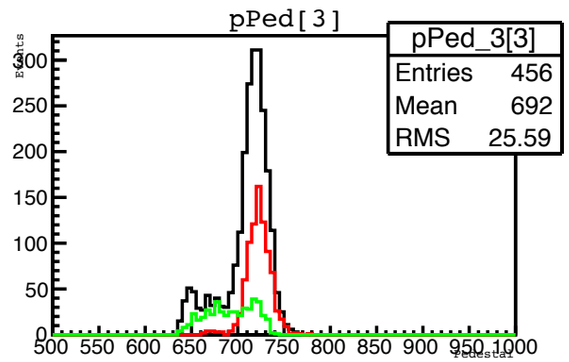
dcv1_mod13

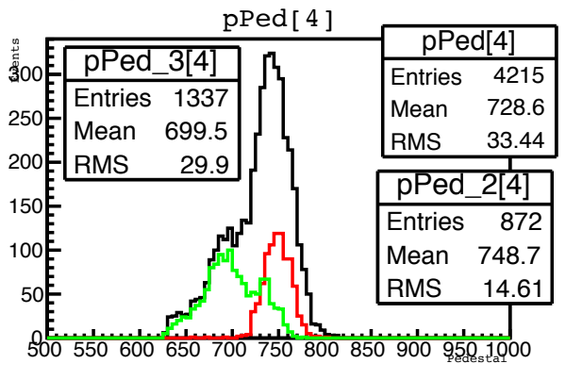
pPed_2 : ratio ~ 8.38 pPed_3 : ratio ~ 16.01

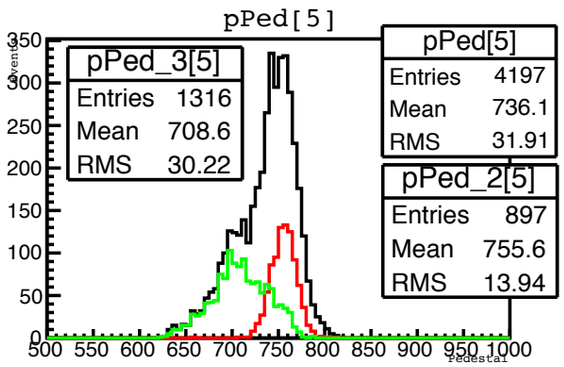


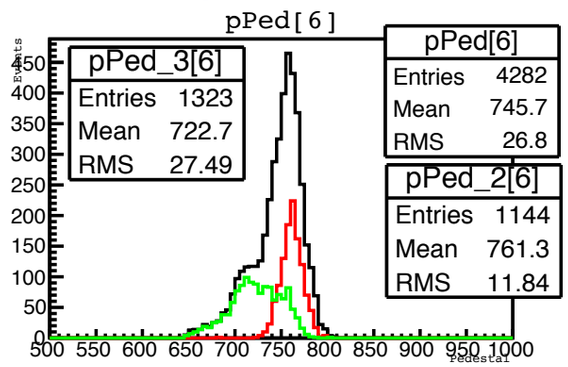


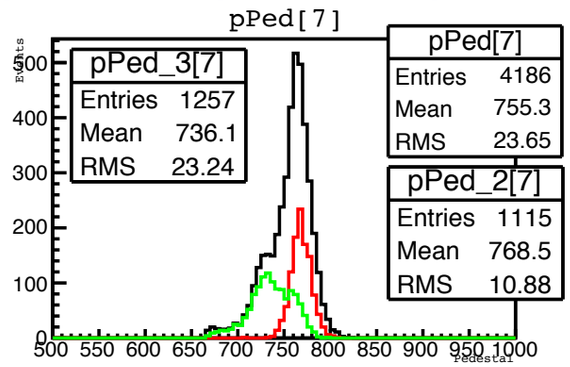


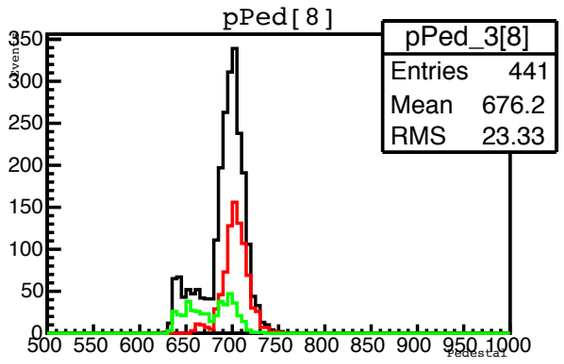


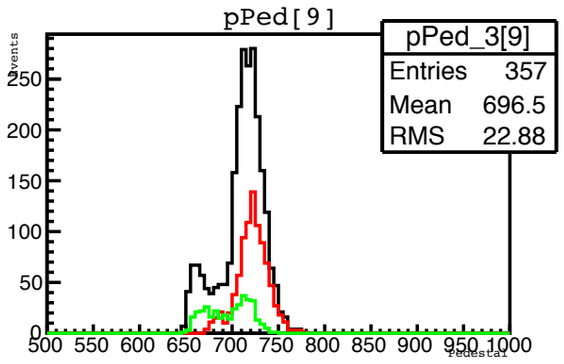


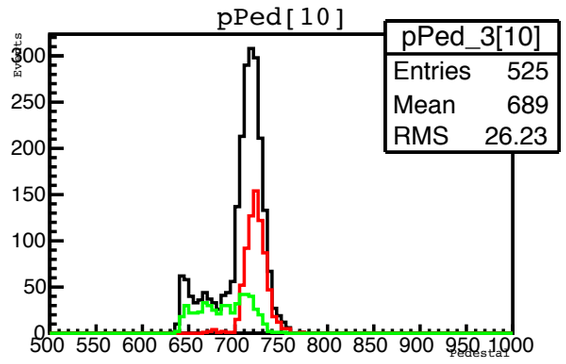


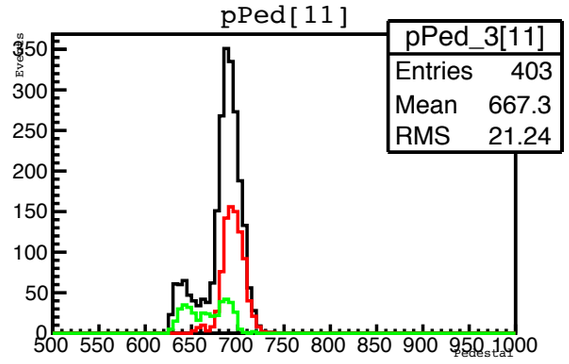


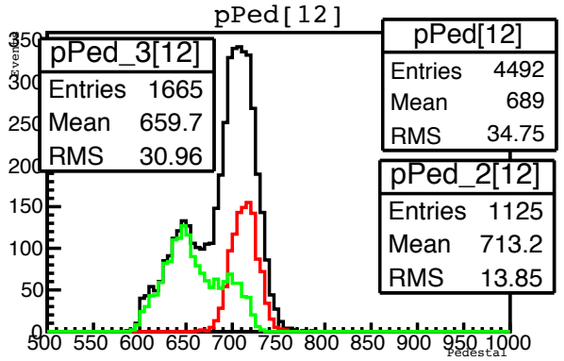


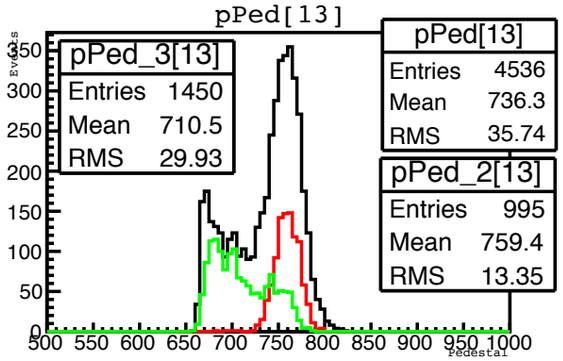


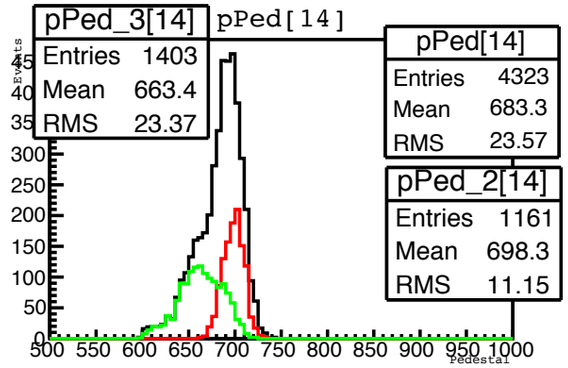


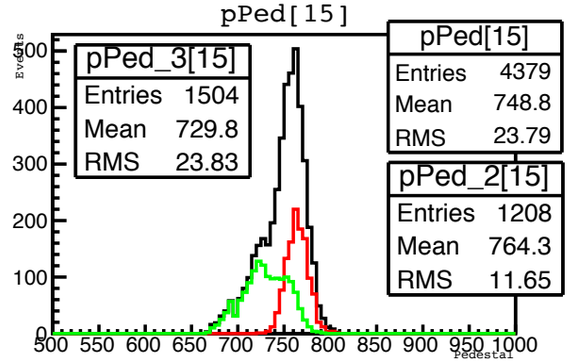






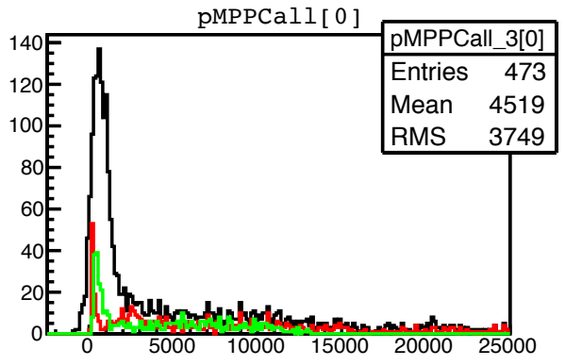


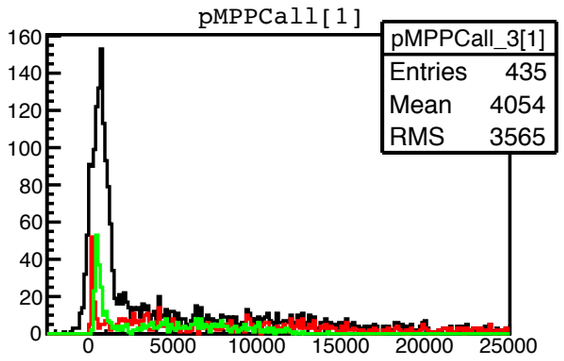


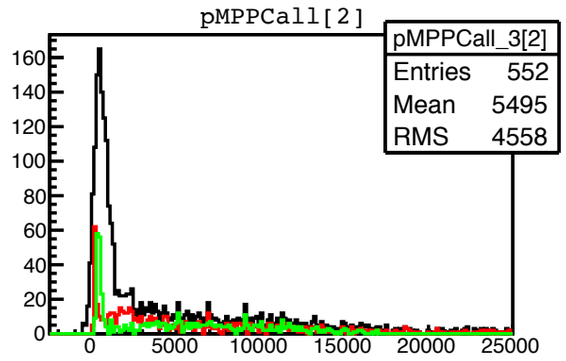


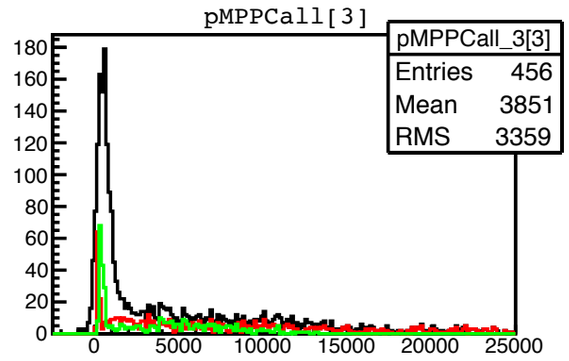
dcv1_mod13

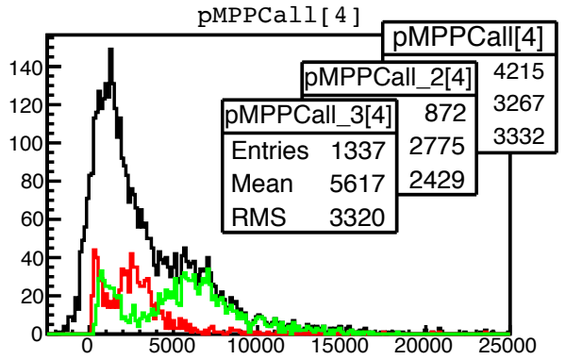
pMPPCall_2 : ratio ~ 8.38 pMPPCall_3 : ratio ~ 16.01

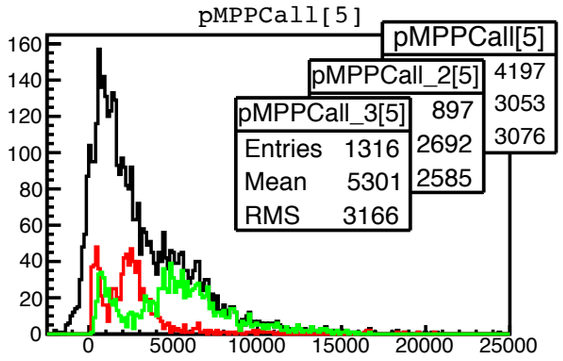


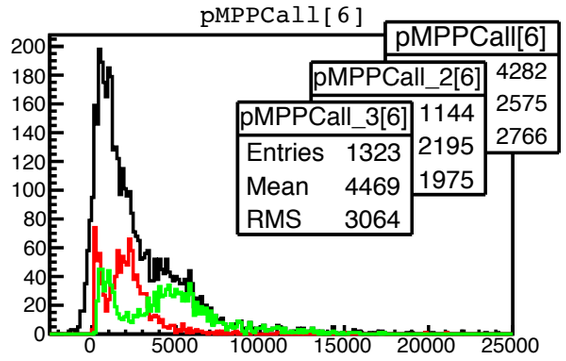


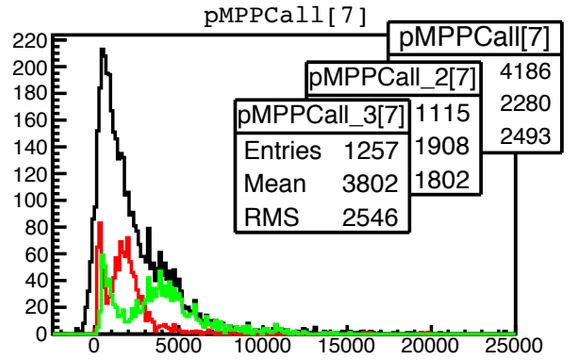


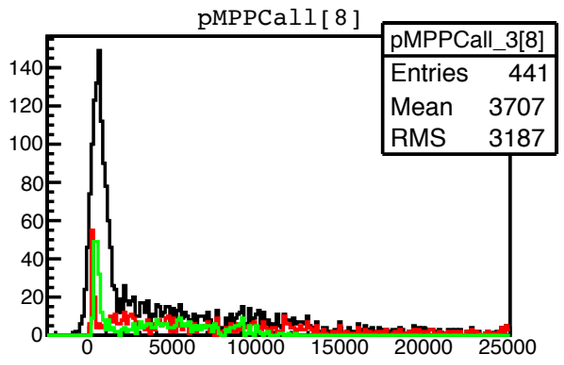


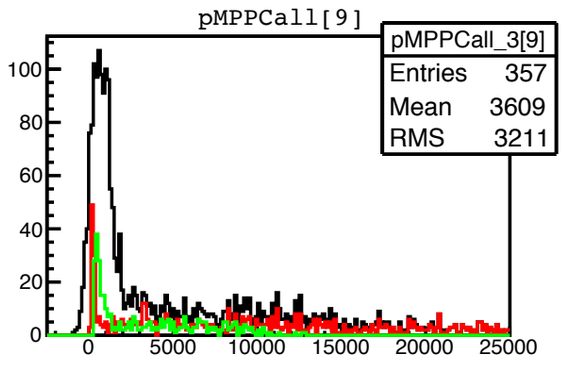


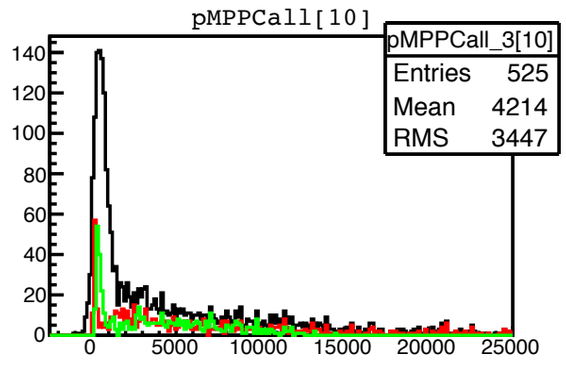


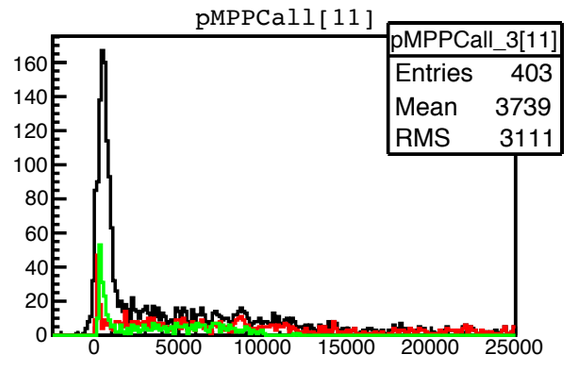


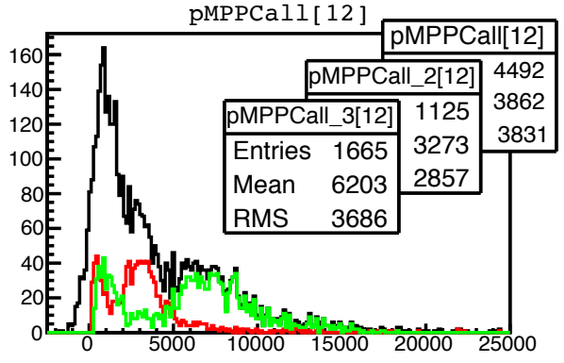


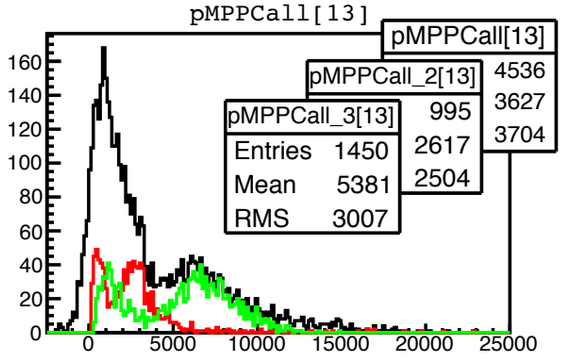


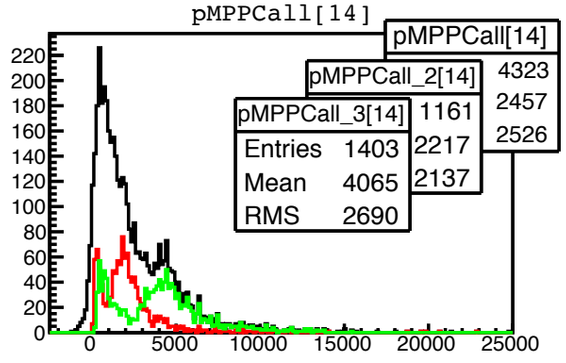


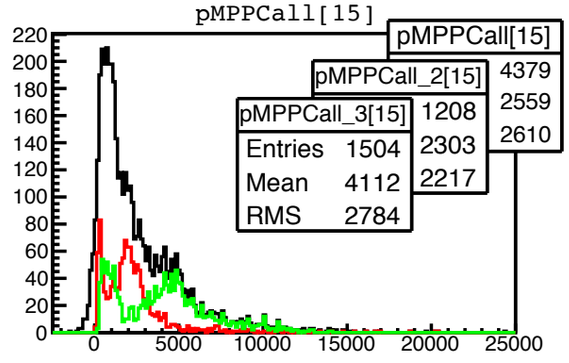








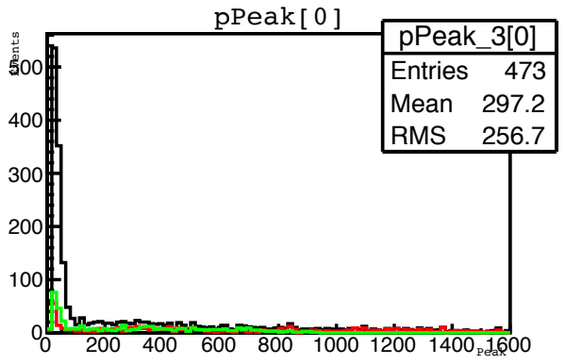


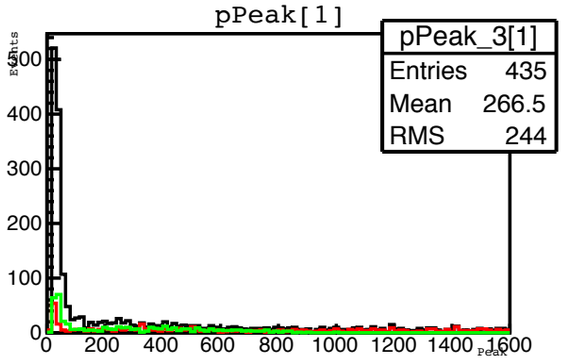


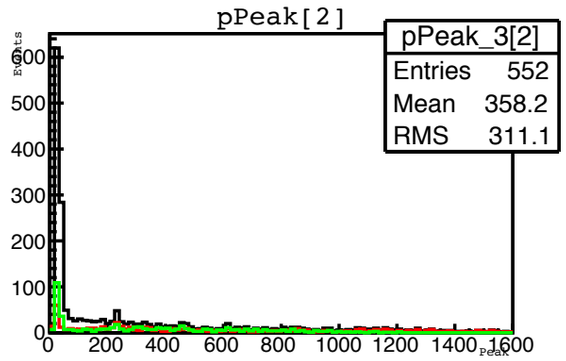
dcv1_mod13

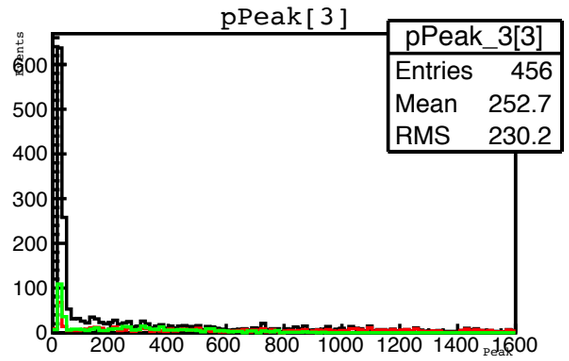
pPeak_2 : ratio ~ 8.38

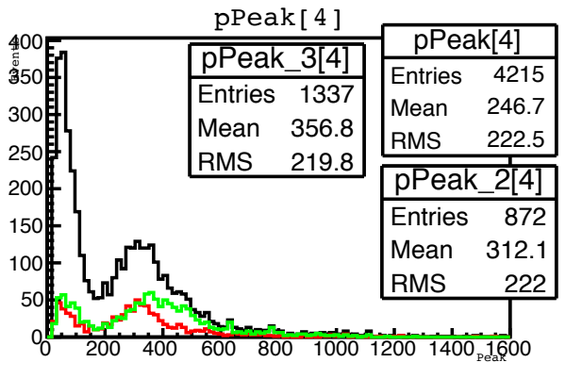
pPeak_3 : ratio ~ 16.01

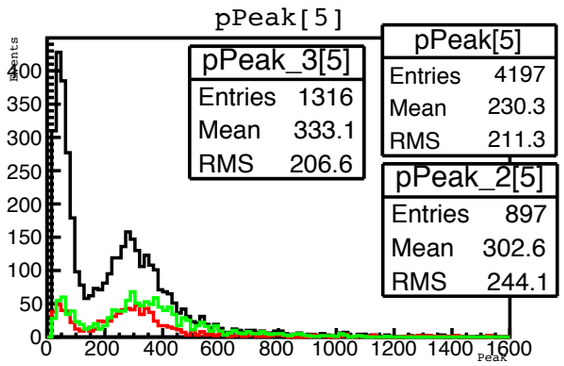


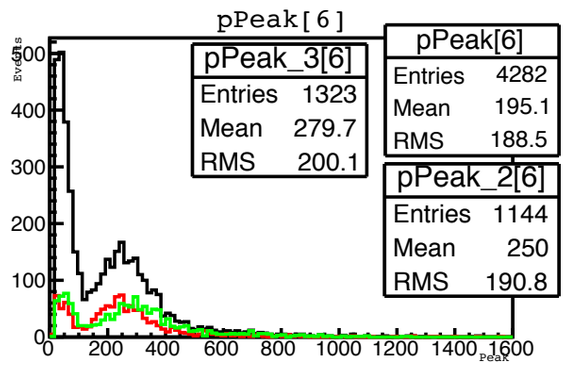


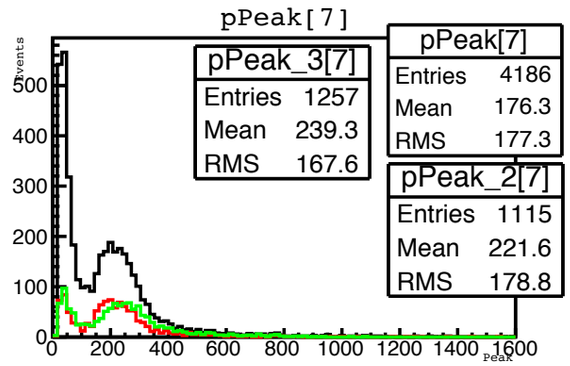


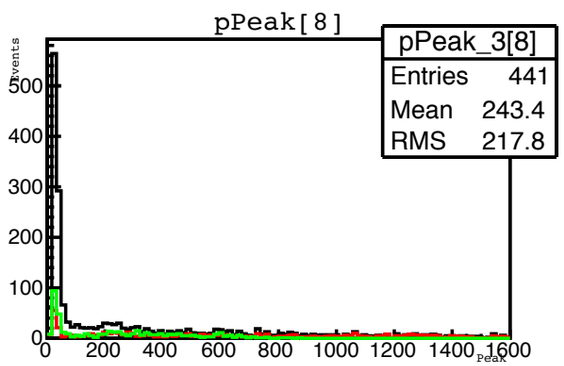


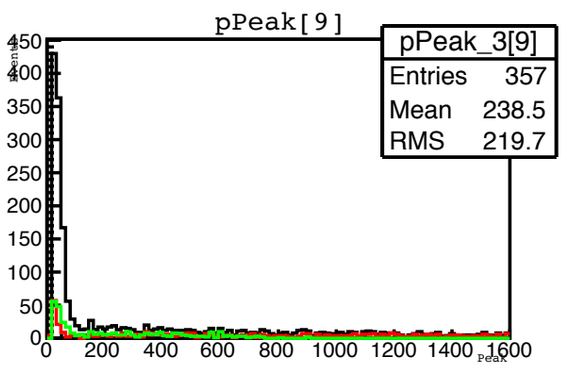


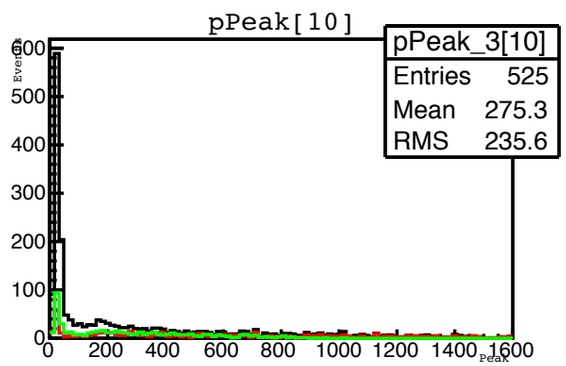


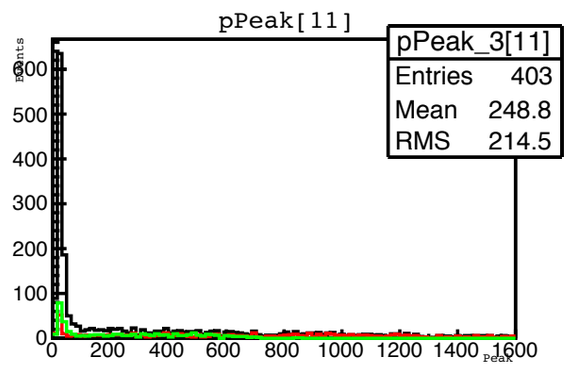


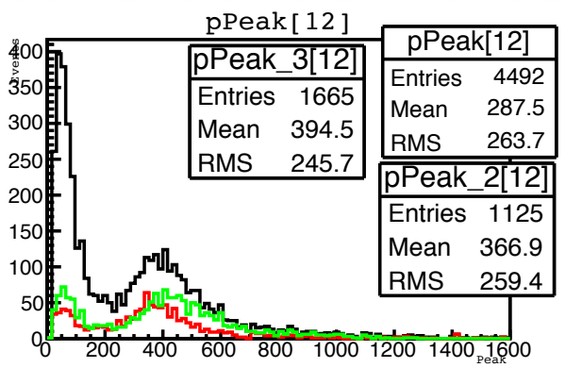


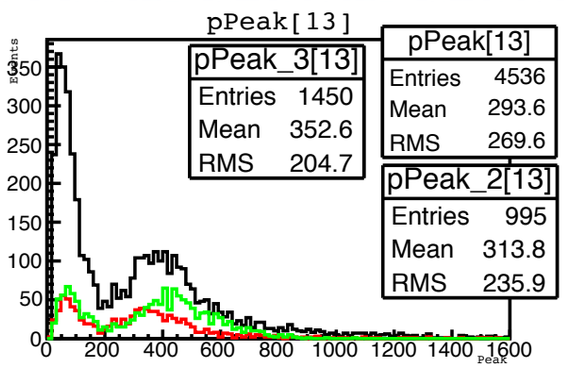


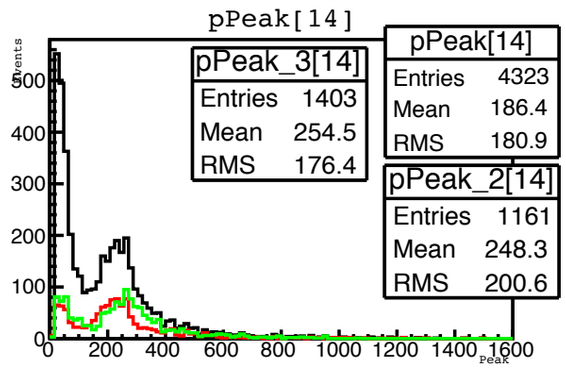


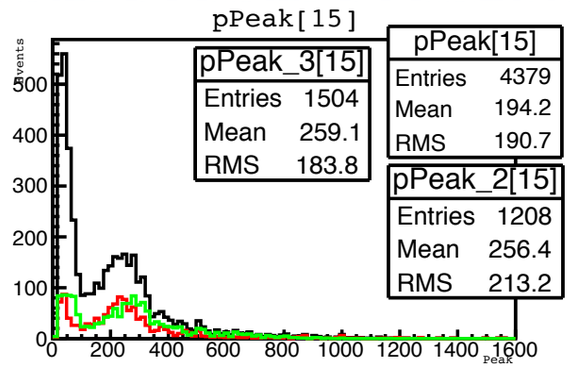




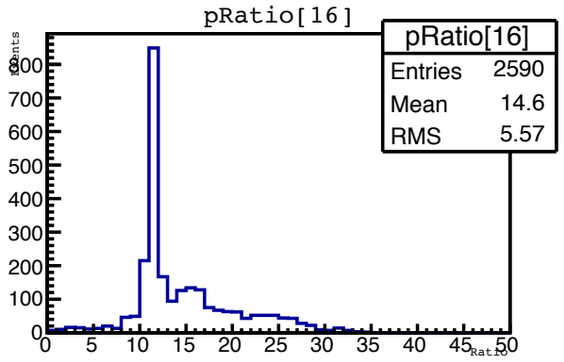








dcv2_mod13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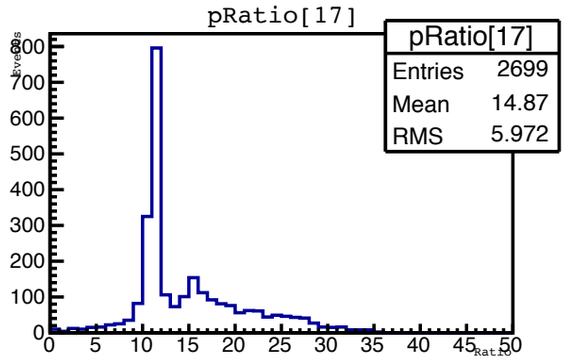
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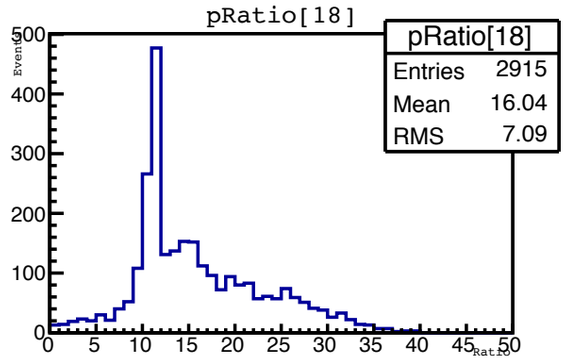
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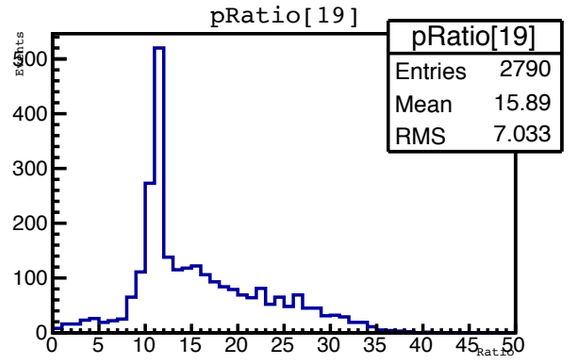
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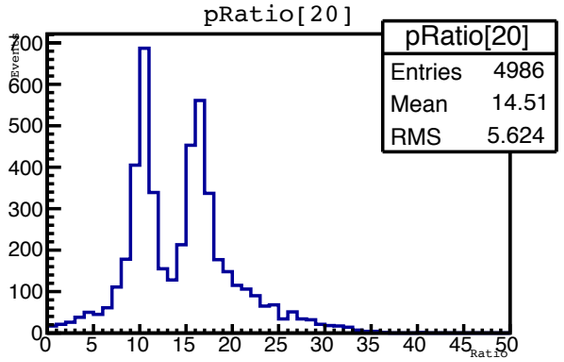
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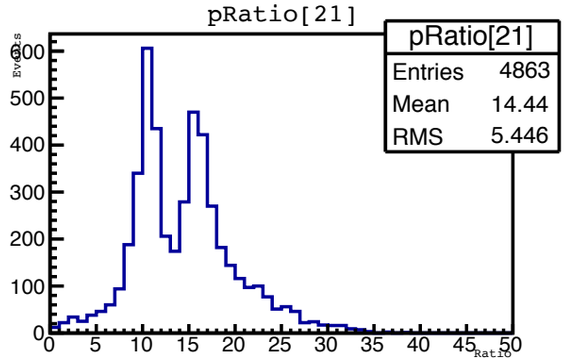
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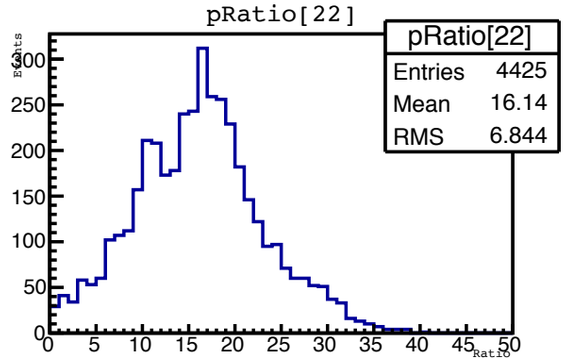
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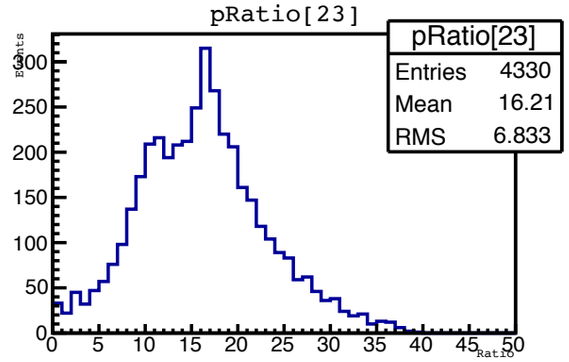
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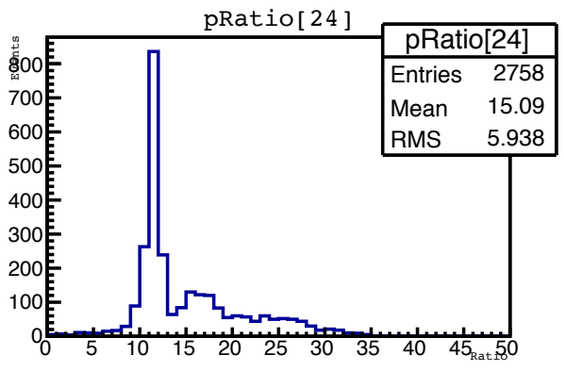
Ratio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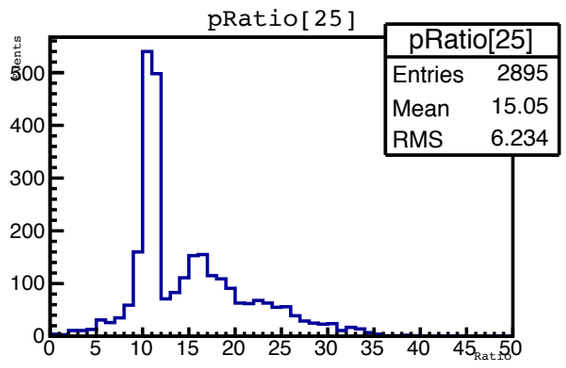
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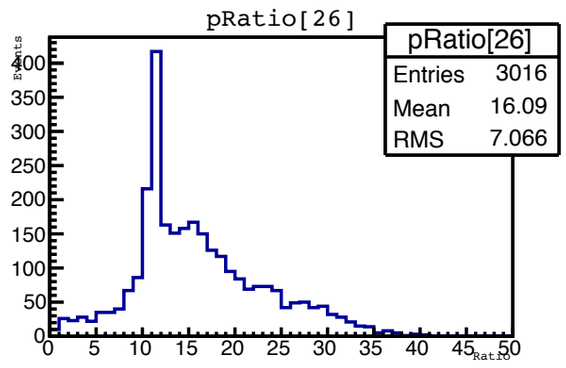
Events
Ratio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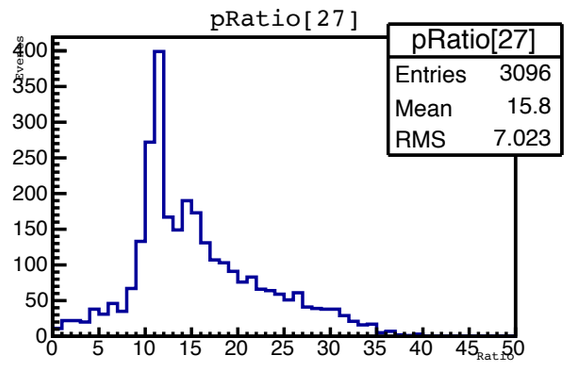
Mean 16.09
RMS 7.066
Events
Ratio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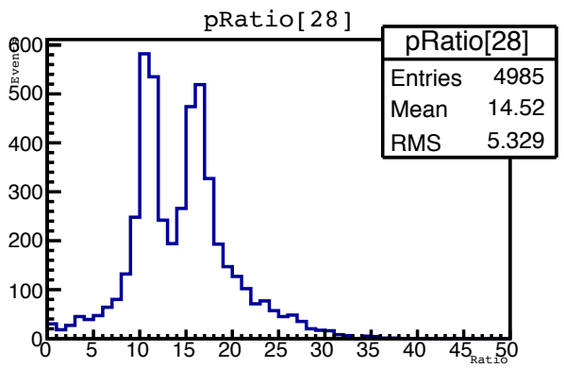
pRatio[27]
Entries 3096
Mean 15.8
RMS 7.023
Events
Ratio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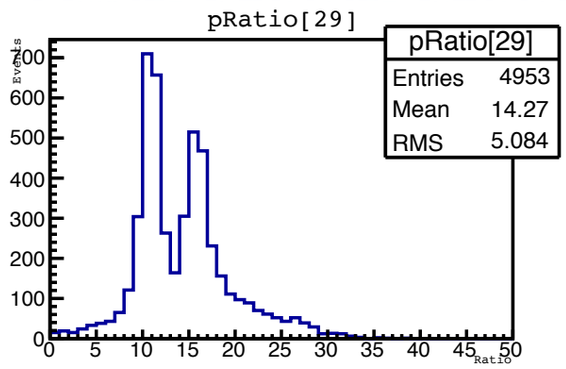
RMS 5.329
Events
Ratio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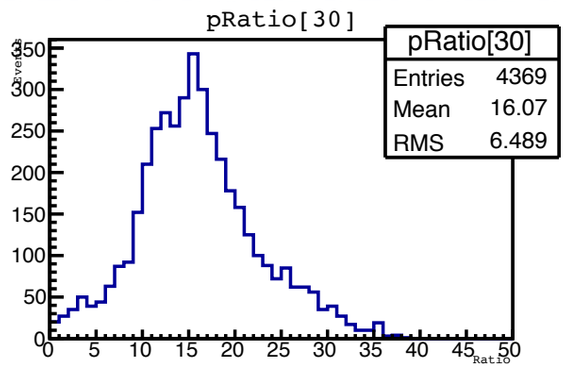
pRatio[29]
Entries 4953
Mean 14.27
RMS 5.084
Events
Ratio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pRatio[30]
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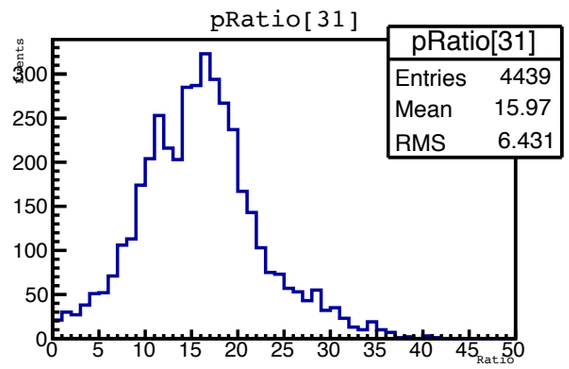
Mean 16.07
RMS 6.489
Events
Ratio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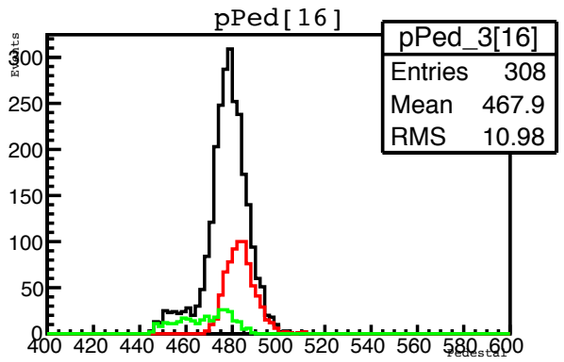
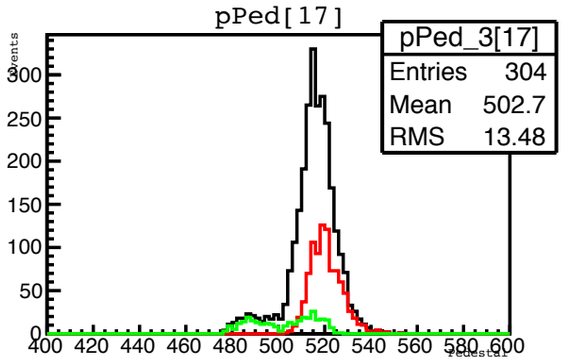
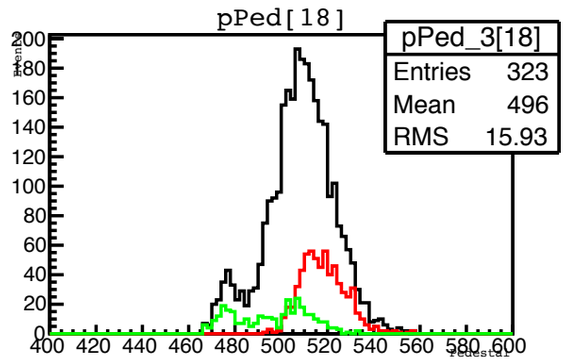
pRatio[31]
Entries 4439
Mean 15.97
RMS 6.431
Events
Ratio

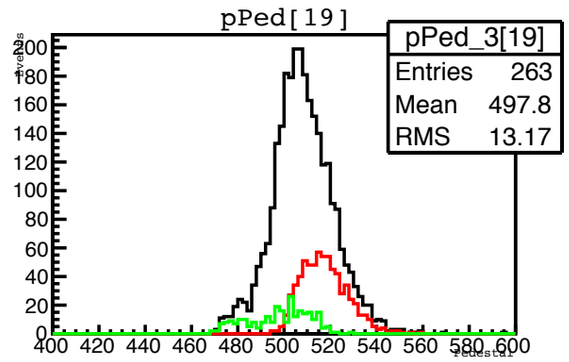
dcv2_mod13

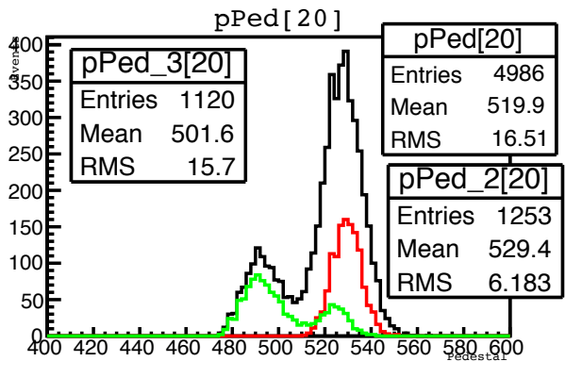
pPed_2 : ratio ~ 10.5 pPed_3 : ratio ~ 15.88

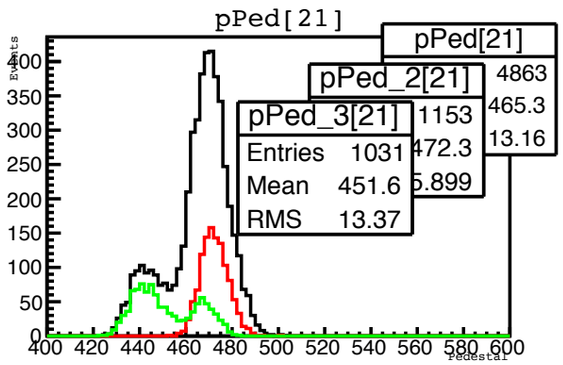


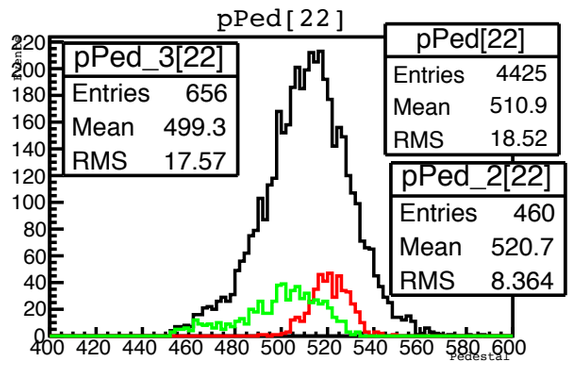


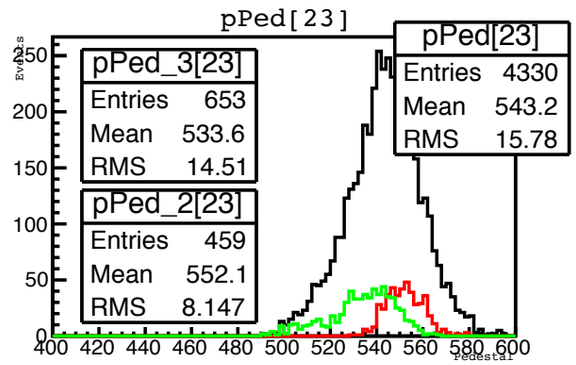


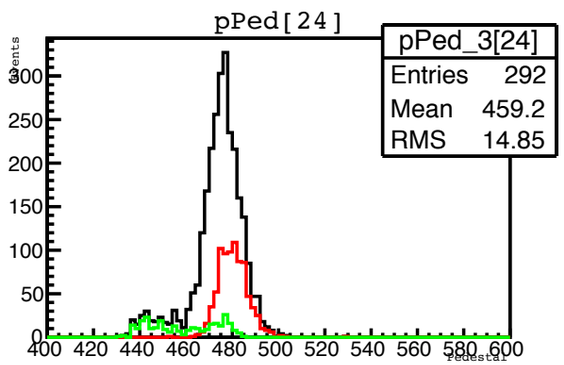


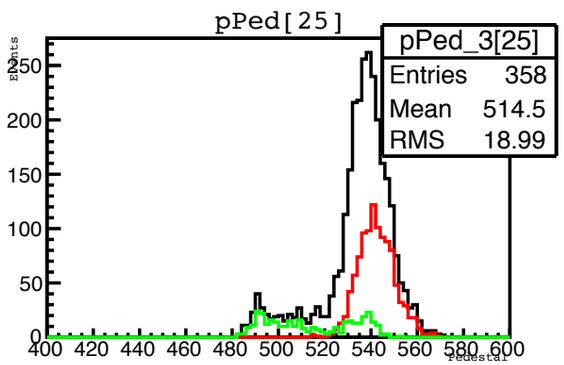


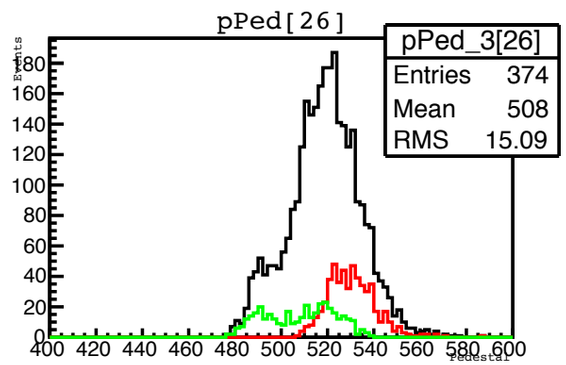


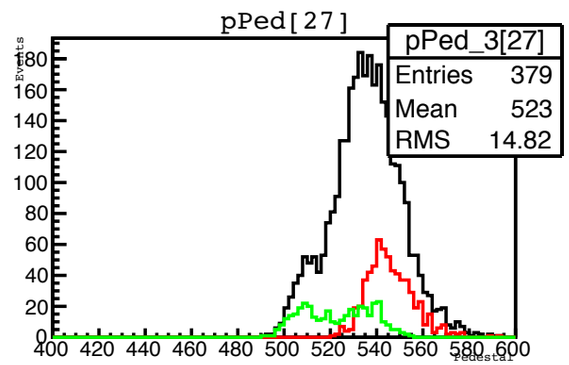


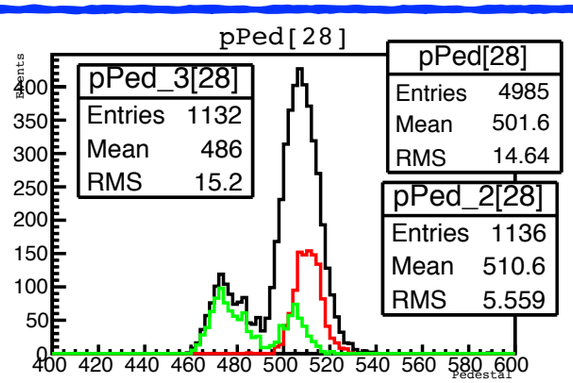


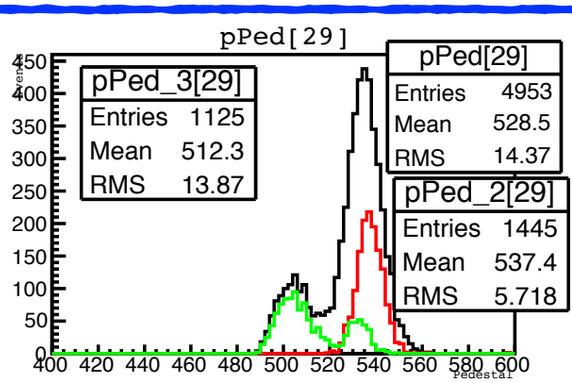


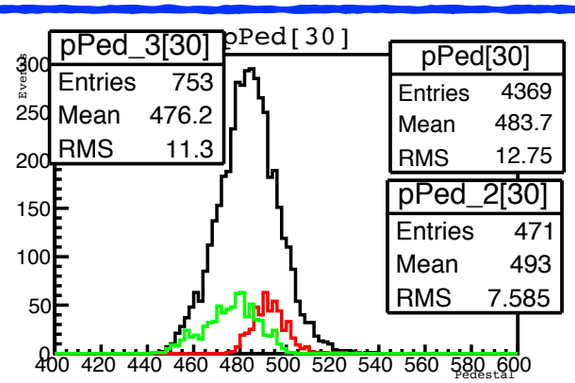


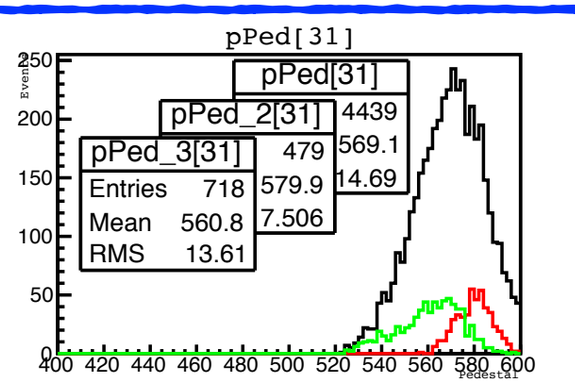






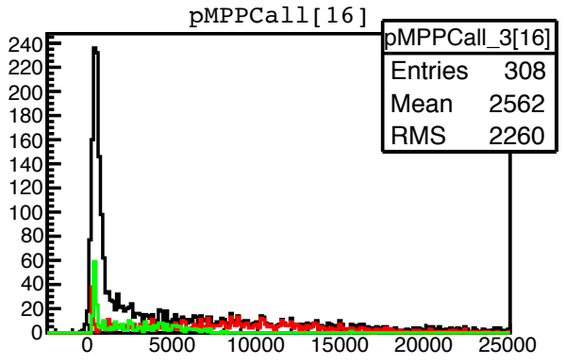


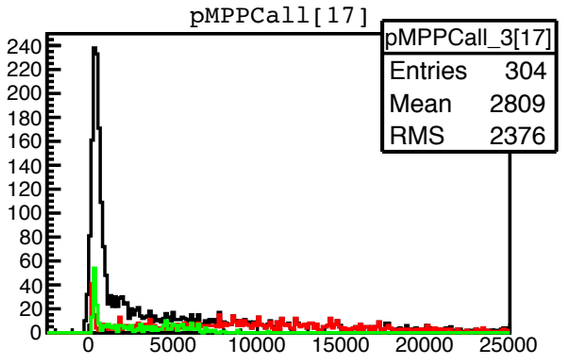


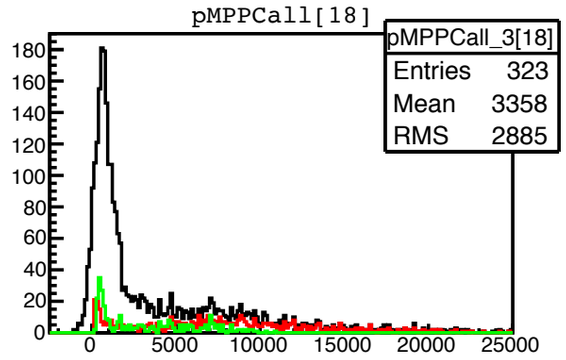


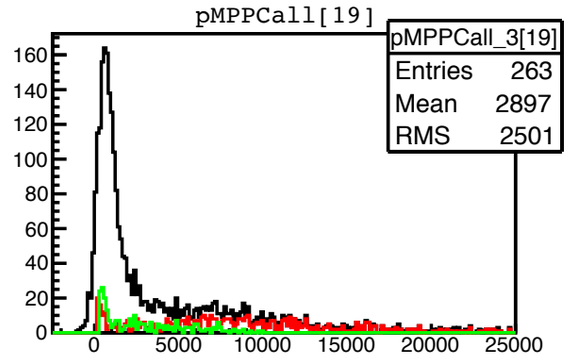
dcv2_mod13

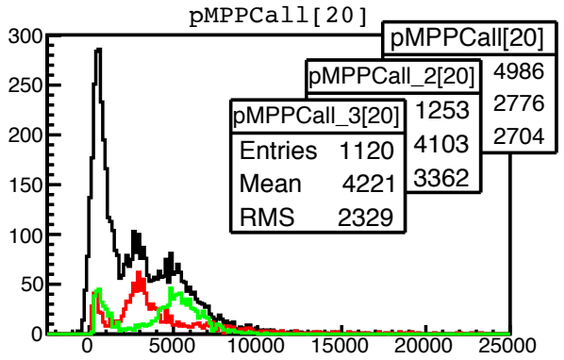
pMPPCall_2 : ratio ~ 10.5 pMPPCall_3 : ratio ~ 15.88

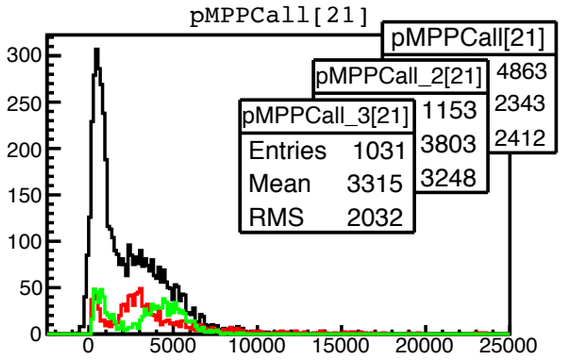


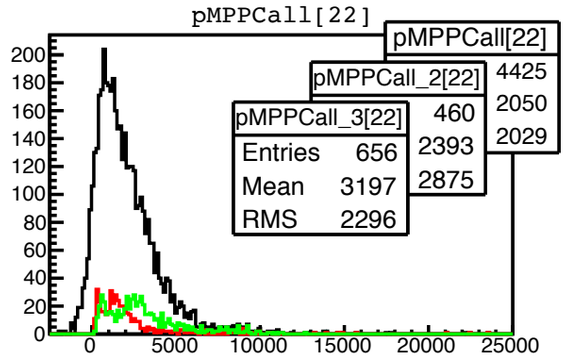


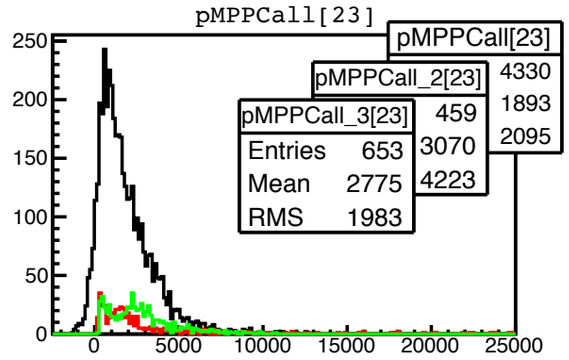


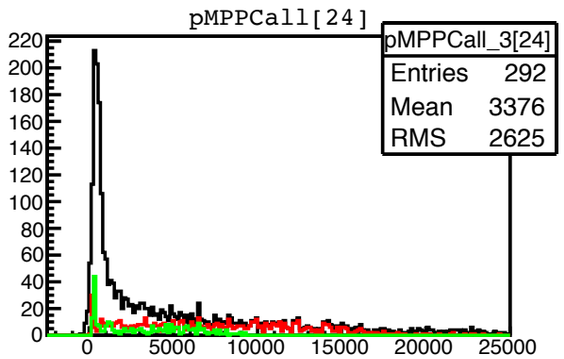


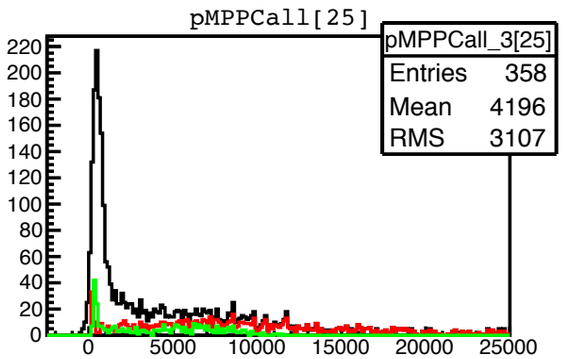


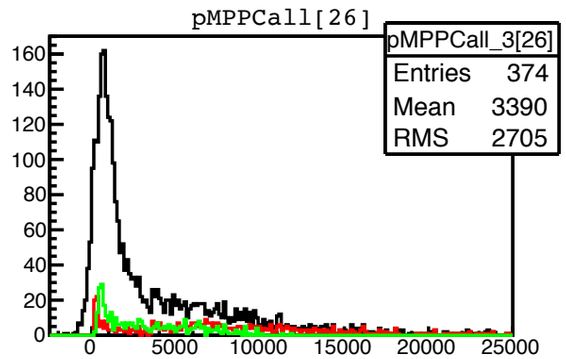


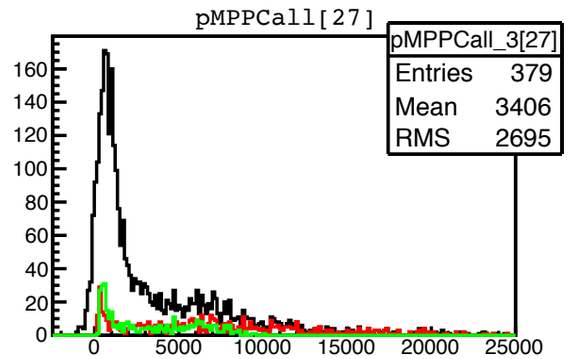


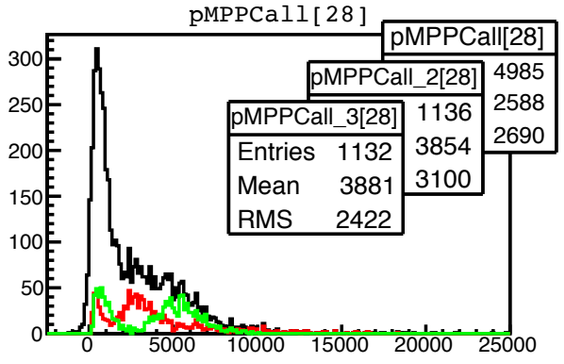


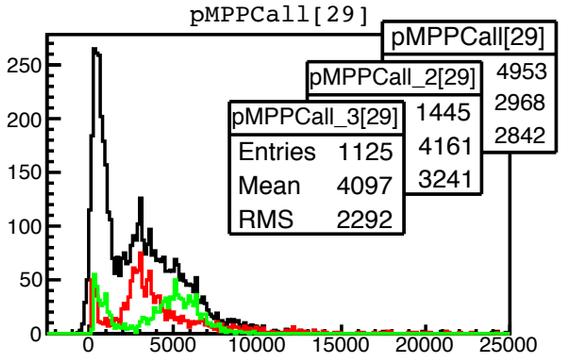


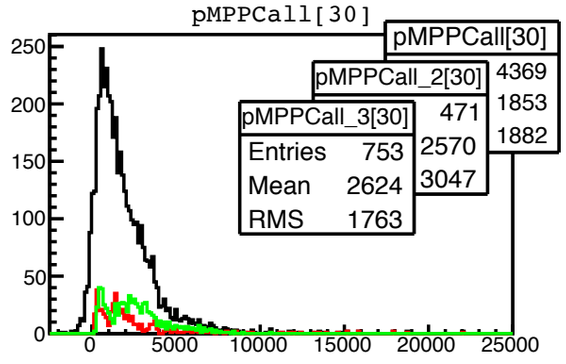


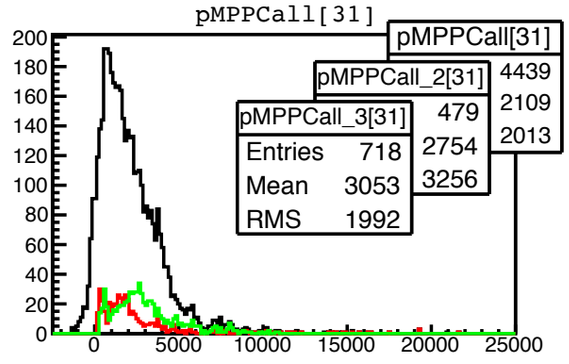






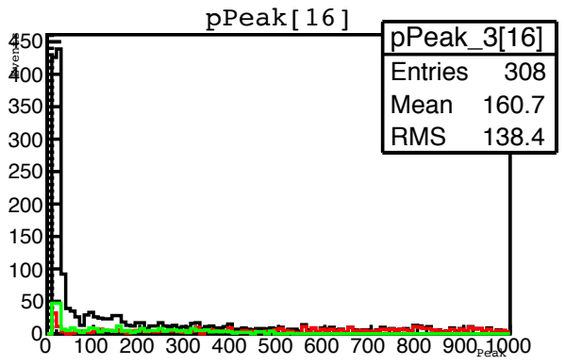


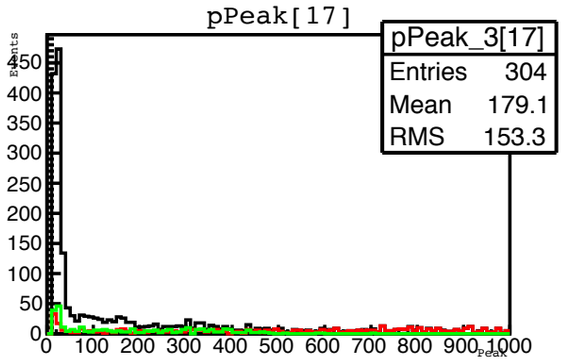


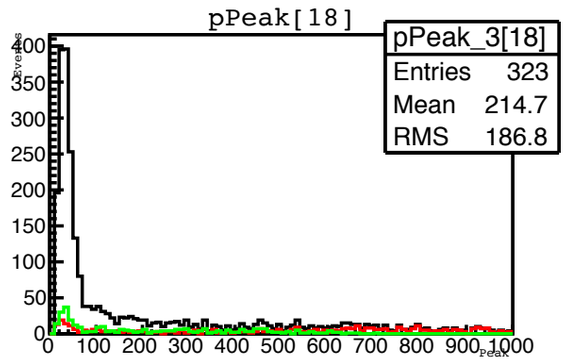


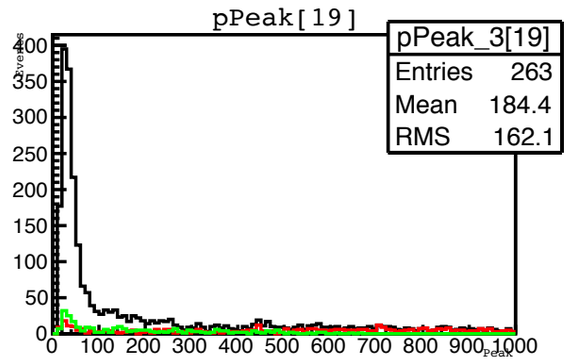
dcv2_mod13

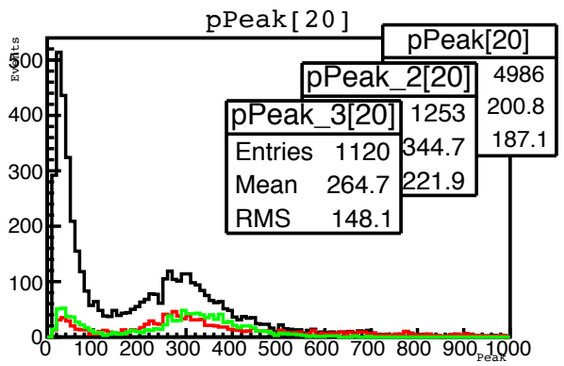
pPeak_2 : ratio ~ 10.5 pPeak_3 : ratio ~ 15.88

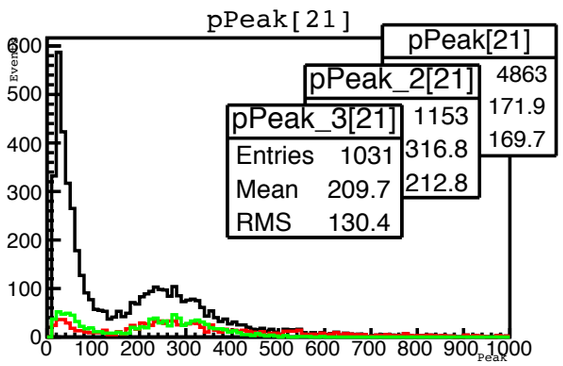


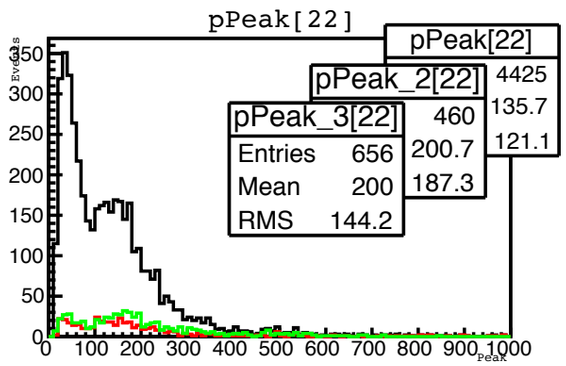


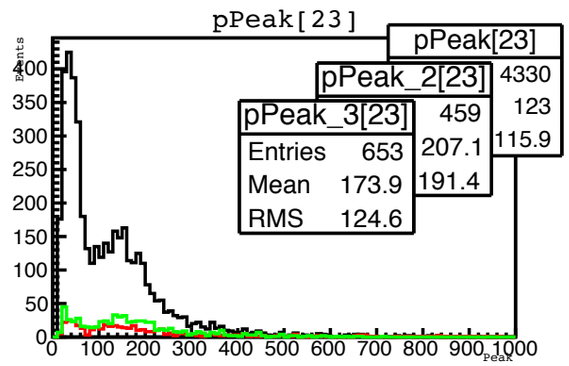


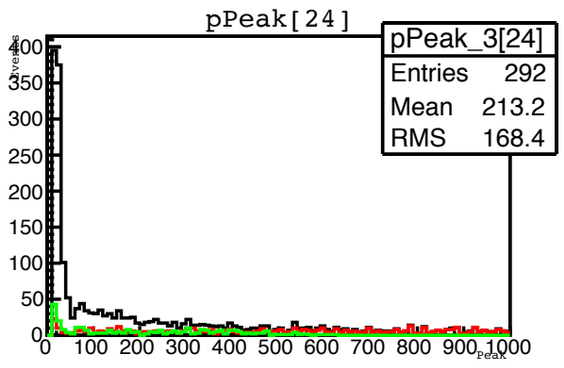


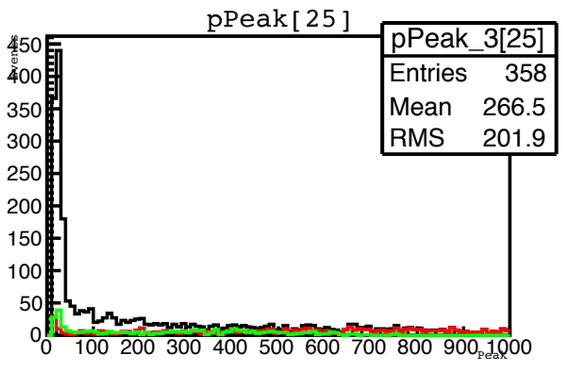


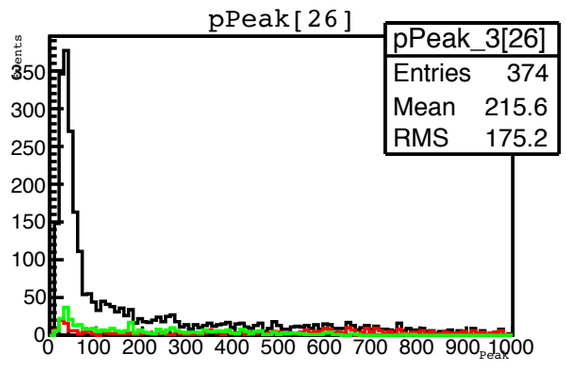


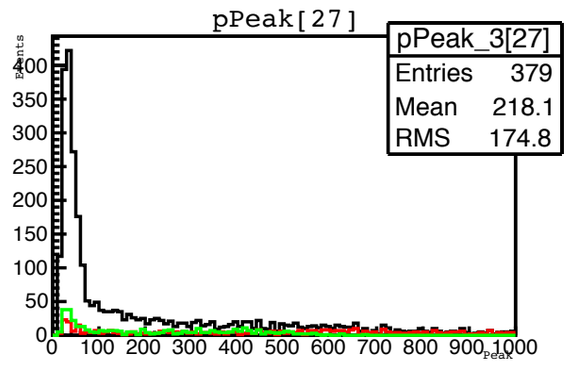


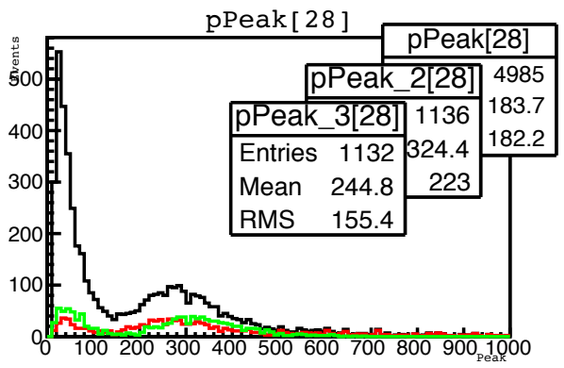


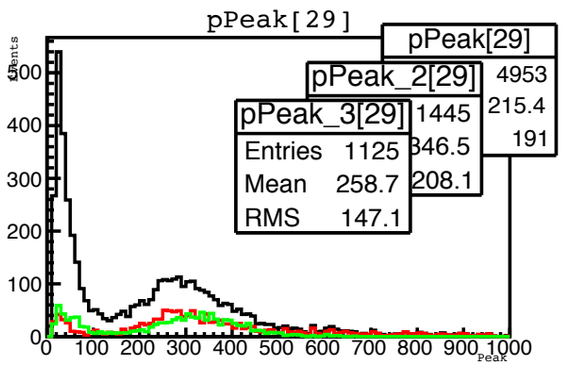


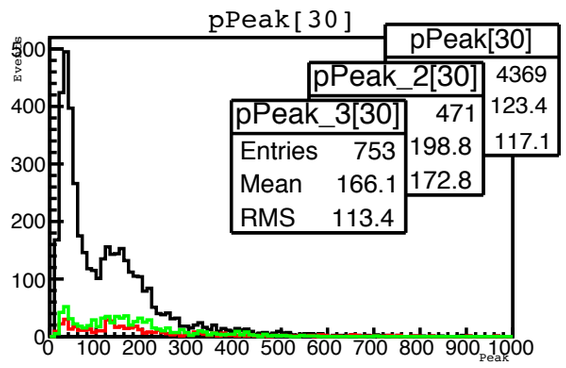


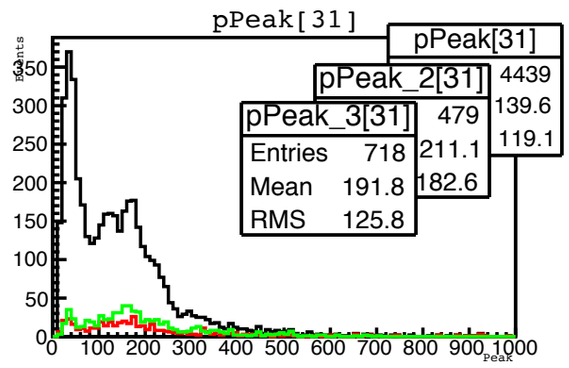








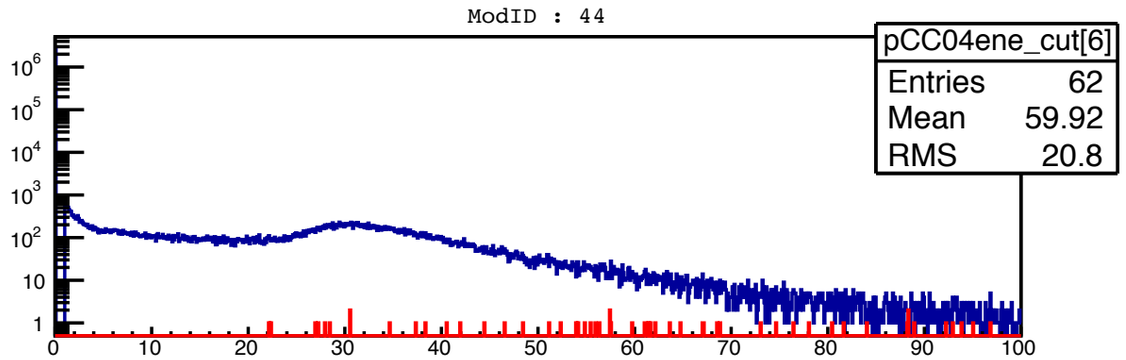


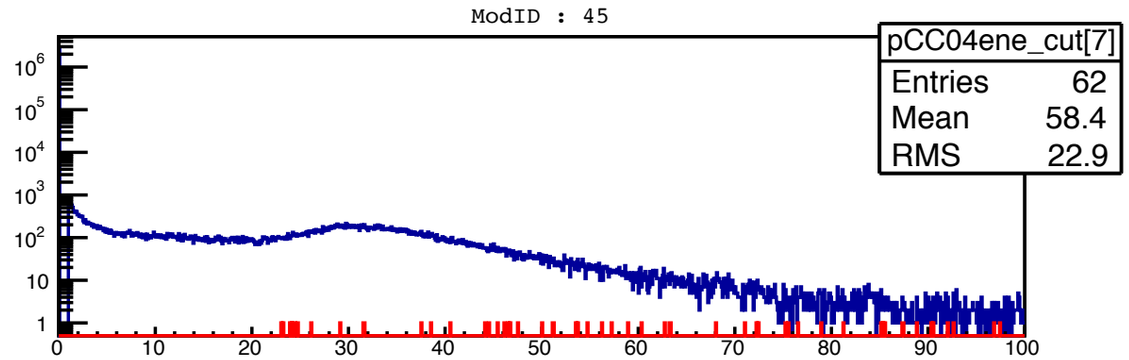


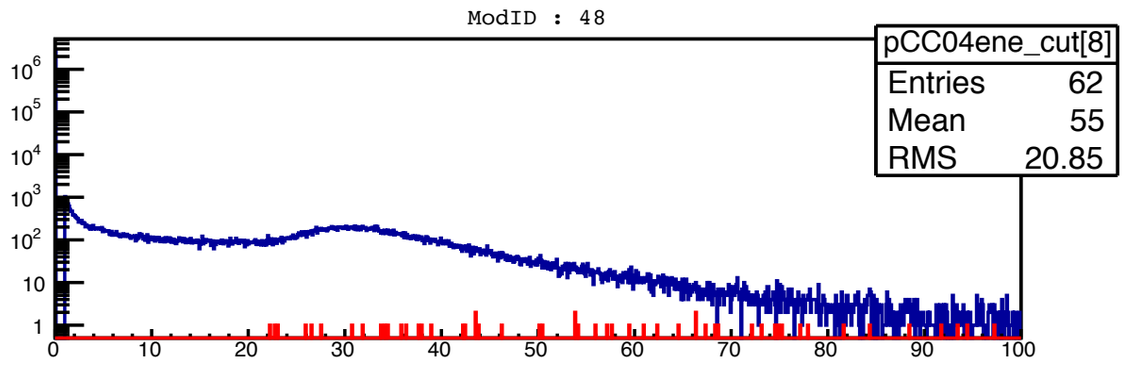
How can we increase the cosmic ray event of mod02?

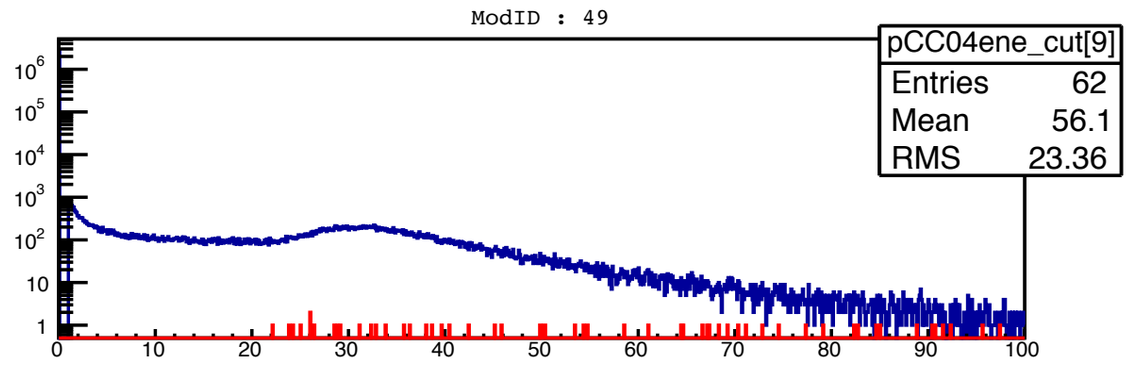
thre_dcv1_mod02_Top

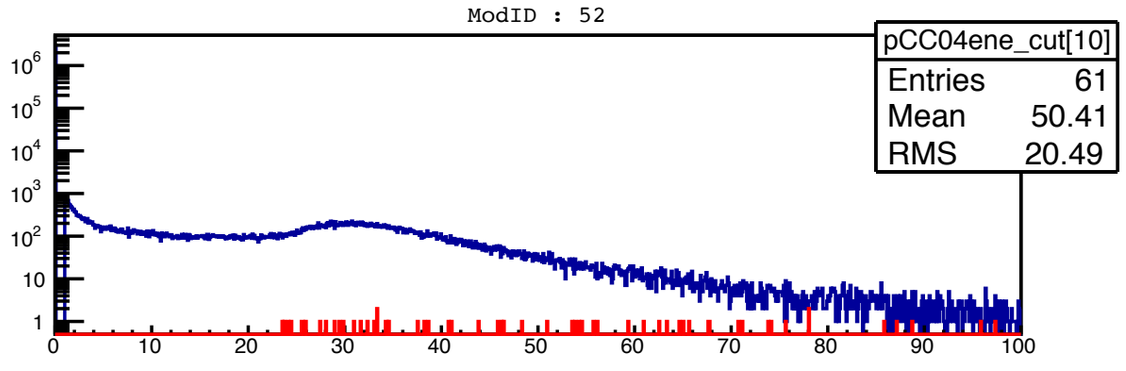
Total = 242 events

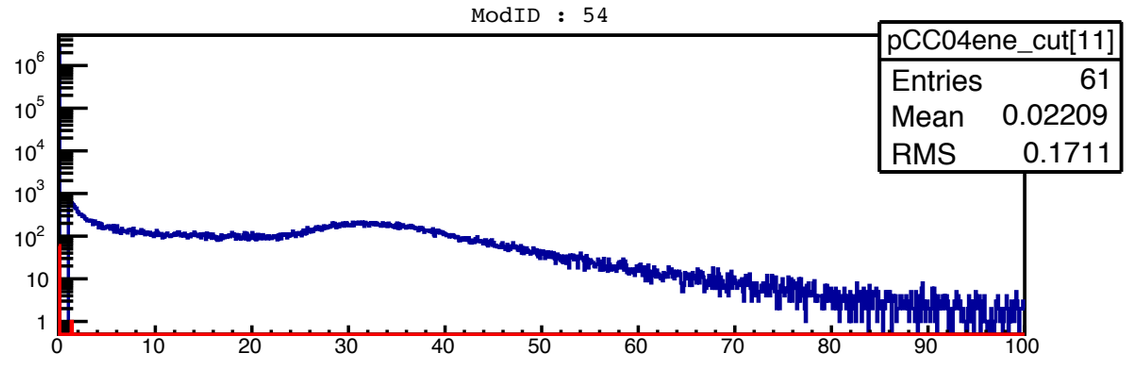


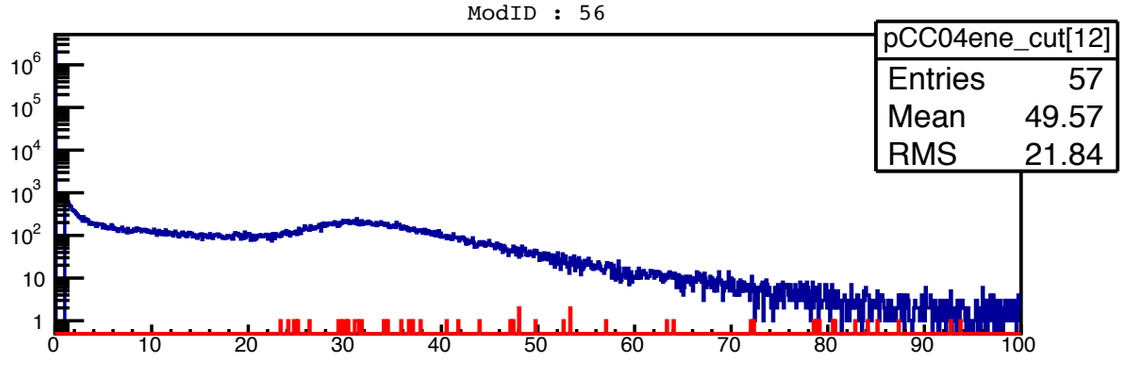


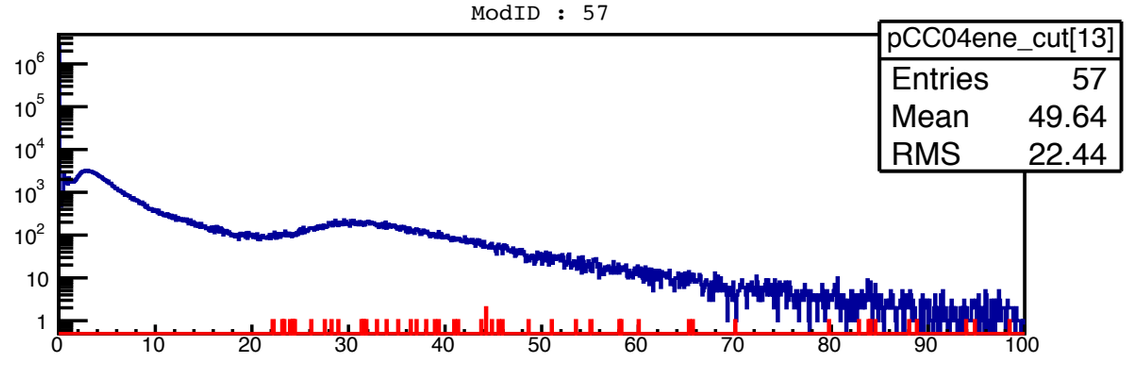










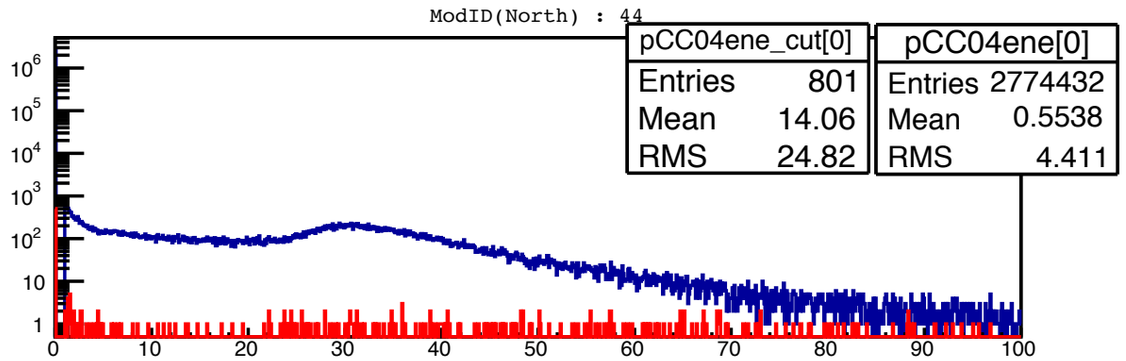


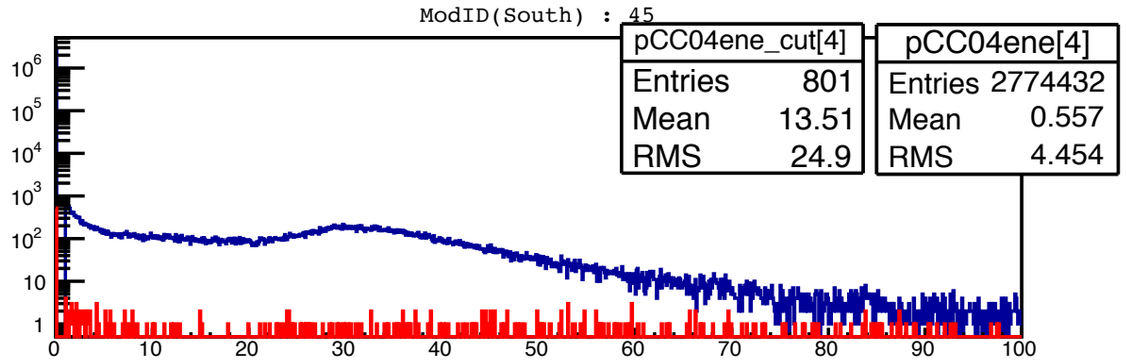
```
// Top
else if( CC04Energy[44] > CC04_thre[44] && CC04Energy[45] > CC04_thre[45] ){ track = 54; }
else if( CC04Energy[48] > CC04_thre[48] && CC04Energy[49] > CC04_thre[49] ){ track = 55; }
else if( CC04Energy[52] > CC04_thre[52] && CC04Energy[53] > CC04_thre[53] ){ track = 56; }
else if( CC04Energy[56] > CC04_thre[56] && CC04Energy[57] > CC04_thre[57] ){ track = 57; }
```

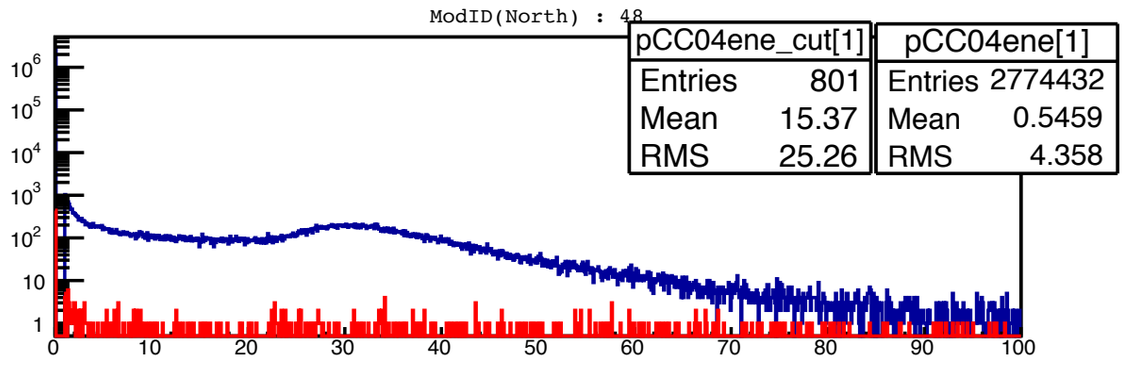
```
int ID_top_north[4] = {44,48,52,56}; // For Top & North
int ID_top_south[4] = {45,49,53,57}; // For Top & South

// Set the track condition
        for(int j=0;j<4;j++){
                for(int k=0;k<4;k++){
                        if( CC04Energy[ID_top_north[j]] > CC04_thre[ID_top_north[j]]
                            && CC04Energy[ID_top_south[k]] > CC04_thre[ID_top_south[k]]){
                                track = 54;
                        } else continue;
                }
        }
```

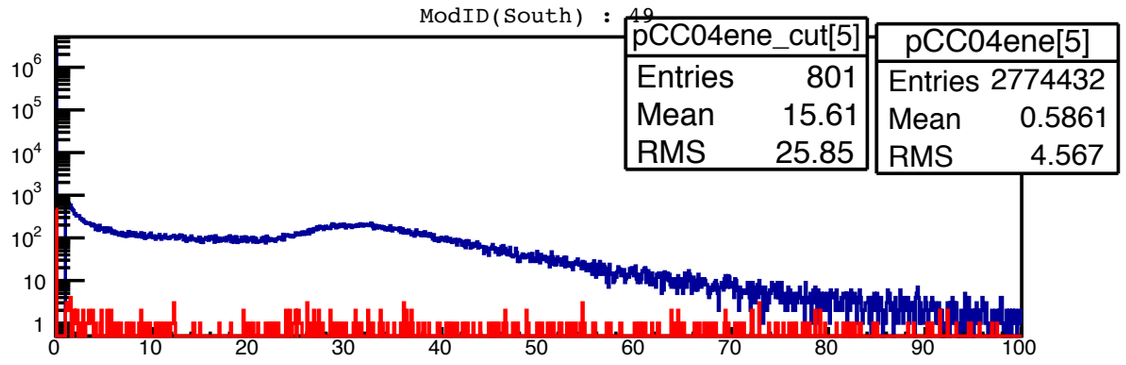
thre_dcv1_mod02_Top_Cross

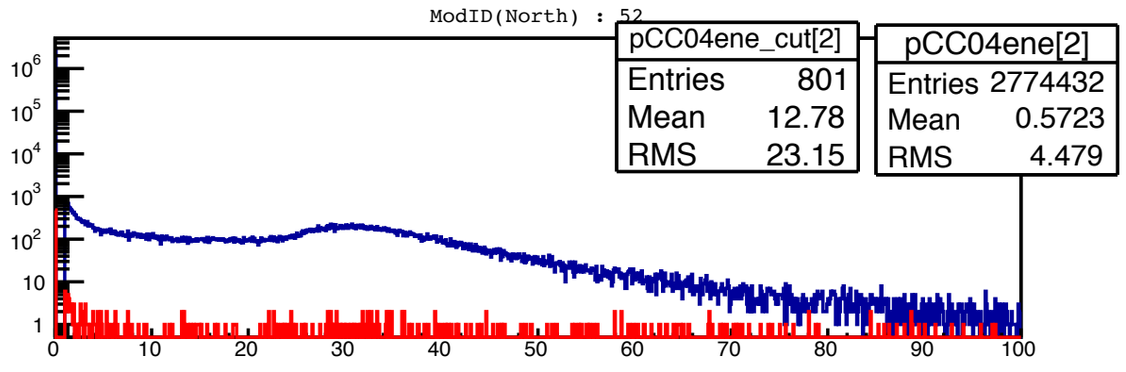
Total = 242 events > 801 events

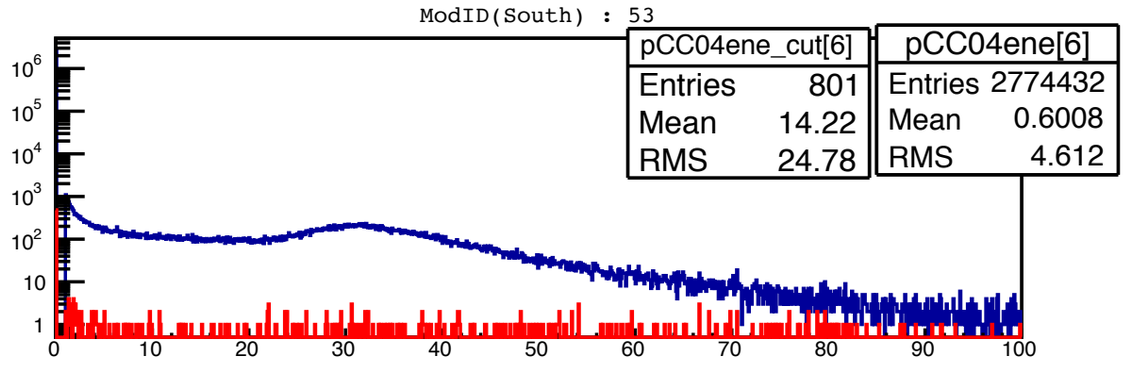


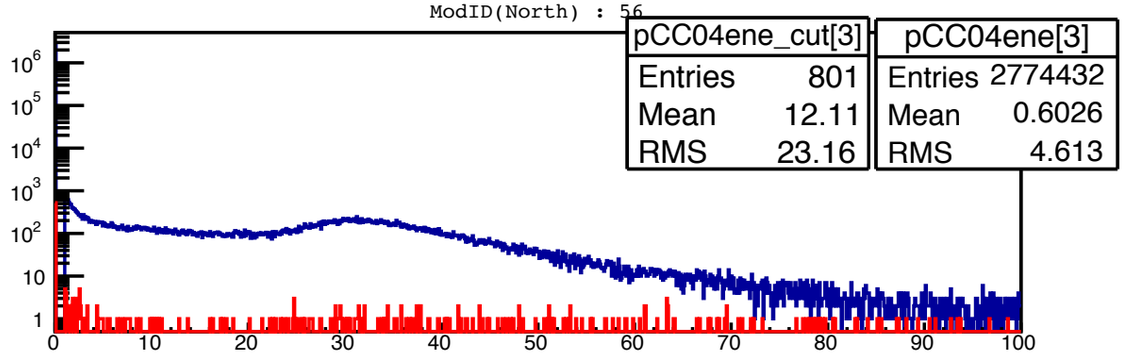


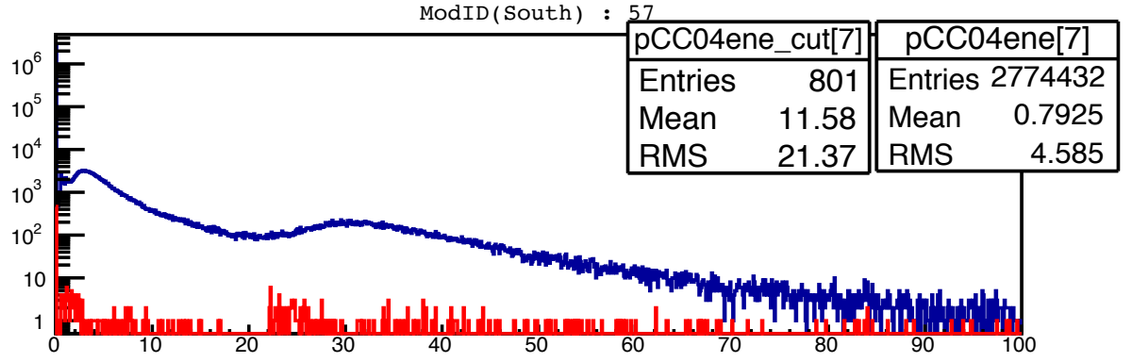






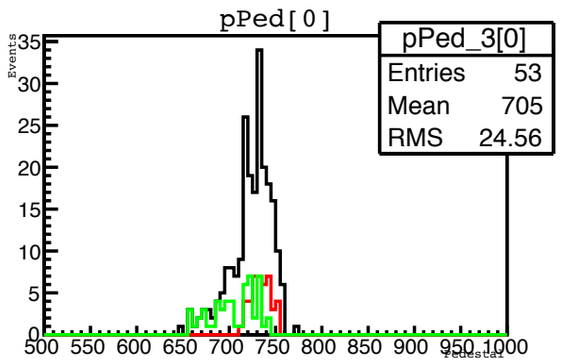


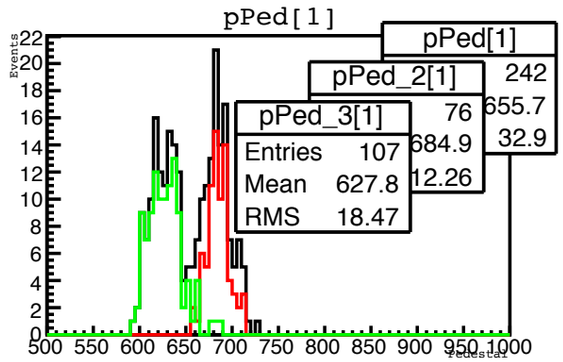


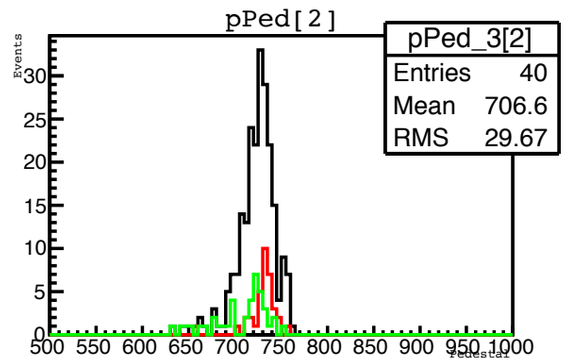


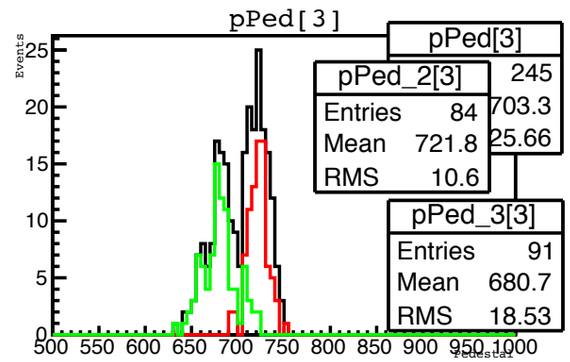
dcv1_mod02_Top

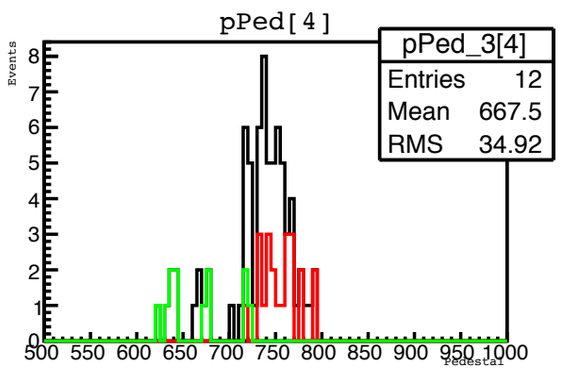
pPed_2 : ratio ~ 8.85 pPed_3 : ratio ~ 14.91

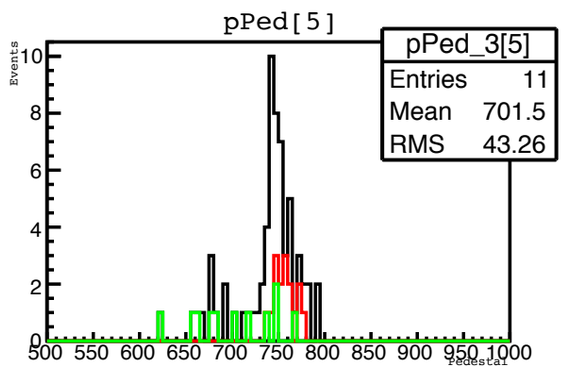


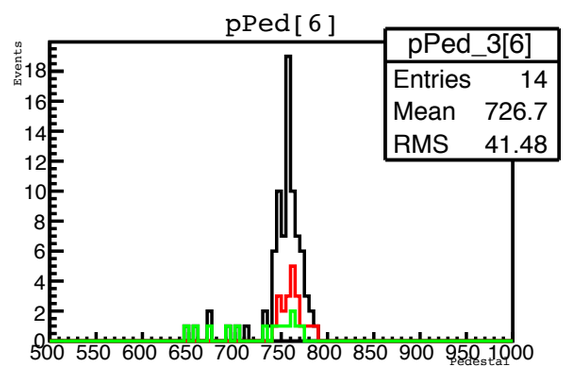


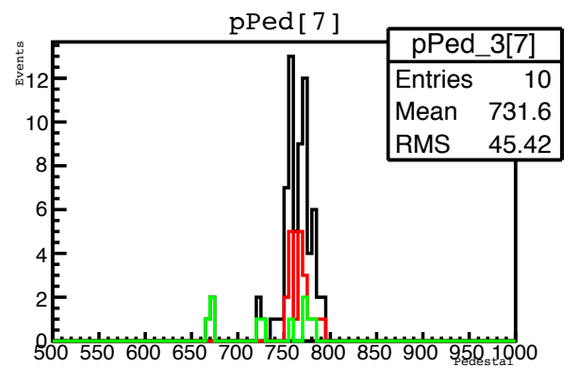


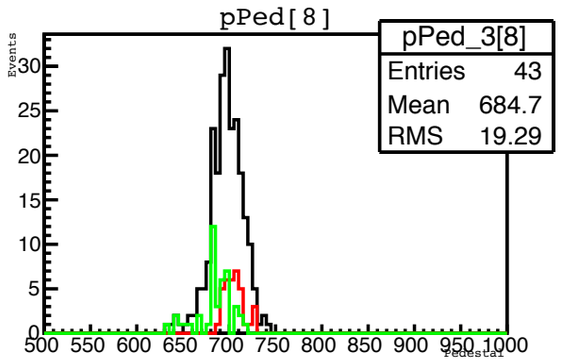


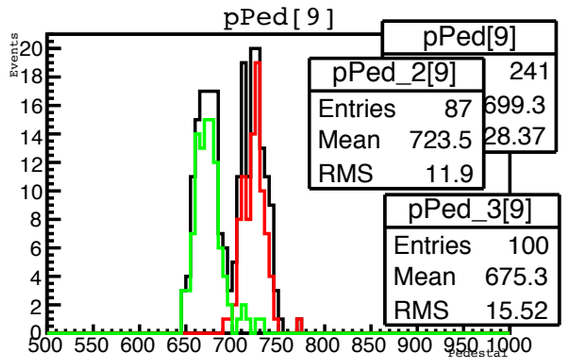


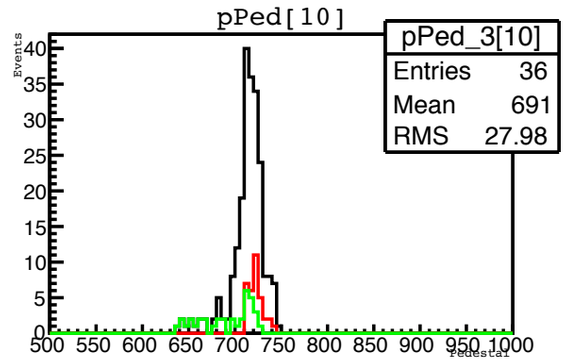


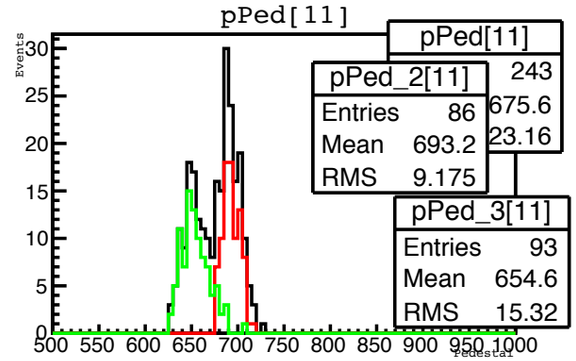


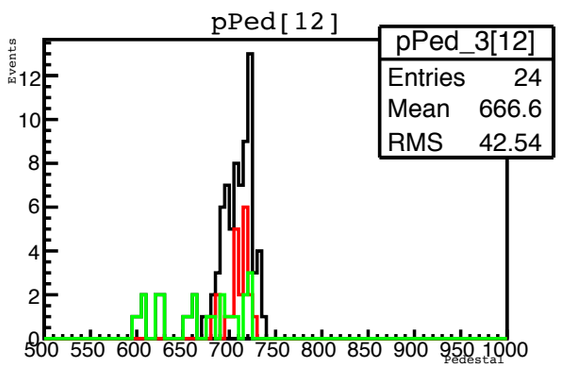


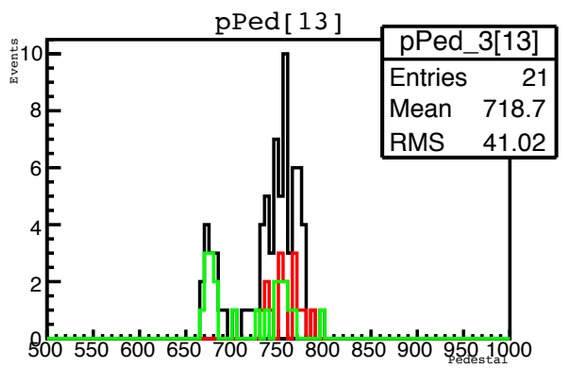


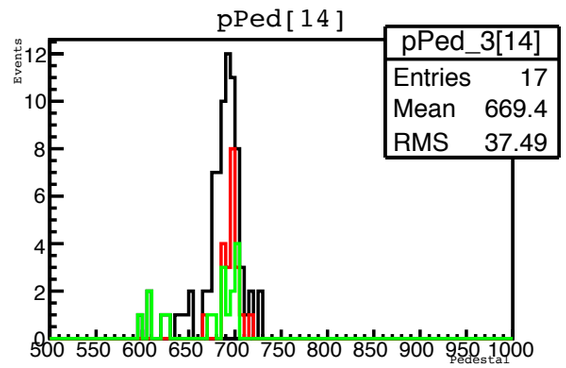


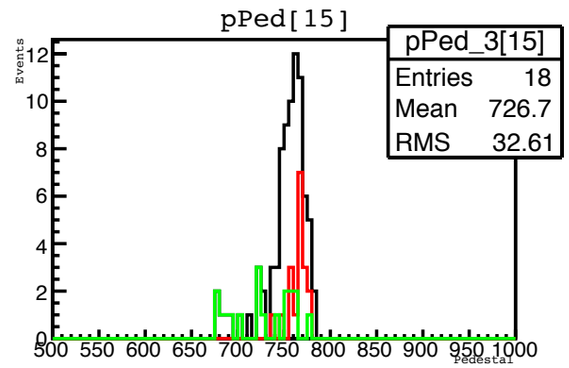






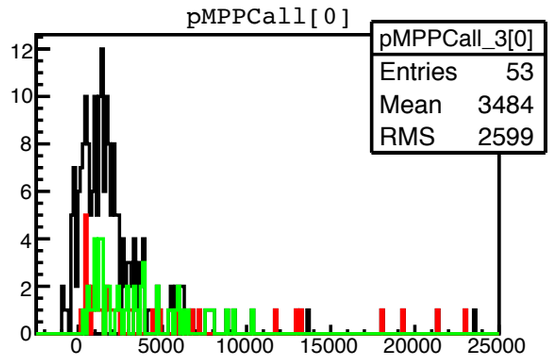


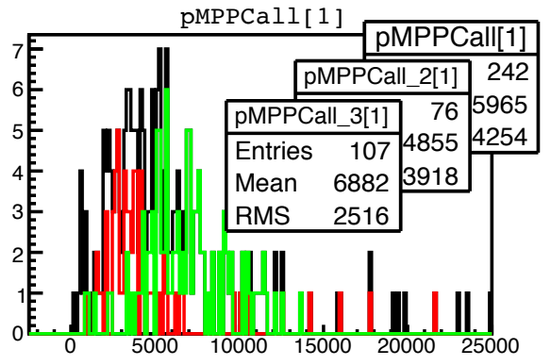


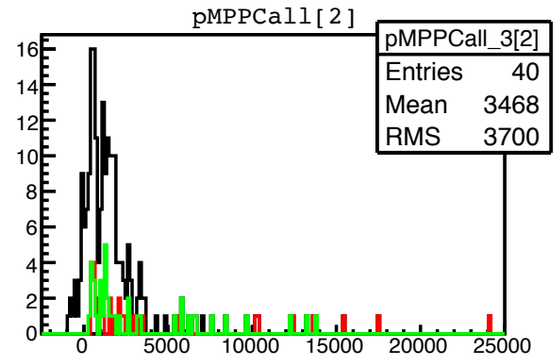


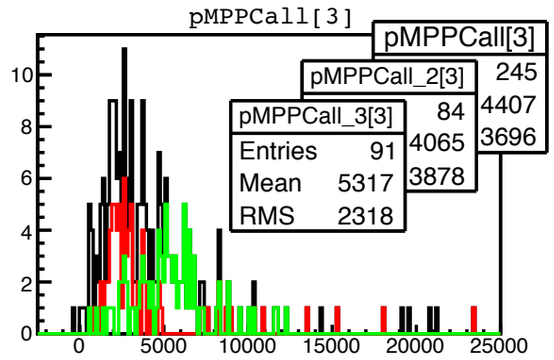
dcv1_mod02_Top

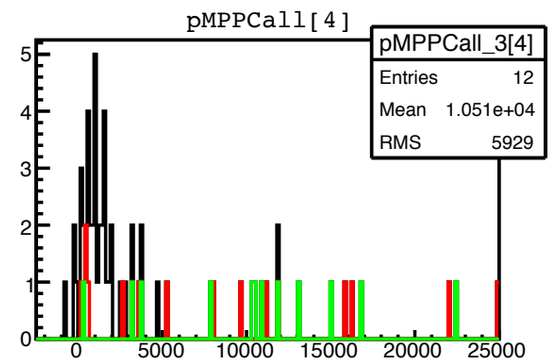
pMPPCall_2 : ratio ~ 8.85 pMPPCall_3 : ratio ~ 14.91

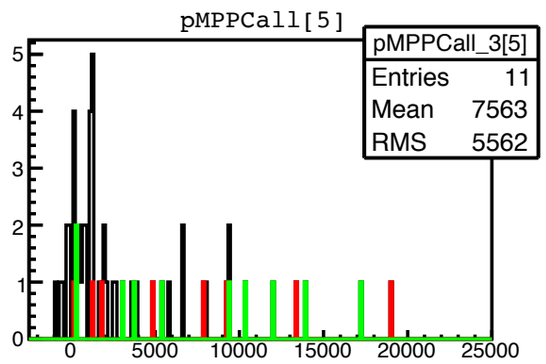


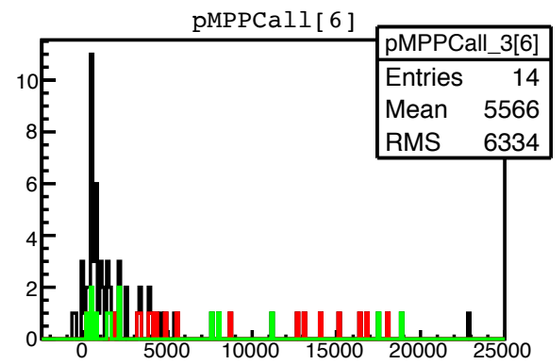


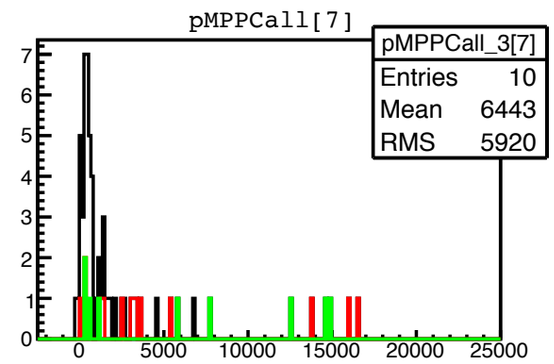


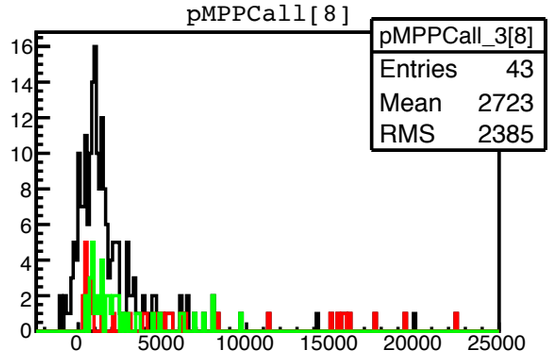


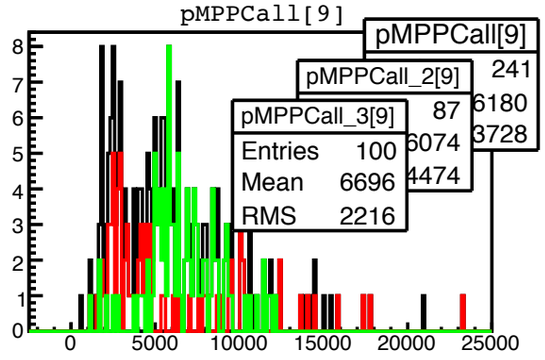


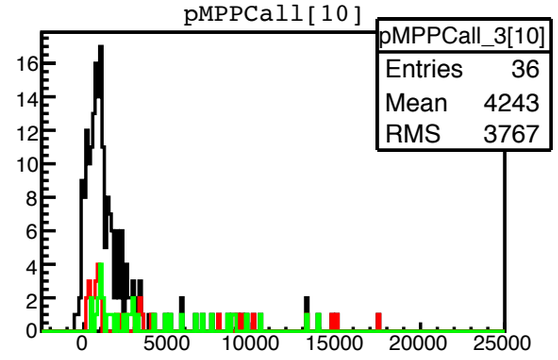


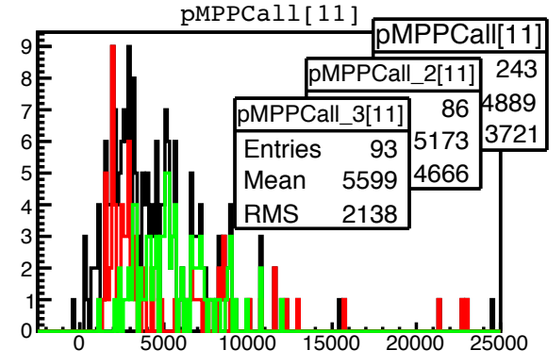


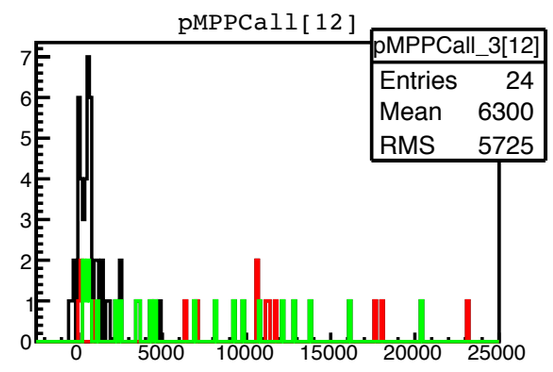


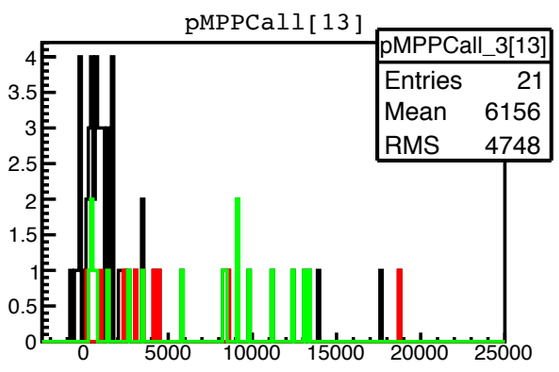


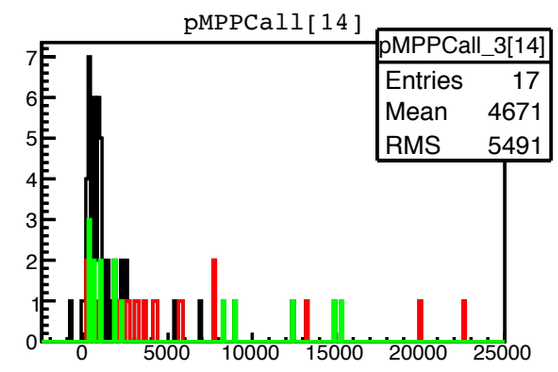


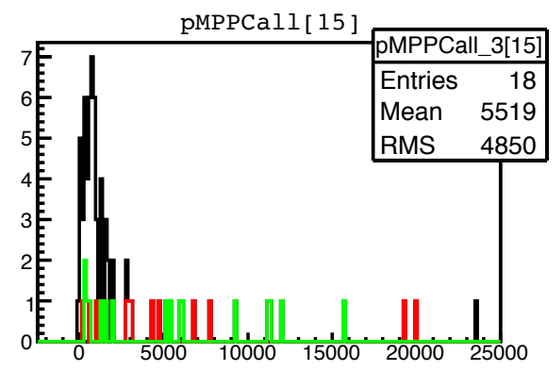






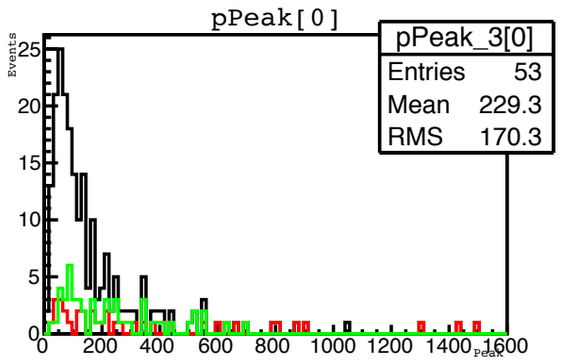


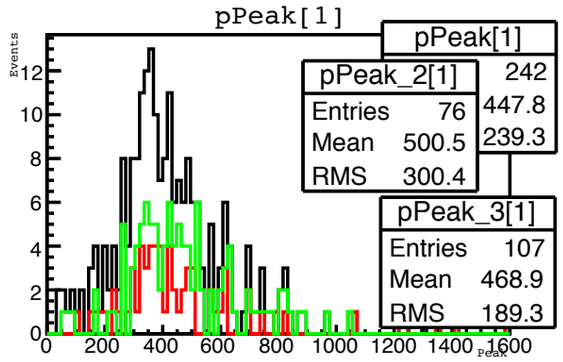


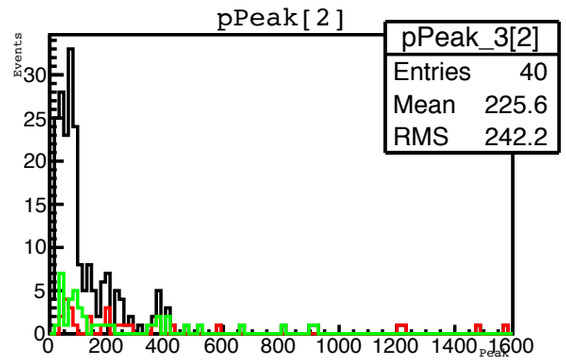


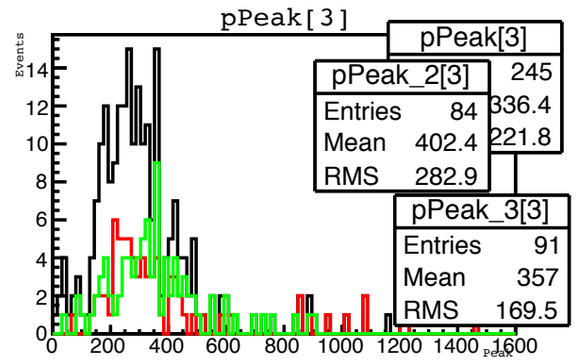
dcv1_mod02_Top

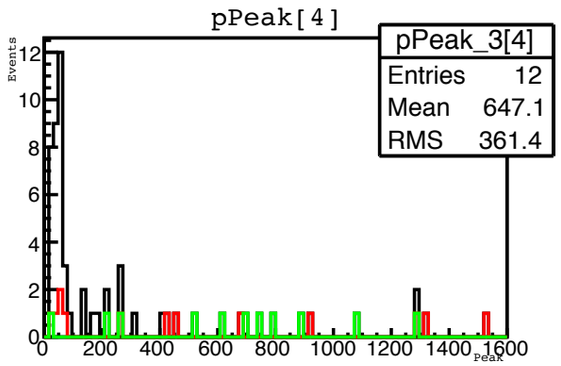
pPeak_2 : ratio ~ 8.85 pPeak_3 : ratio ~ 14.91

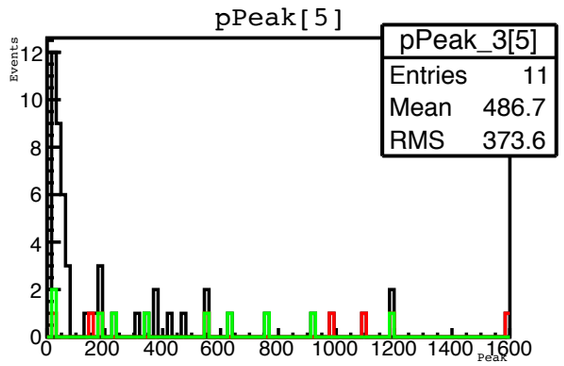


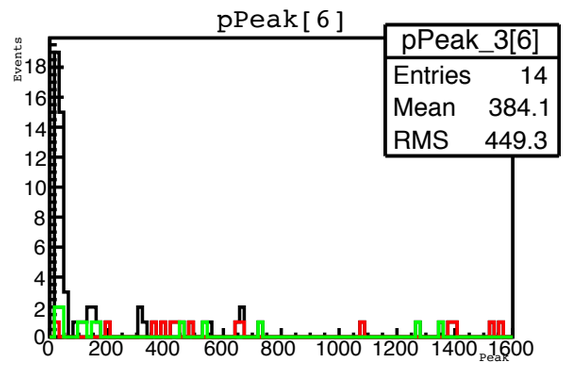


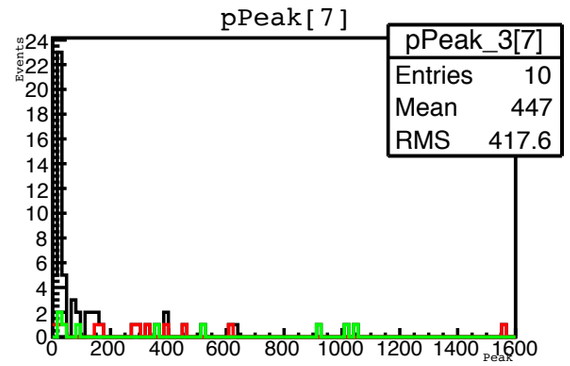


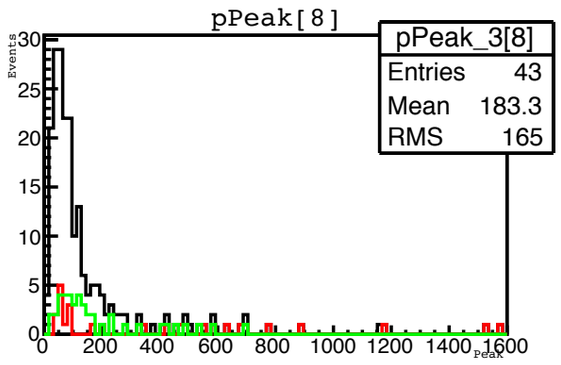


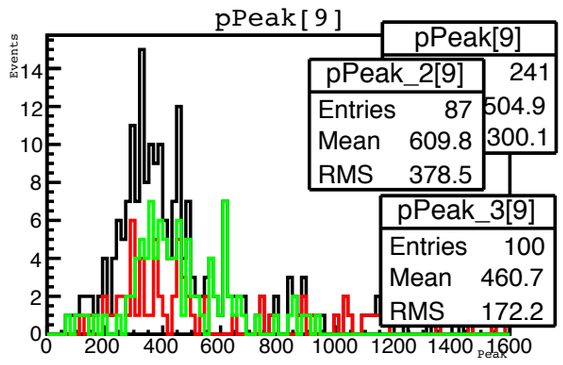


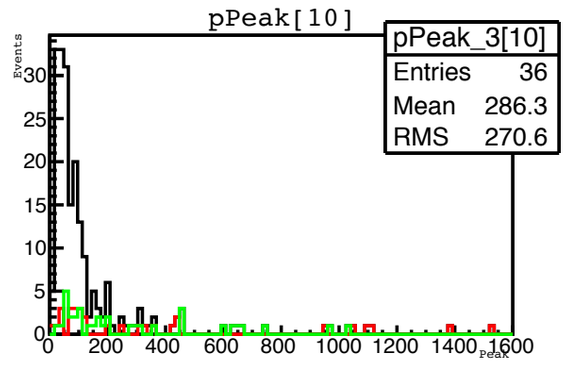


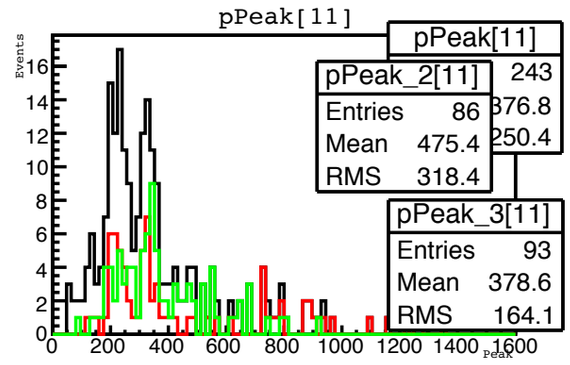


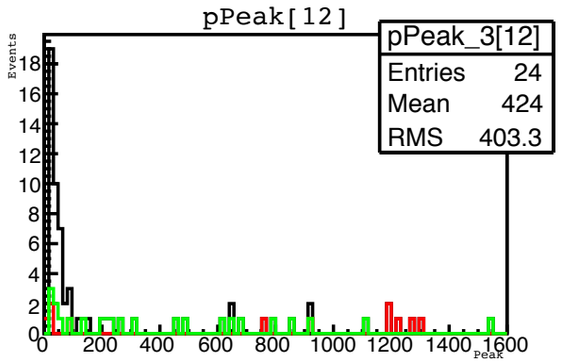


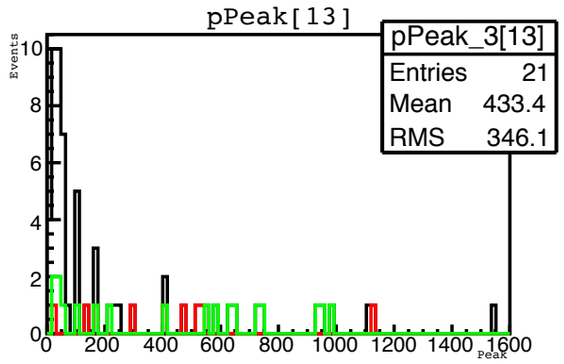


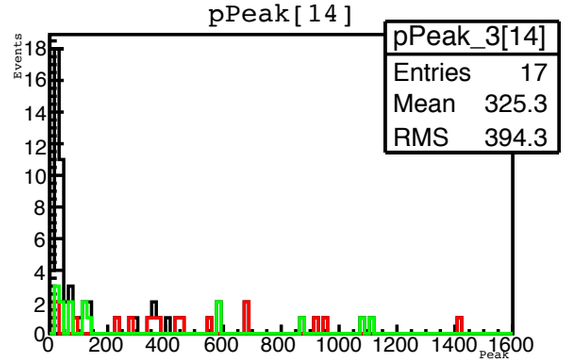


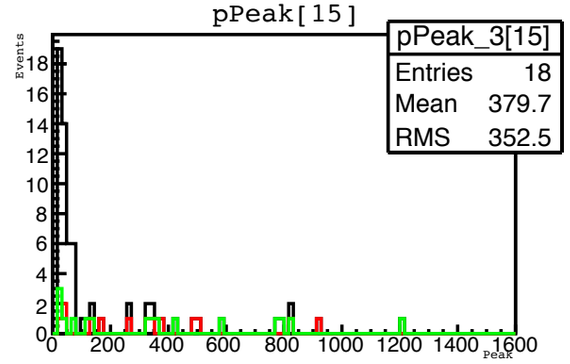






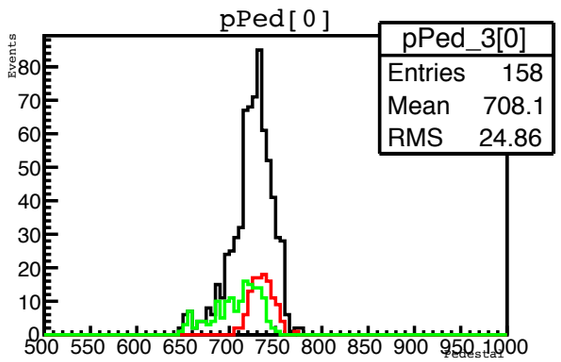


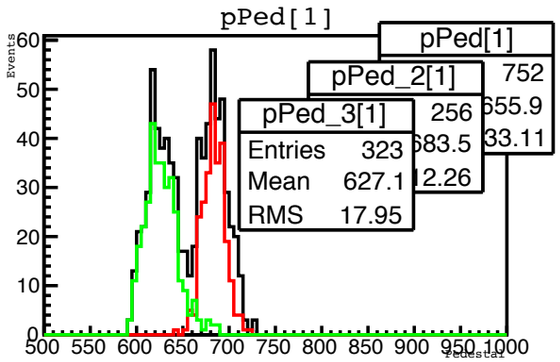


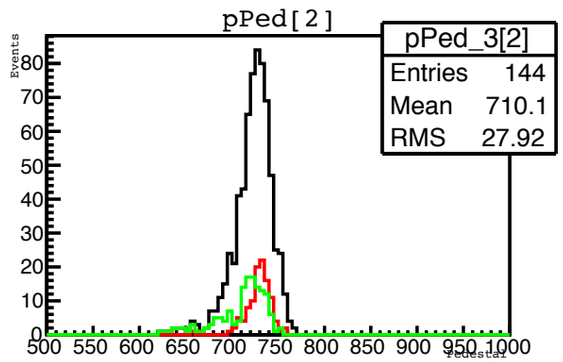


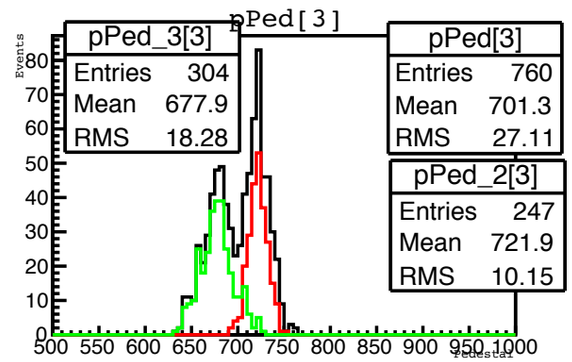
dcv1_mod02_Top_Cross

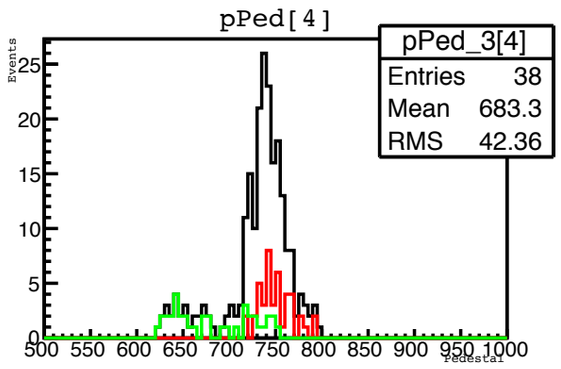
pPed_2 : ratio ~ 8.85 pPed_3 : ratio ~ 14.91

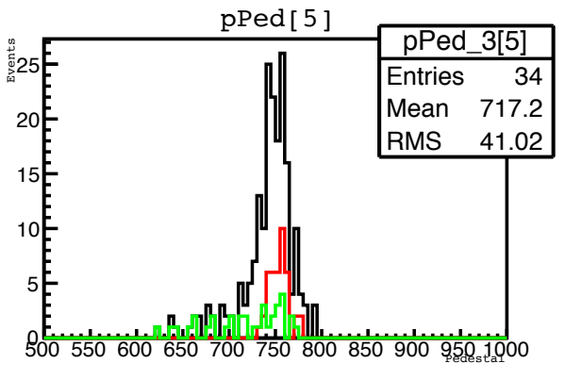


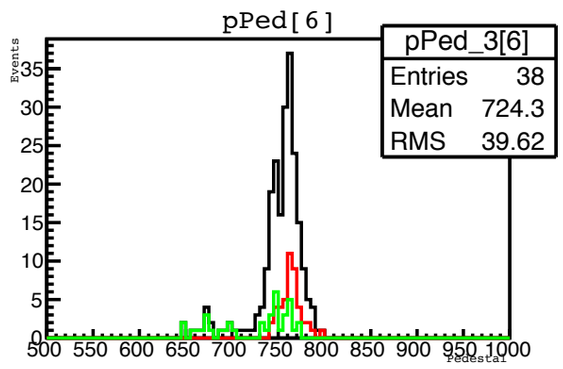


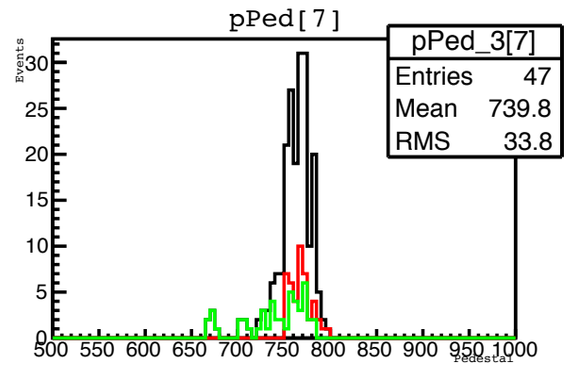


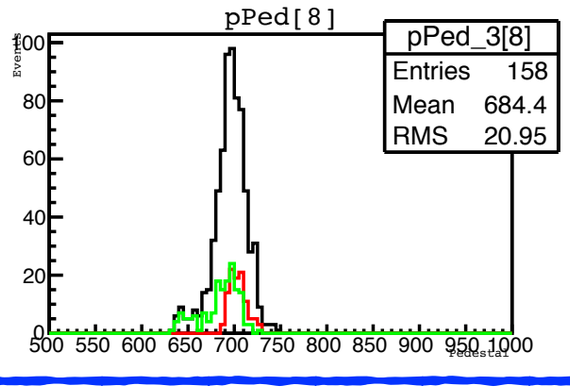


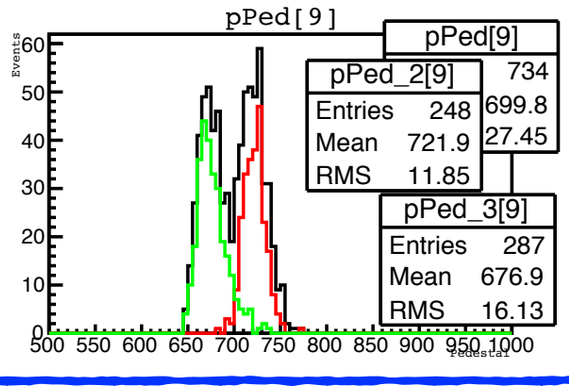


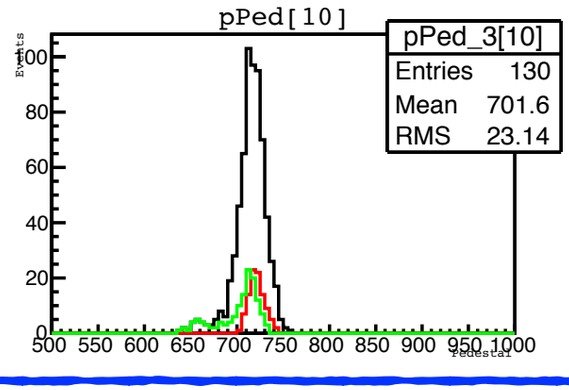


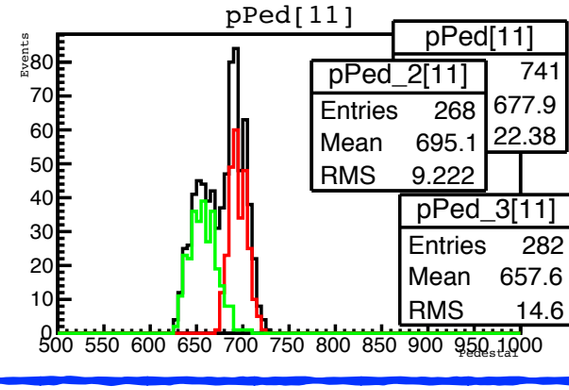


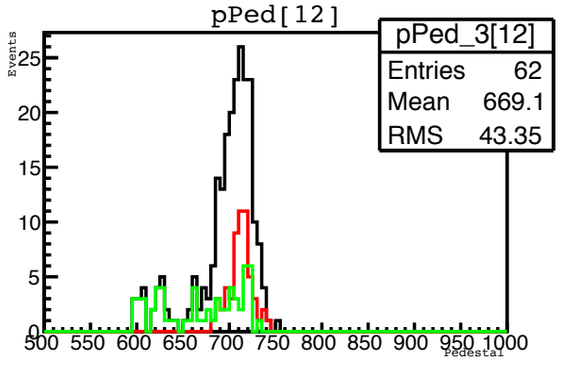


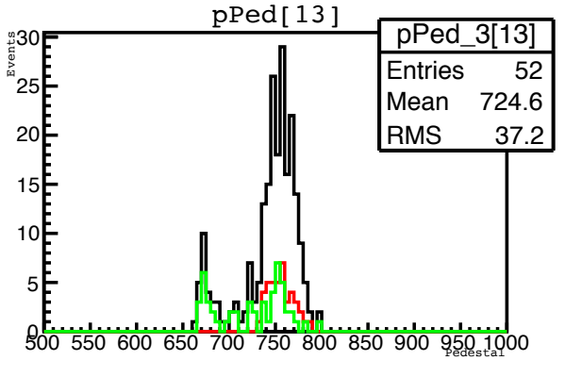


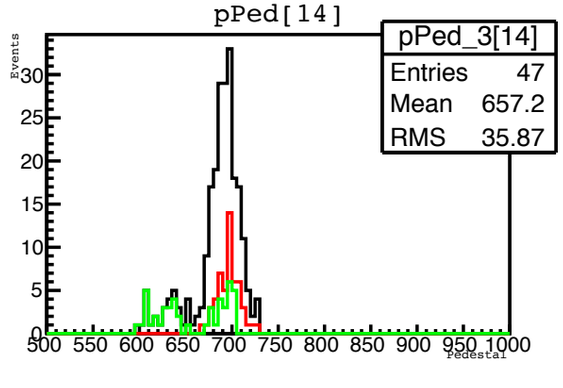


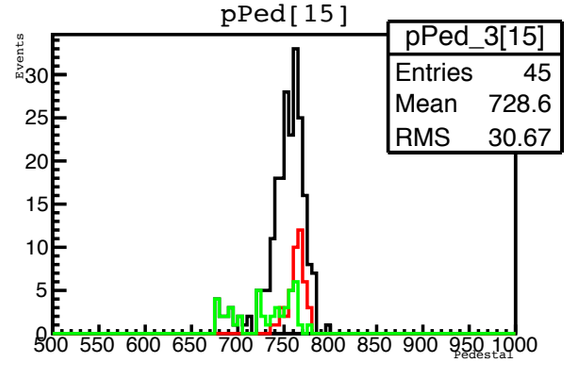






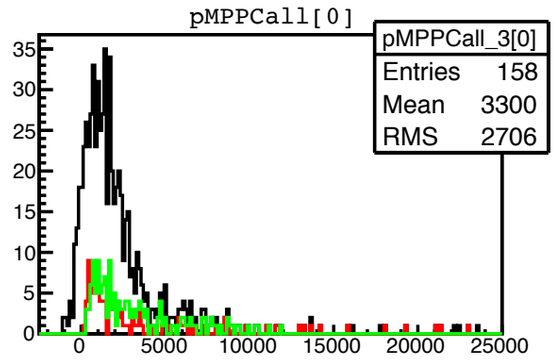


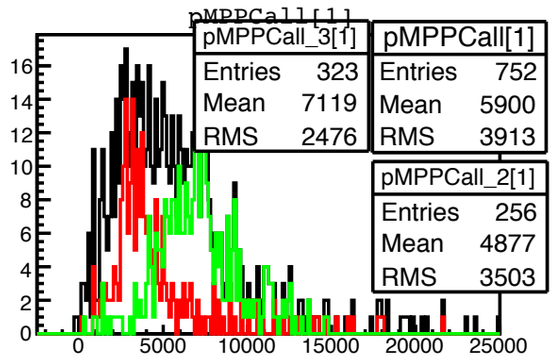


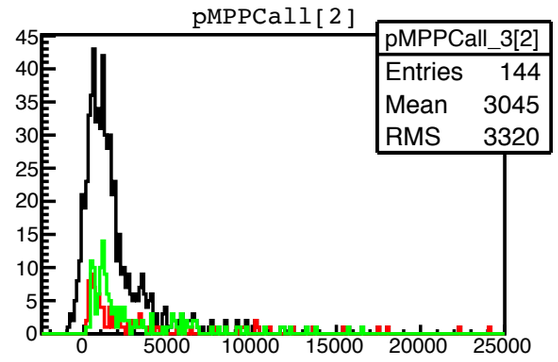


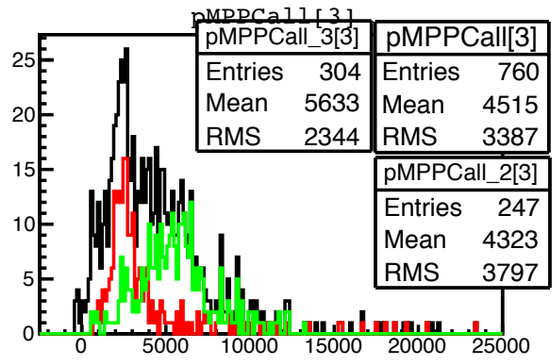
dcv1_mod02_Top_Cross

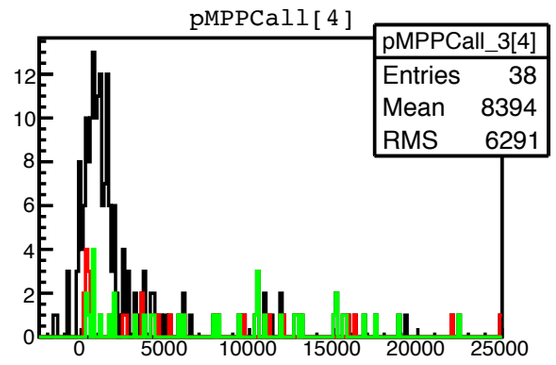
pMPPCall_2 : ratio ~ 8.85　　pMPPCall_3 : ratio ~ 14.91

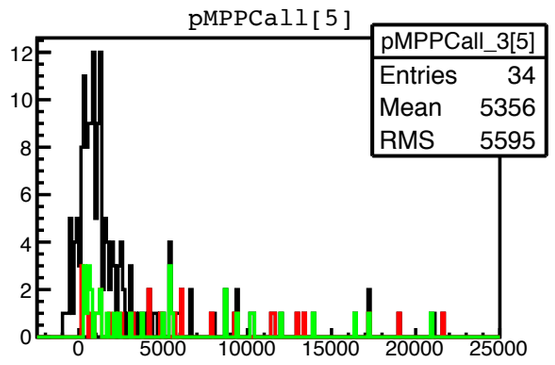


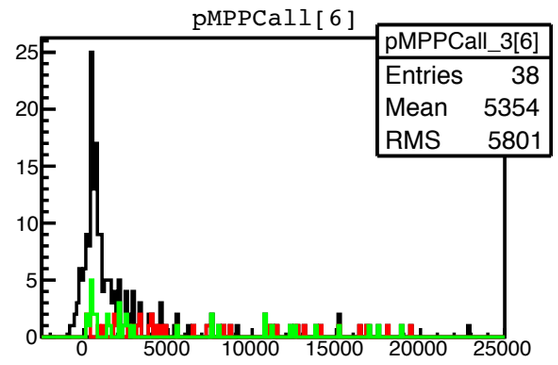


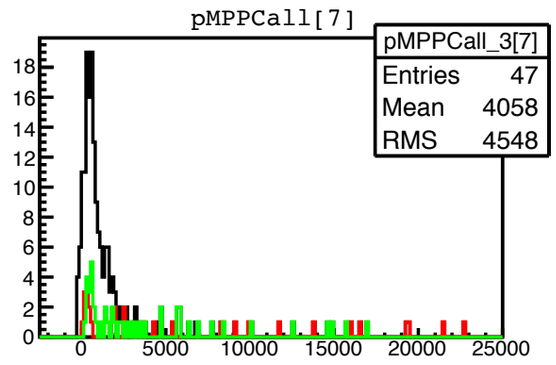


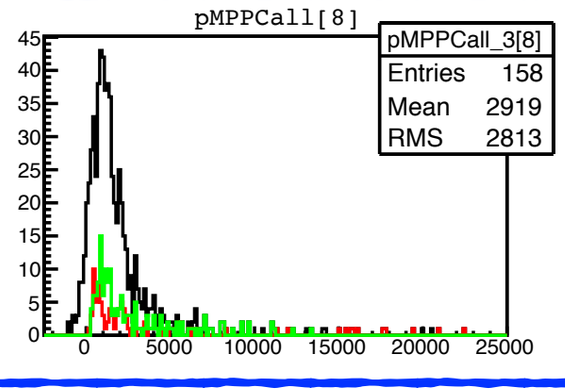


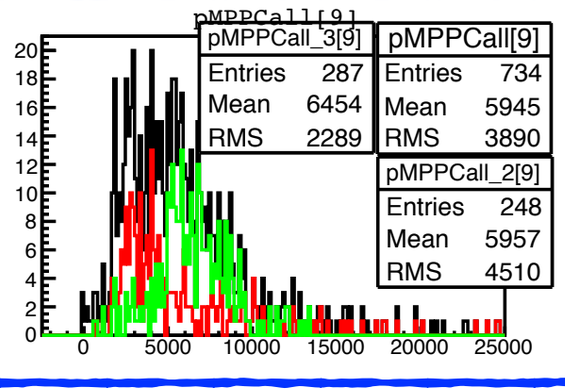


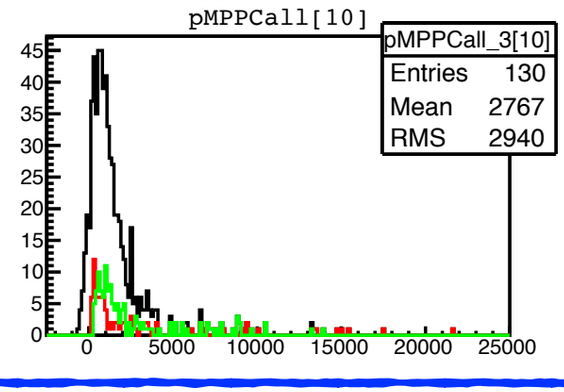


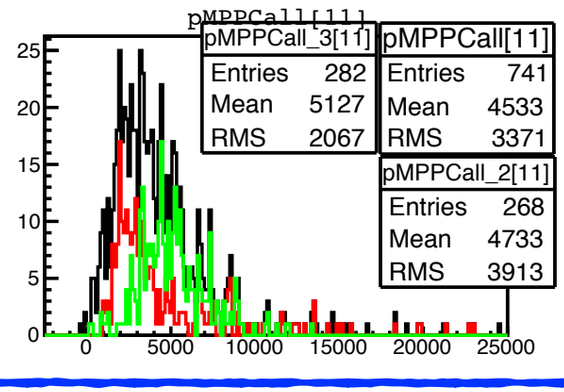


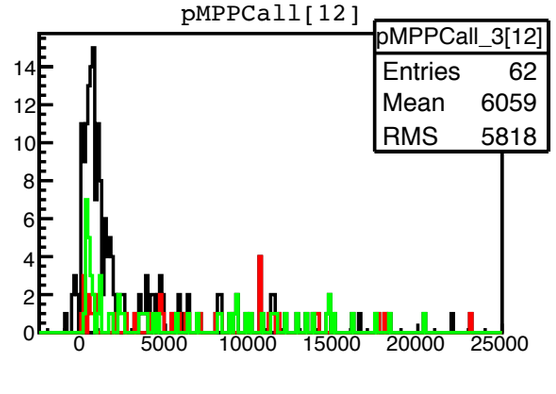


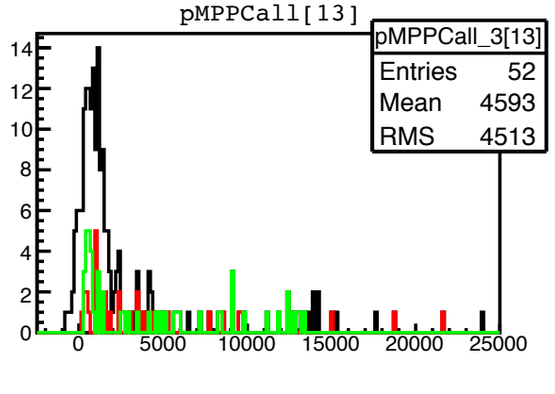


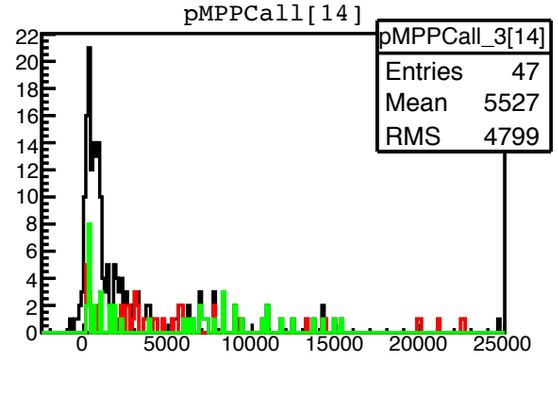


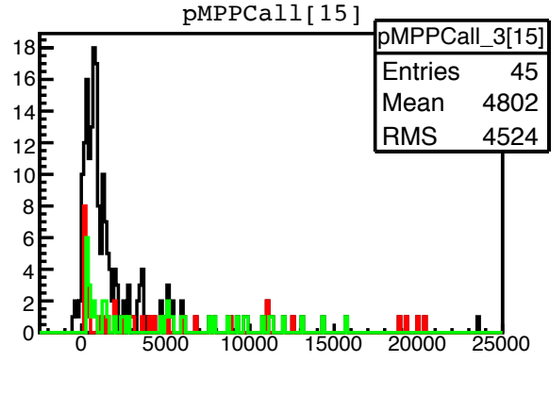






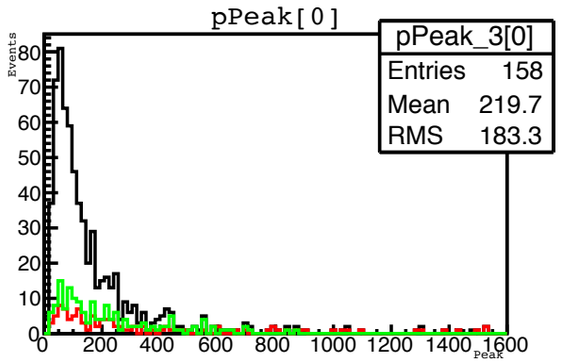


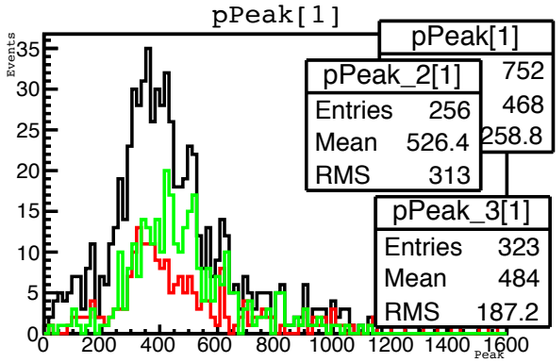


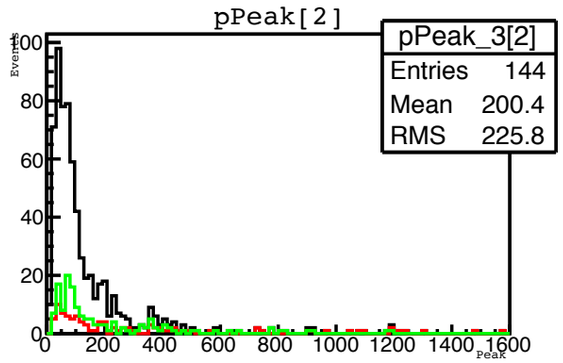


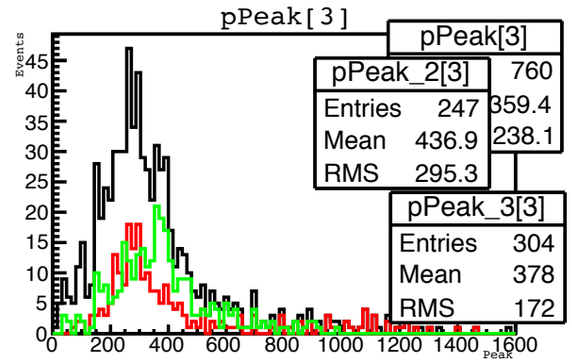
dcv1_mod02_Top_Cross

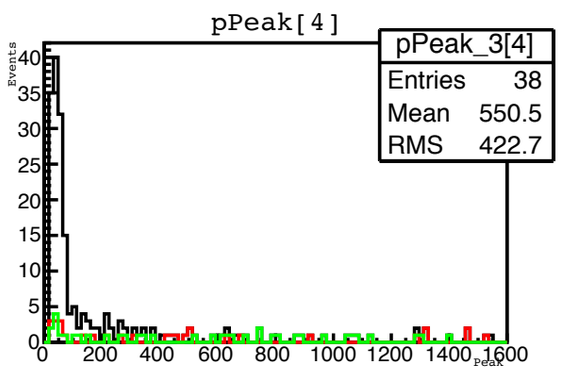
pPeak_2 : ratio ~ 8.85 pPeak_3 : ratio ~ 14.91

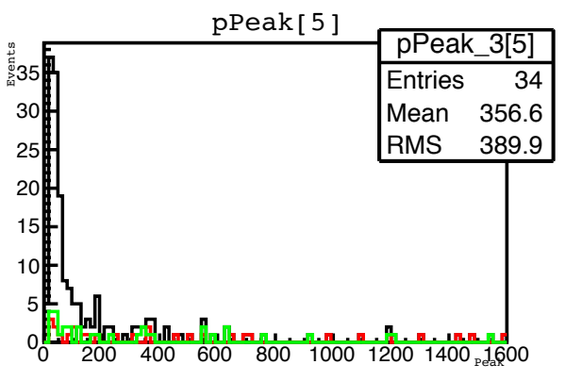


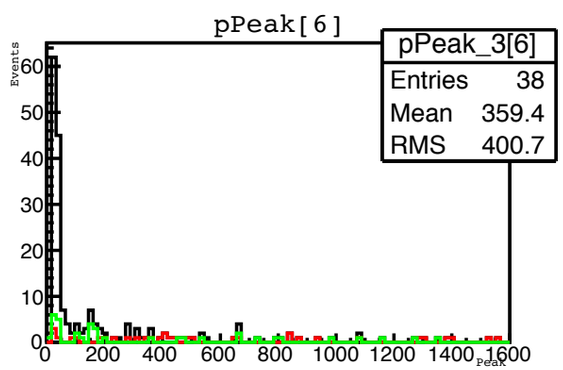


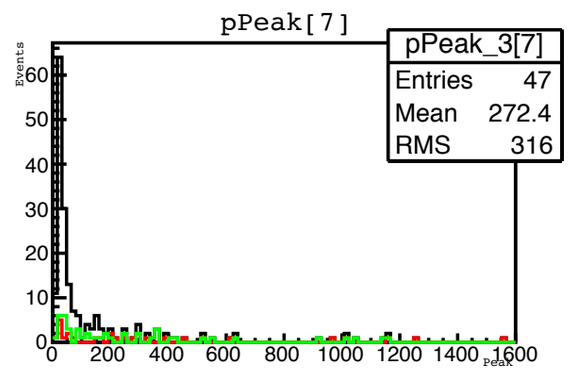


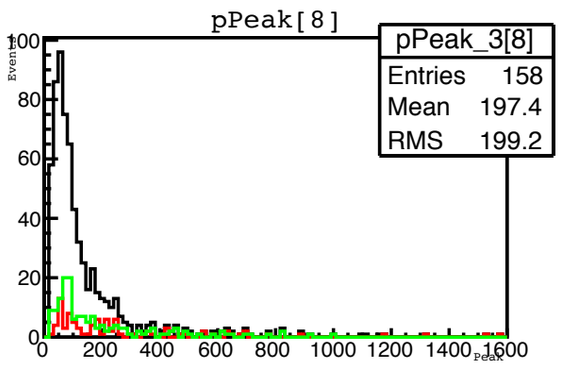


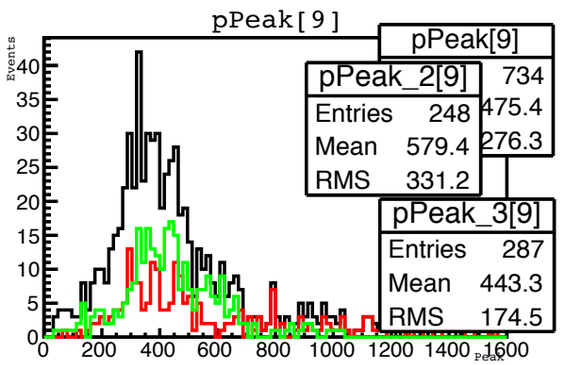


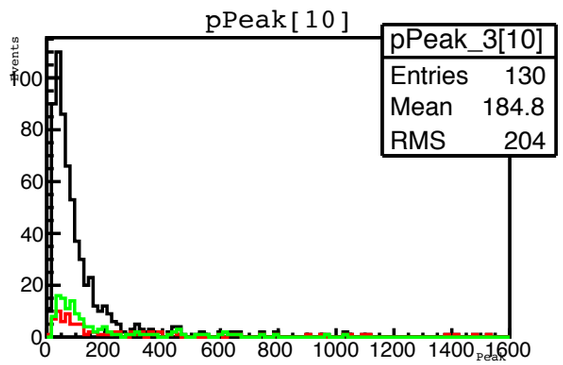


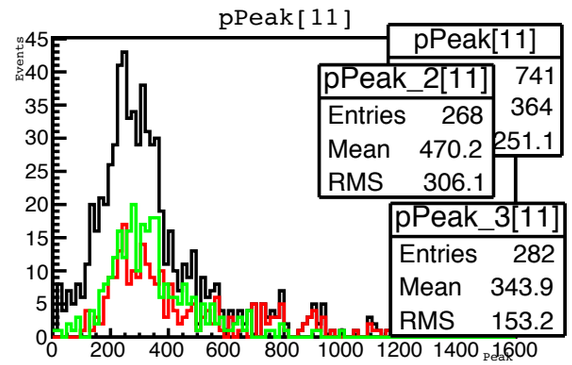


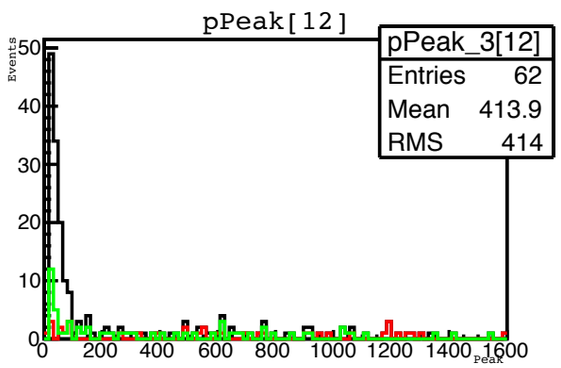


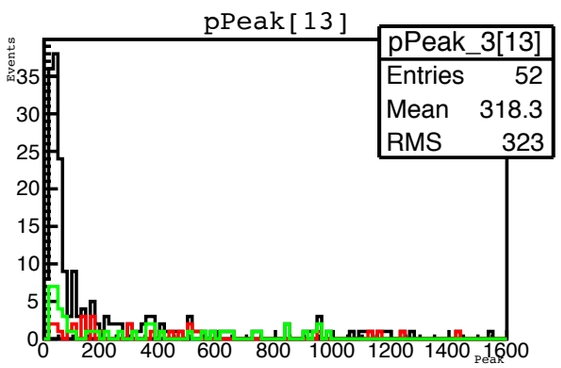


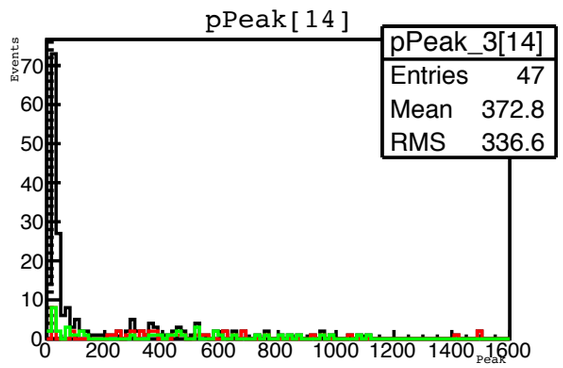


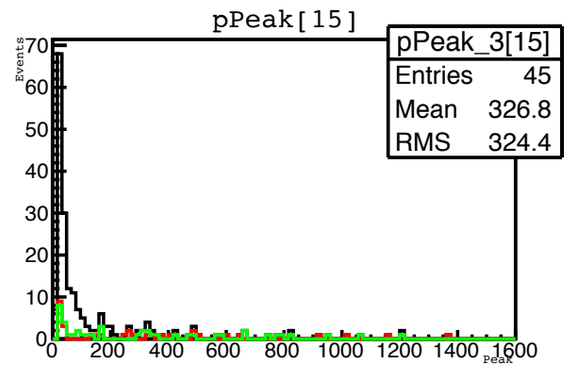












DCVModID	Event Selection	All	Ratio : ~8.85	Ratio : ~14.91
1	Only Top	242	76	107
	Top Cross	752	256	323
3	Only Top	245	84	91
	Top Cross	760	247	304
9	Only Top	241	87	100
	Top Cross	734	248	287
11	Only Top	243	86	93
	Top Cross	741	268	282

waveform check for run31374

```
Enrty(i) : 105, EventID : 640, ID : 11, Ped : 714.222, Time : 27.8241, Peak : 503, ADC : 4061.78, Ratio: 8
Enrty(i) : 286, EventID : 544, ID : 10, Ped : 743.889, Time : 28.5842, Peak : 488, ADC : 4227.12, Ratio: 8
Enrty(i) : 286, EventID : 544, ID : 15, Ped : 802.445, Time : 28.4231, Peak : 1221, ADC : 10132.6, Ratio: 8
Enrty(i) : 413, EventID : 56, ID : 23, Ped : 565.556, Time : 29.8051, Peak : 366, ADC : 3220.44, Ratio: 8
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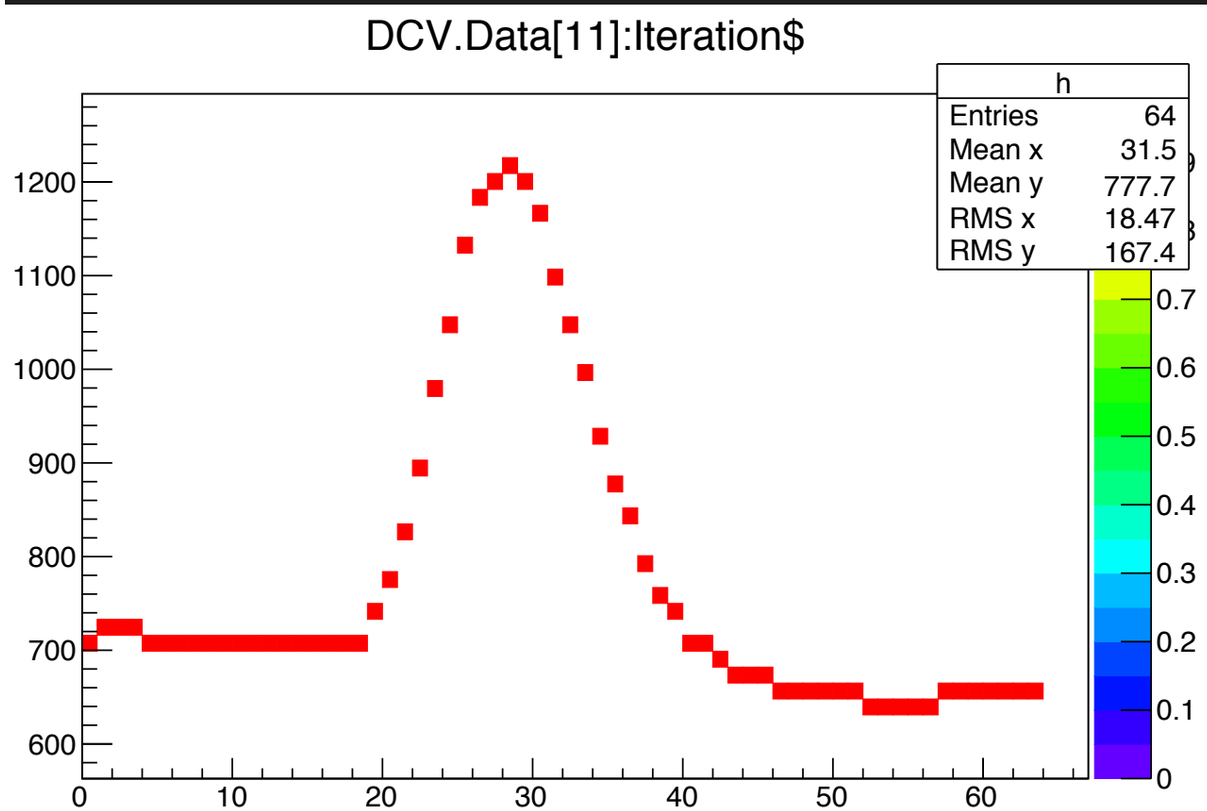

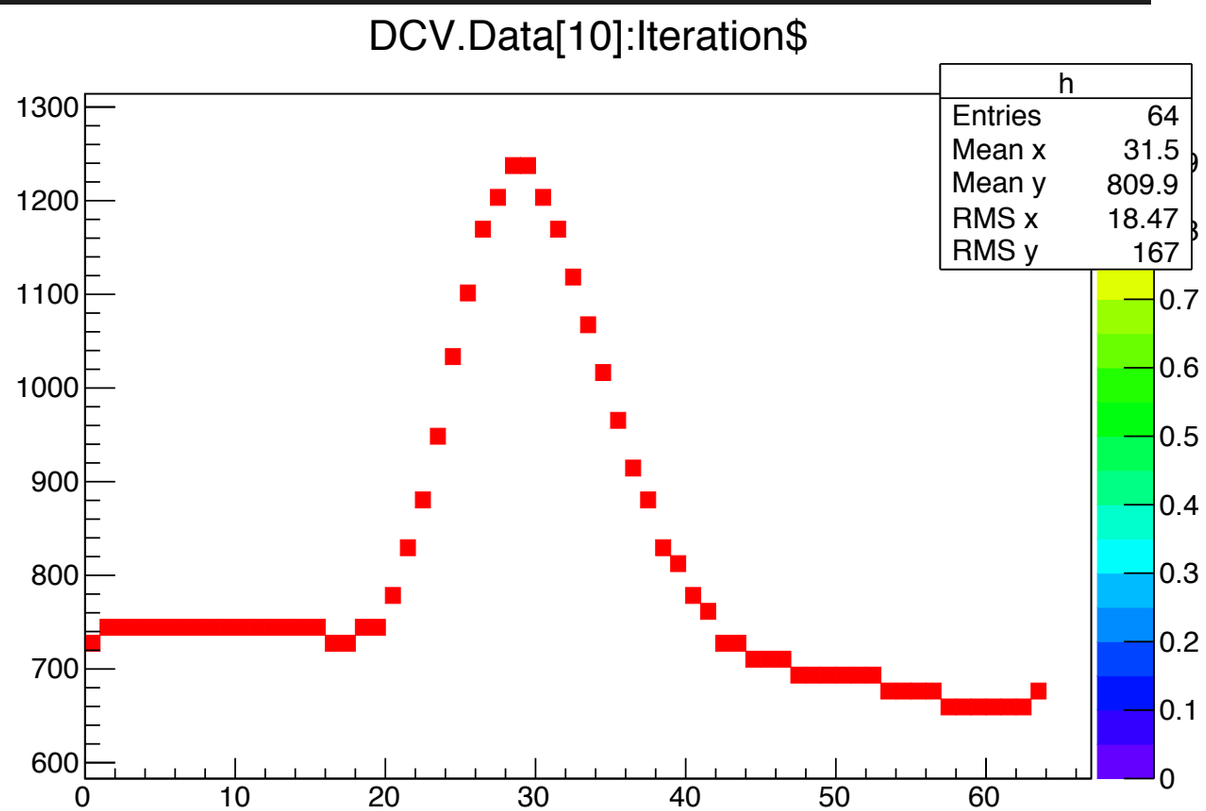

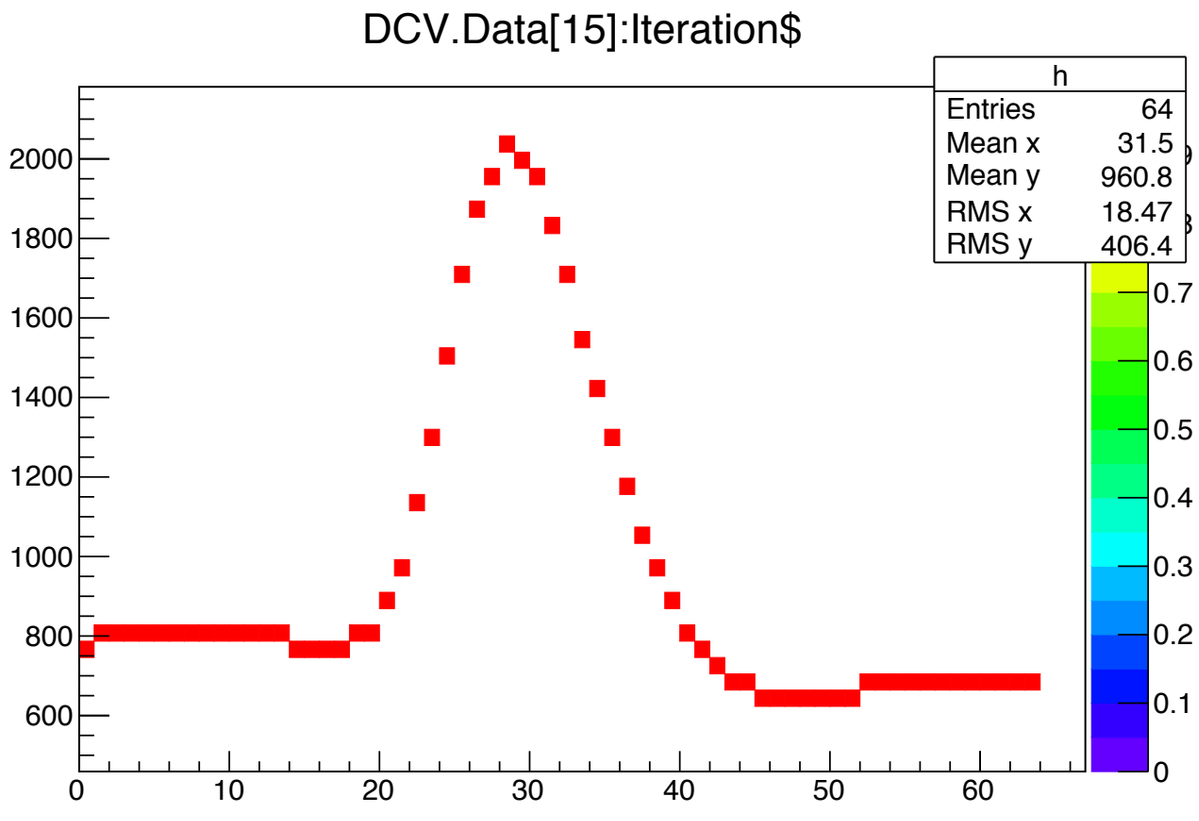

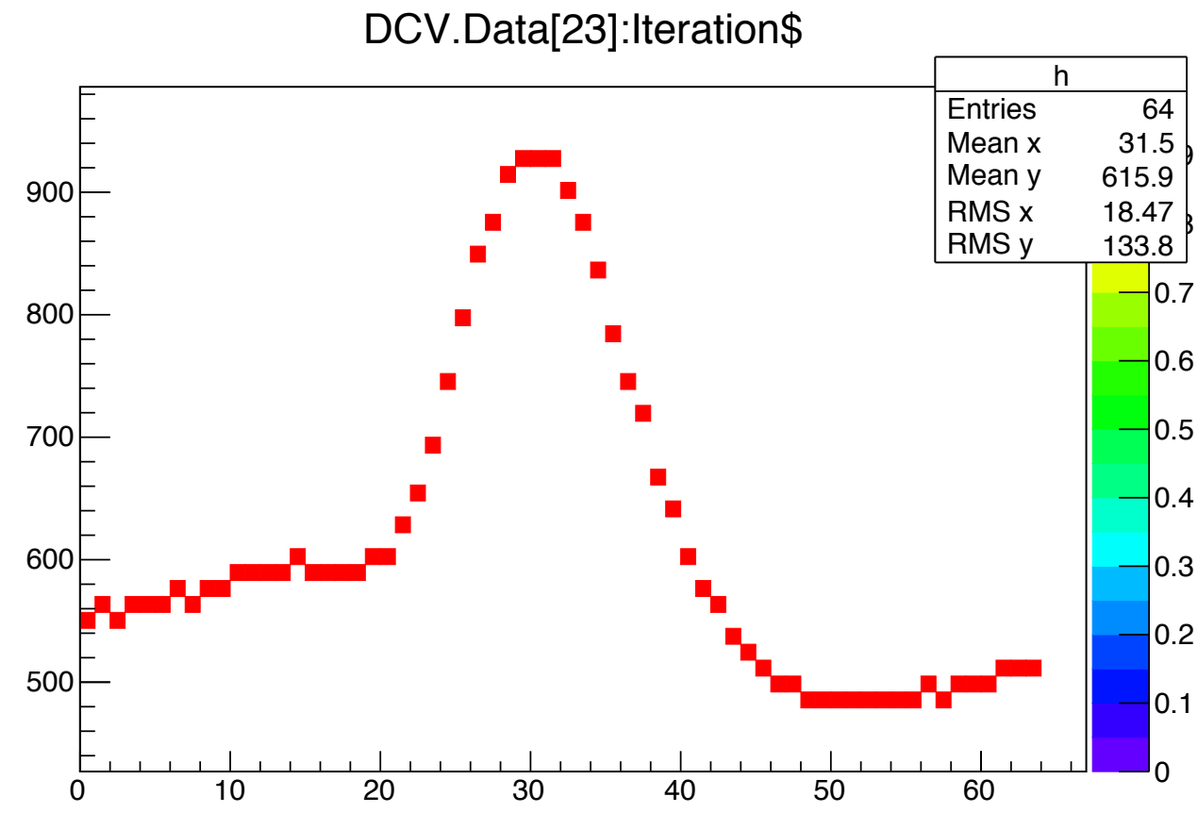

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Enrty(i) : 98, EventID : 472, ID : 12, Ped : 675.778, Time : 29.1579, Peak : 437, ADC : 7017.22, Ratio: 16
Enrty(i) : 104, EventID : 616, ID : 29, Ped : 497.889, Time : 29.5794, Peak : 454, ADC : 7378.12, Ratio: 16
Enrty(i) : 105, EventID : 640, ID : 13, Ped : 751.333, Time : 28.4048, Peak : 149, ADC : 2481.67, Ratio: 16
Enrty(i) : 286, EventID : 544, ID : 14, Ped : 676.889, Time : 28.5667, Peak : 265, ADC : 4481.12, Ratio: 16
```
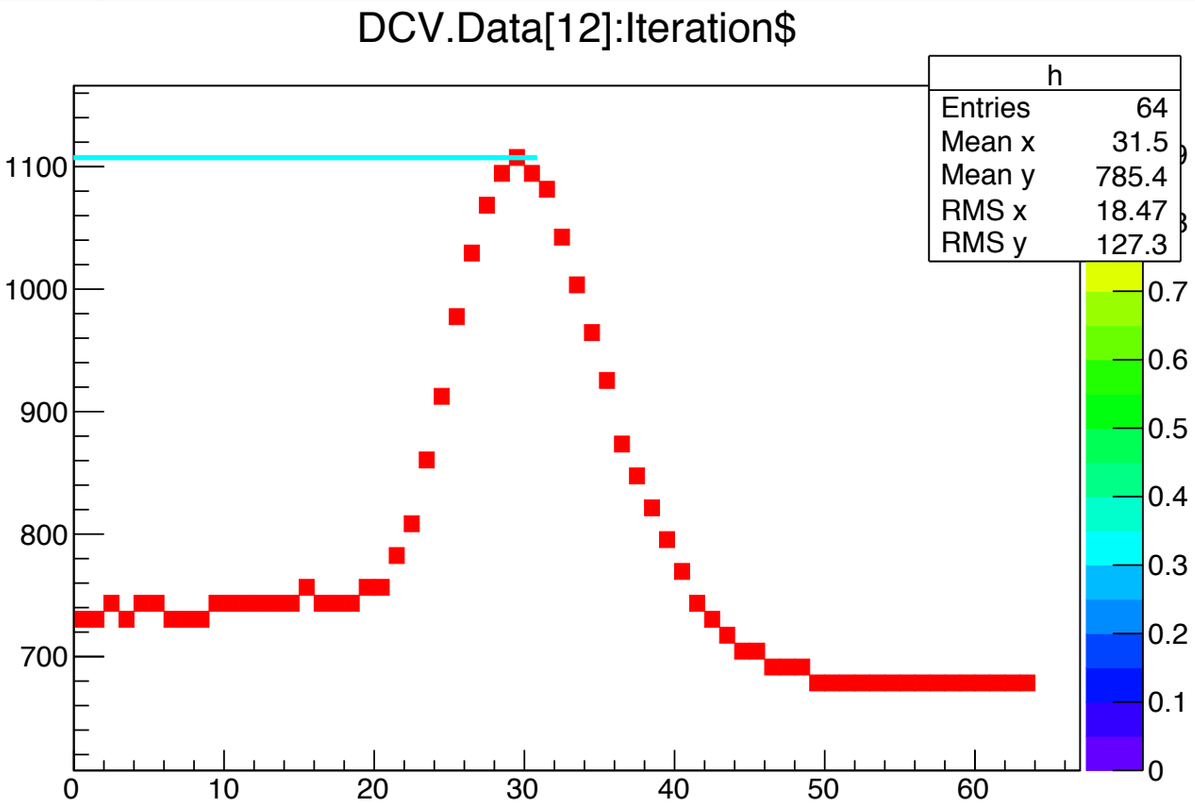
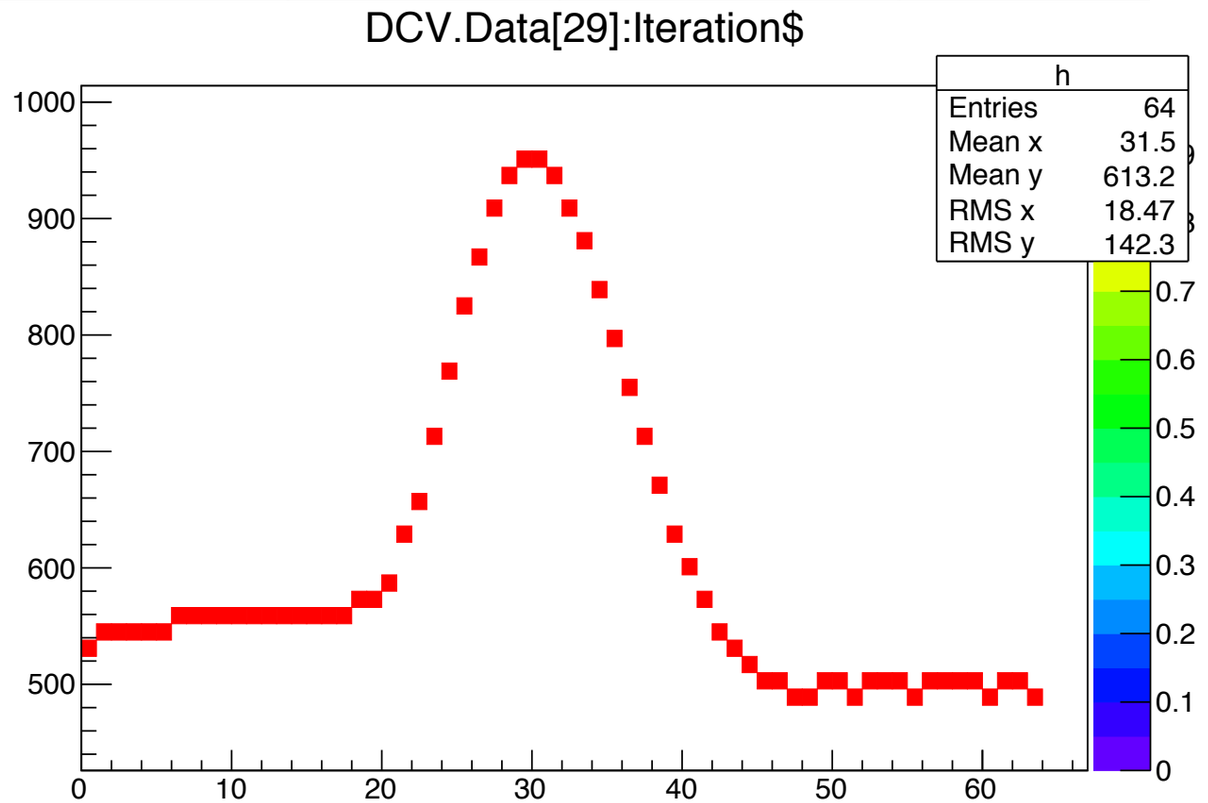
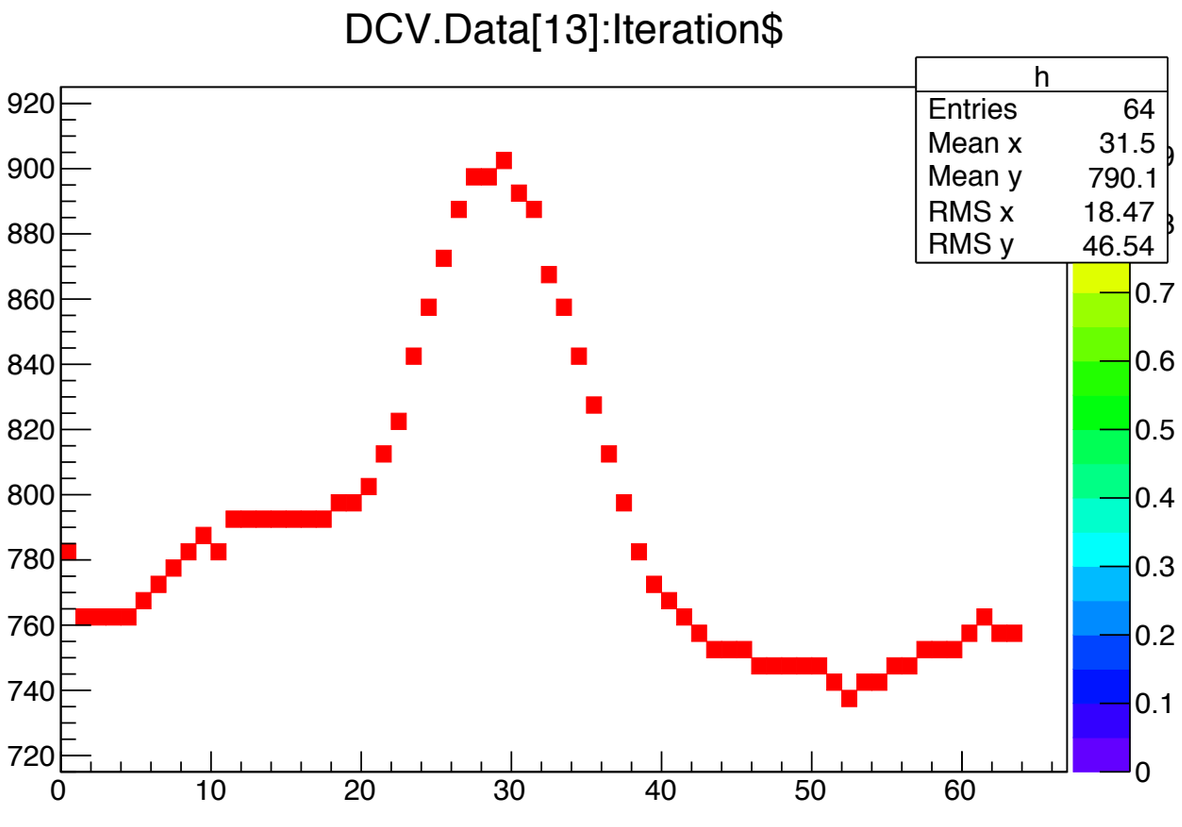
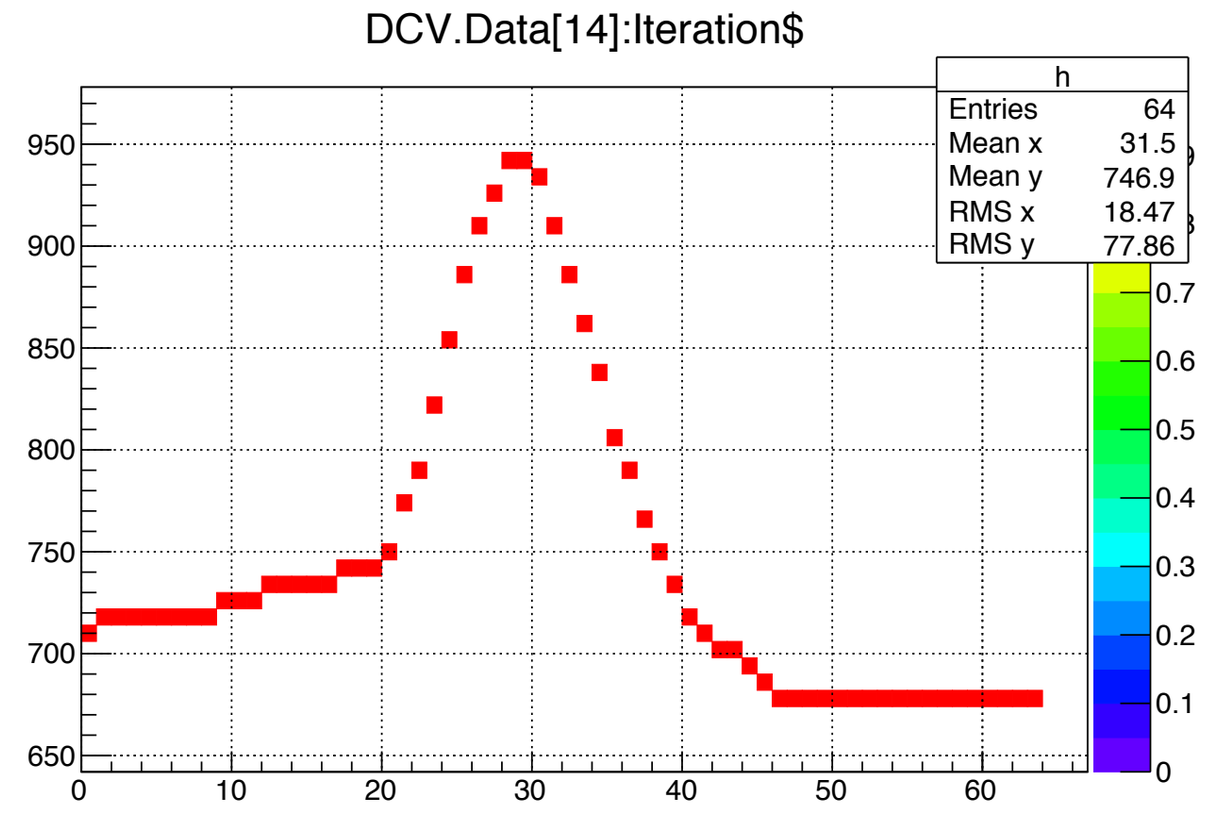









CC05

※ See CC05 from Upstream

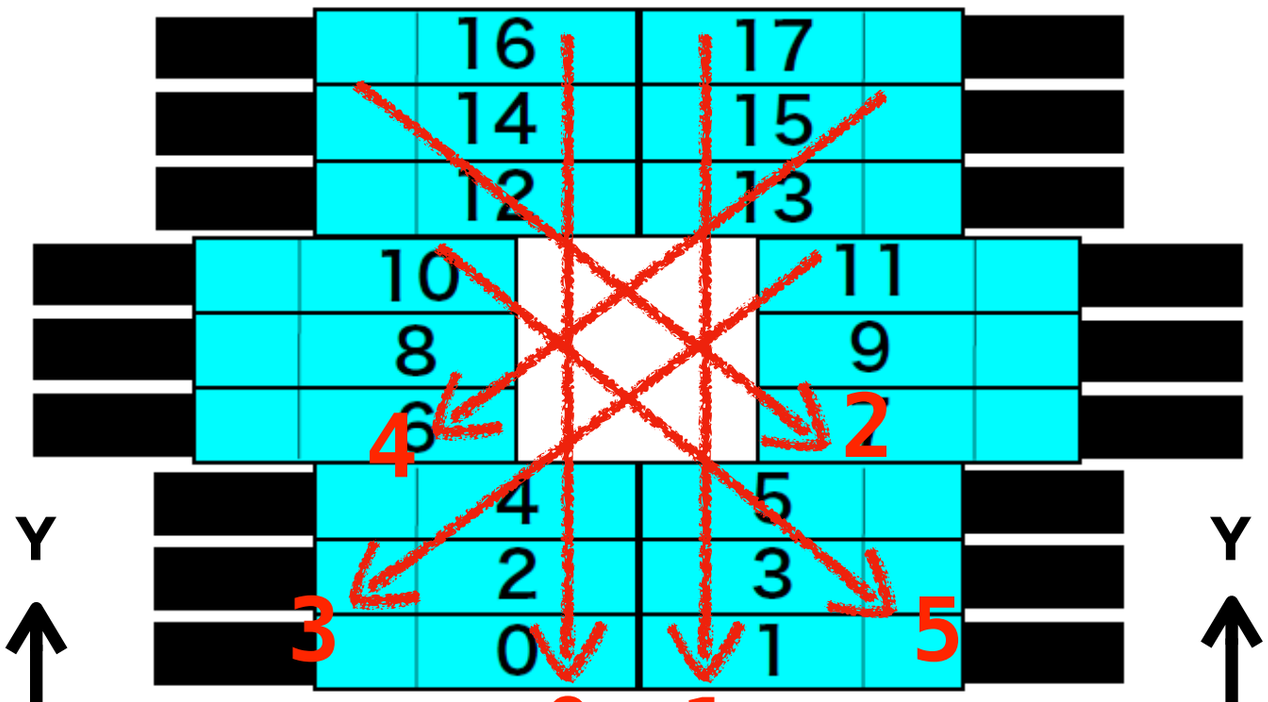
North

South

52	34	16
50	32	14
48	30	12

46	28	10
44	26	8
42	24	6

40	22	4
38	20	2
36	18	0



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

Flag Number

17	35	53
15	33	51
13	31	49

11	29	47
9	27	45
7	25	43

5	23	41
3	21	39
1	19	37

Y

Z

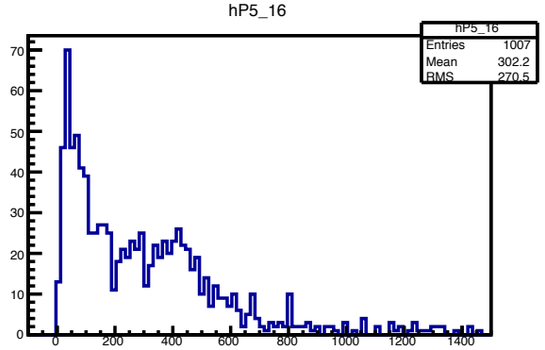
Y

Z

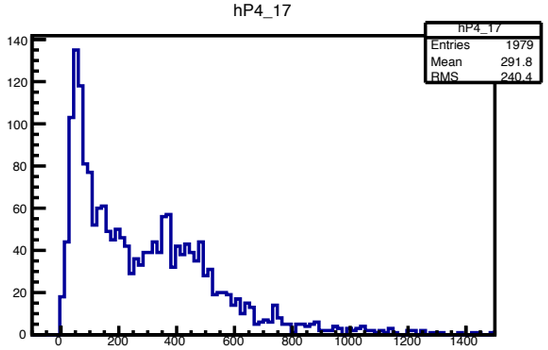
Flag Number	MPPC Channel
0	21, 23, 28, 30
1	20, 22, 29, 31
2	24, 26
3	25, 27
4	17, 19
5	16, 18

Pulse Height Distribution
hP(Flag)_(DCVModID)

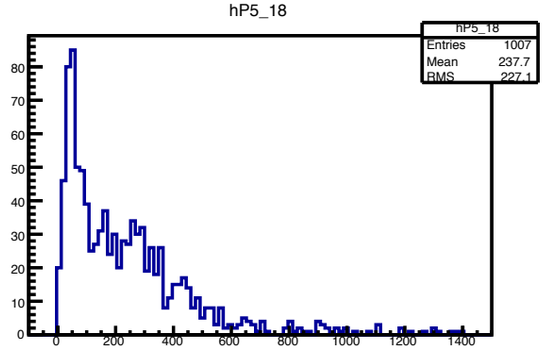
hP5_16



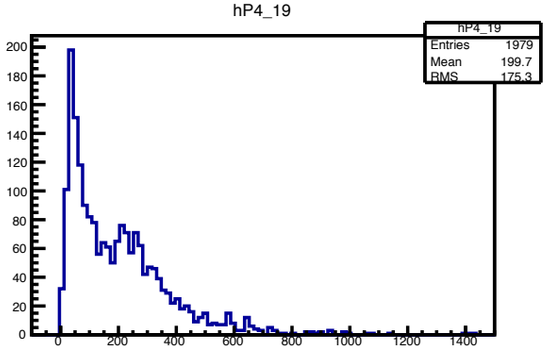
hP4_17



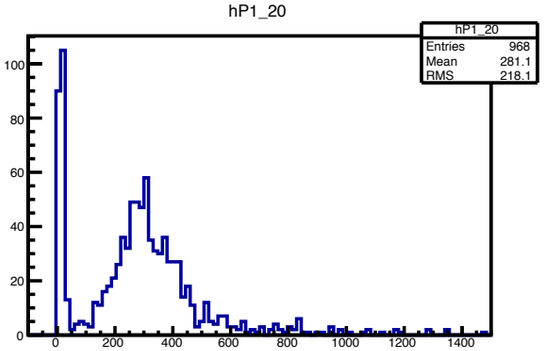
hP5_18



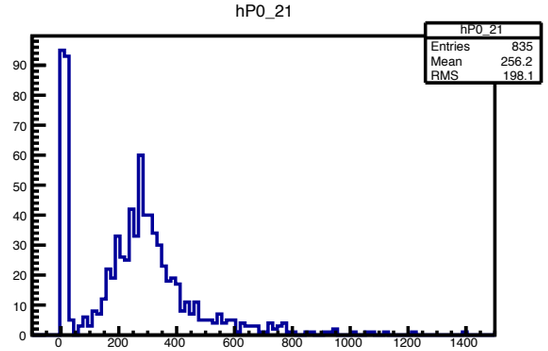
hP4_19



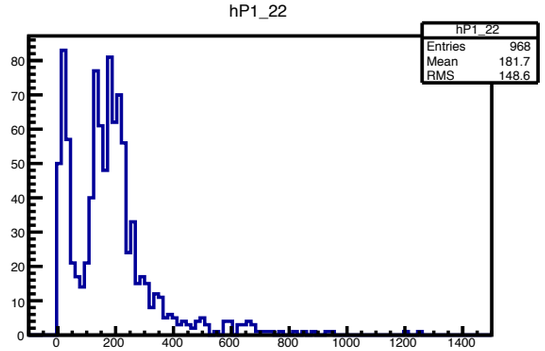
hP1_20



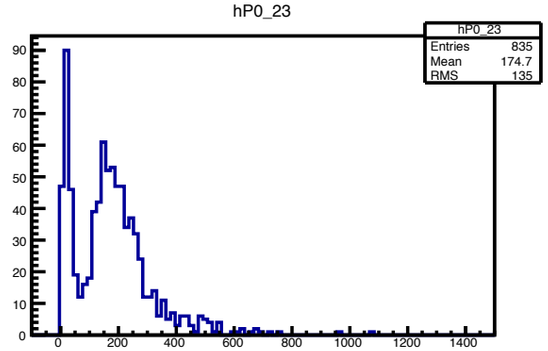
hP0_21



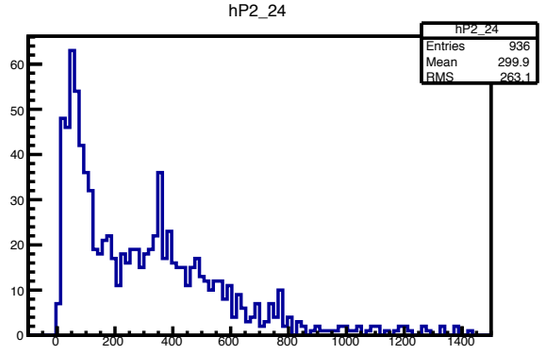
hP1_22



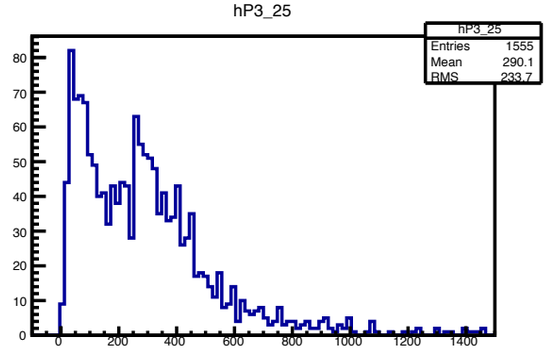
hP0_23



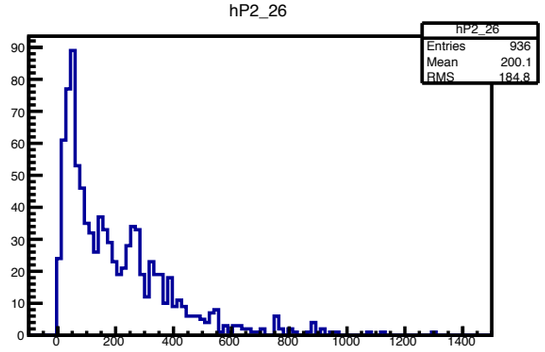
hP2_24



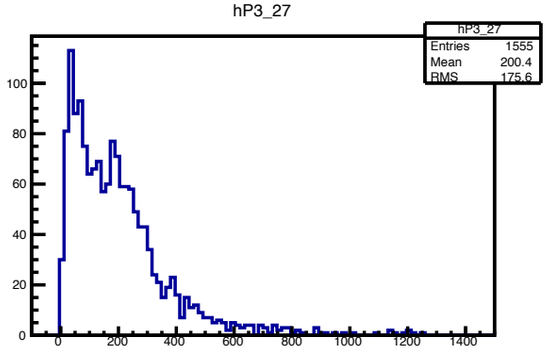
hP3_25



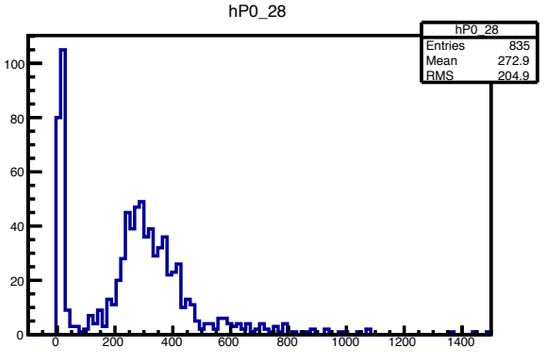
hP2_26



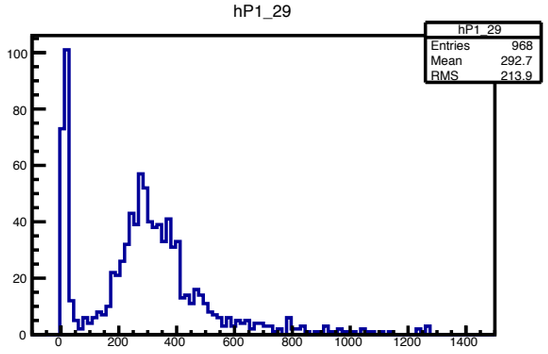
hP3_27



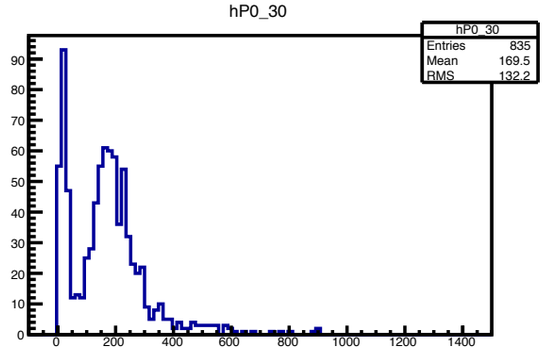
hP0_28



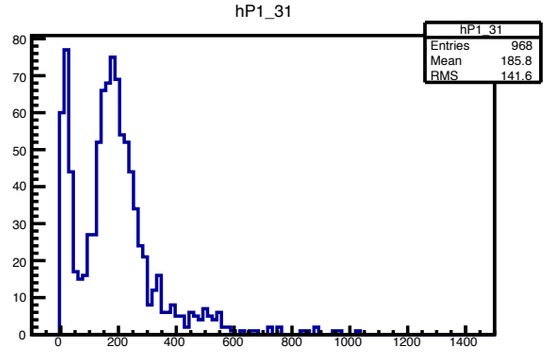
hP1_29



hP0_30

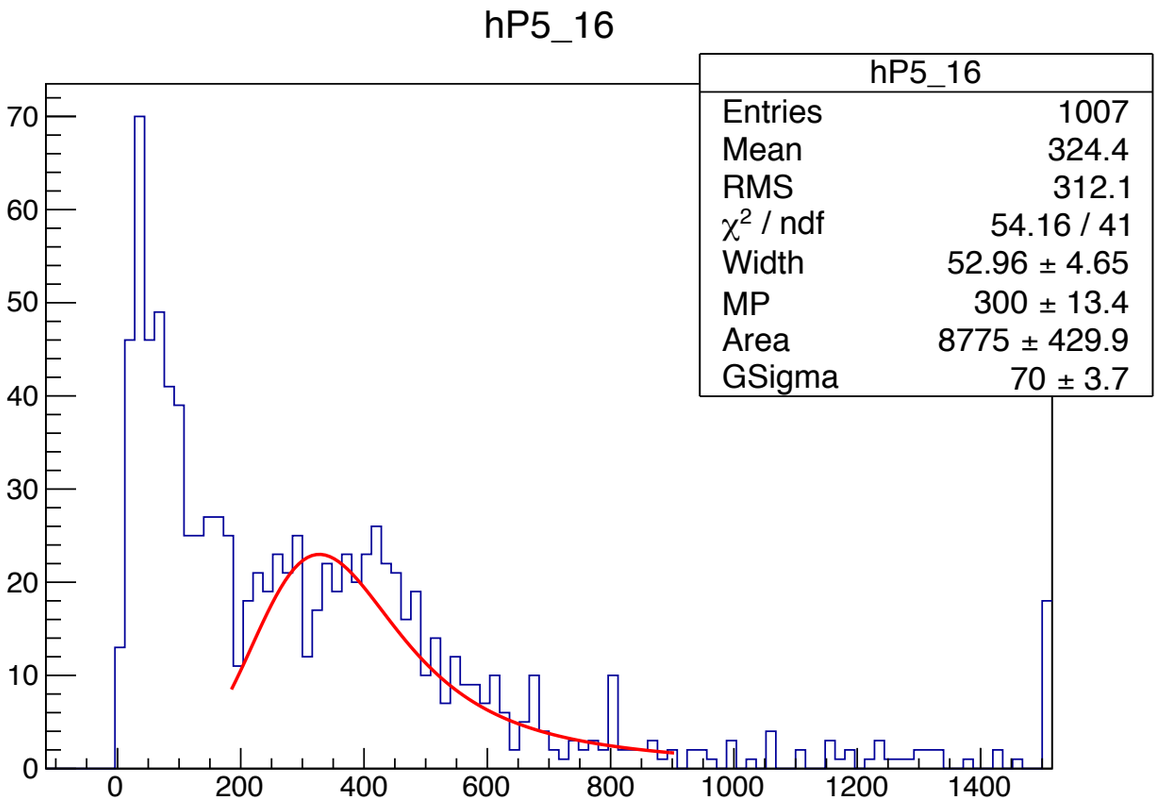


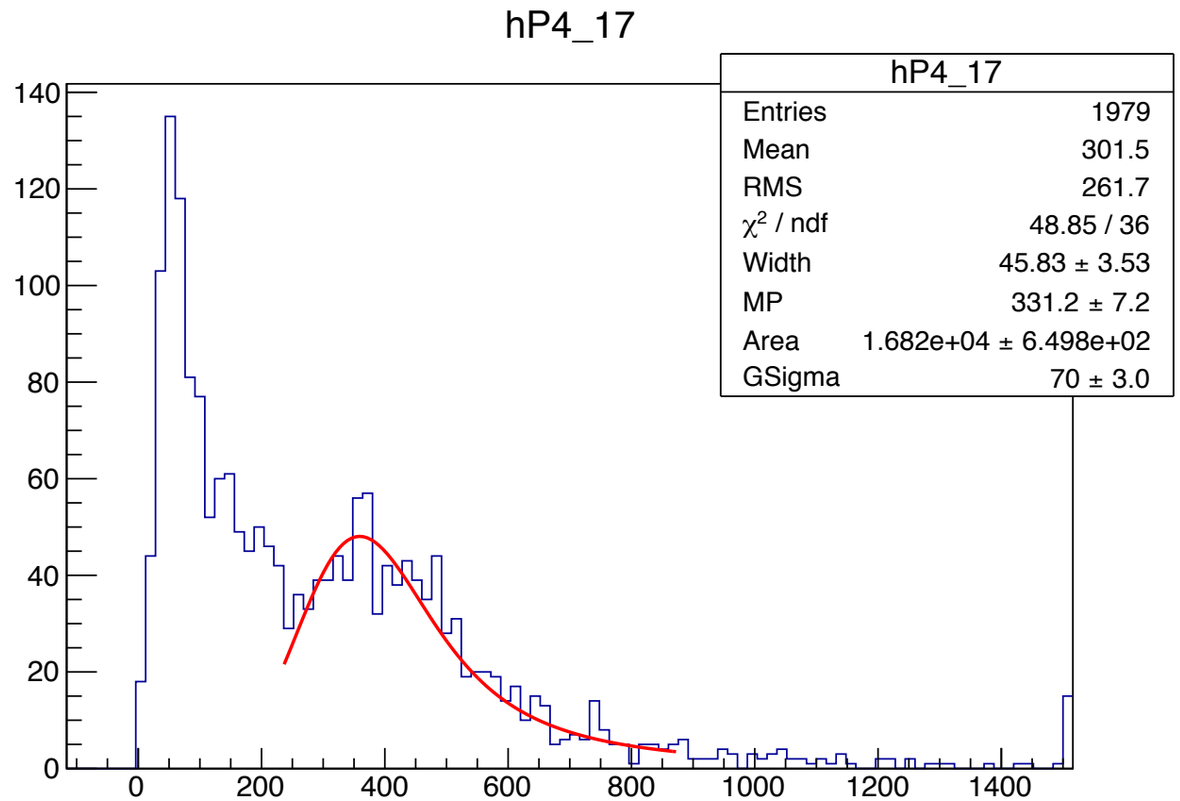
hP1_31

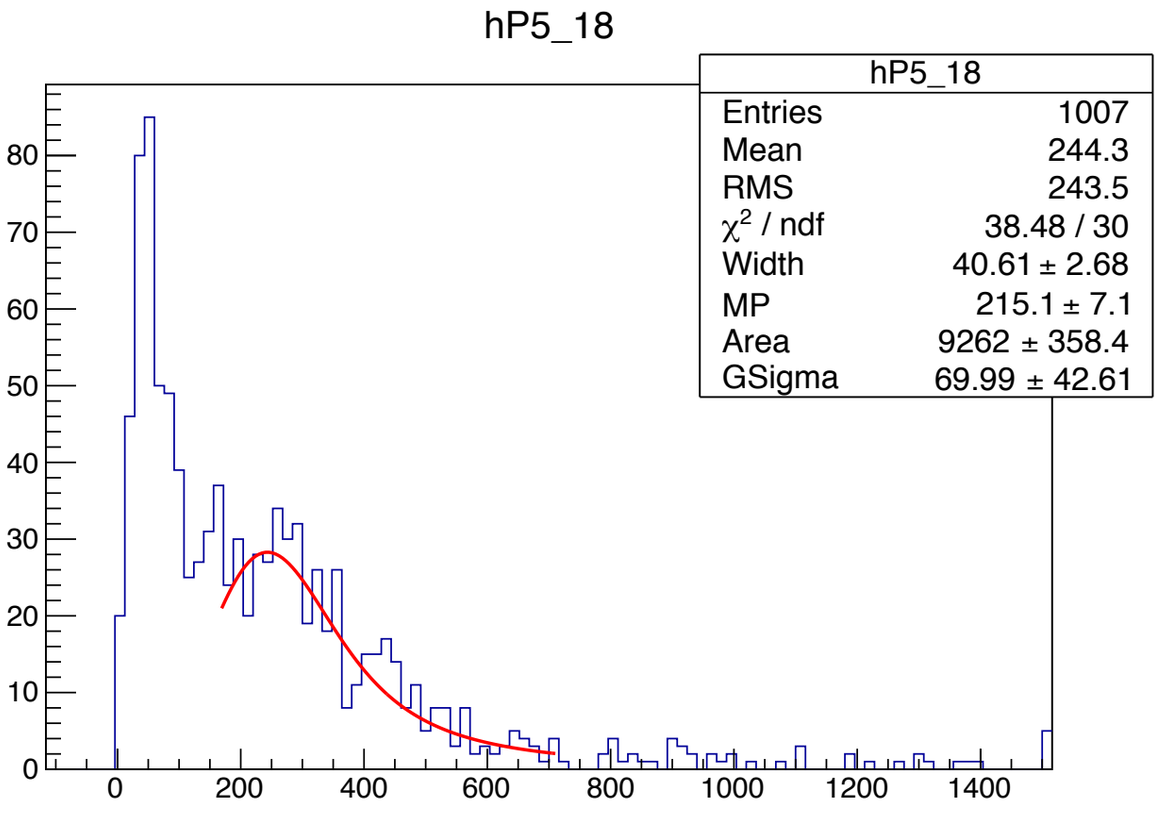


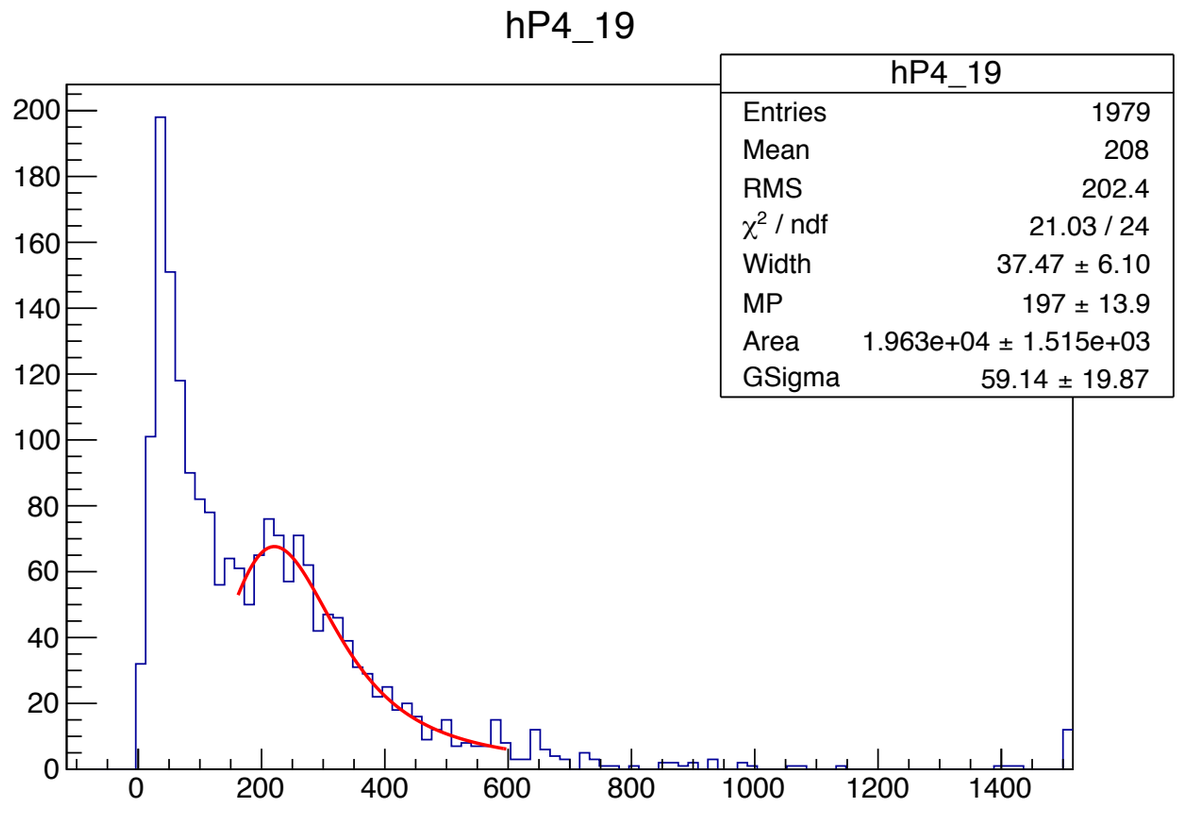
dcv2_mod0

hP(Flag)_(DCVModID)





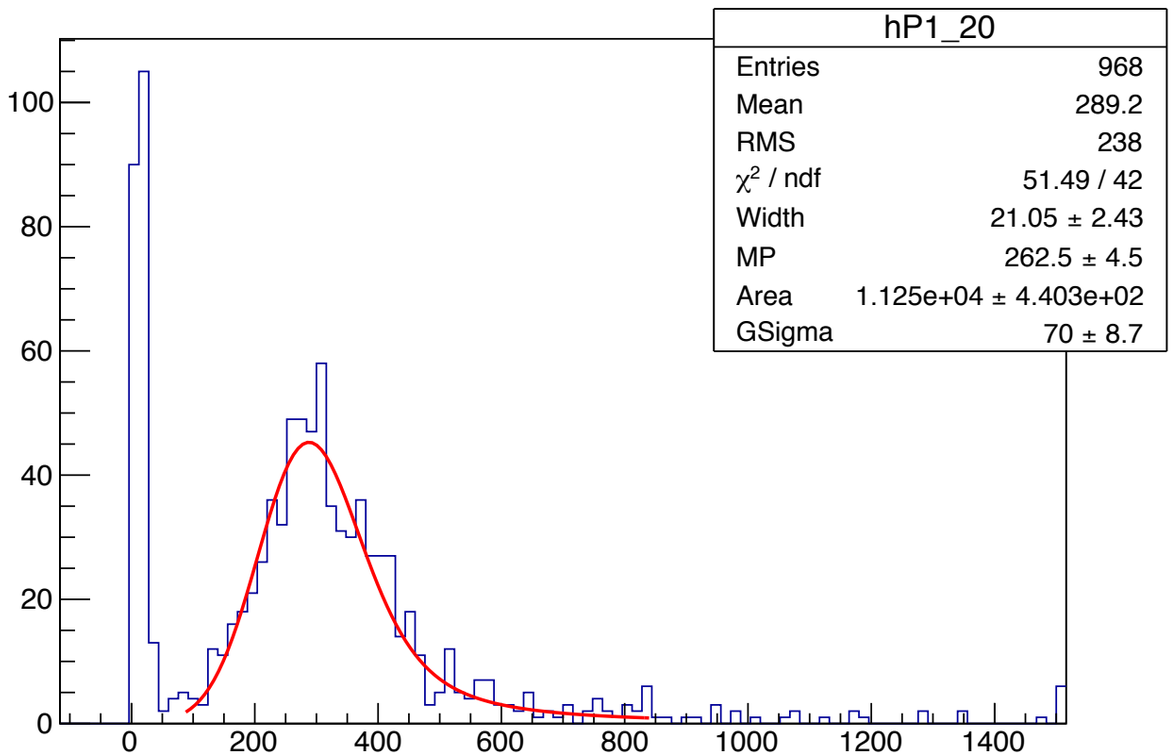




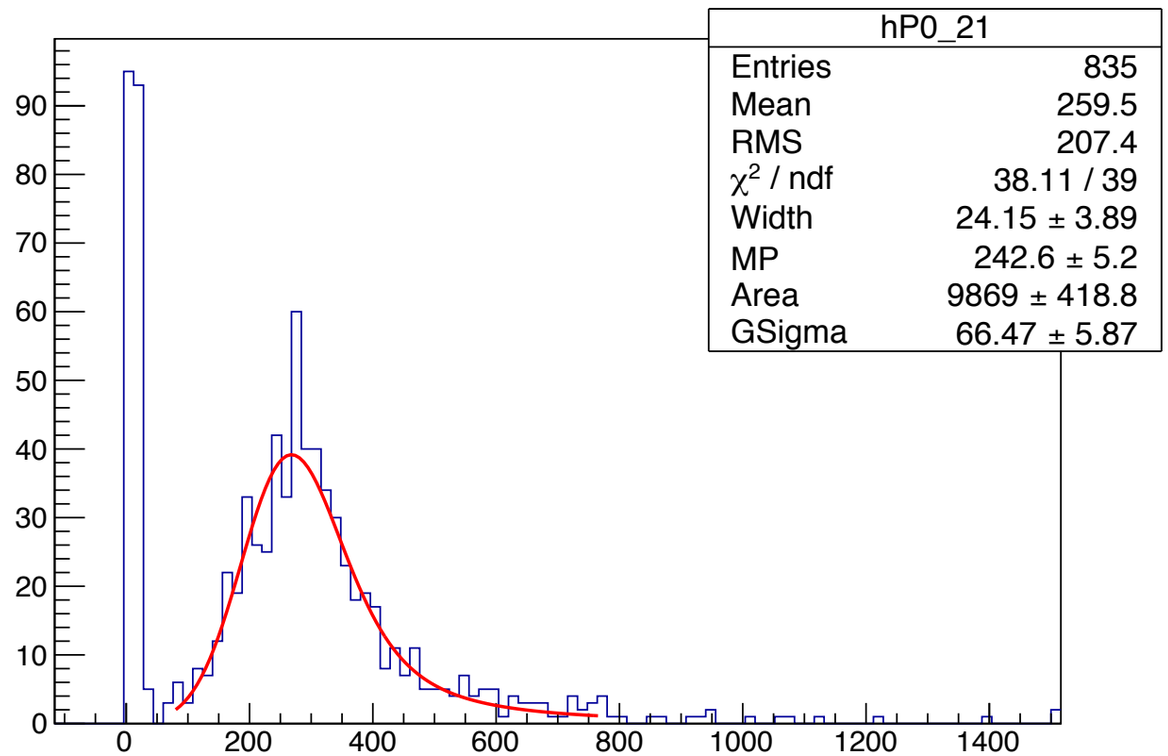
dcv2_mod1

hP(Flag)_(DCVModID)

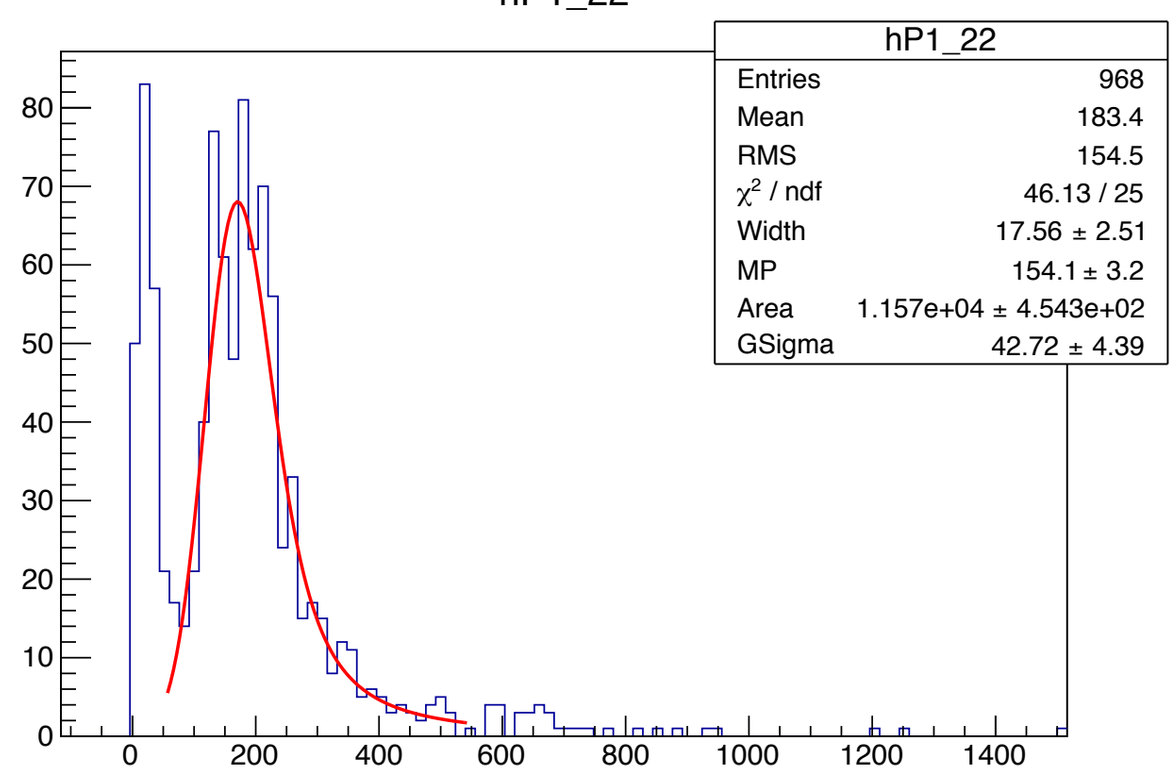
hP1_20



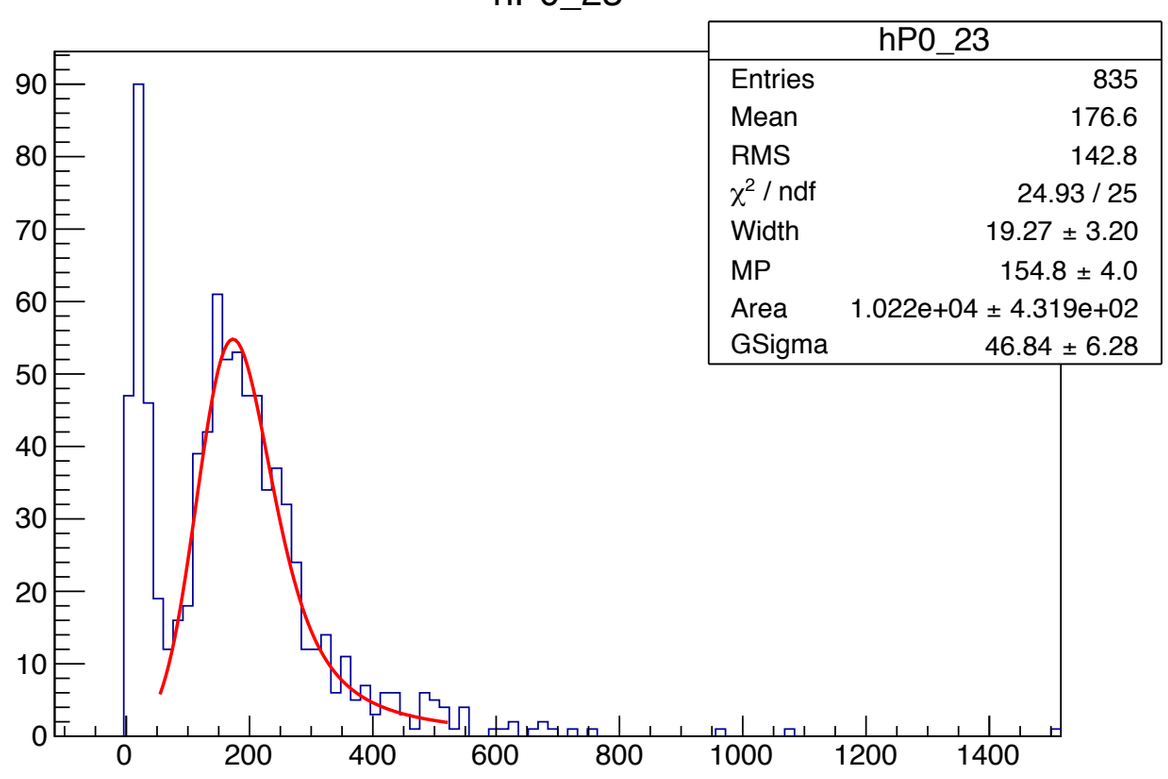
hP0_21



hP1_22



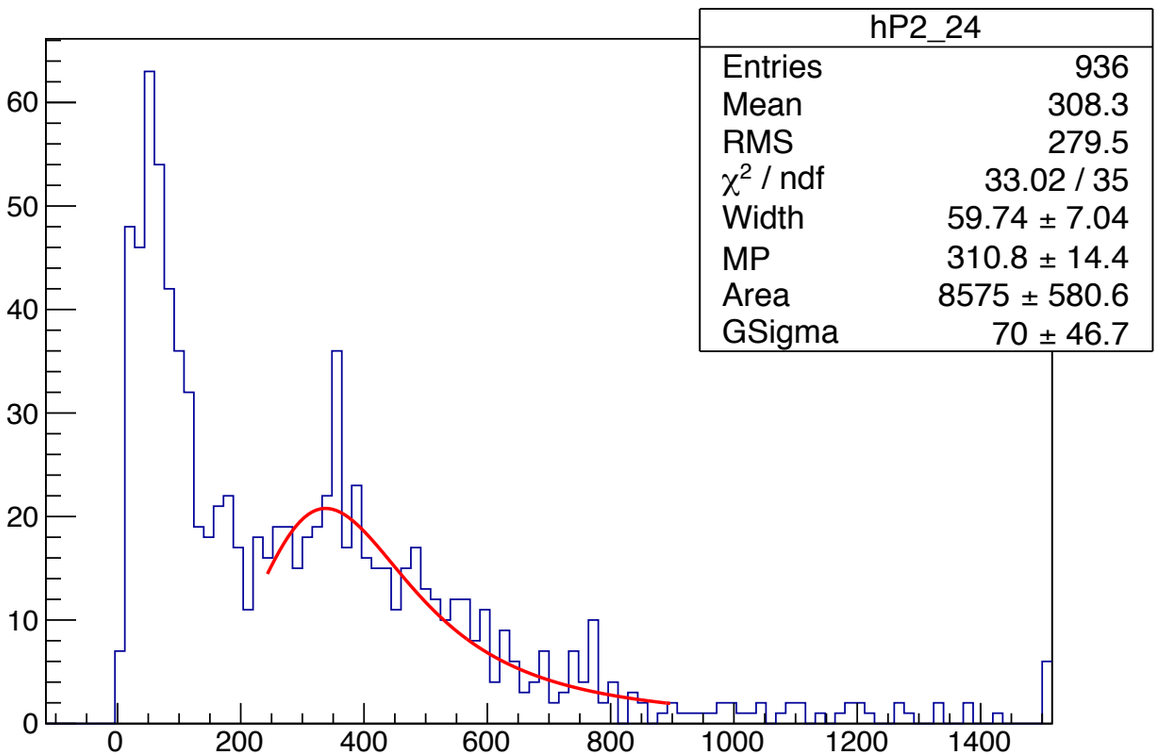
hP0_23



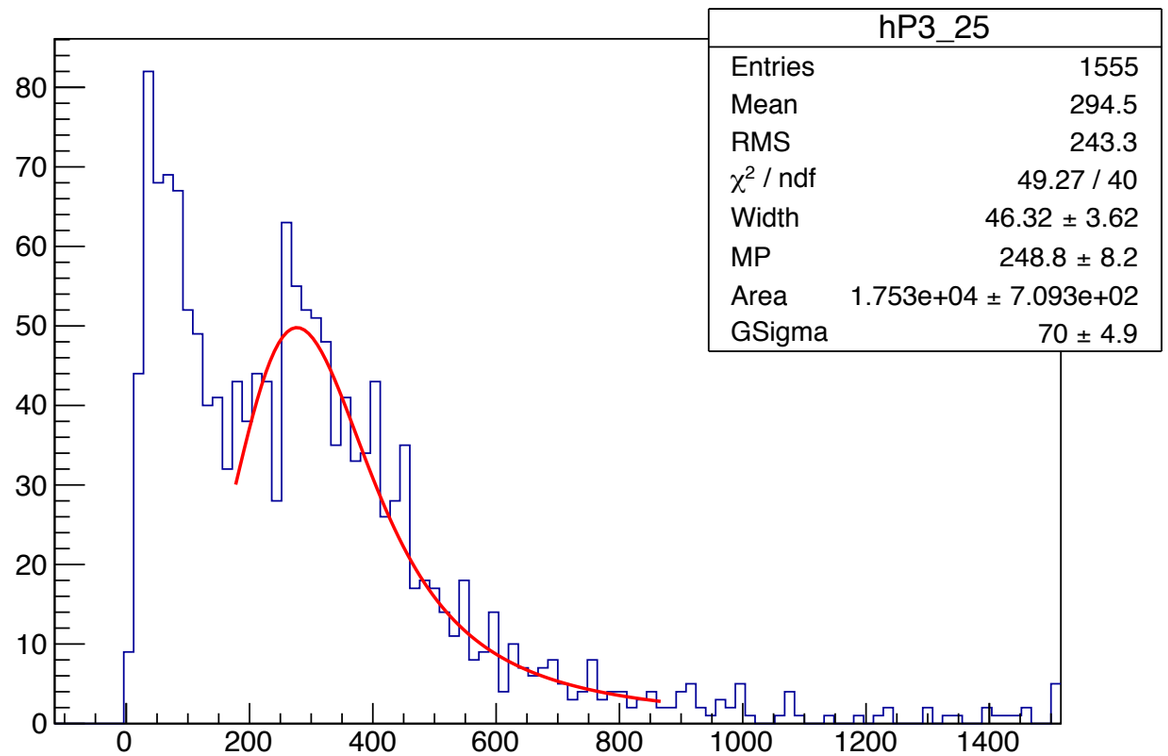
dcv2_mod2

hP(Flag)_(DCVModID)

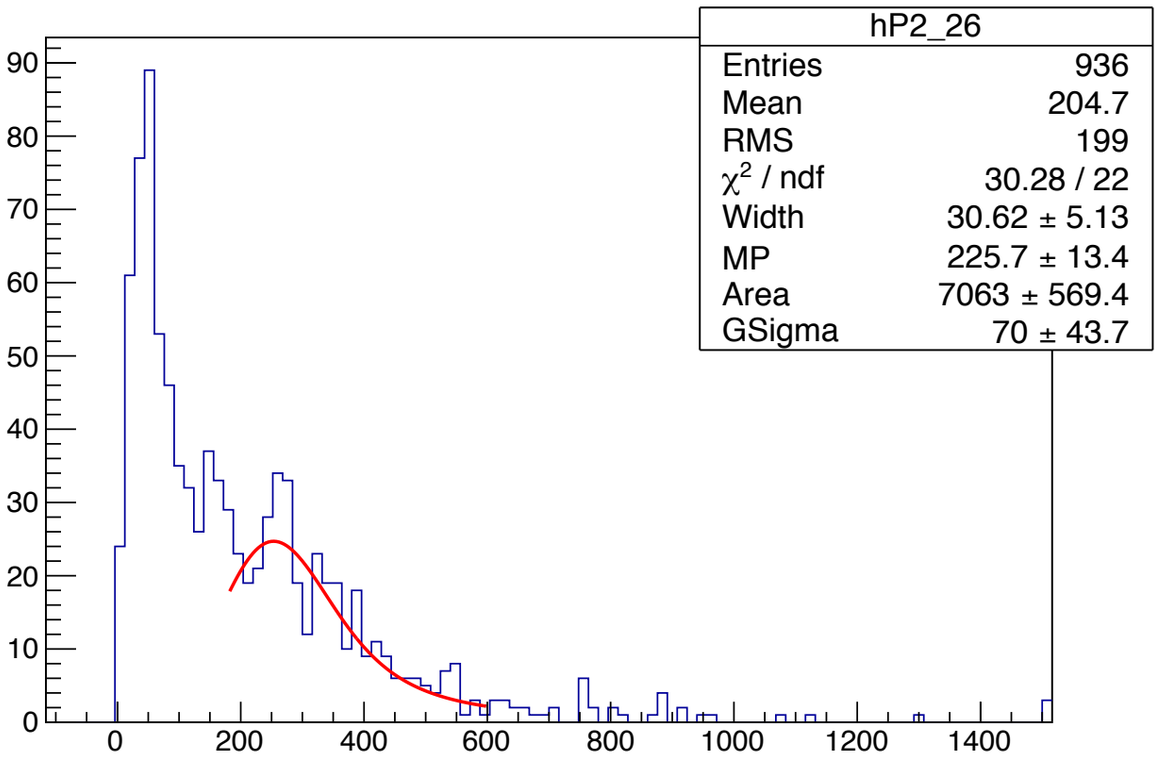
hP2_24



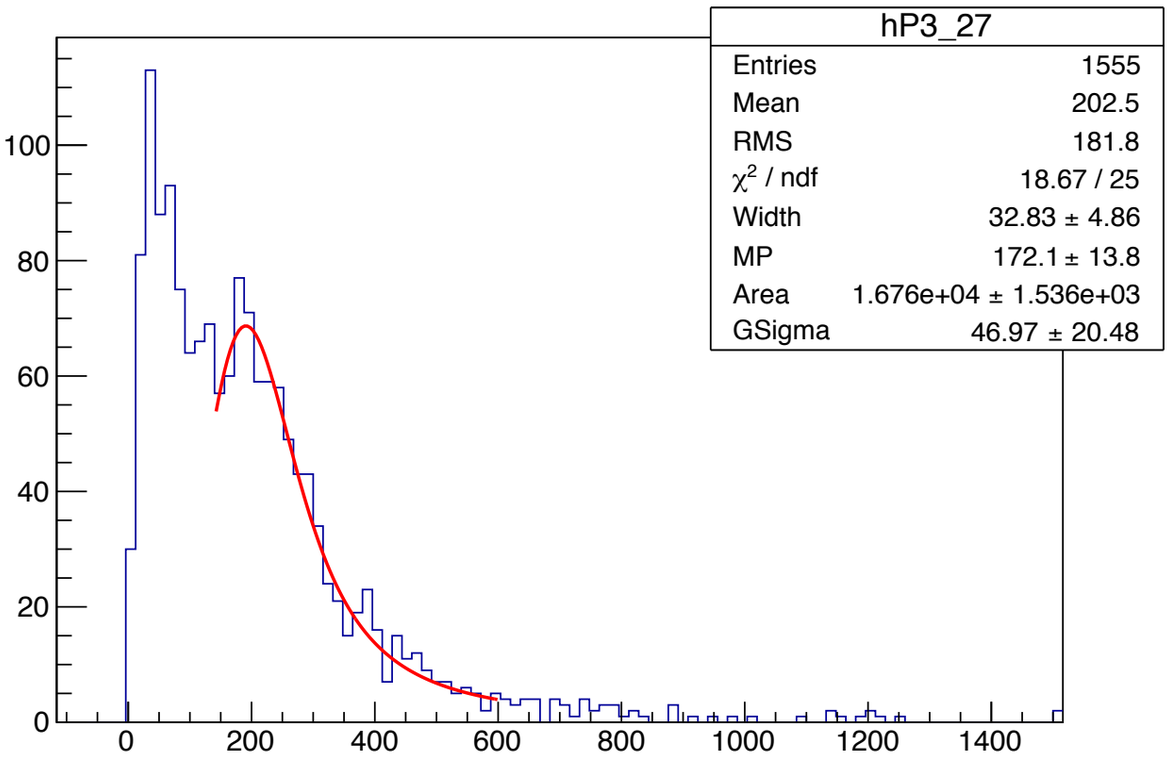
hP3_25



hP2_26



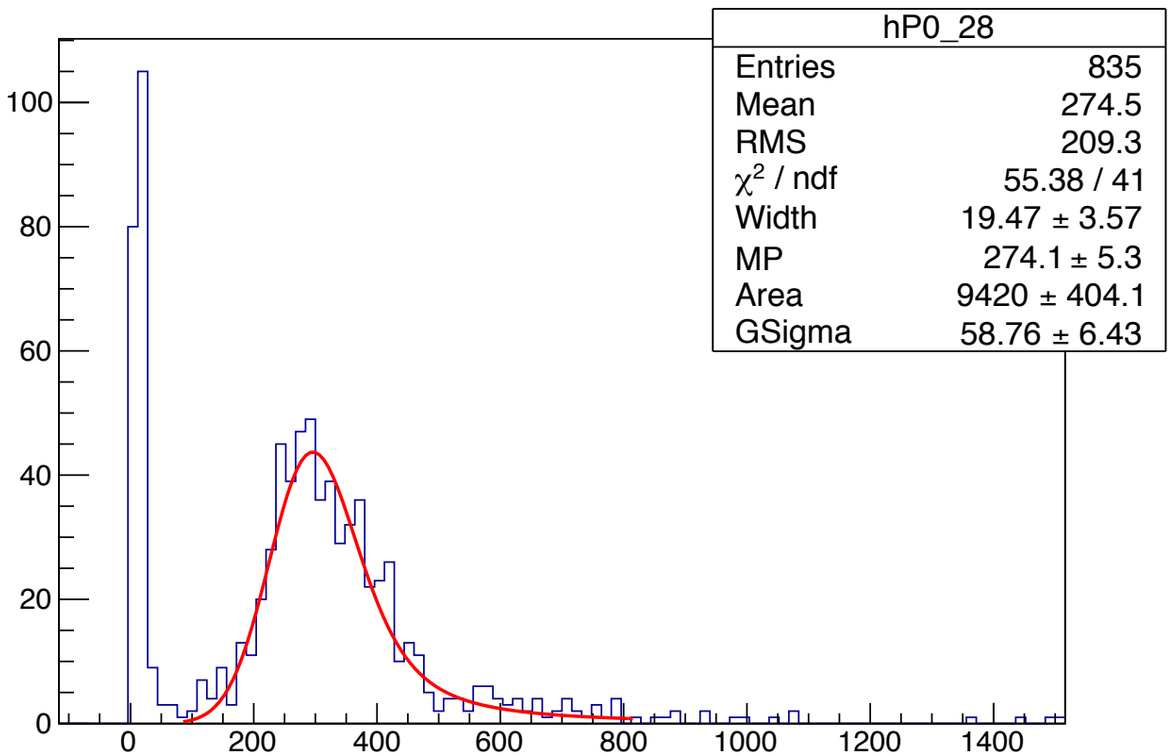
hP3_27



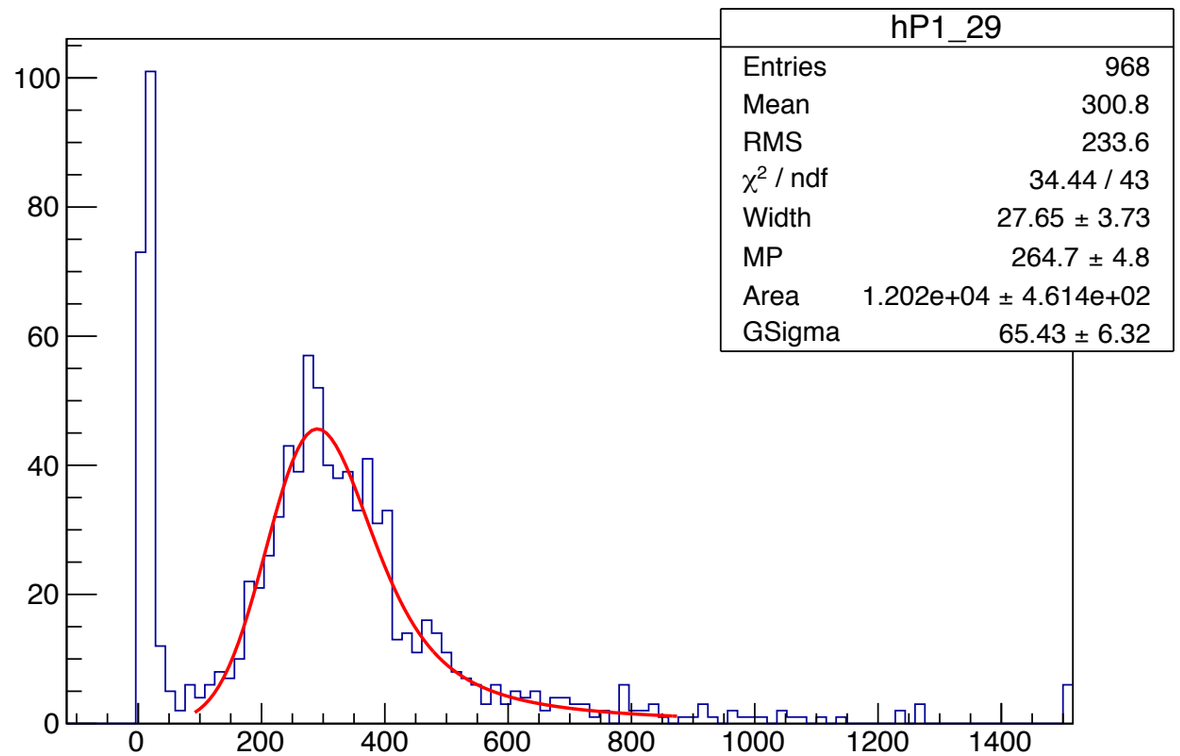
dcv2_mod3

hP(Flag)_(DCVModID)

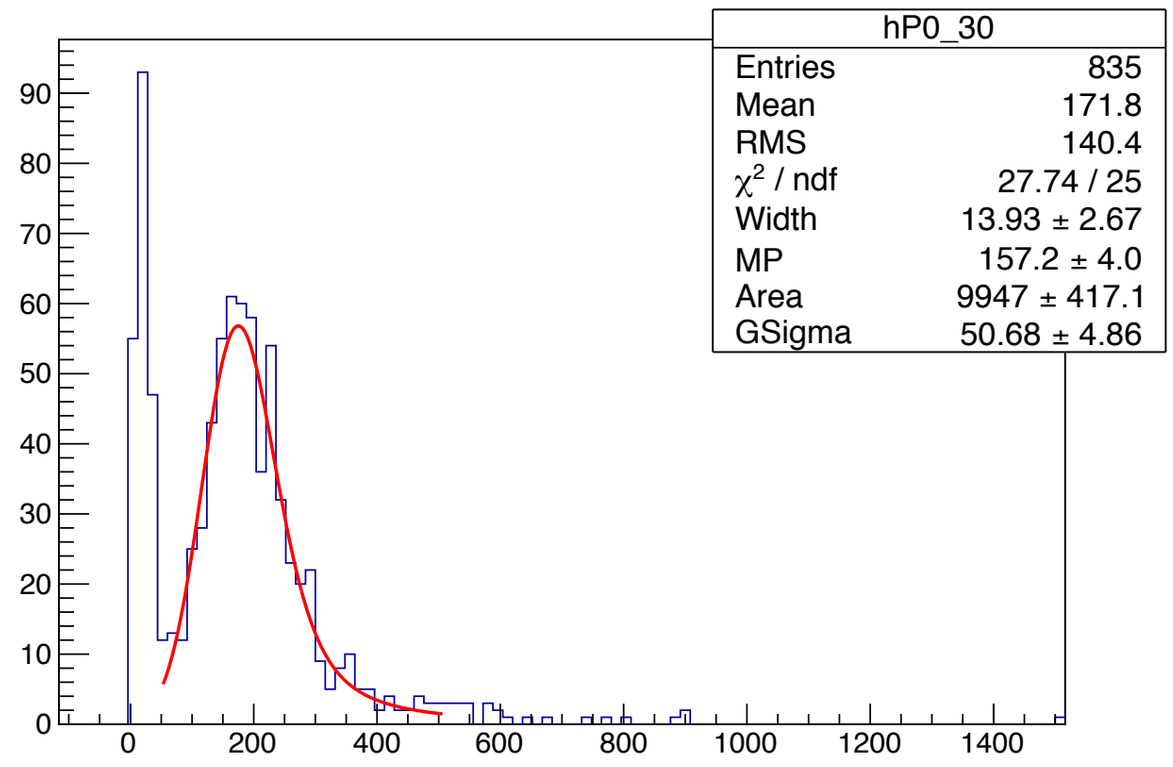
hP0_28



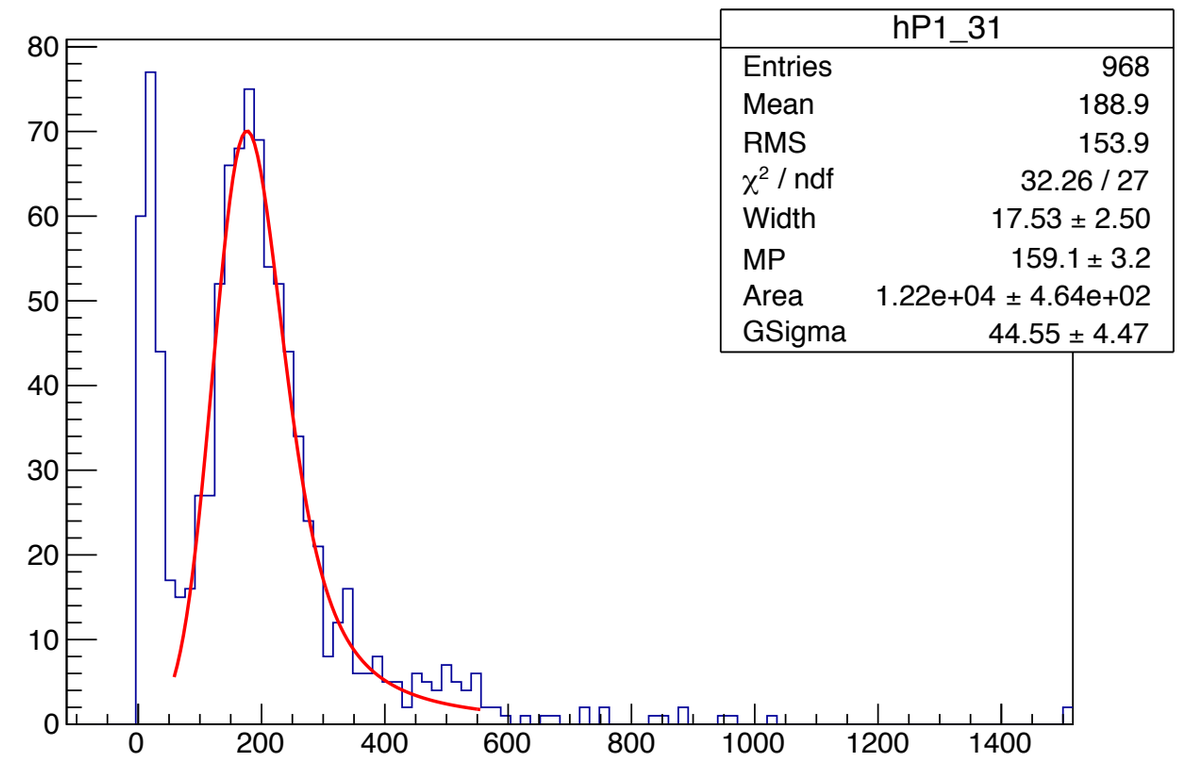
hP1_29



hP0_30



hP1_31



/home/had/hmkim/work/hmkim/run81/lim_ana/cal_dcv_calib1.C

```
float gain05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                    1.,1.,1.,1.,1.,1.,1.,1.,
                    300. ,331.2,215.1,197. ,
                    262.5,242.6,154.1,154.8,
                    310.8,248.8,225.7,172.1,
                    274.1,264.7,157.2,159.1 };
```

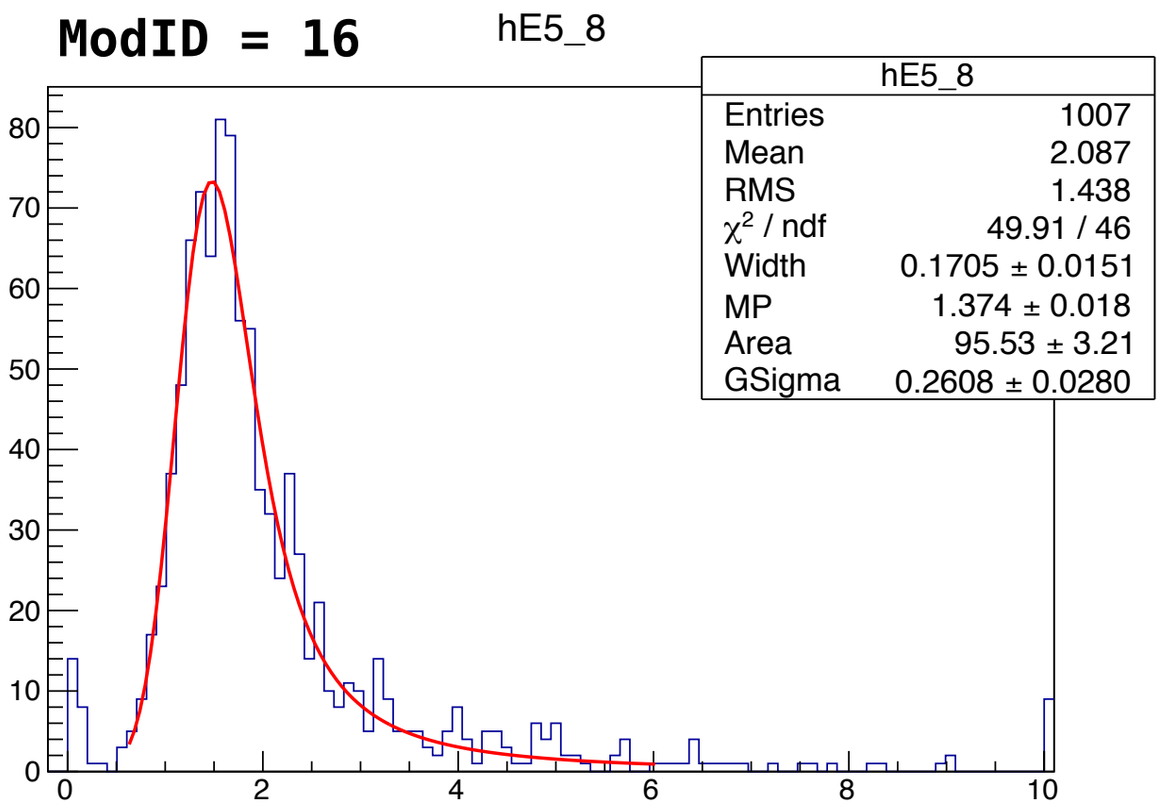
```
for(int id=0;id<DCVNumber;id++){
  int ich=DCVModID[id];
  DCVcalib[ich]=DCVPeak[id]/gain05[ich];
}
```

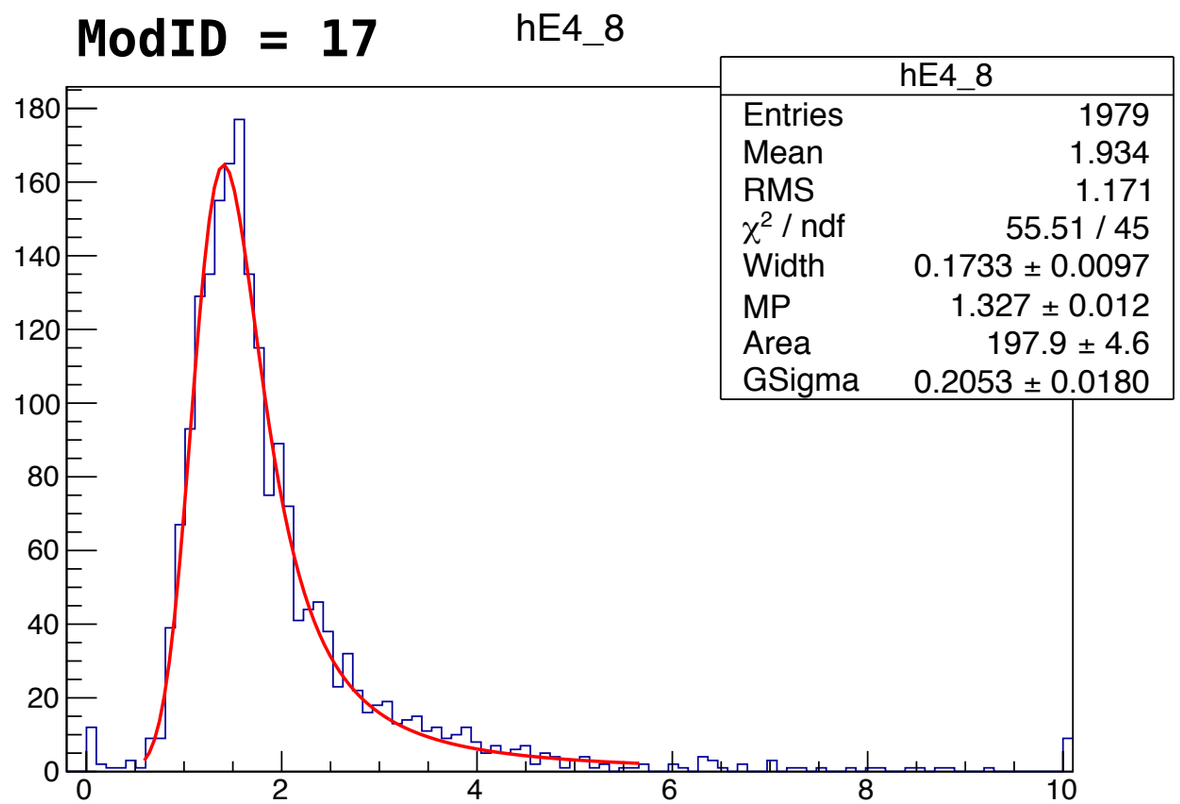
```
for(int ich=0;ich<16;ich++){
  if(TrFlag05[0]==1) hE0[ich]->Fill(DCVcalib[2*ich]+DCVcalib[2*ich+1]);
  if(TrFlag05[1]==1) hE1[ich]->Fill(DCVcalib[2*ich]+DCVcalib[2*ich+1]);
  if(TrFlag05[2]==1) hE2[ich]->Fill(DCVcalib[2*ich]+DCVcalib[2*ich+1]);
  if(TrFlag05[3]==1) hE3[ich]->Fill(DCVcalib[2*ich]+DCVcalib[2*ich+1]);
  if(TrFlag05[4]==1) hE4[ich]->Fill(DCVcalib[2*ich]+DCVcalib[2*ich+1]);
  if(TrFlag05[5]==1) hE5[ich]->Fill(DCVcalib[2*ich]+DCVcalib[2*ich+1]);
}
```

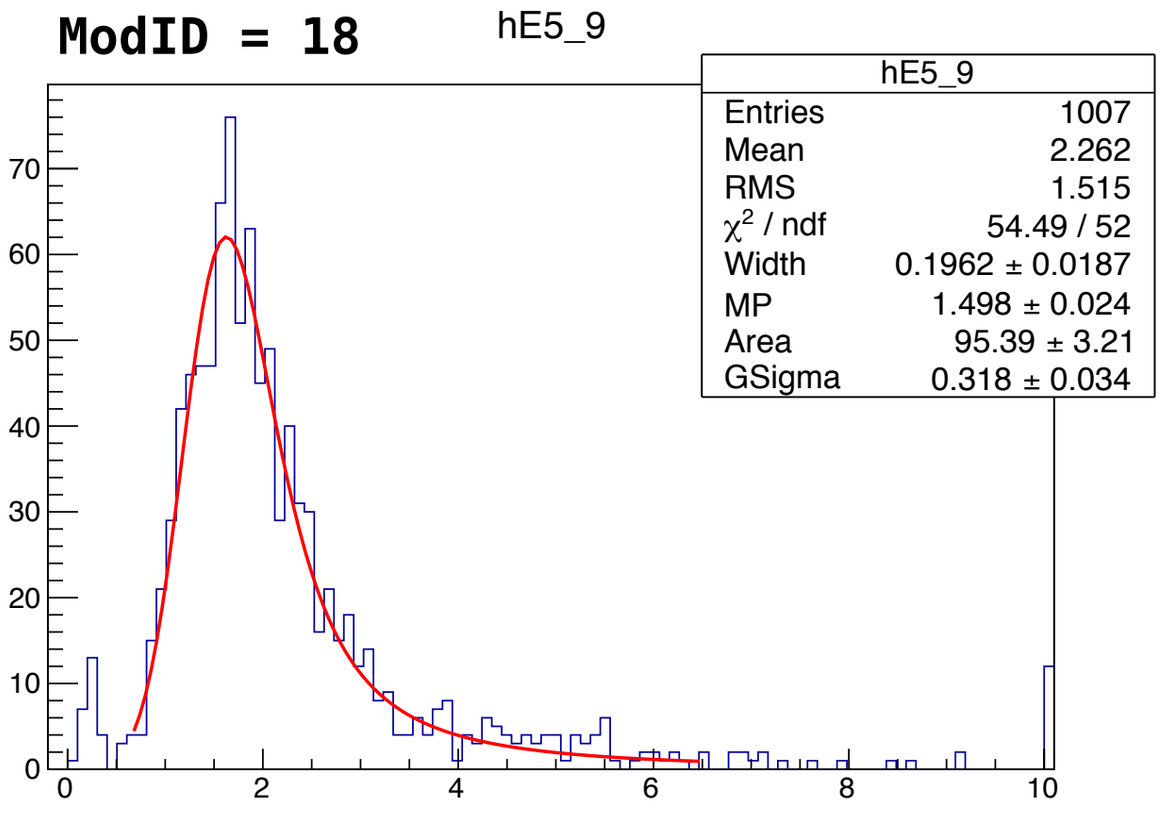
Flag Number	Histogram Number(hE(flag)_x)
0	10(ch20 + **ch21**), 11(ch22 + **ch23**), 14(**ch28** + ch29), 15(**ch30** + ch31).
1	10(**ch20** + ch21), 11(**ch22** + ch23), 14(ch28 + **ch29**), 15(ch30 + **ch31**).
2	10(ch20 + ch21), 11(ch22 + ch23), 12(**ch24** + ch25), 13(**ch26** + ch27).
3	12(ch24 + **ch25**), 13(ch26 + **ch27**), 14(ch28 + ch29), 15(ch30 + ch31).
4	8(ch16 + **ch17**), 9(ch18 + **ch19**), 10(ch20 + ch21), 11(ch22 + ch23).
5	8(**ch16** + ch17), 9(**ch18** + ch19), 14(ch28 + ch29), 15(ch30 + ch31).

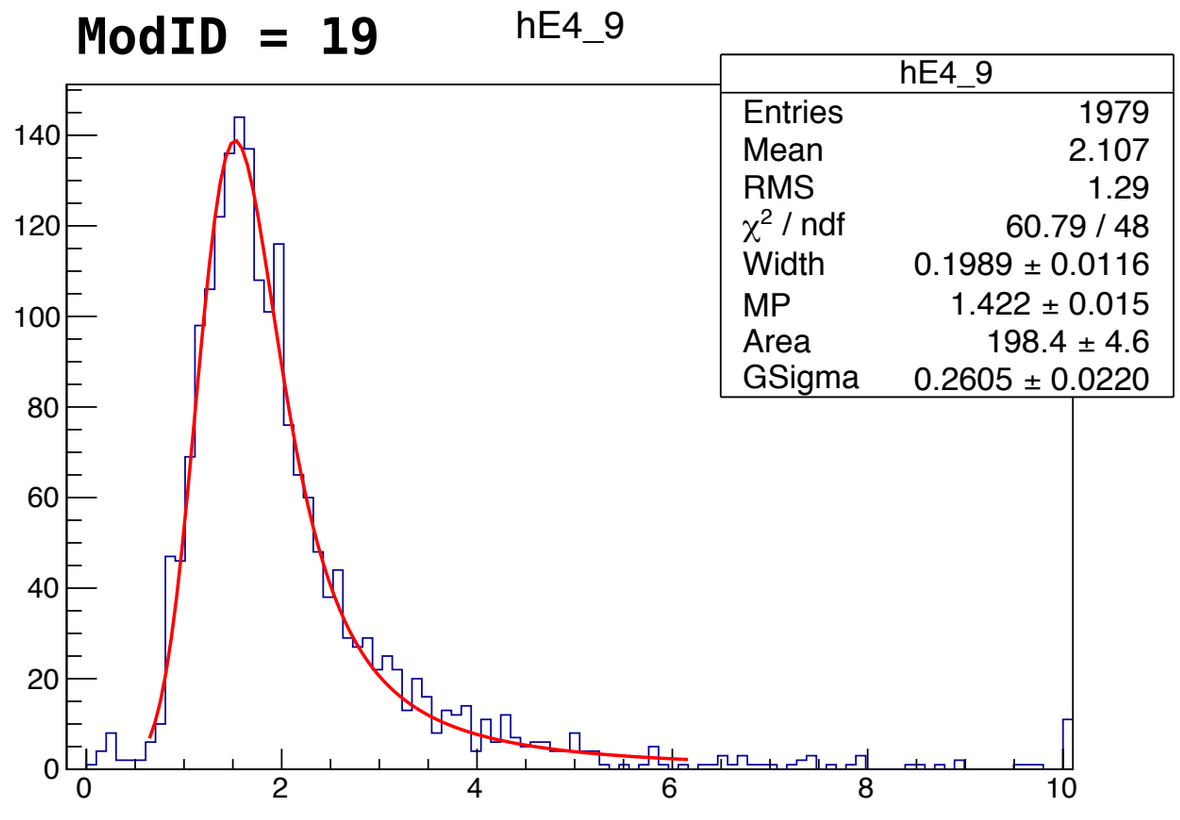
16 : hE5_8	17 : hE4_8	18 : hE5_9	19 : hE4_9
20 : hE1_10	21 : hE0_10	22 : hE1_11	23 : hE0_11
24 : hE2_12	25 : hE3_12	26 : hE2_13	27 : hE3_13
28 : hE0_14	29 : hE1_14	30 : hE0_15	31 : hE1_15

dcv2_mod0

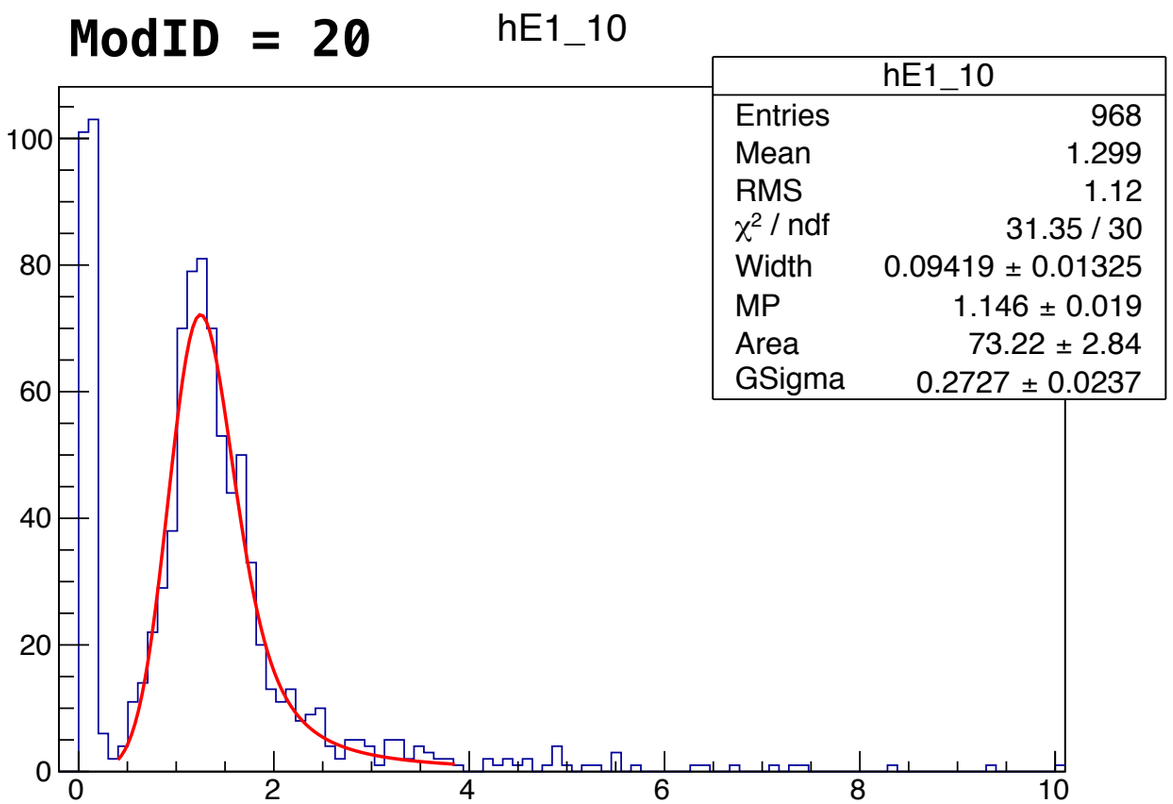

ModID = 16
hE5_8
hE5_8
Entries 1007
Mean 2.087
RMS 1.438
χ² / ndf 49.91 / 46
Width 0.1705 ± 0.0151
MP 1.374 ± 0.018
Area 95.53 ± 3.21
GSigma 0.2608 ± 0.0280

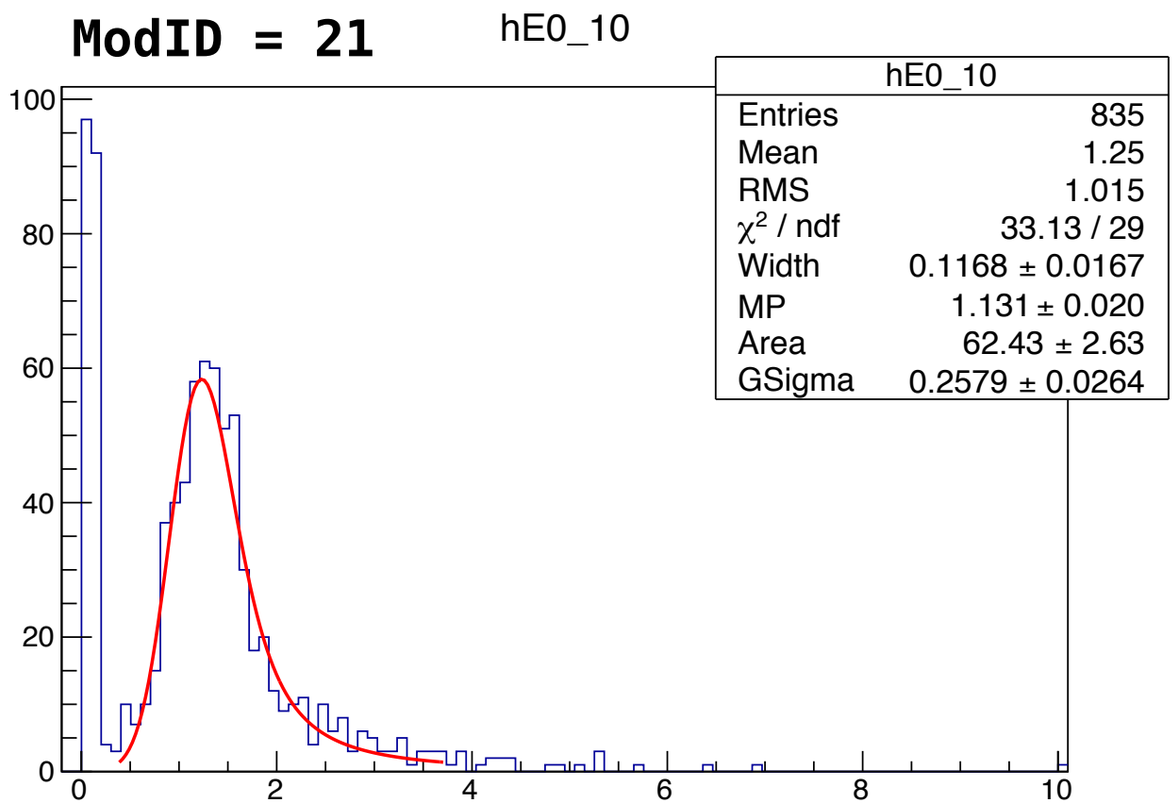

ModID = 17
hE4_8
hE4_8
Entries 1979
Mean 1.934
RMS 1.171
χ² / ndf 55.51 / 45
Width 0.1733 ± 0.0097
MP 1.327 ± 0.012
Area 197.9 ± 4.6
GSigma 0.2053 ± 0.0180

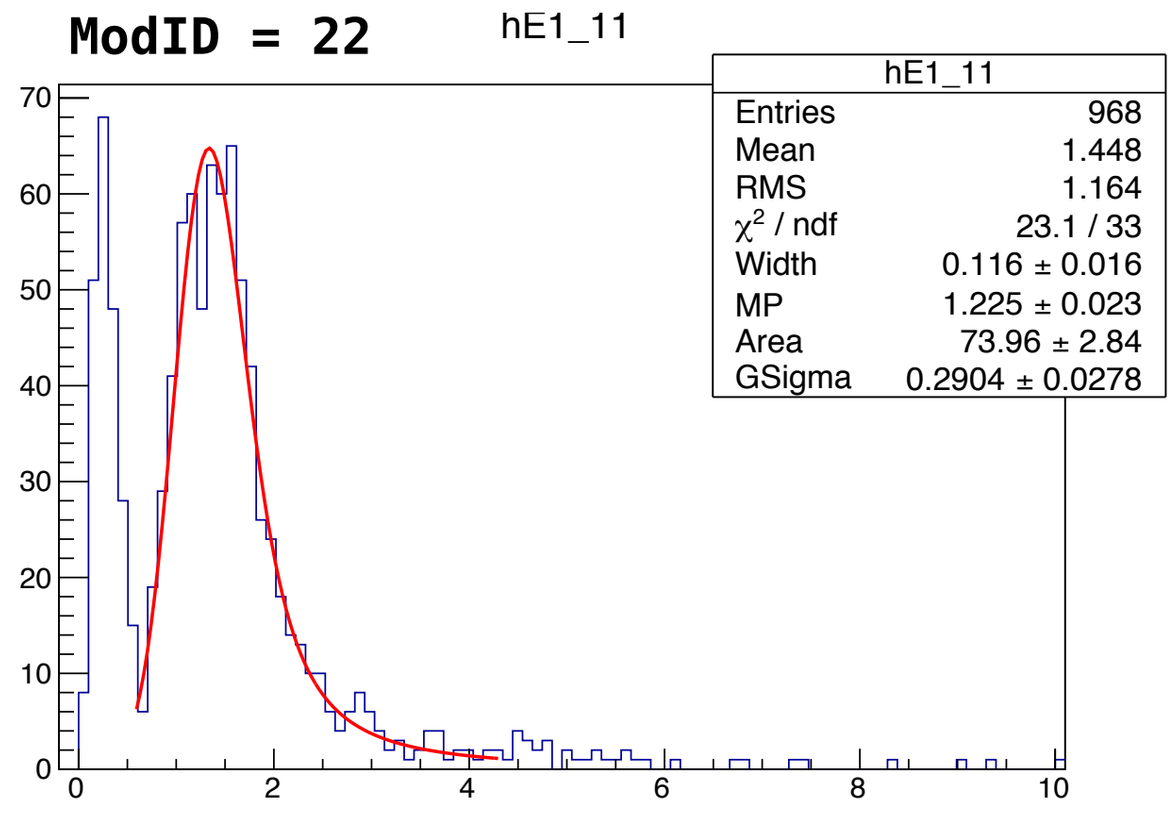

ModID = 18
hE5_9
hE5_9
Entries 1007
Mean 2.262
RMS 1.515
χ² / ndf 54.49 / 52
Width 0.1962 ± 0.0187
MP 1.498 ± 0.024
Area 95.39 ± 3.21
GSigma 0.318 ± 0.034

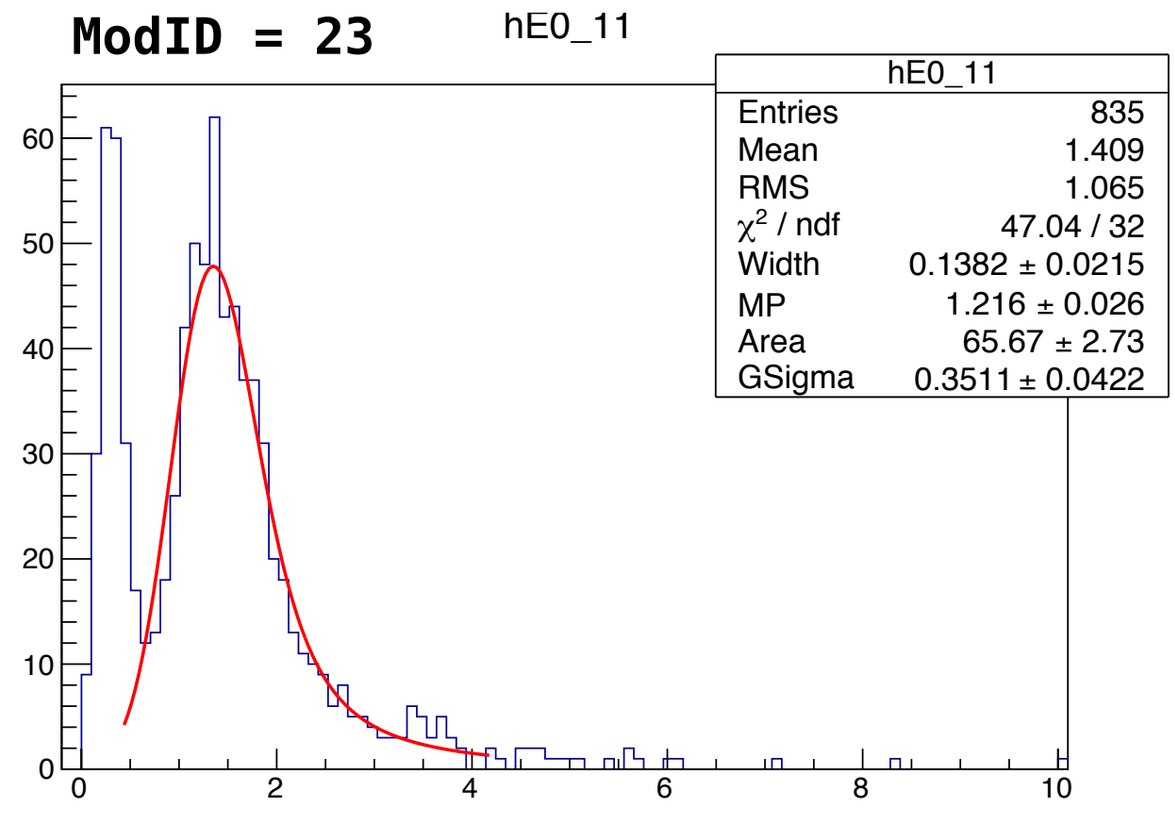

ModID = 19
hE4_9
hE4_9
Entries 1979
Mean 2.107
RMS 1.29
χ² / ndf 60.79 / 48
Width 0.1989 ± 0.0116
MP 1.422 ± 0.015
Area 198.4 ± 4.6
GSigma 0.2605 ± 0.0220

dcv2_mod1

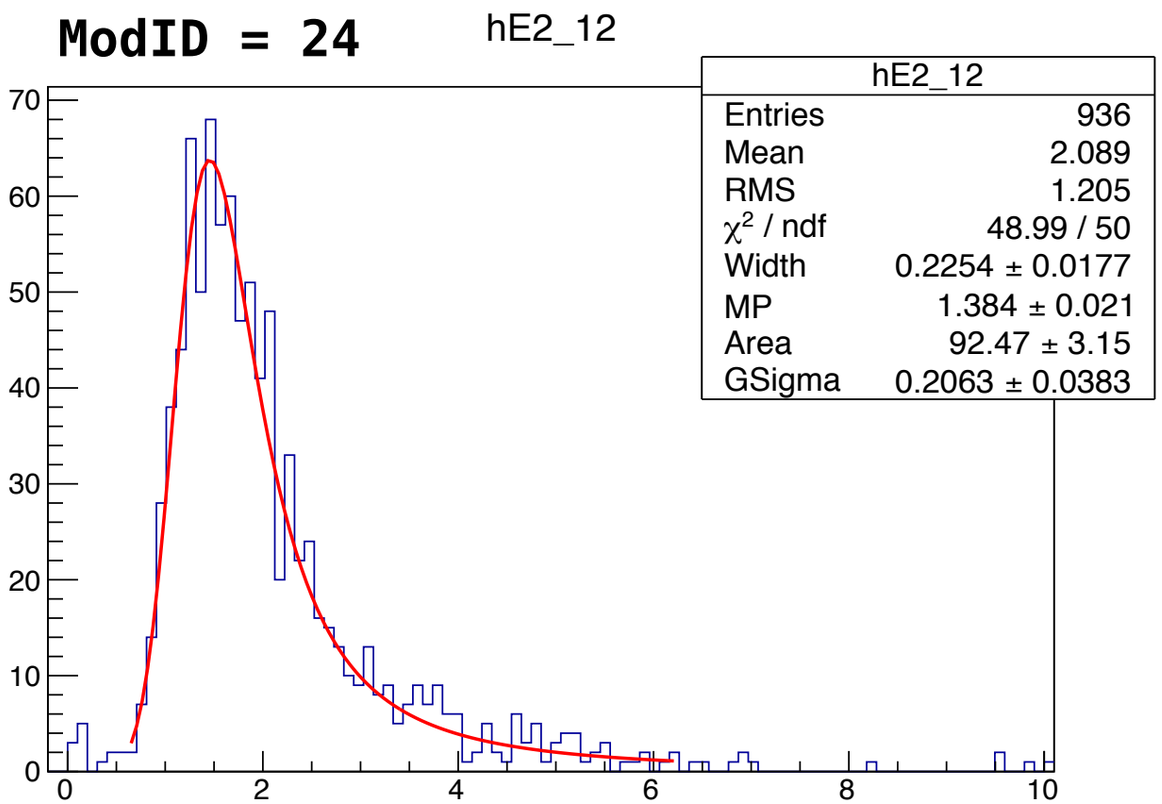

ModID = 20
hE1_10
hE1_10
Entries 968
Mean 1.299
RMS 1.12
χ² / ndf 31.35 / 30
Width 0.09419 ± 0.01325
MP 1.146 ± 0.019
Area 73.22 ± 2.84
GSigma 0.2727 ± 0.0237

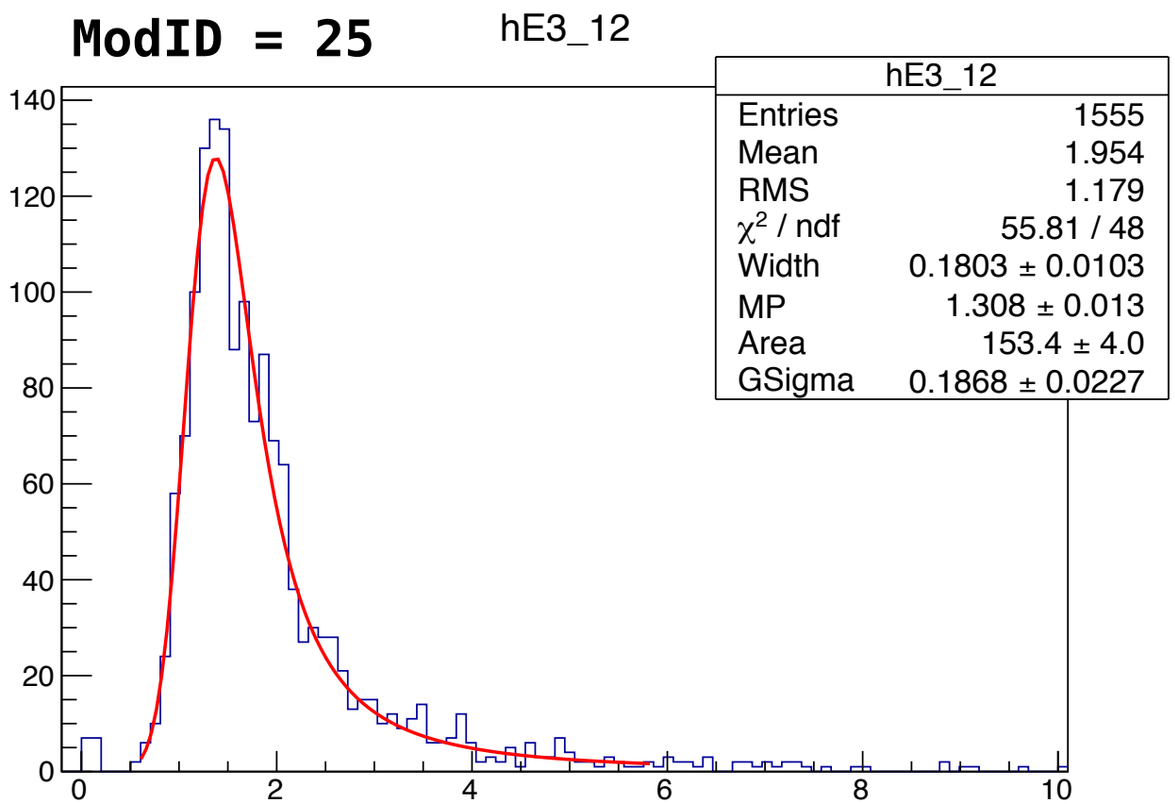

ModID = 21
hE0_10
hE0_10
Entries 835
Mean 1.25
RMS 1.015
χ² / ndf 33.13 / 29
Width 0.1168 ± 0.0167
MP 1.131 ± 0.020
Area 62.43 ± 2.63
GSigma 0.2579 ± 0.0264

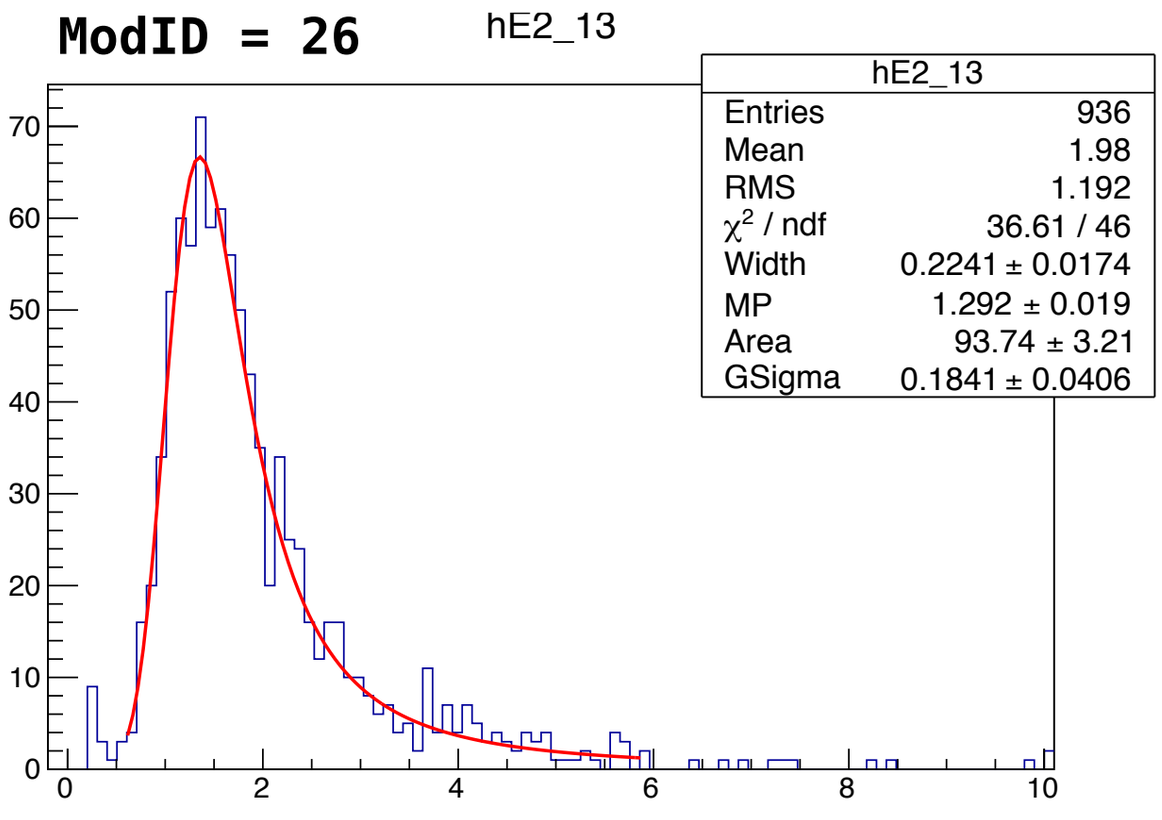

ModID = 22
hE1_11
hE1_11
Entries 968
Mean 1.448
RMS 1.164
χ² / ndf 23.1 / 33
Width 0.116 ± 0.016
MP 1.225 ± 0.023
Area 73.96 ± 2.84
GSigma 0.2904 ± 0.0278

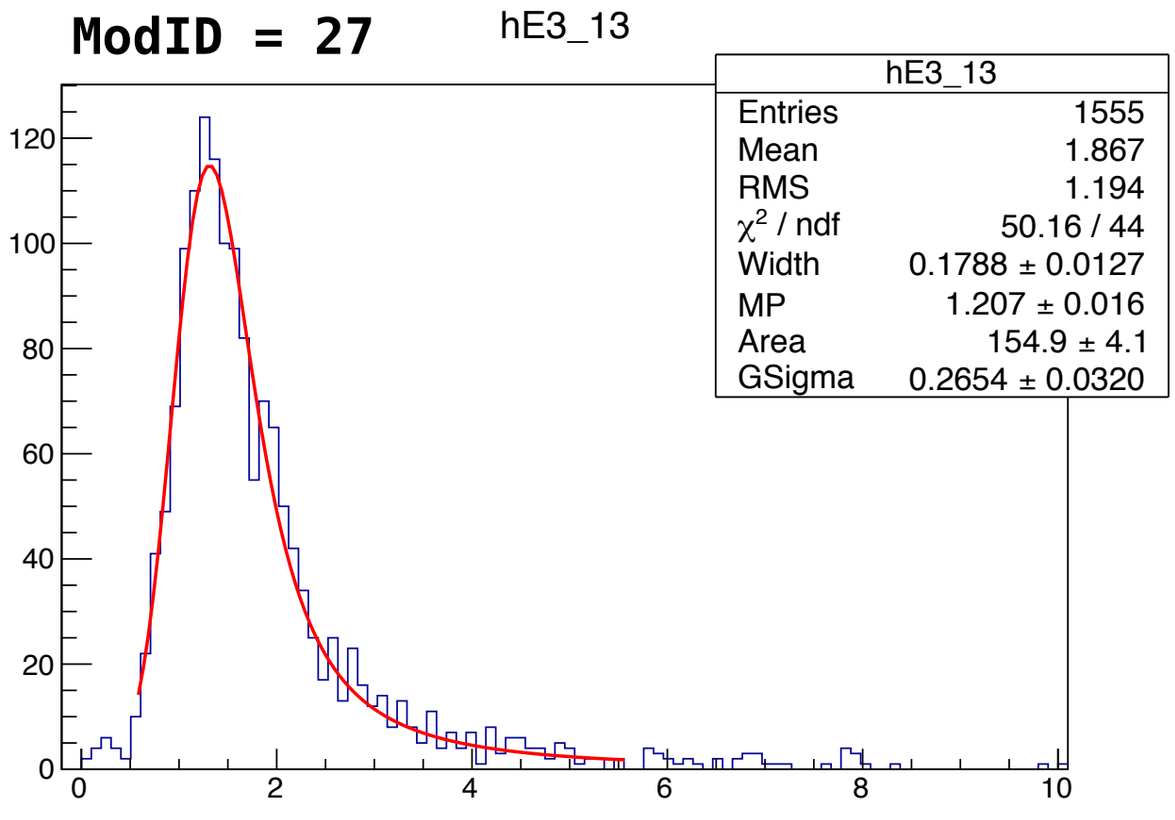

ModID = 23
hE0_11
hE0_11
Entries 835
Mean 1.409
RMS 1.065
χ² / ndf 47.04 / 32
Width 0.1382 ± 0.0215
MP 1.216 ± 0.026
Area 65.67 ± 2.73
GSigma 0.3511 ± 0.0422

dcv2_mod2

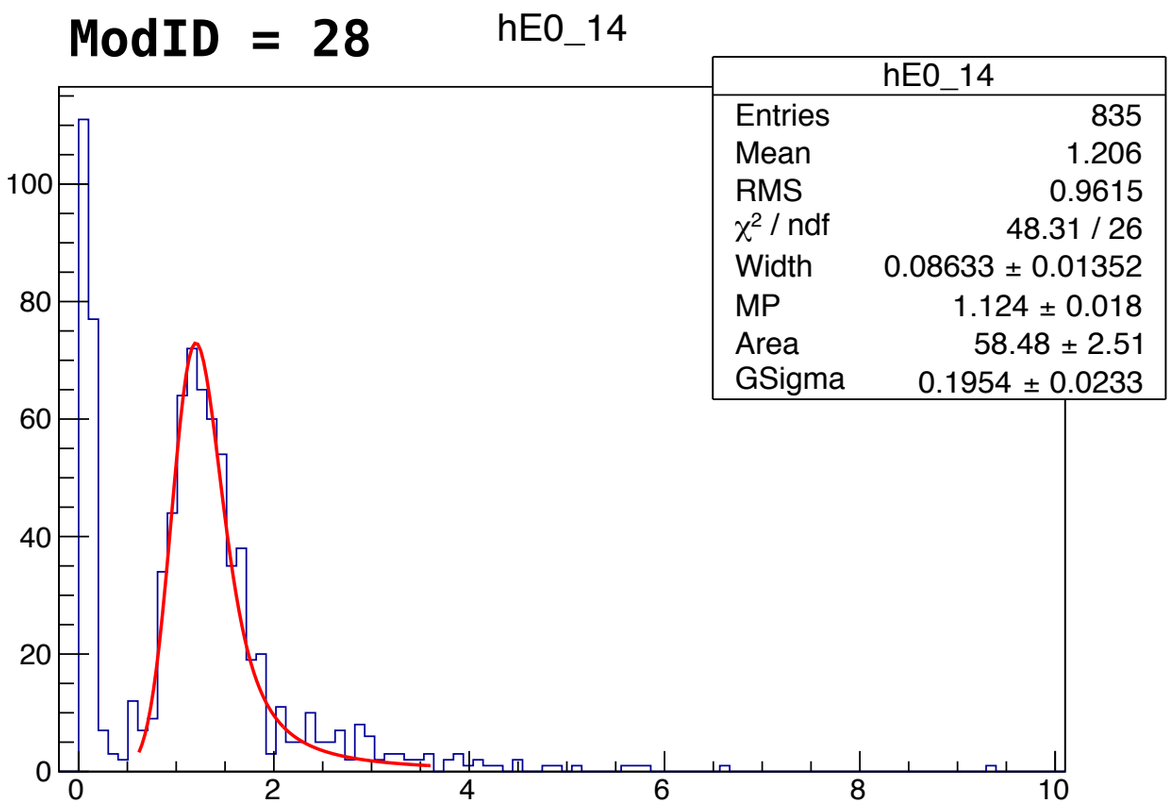

ModID = 24
hE2_12
hE2_12
Entries 936
Mean 2.089
RMS 1.205
χ² / ndf 48.99 / 50
Width 0.2254 ± 0.0177
MP 1.384 ± 0.021
Area 92.47 ± 3.15
GSigma 0.2063 ± 0.0383

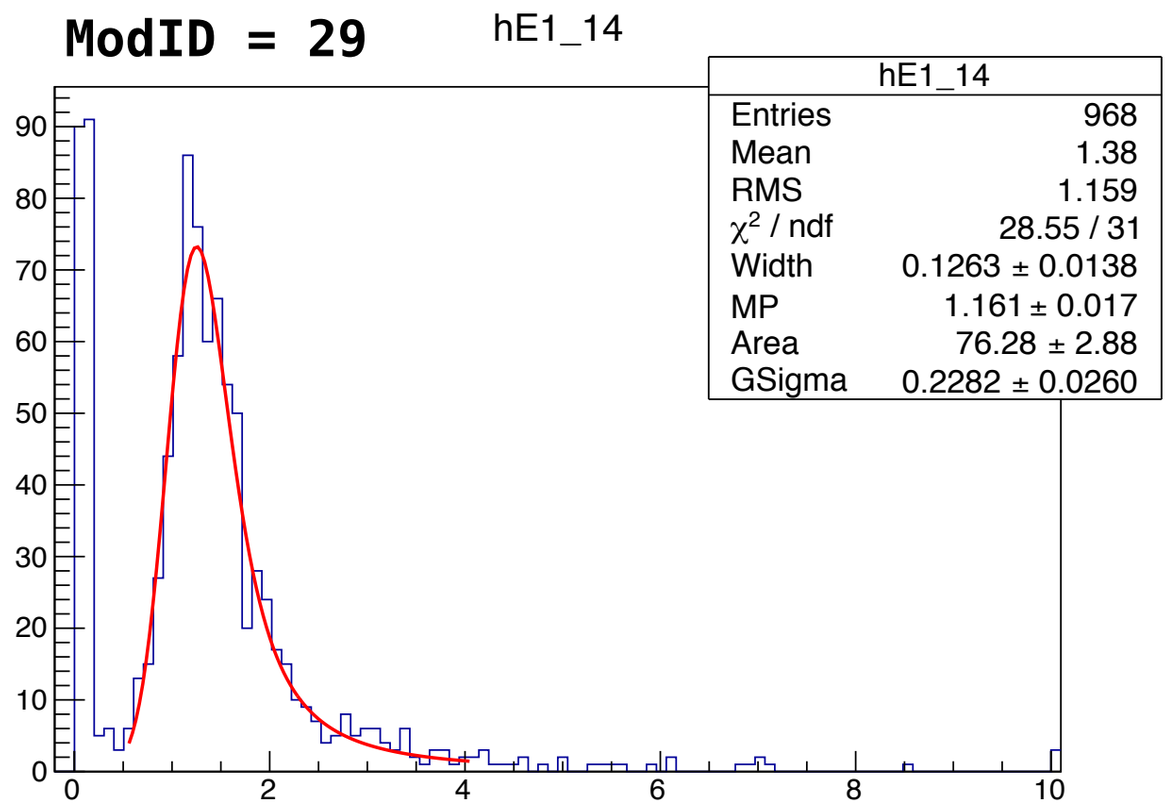

ModID = 25
hE3_12
hE3_12
Entries 1555
Mean 1.954
RMS 1.179
χ² / ndf 55.81 / 48
Width 0.1803 ± 0.0103
MP 1.308 ± 0.013
Area 153.4 ± 4.0
GSigma 0.1868 ± 0.0227

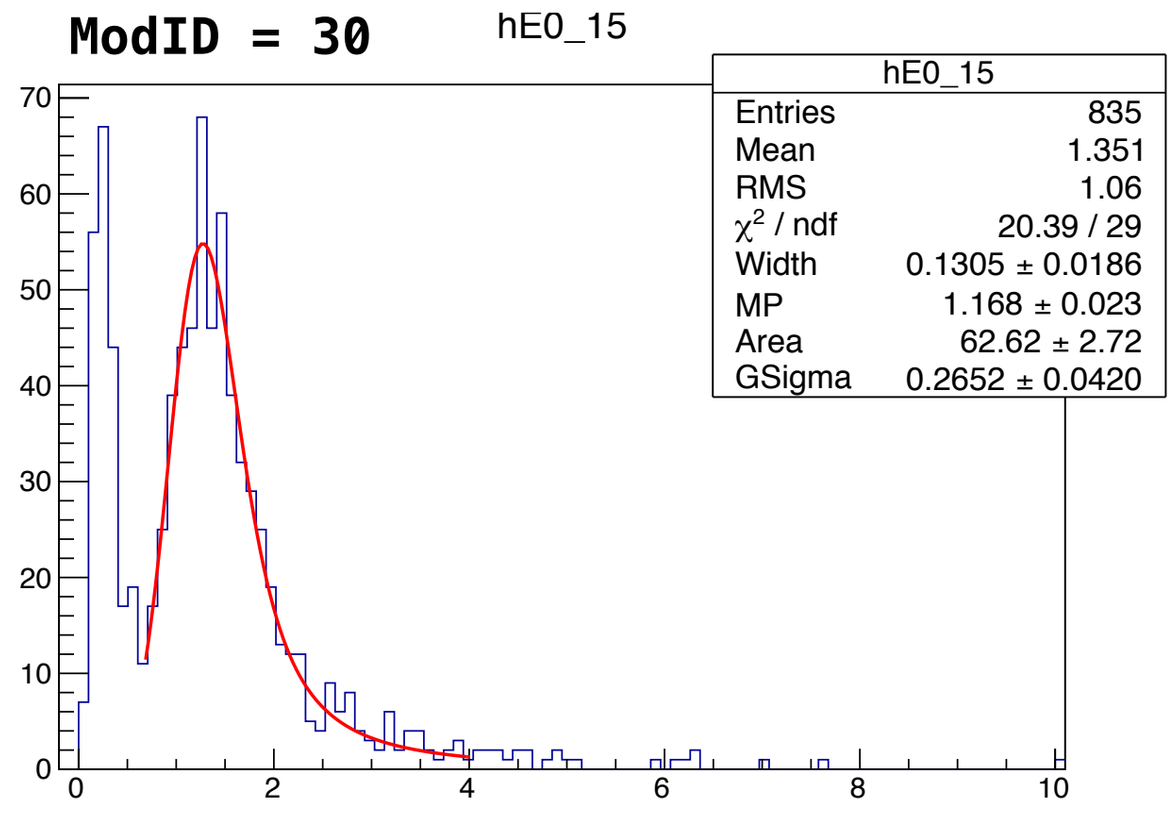

ModID = 26
hE2_13
hE2_13
Entries 936
Mean 1.98
RMS 1.192
χ² / ndf 36.61 / 46
Width 0.2241 ± 0.0174
MP 1.292 ± 0.019
Area 93.74 ± 3.21
GSigma 0.1841 ± 0.0406

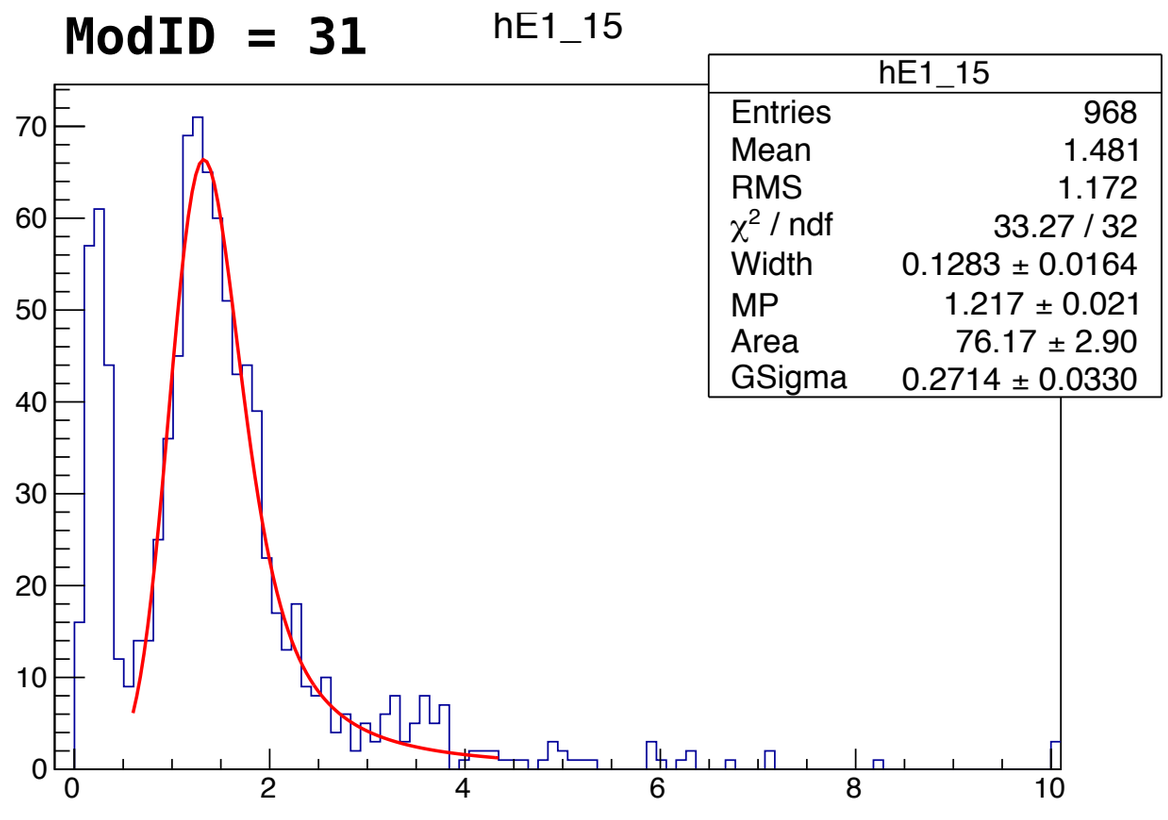

ModID = 27
hE3_13
hE3_13
Entries 1555
Mean 1.867
RMS 1.194
χ² / ndf 50.16 / 44
Width 0.1788 ± 0.0127
MP 1.207 ± 0.016
Area 154.9 ± 4.1
GSigma 0.2654 ± 0.0320

dcv2_mod3


ModID = 28
hE0_14
hE0_14
Entries 835
Mean 1.206
RMS 0.9615
χ² / ndf 48.31 / 26
Width 0.08633 ± 0.01352
MP 1.124 ± 0.018
Area 58.48 ± 2.51
GSigma 0.1954 ± 0.0233


ModID = 29
hE1_14
hE1_14
Entries 968
Mean 1.38
RMS 1.159
χ² / ndf 28.55 / 31
Width 0.1263 ± 0.0138
MP 1.161 ± 0.017
Area 76.28 ± 2.88
GSigma 0.2282 ± 0.0260


ModID = 30
hE0_15
hE0_15
Entries 835
Mean 1.351
RMS 1.06
χ² / ndf 20.39 / 29
Width 0.1305 ± 0.0186
MP 1.168 ± 0.023
Area 62.62 ± 2.72
GSigma 0.2652 ± 0.0420


ModID = 31
hE1_15
hE1_15
Entries 968
Mean 1.481
RMS 1.172
χ² / ndf 33.27 / 32
Width 0.1283 ± 0.0164
MP 1.217 ± 0.021
Area 76.17 ± 2.90
GSigma 0.2714 ± 0.0330

/home/had/hmkim/work/hmkim/run81/lim_ana/cal_dcv_calib2.C

```
float norm05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                    1.,1.,1.,1.,1.,1.,1.,1.,
                    1.374,1.327,1.498,1.422,
                    1.146,1.131,1.225,1.216,
                    1.384,1.308,1.292,1.207,
                    1.124,1.161,1.168,1.217 };
```

```
for(int id=0;id<DCVNumber;id++){
  int ich=DCVModID[id];
  DCVcalib[ich]=DCVPeak[id]/(gain05[ich]*norm05[ich]);
}
```

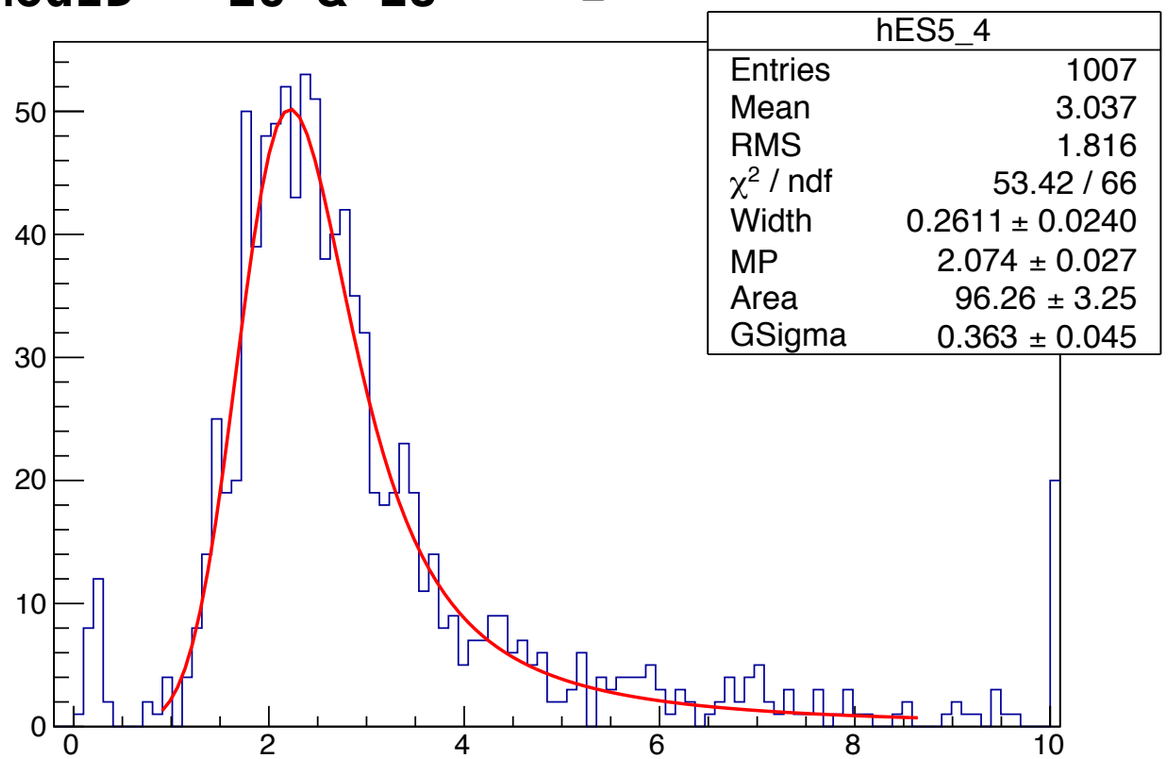
```
for(int ich=0;ich<8;ich++){
  if(TrFlag05[0]==1) hES0[ich]->Fill(DCVcalib[4*ich]+DCVcalib[4*ich+1]+DCVcalib[4*ich+3]+DCVcalib[4*ich+4]);
  if(TrFlag05[1]==1) hES1[ich]->Fill(DCVcalib[4*ich]+DCVcalib[4*ich+1]+DCVcalib[4*ich+3]+DCVcalib[4*ich+4]);
  if(TrFlag05[2]==1) hES2[ich]->Fill(DCVcalib[4*ich]+DCVcalib[4*ich+1]+DCVcalib[4*ich+3]+DCVcalib[4*ich+4]);
  if(TrFlag05[3]==1) hES3[ich]->Fill(DCVcalib[4*ich]+DCVcalib[4*ich+1]+DCVcalib[4*ich+3]+DCVcalib[4*ich+4]);
  if(TrFlag05[4]==1) hES4[ich]->Fill(DCVcalib[4*ich]+DCVcalib[4*ich+1]+DCVcalib[4*ich+3]+DCVcalib[4*ich+4]);
  if(TrFlag05[5]==1) hES5[ich]->Fill(DCVcalib[4*ich]+DCVcalib[4*ich+1]+DCVcalib[4*ich+3]+DCVcalib[4*ich+4]);
}
```

Flag Number	Histogram Number(hE(flag)_x)
0	5(ch20 + **ch21** + ch22 + **ch23**), 7(**ch28** + ch29 + **ch30** + ch31)
1	5(**ch20** + ch21 + **ch22** + ch23), 7(ch28 + **ch29** + ch30 + **ch31**)
2	6(**ch24** + ch25 + **ch26** + ch27)
3	6(ch24 + **ch25** + ch26 + **ch27**)
4	4(ch16 + **ch17** + ch18 + **ch19**)
5	4(**ch16** + ch17 + **ch18** + ch19)

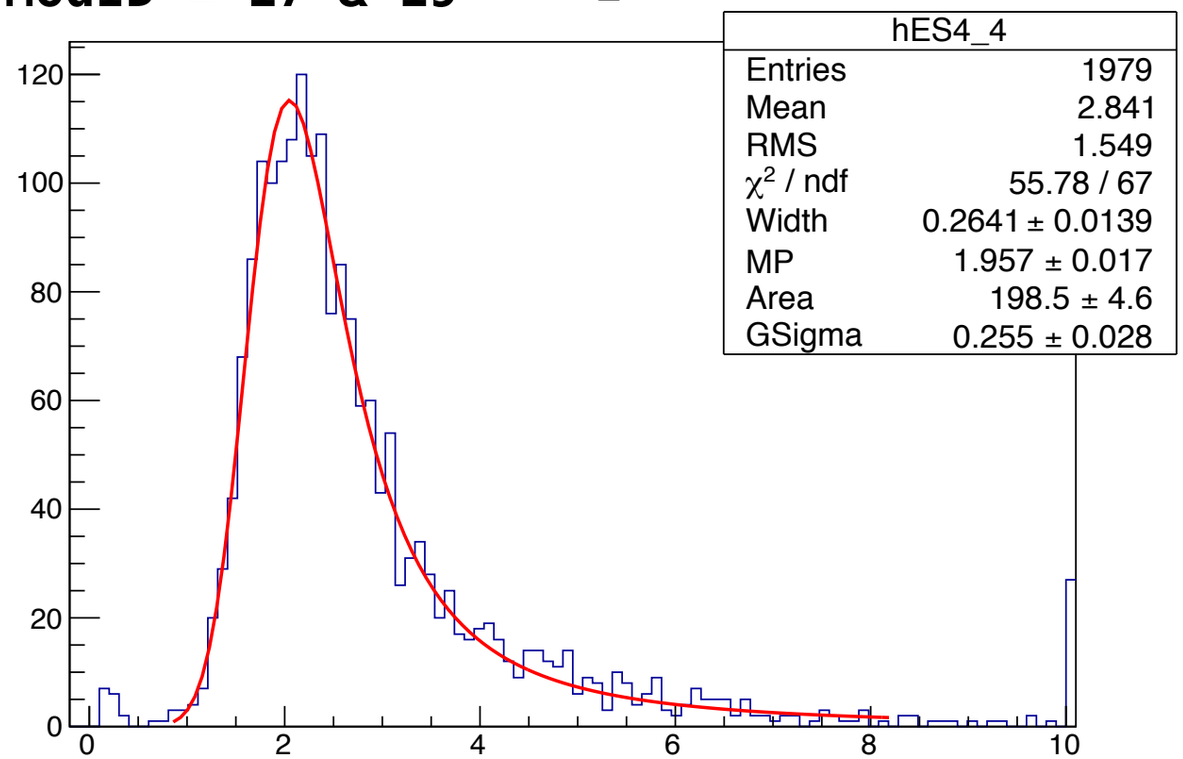
16 : hES5_4	17 : hES4_4	18 : hES5_4	19 : hES4_4
20 : hES1_5	21 : hES0_5	22 : hES1_5	23 : hES0_5
24 : hES2_6	25 : hES3_6	26 : hES2_6	27 : hES3_6
28 : hES0_7	29 : hES1_7	30 : hES0_7	31 : hES1_7

dcv2_mod0 & mod1

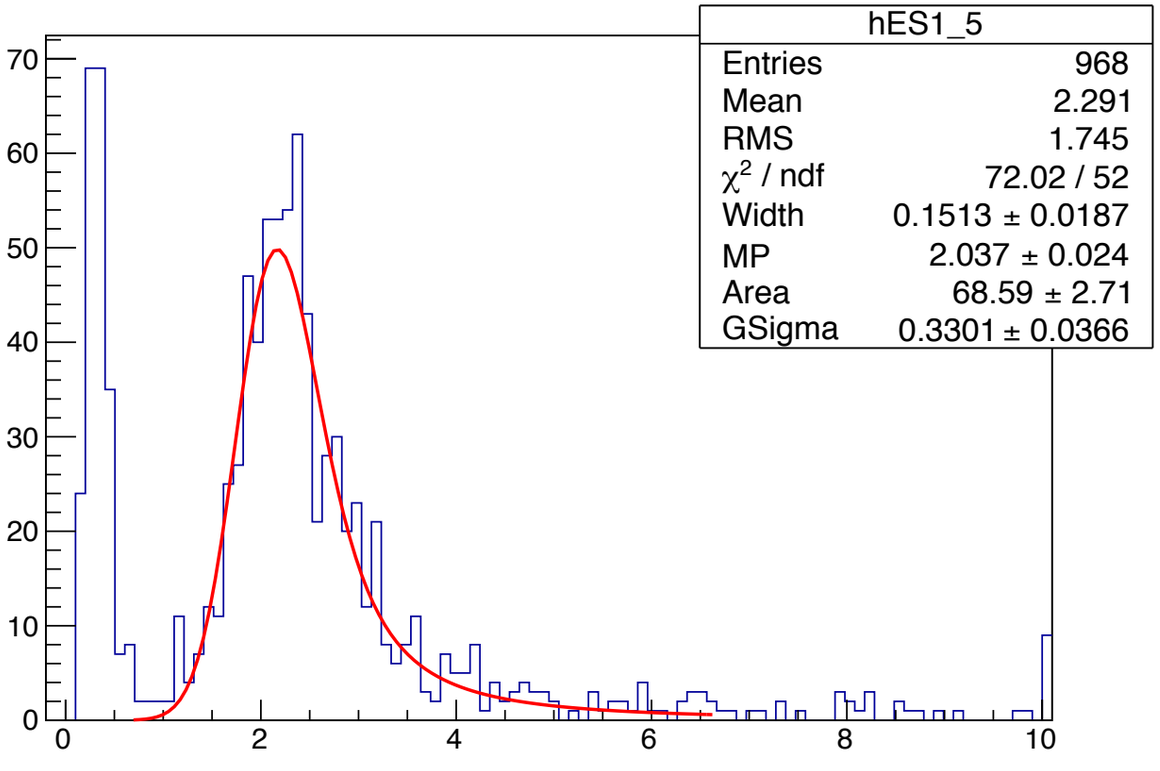
ModID = 16 & 18 hES5_4



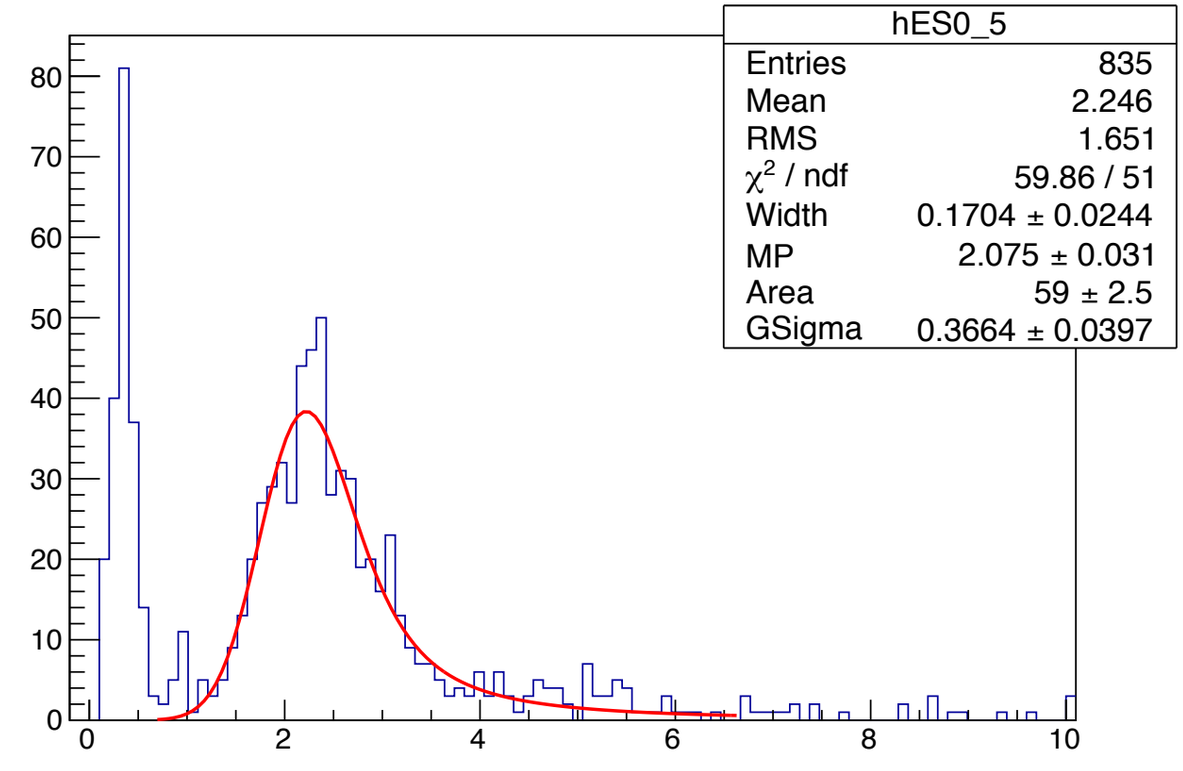
ModID = 17 & 19 hES4_4



ModID = 20 & 22 hES1_5

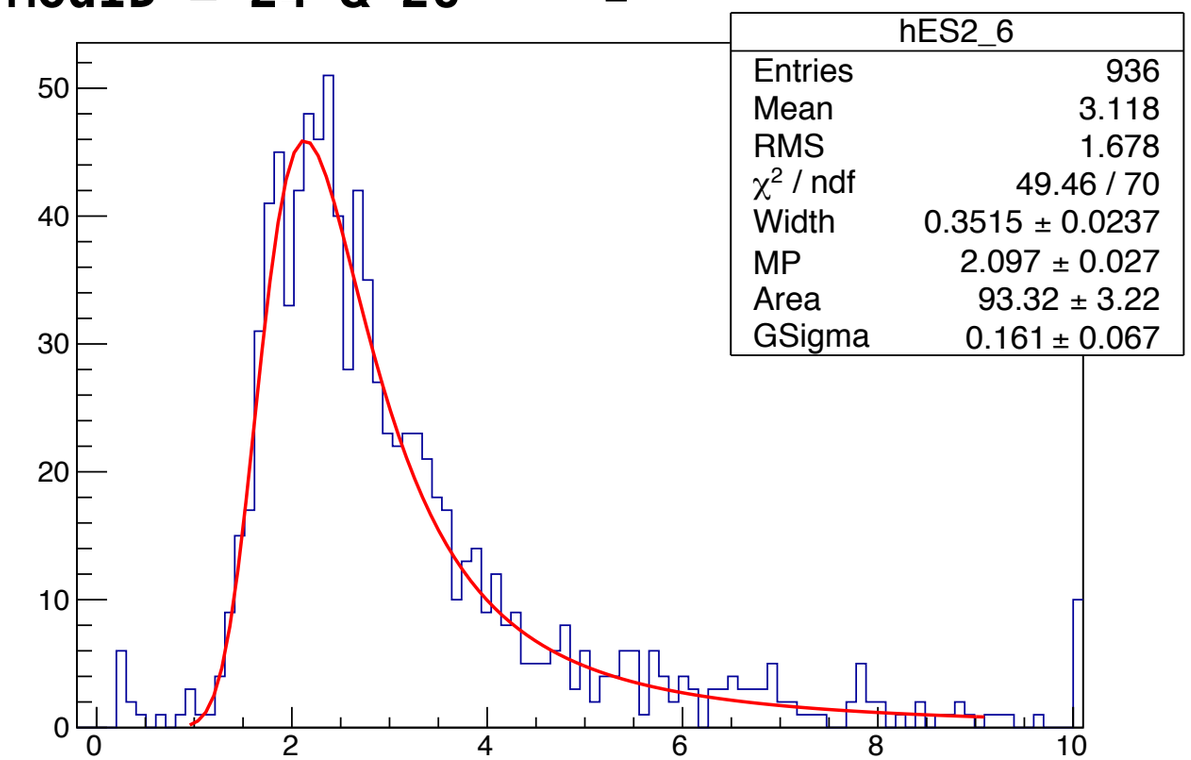


ModID = 21 & 23 hES0_5

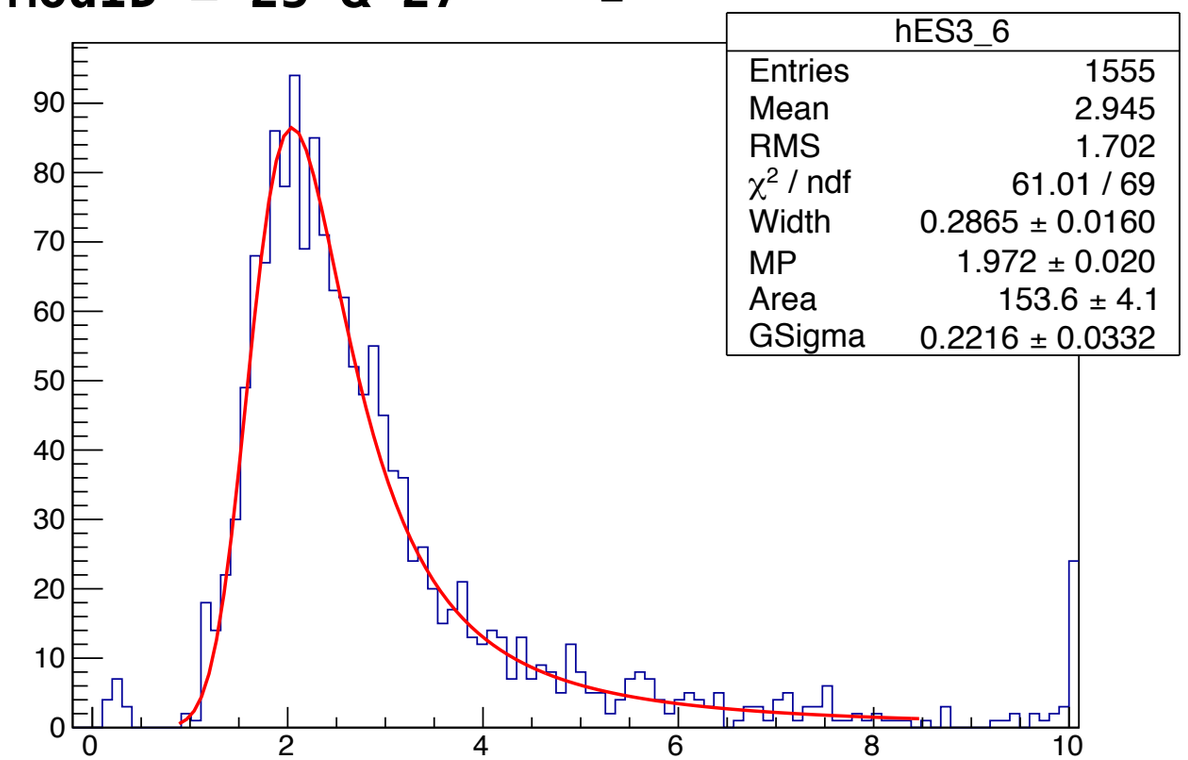


dcv2_mod2 & mod3

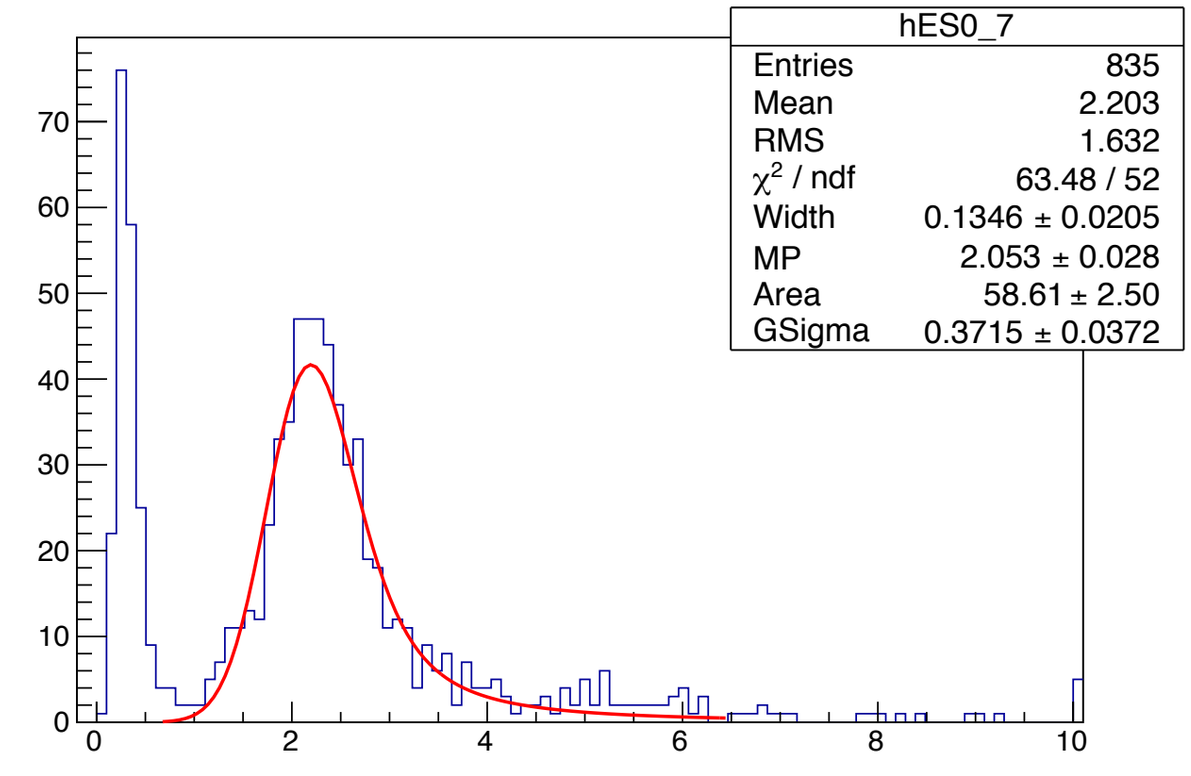
ModID = 24 & 26 hES2_6



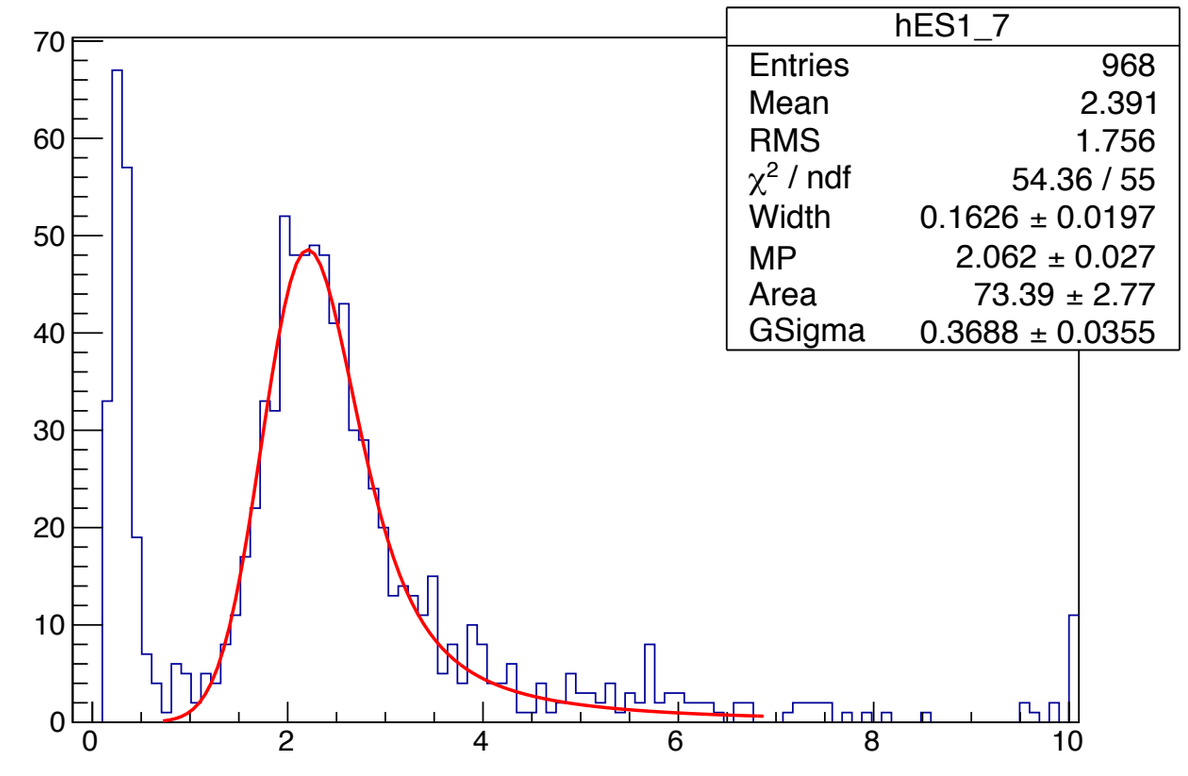
ModID = 25 & 27 hES3_6



ModID = 28 & 30 hES0_7



ModID = 29 & 31 hES1_7

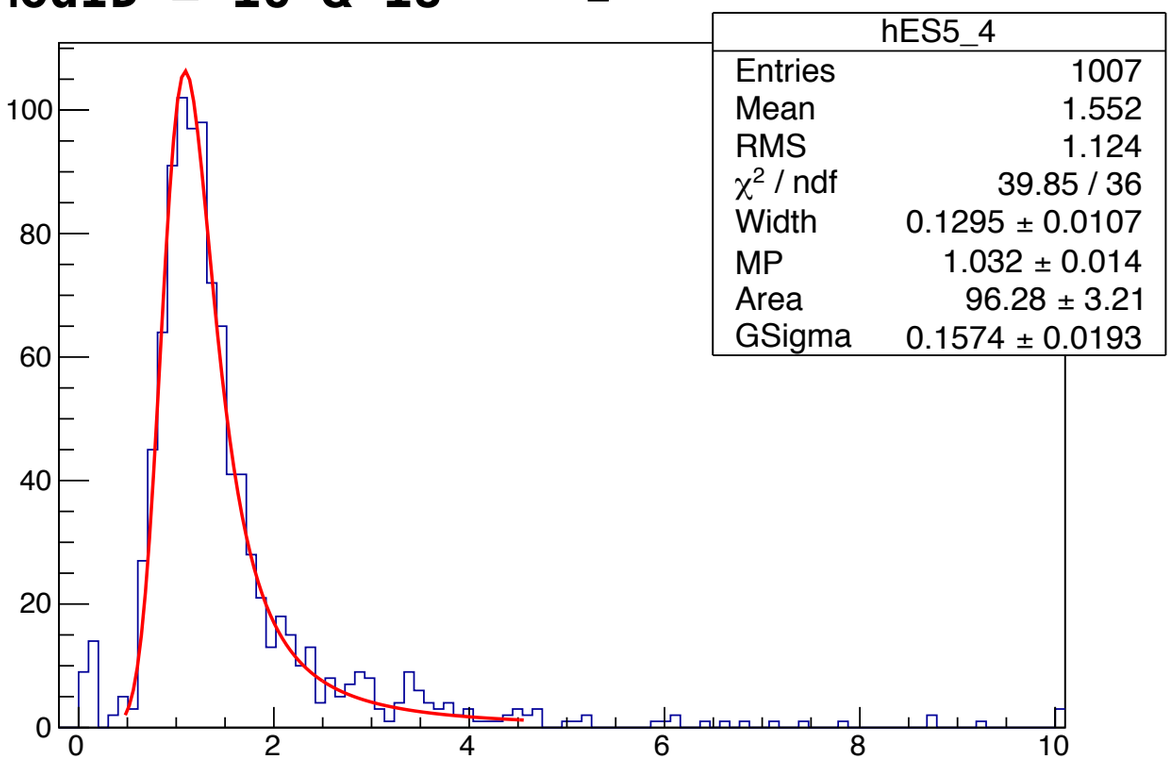


```
float norm_module05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                           1.,1.,1.,1.,1.,1.,1.,1.,
                           2.074,1.957,2.074,1.957,
                           2.037,2.075,2.037,2.075,
                           2.097,1.972,2.097,1.972,
                           2.053,2.062,2.053,2.062 };
```

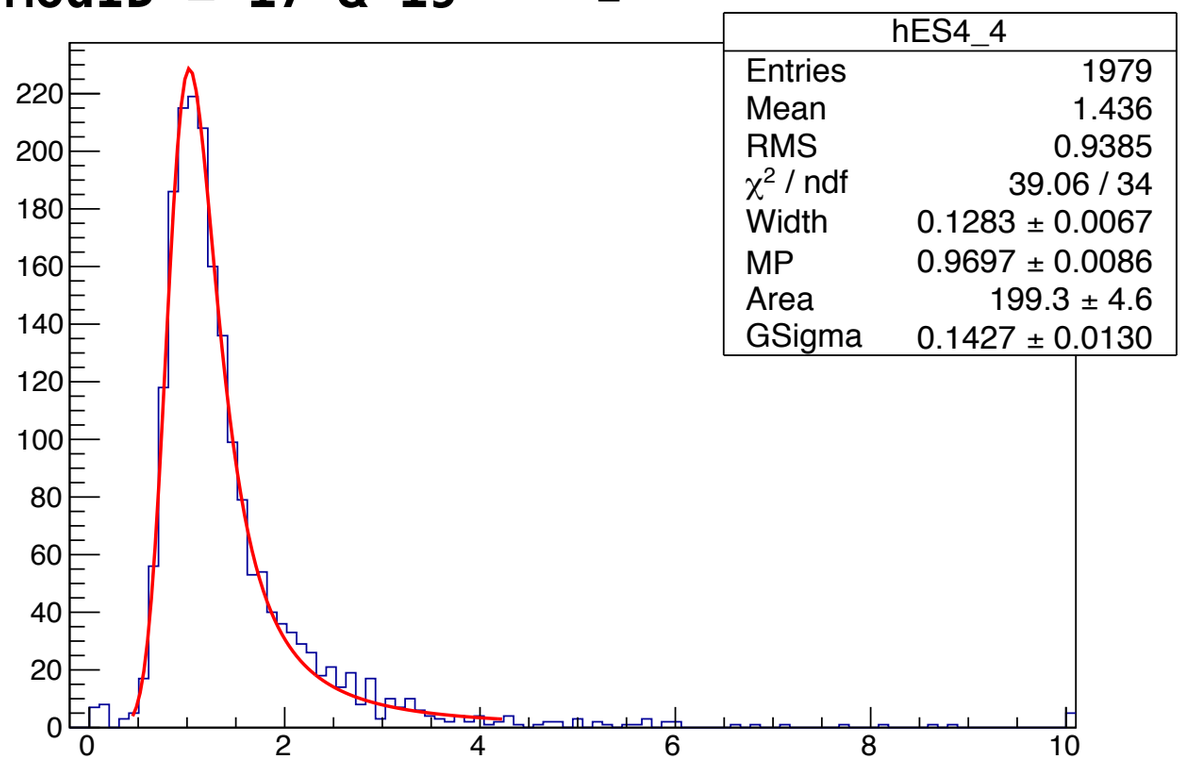
```
for(int id=0;id<DCVNumber;id++){
  int ich=DCVModID[id];
  DCVcalib[ich]=(DCVPeak[id]/(gain05[ich]*norm05[ich]*norm_module05[ich]);
}
```

Check dcv2_mod0 & mod1

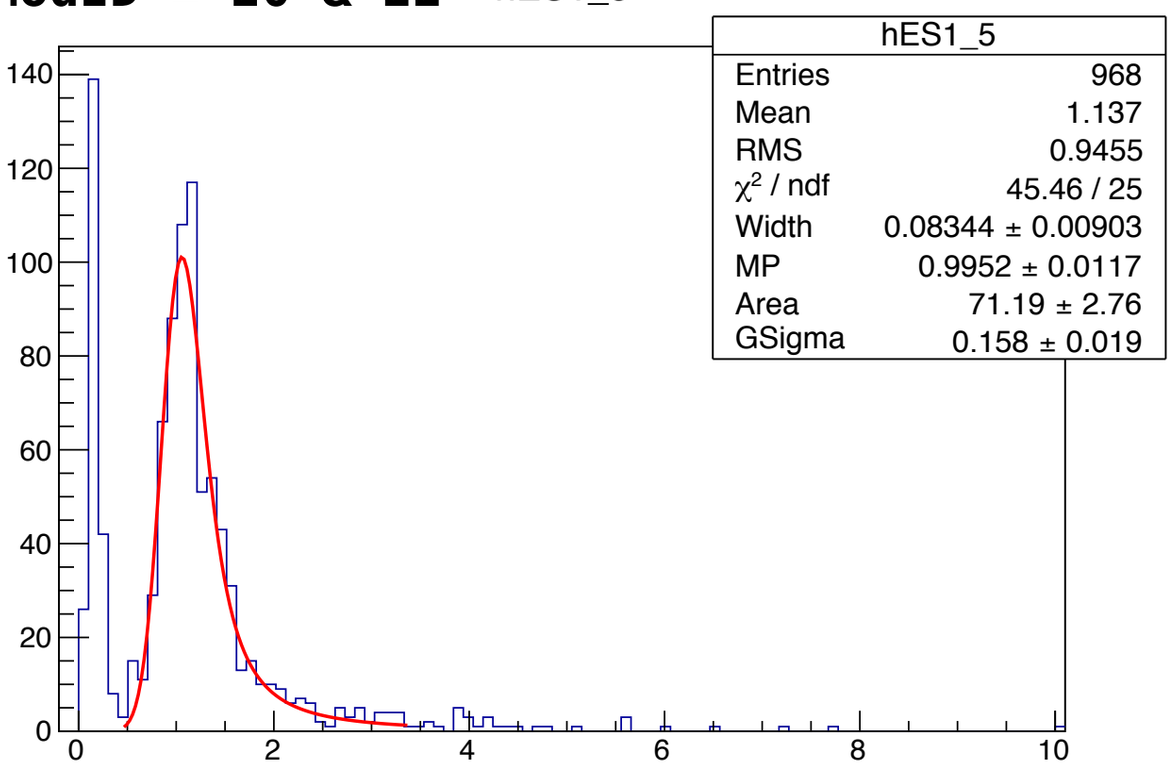
ModID = 16 & 18 hES5_4



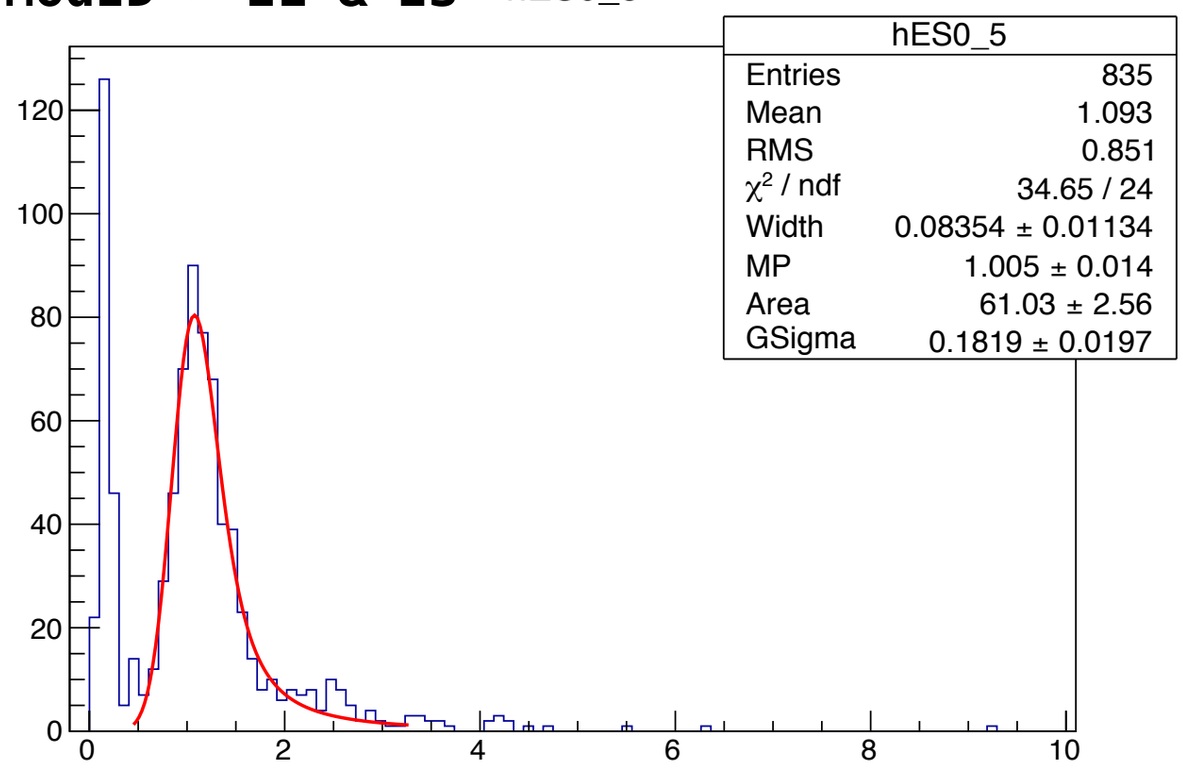
ModID = 17 & 19 hES4_4



ModID = 20 & 22 hES1_5

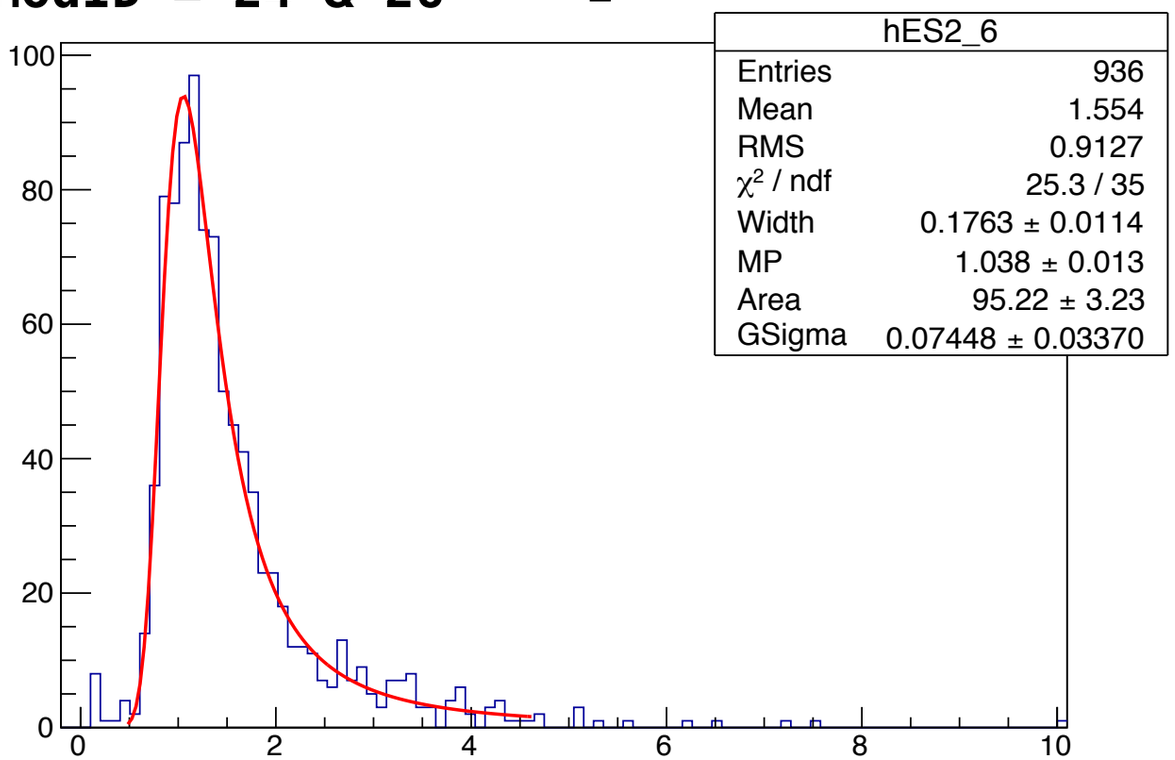


ModID = 21 & 23 hES0_5

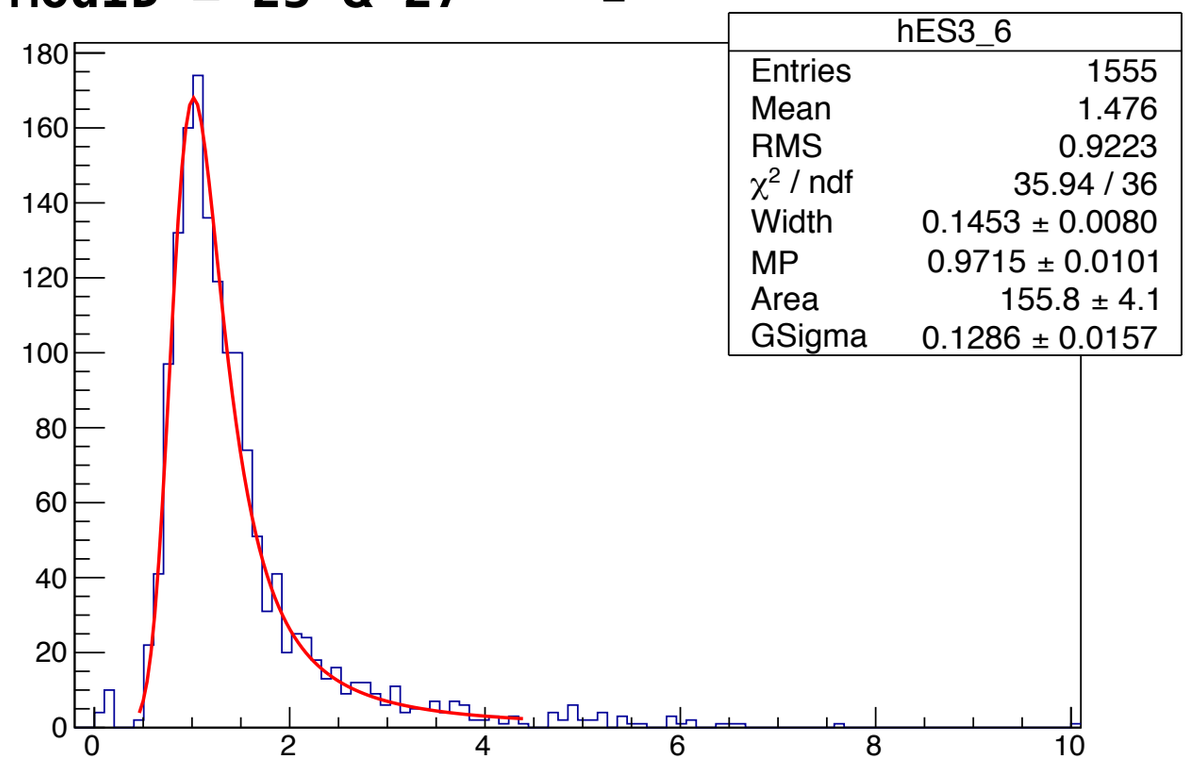


Check dcv2_mod2 & mod3

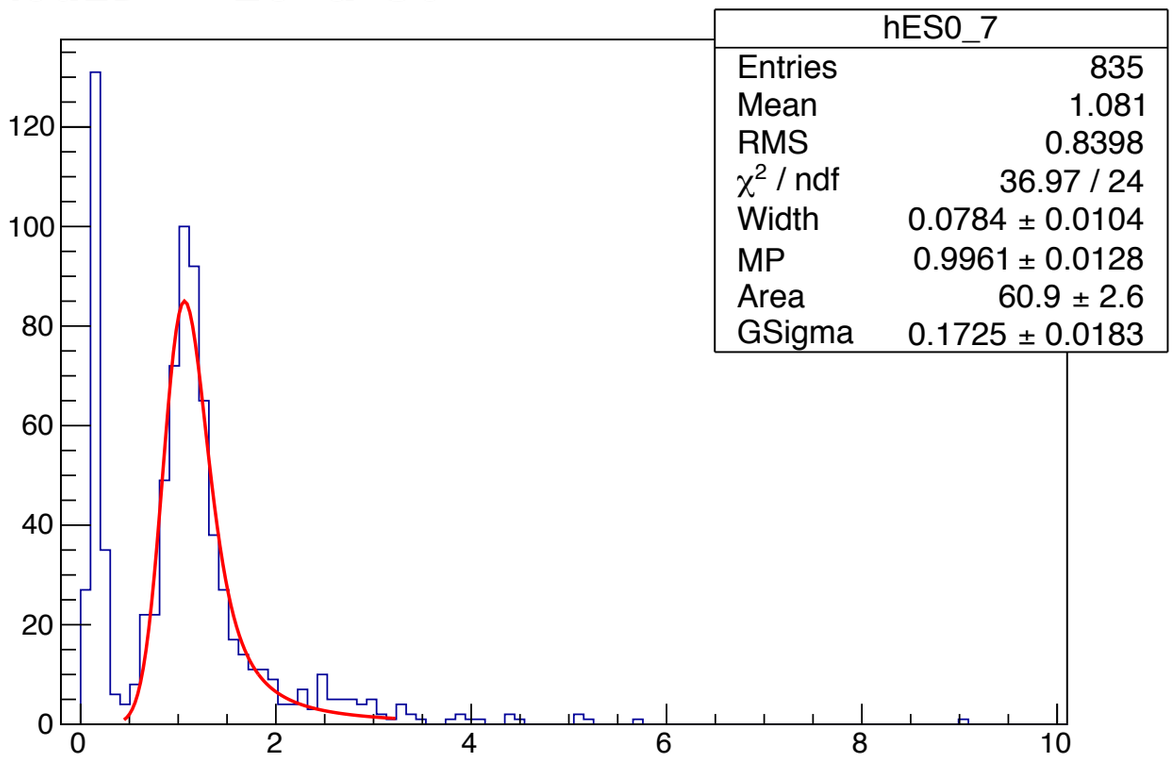
ModID = 24 & 26 hES2_6



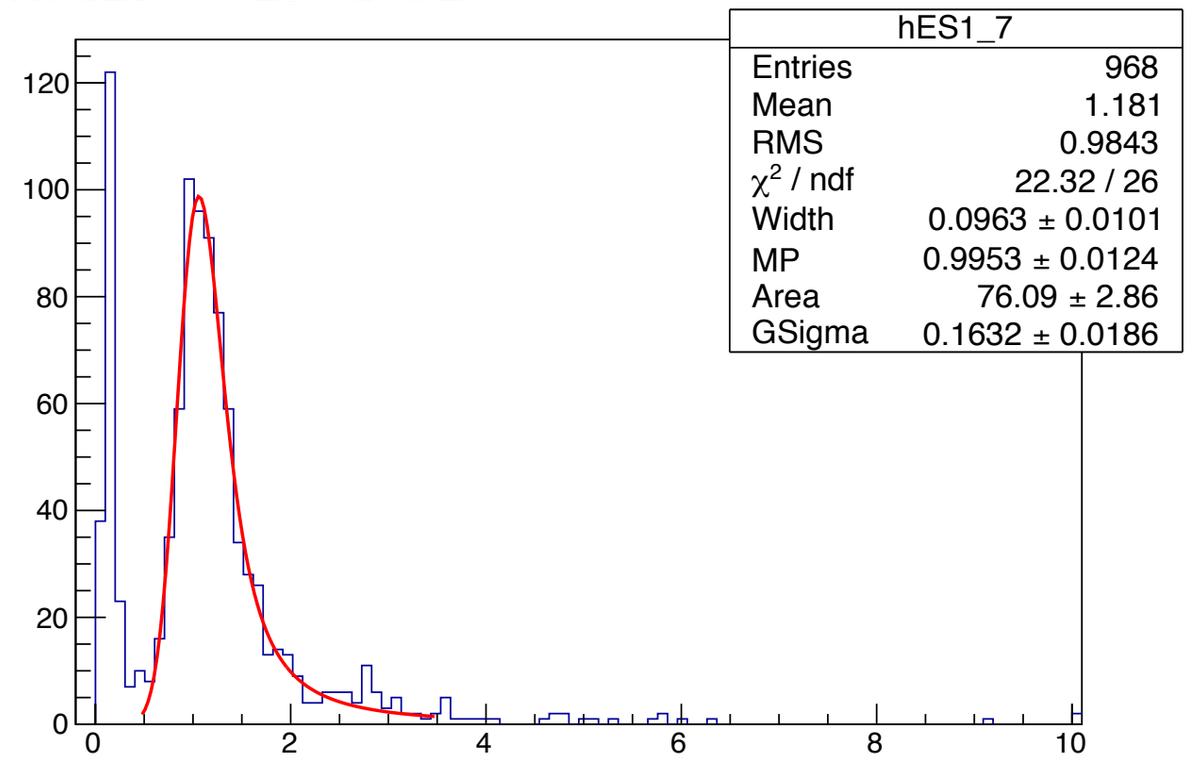
ModID = 25 & 27 hES3_6



ModID = 28 & 30 hES0_7

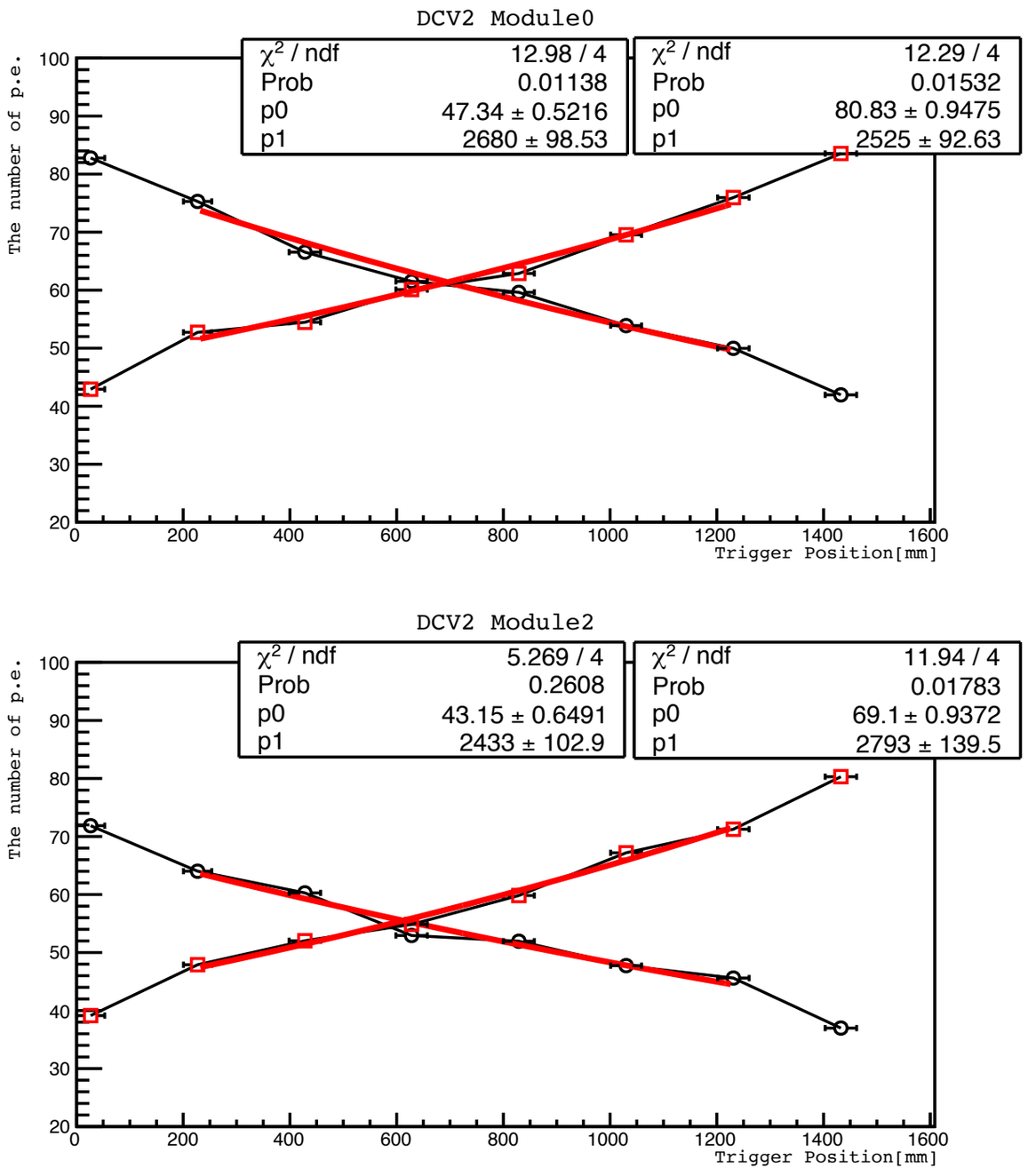


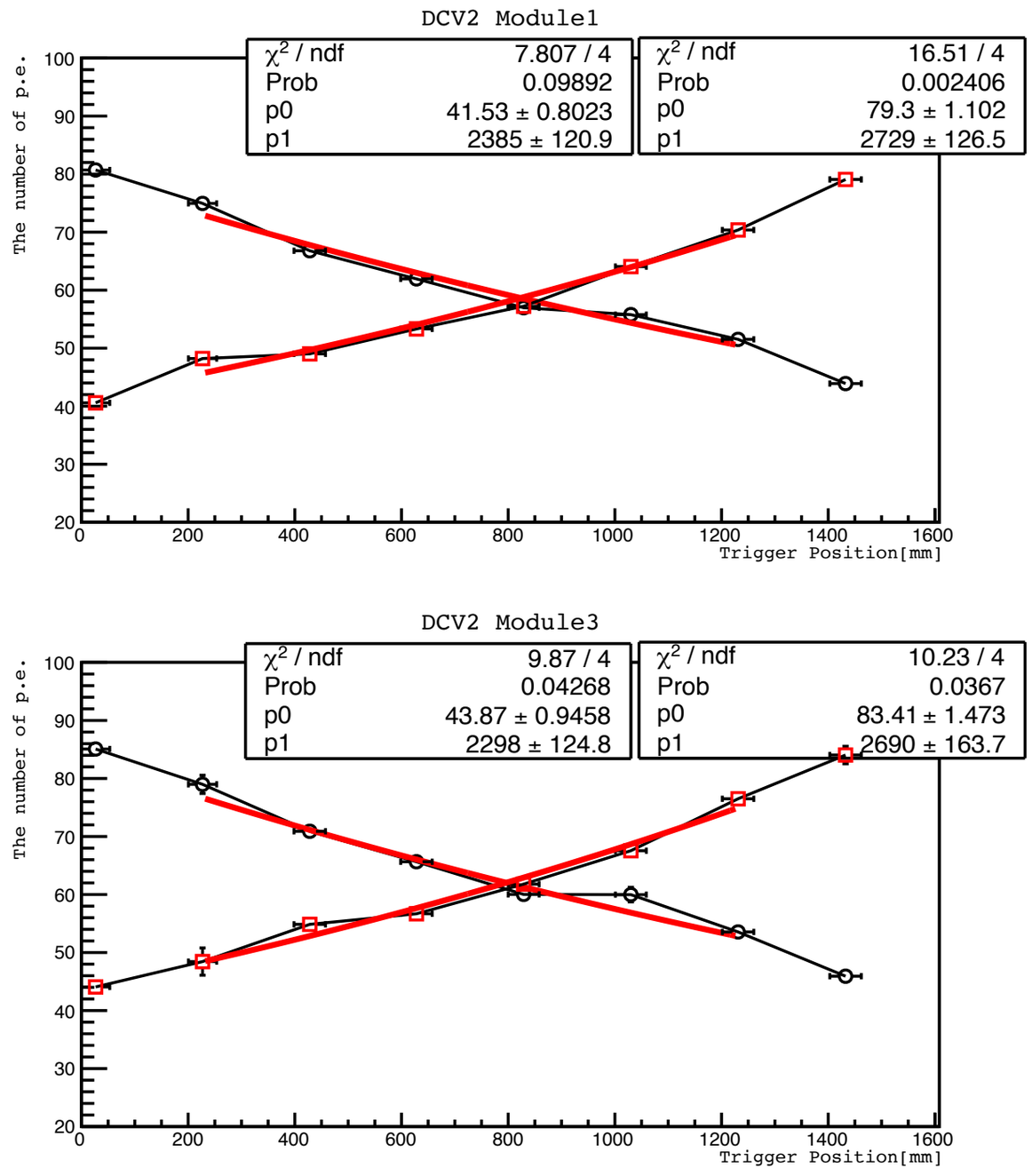
ModID = 29 & 31 hES1_7



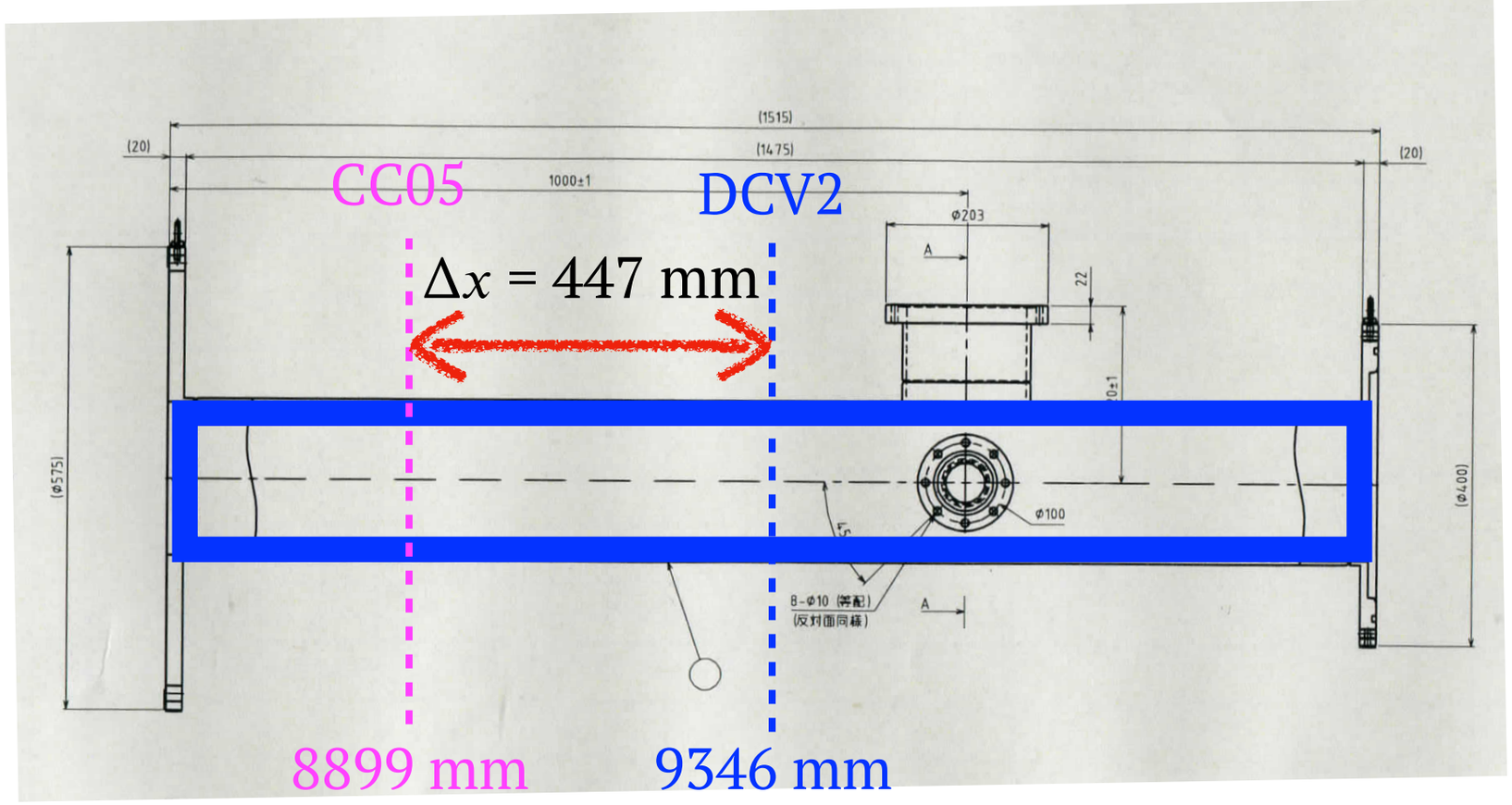
DCV2cosmic_pe.C

- fitting function = [0]*exp(±x/[1])
- fitting range 227 mm ~ 1231 mm





Attenuation Length λ_{avg} = 2567 mm




```
float lambda = 2567; // Attenuation Length
float pos_DCV2 = 9346; // Center position of DCV2
float pos_CC05 = 8899; // Center position of CC05
float att_f = exp((pos_DCV2 - pos_CC05)/lambda);
float att_r = exp(-(pos_DCV2 - pos_CC05)/lambda);

float att05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                   1.,1.,1.,1.,1.,1.,1.,1.,
                   att_f,att_f,att_r,att_r,
                   att_f,att_f,att_r,att_r,
                   att_f,att_f,att_r,att_r,
                   att_f,att_f,att_r,att_r };

cout << "att_f : " << att_f << ", att_r : " << att_r << endl;
```

```
att_f : 1.19021, att_r : 0.840185
```

```
float gain05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                    1.,1.,1.,1.,1.,1.,1.,1.,
                    300. ,331.2,215.1,197. ,
                    262.5,242.6,154.1,154.8,
                    310.8,248.8,225.7,172.1,
                    274.1,264.7,157.2,159.1 };

float norm05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                    1.,1.,1.,1.,1.,1.,1.,1.,
                    1.374,1.327,1.498,1.422,
                    1.146,1.131,1.225,1.216,
                    1.384,1.308,1.292,1.207,
                    1.124,1.161,1.168,1.217 };

float norm_module05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                           1.,1.,1.,1.,1.,1.,1.,1.,
                           2.074,1.957,2.074,1.957,
                           2.037,2.075,2.037,2.075,
                           2.097,1.972,2.097,1.972,
                           2.053,2.062,2.053,2.062 };

float att05[32] = {1.,1.,1.,1.,1.,1.,1.,1.,
                   1.,1.,1.,1.,1.,1.,1.,1.,
                   att_f,att_f,att_r,att_r,
                   att_f,att_f,att_r,att_r,
                   att_f,att_f,att_r,att_r,
                   att_f,att_f,att_r,att_r };

float calibration_factor[32];

for(int i=0;i<32;i++){

      calibration_factor[i] = att05[i]/(gain05[i] * norm05[i] * norm_module05[i]);

      cout << "DCV Ch : " << i << ", Calib_Factor : " << calibration_factor[i] << endl;
}
```

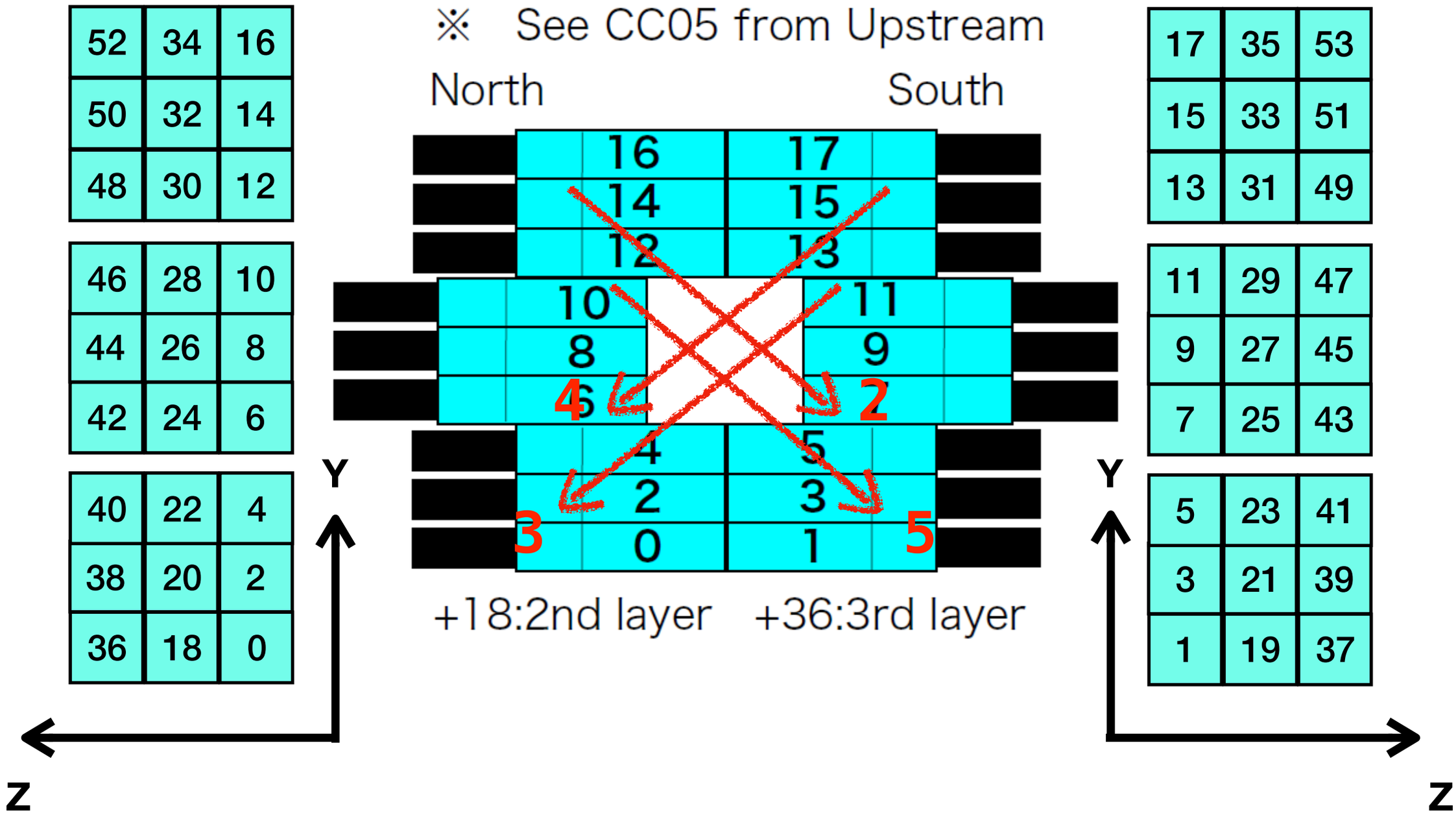
```
DCV Ch : 16, Calib_Factor : 0.00139222
DCV Ch : 17, Calib_Factor : 0.0013838
DCV Ch : 18, Calib_Factor : 0.00125723
DCV Ch : 19, Calib_Factor : 0.00153256
DCV Ch : 20, Calib_Factor : 0.00194232
DCV Ch : 21, Calib_Factor : 0.00209052
DCV Ch : 22, Calib_Factor : 0.00218497
DCV Ch : 23, Calib_Factor : 0.00215106
DCV Ch : 24, Calib_Factor : 0.0013195
DCV Ch : 25, Calib_Factor : 0.00185464
DCV Ch : 26, Calib_Factor : 0.00137399
DCV Ch : 27, Calib_Factor : 0.00205107
DCV Ch : 28, Calib_Factor : 0.00188175
DCV Ch : 29, Calib_Factor : 0.00187824
DCV Ch : 30, Calib_Factor : 0.0022289
DCV Ch : 31, Calib_Factor : 0.00210439
```

Check again for DCV2 because the strange distribution of Module 0 & 2

CC05

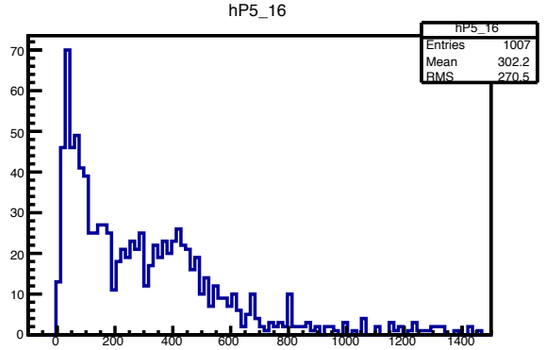
※ See CC05 from Upstream

North South

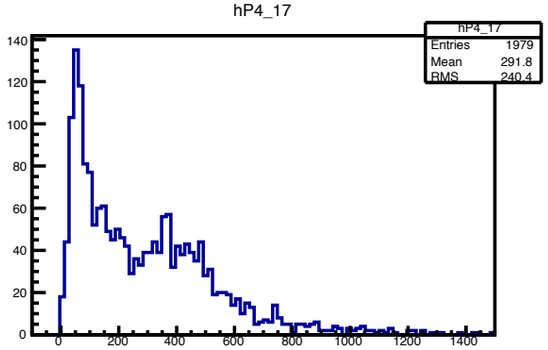


Pulse Height Distribution
hP(Flag)_(DCVModID)

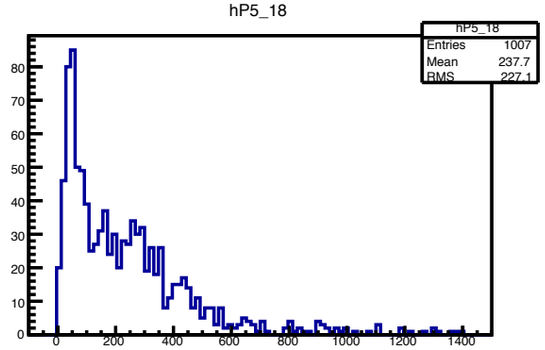
hP5_16



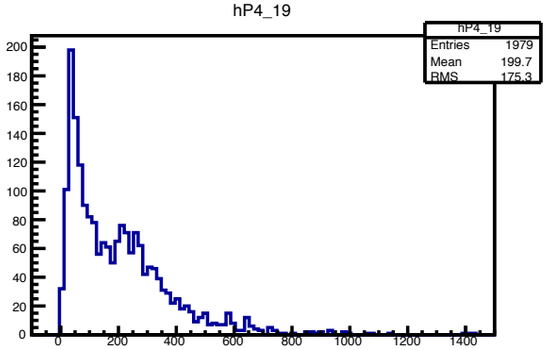
hP4_17



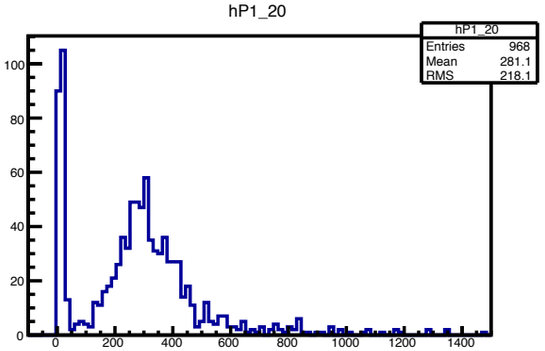
hP5_18



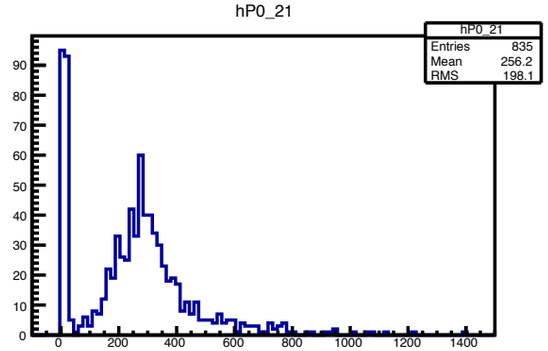
hP4_19



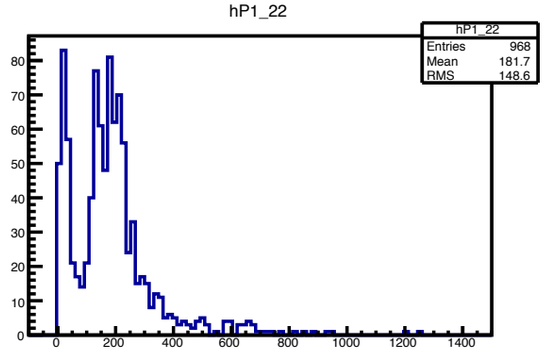
hP1_20



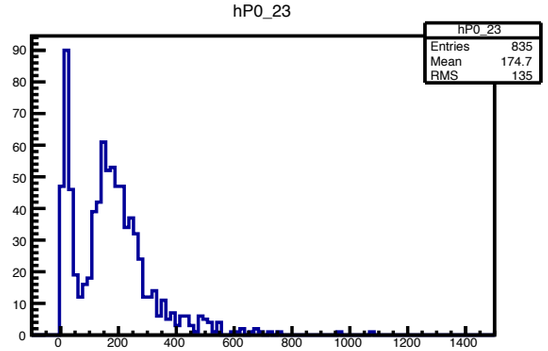
hP0_21



hP1_22



hP0_23



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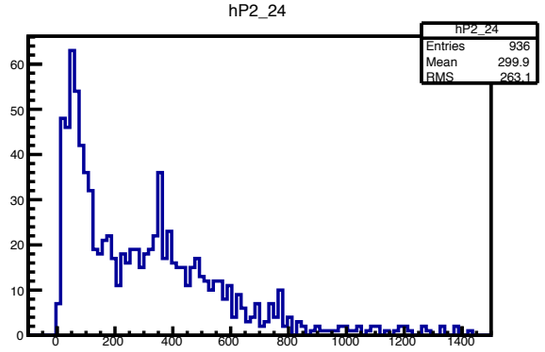

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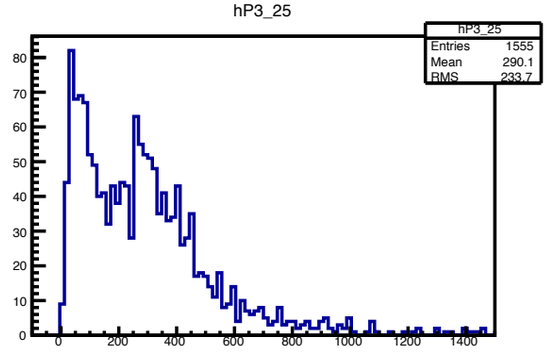

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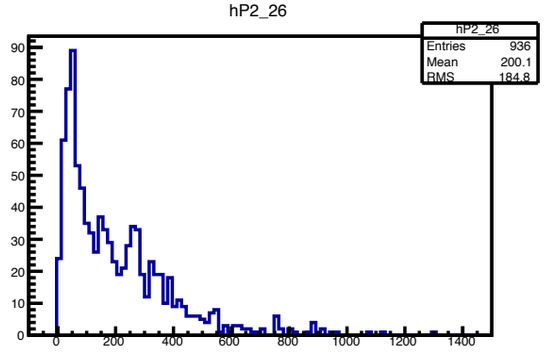

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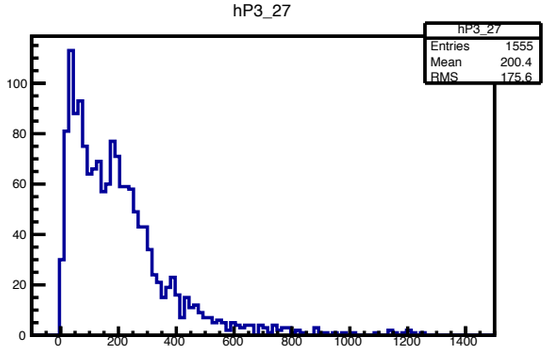

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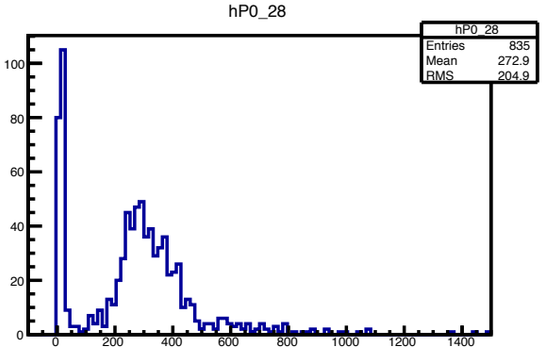
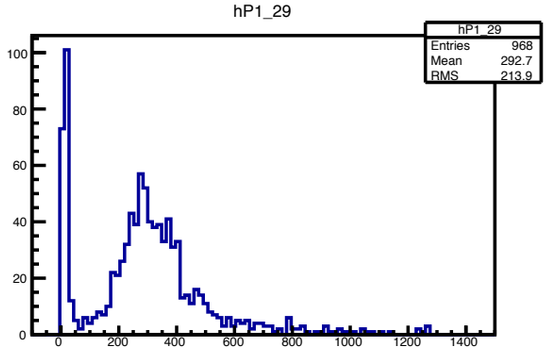
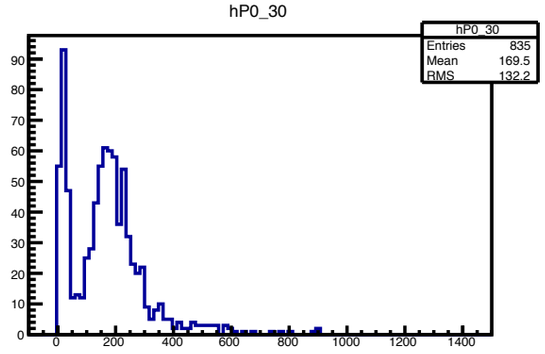


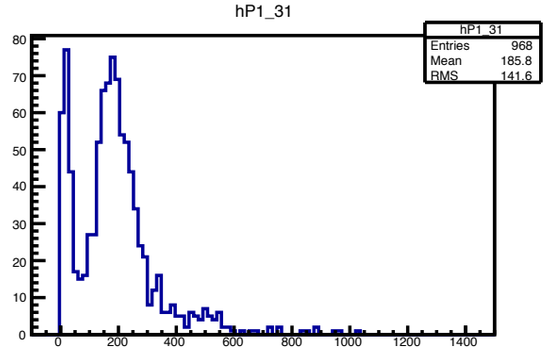
hP1_29



hP0_30



hP1_31



CC05

Add Veto?

※ See CC05 from Upstream

North

South

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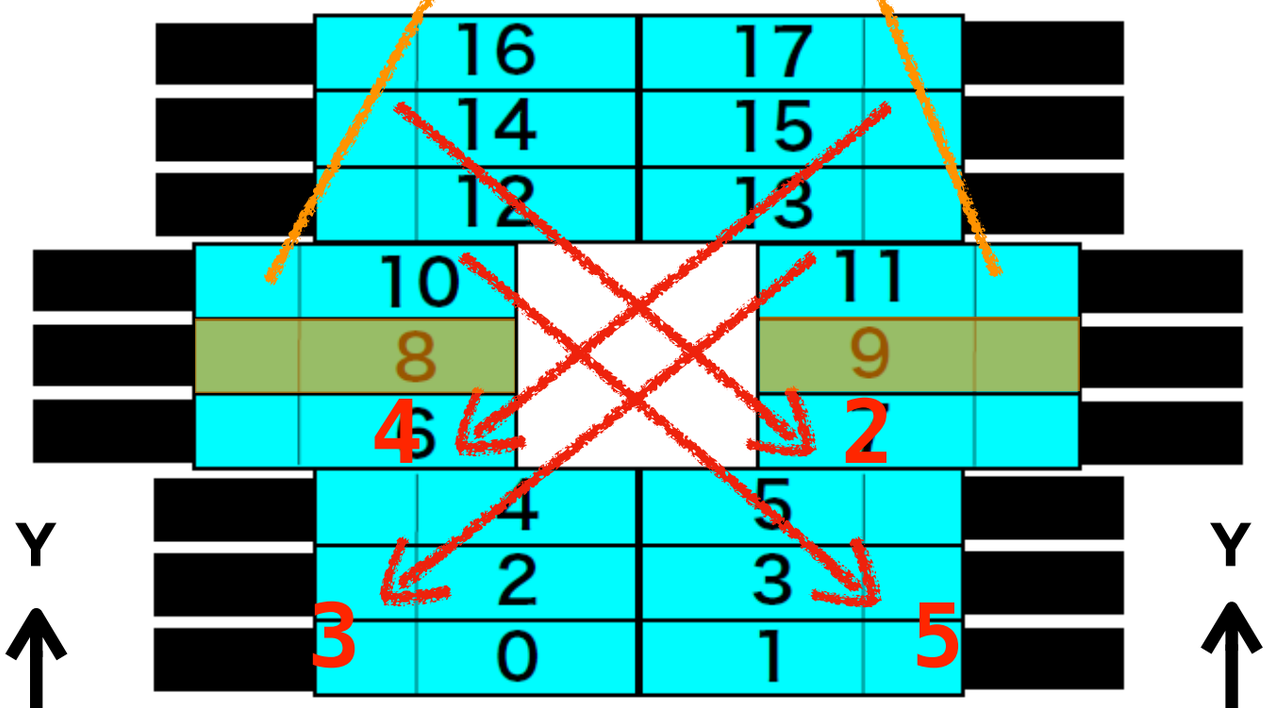
50	32	14
48	30	12

46	28	10
44	26	8
42	24	6

40	22	4
38	20	2
36	18	0



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

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15	33	51
13	31	49

11	29	47
9	27	45
7	25	43

5	23	41
3	21	39
1	19	37

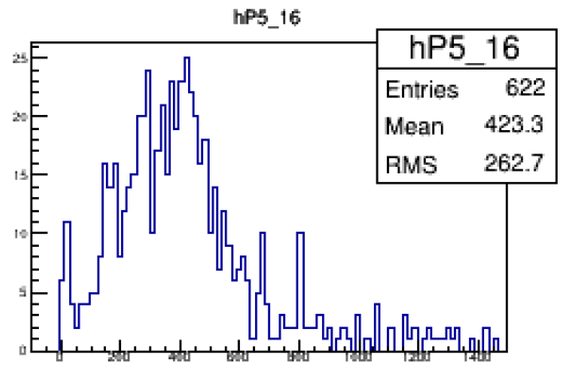
Y

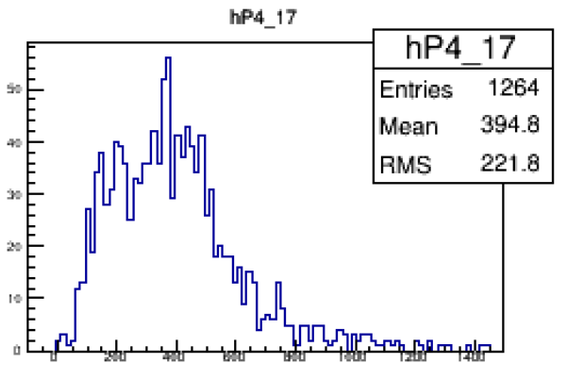
Z

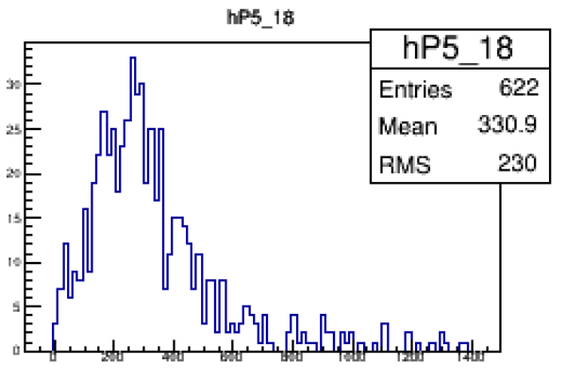
Y

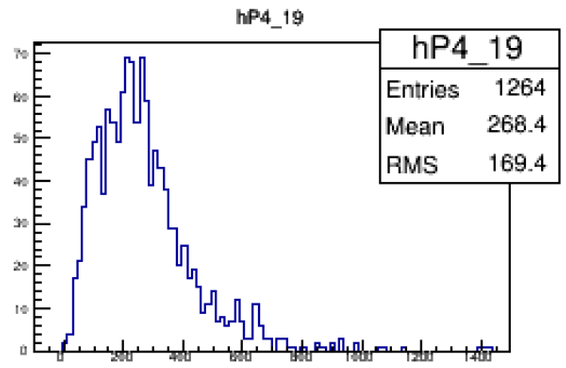
Z

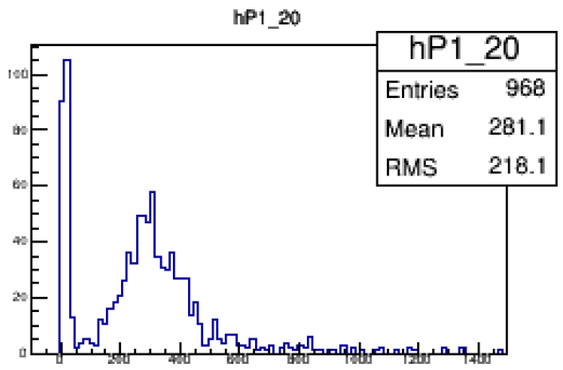
Pulse Height Distribution
hP(Flag)_(DCVModID)

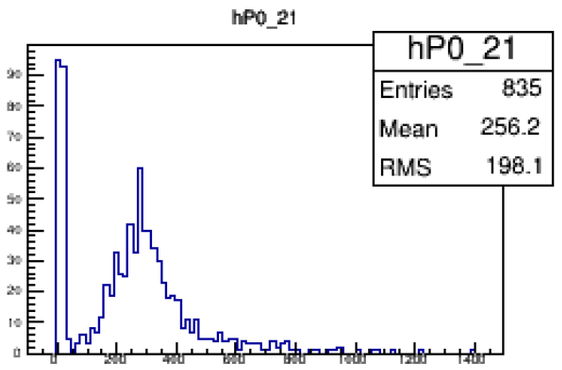


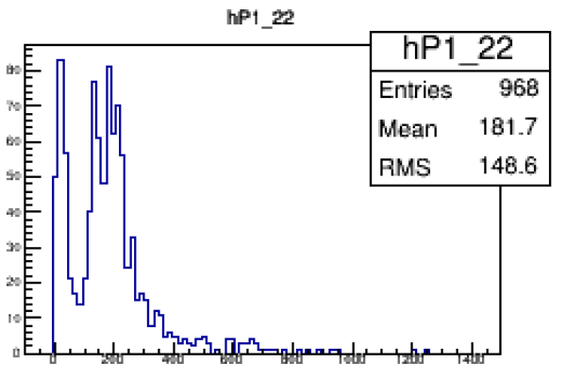


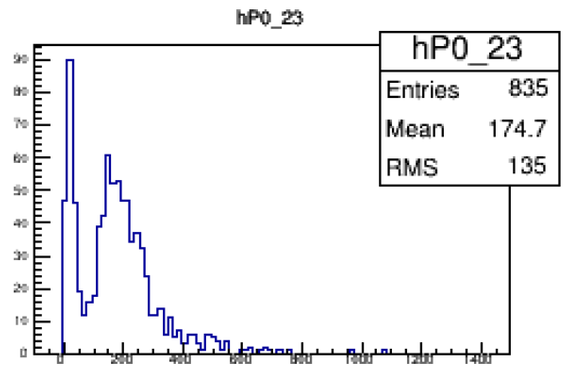


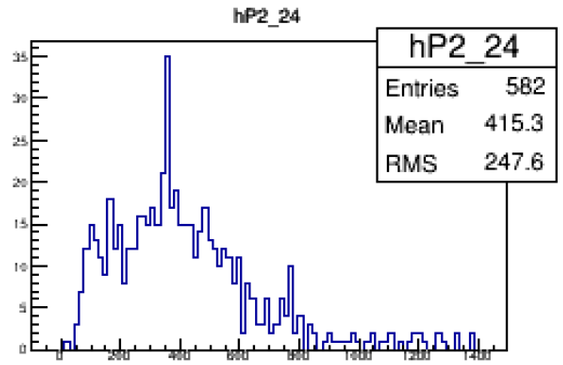


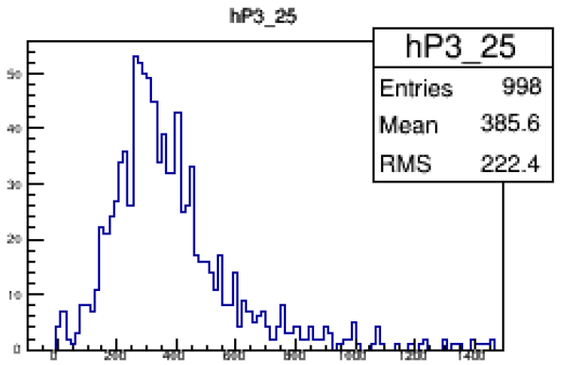


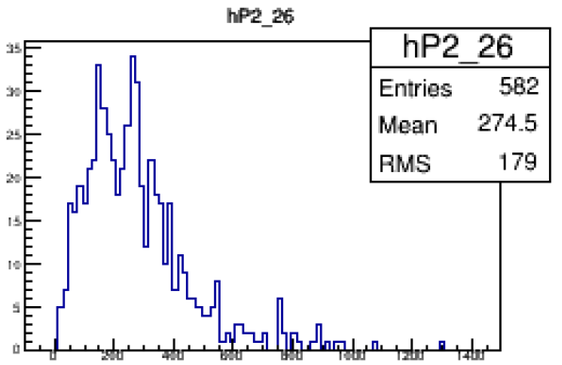


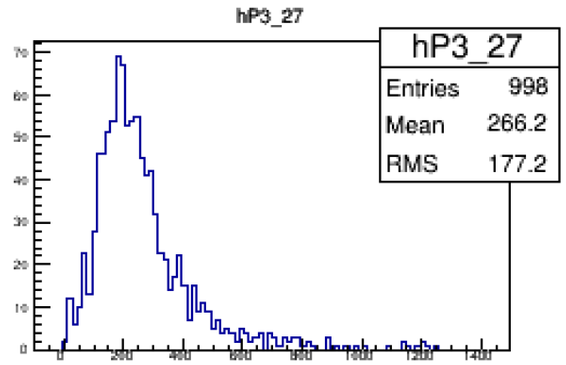


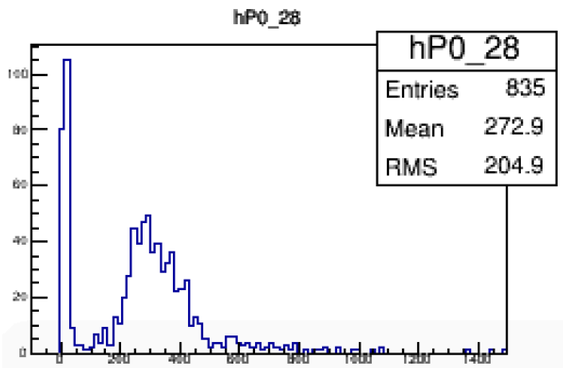


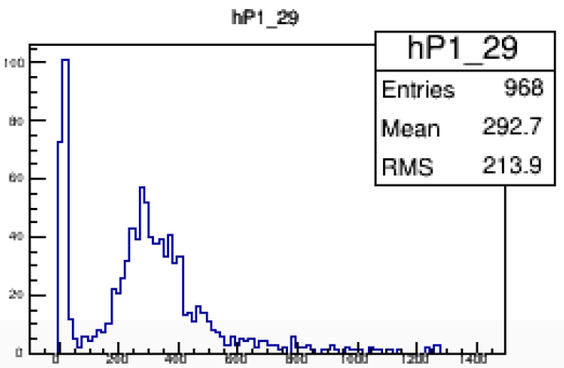


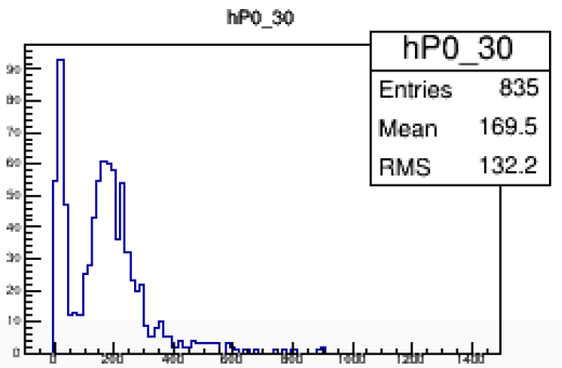


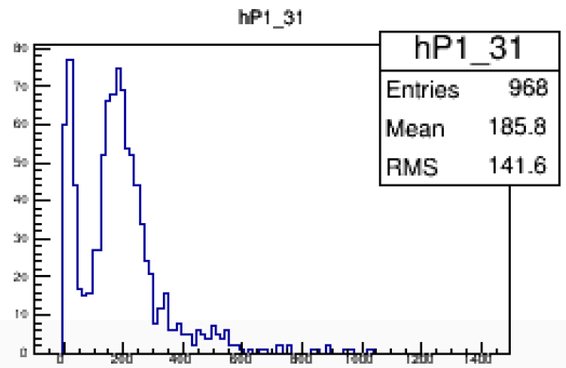








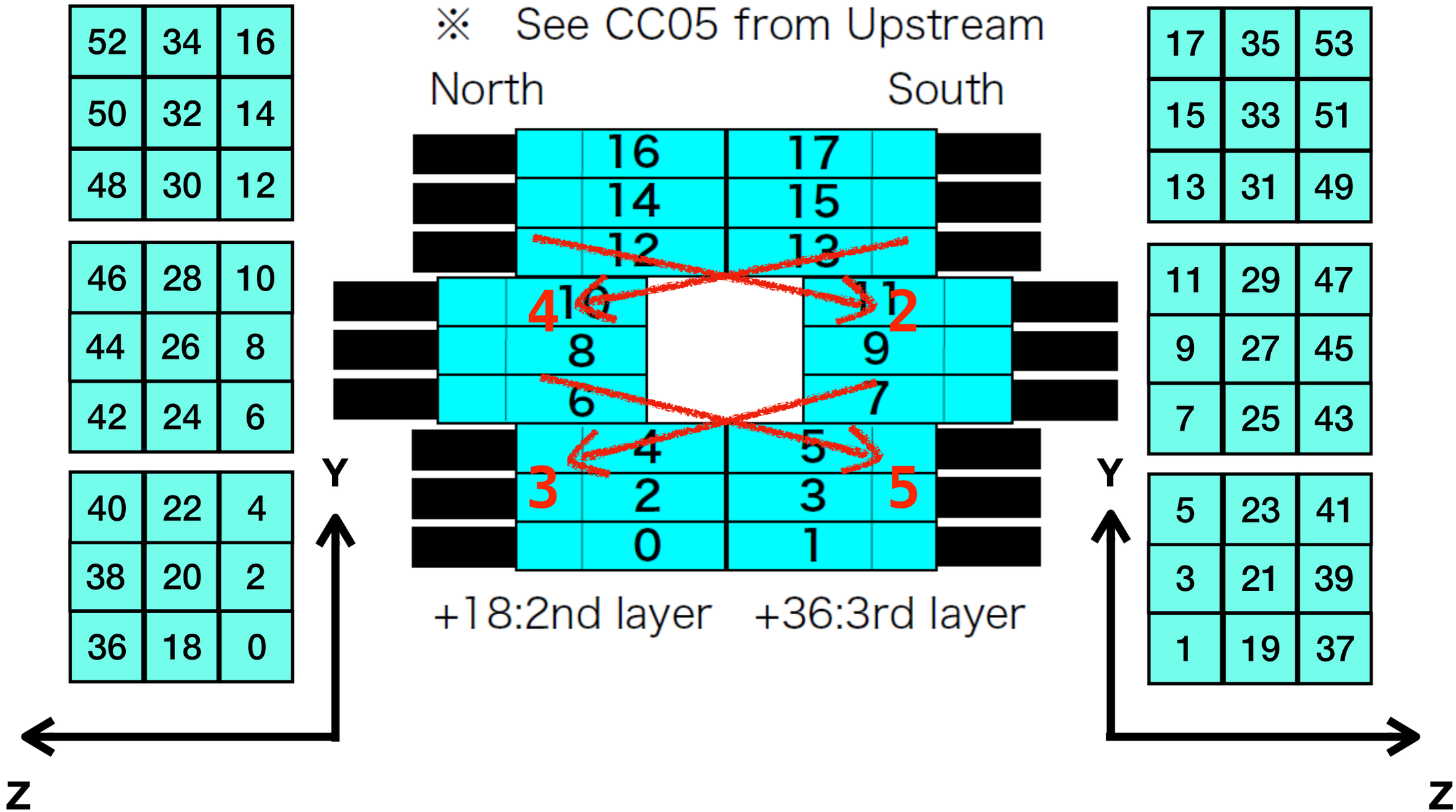




CC05

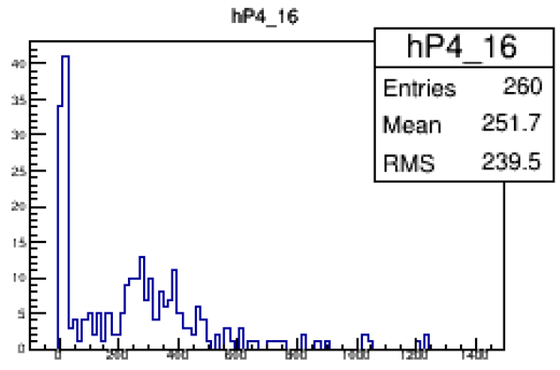
※ See CC05 from Upstream

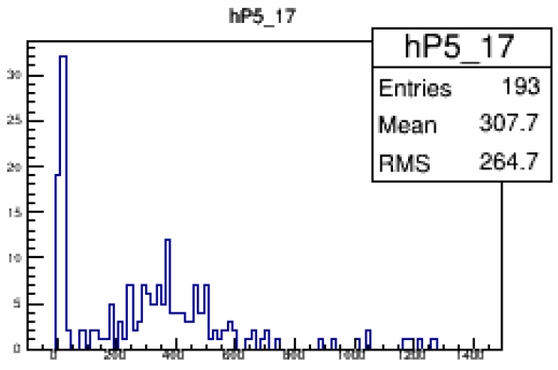
North South

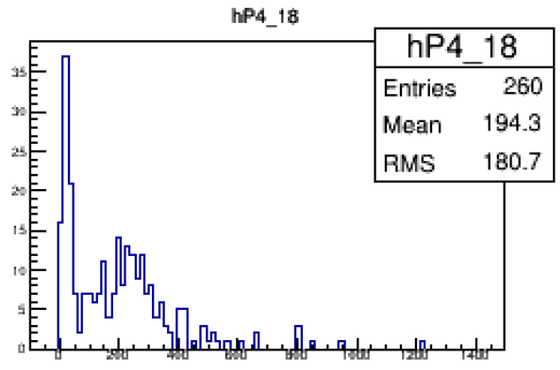


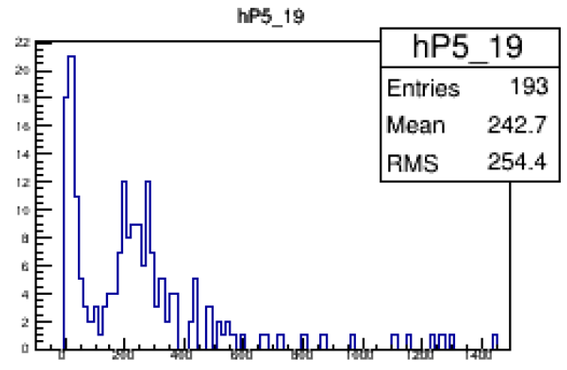
+18:2nd layer +36:3rd layer

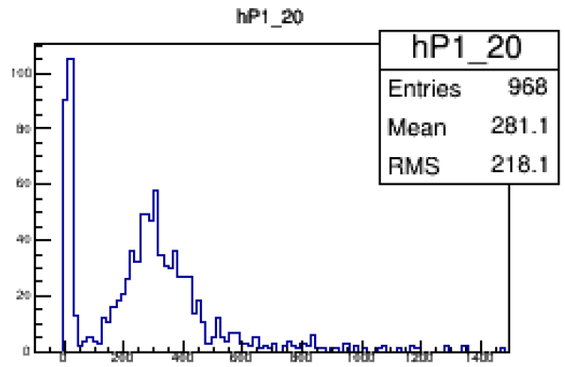
Pulse Height Distribution
hP(Flag)_(DCVModID)

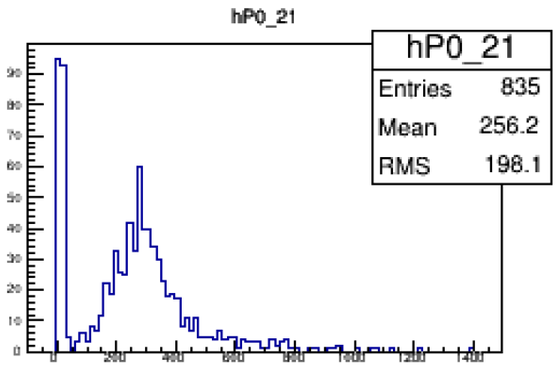


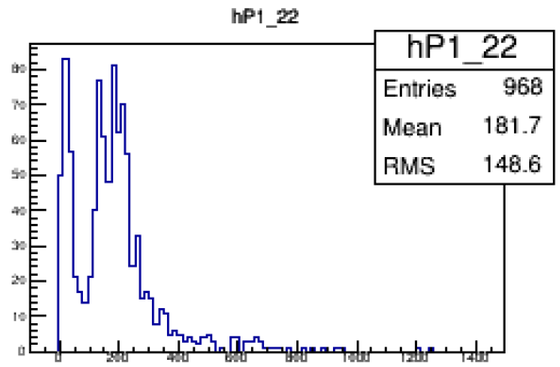


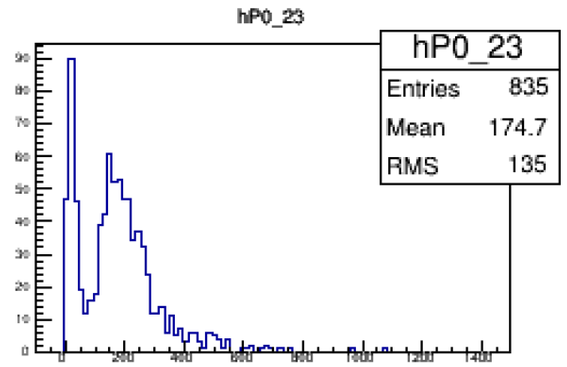


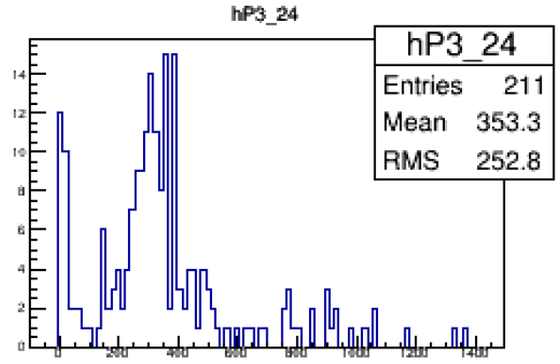


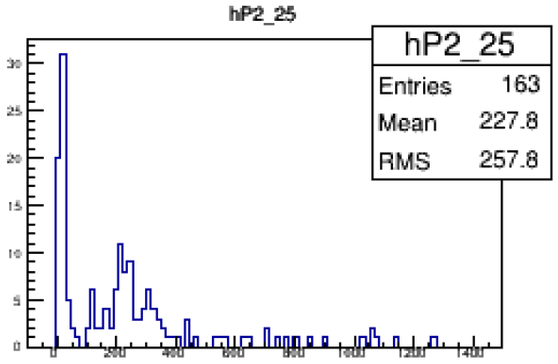


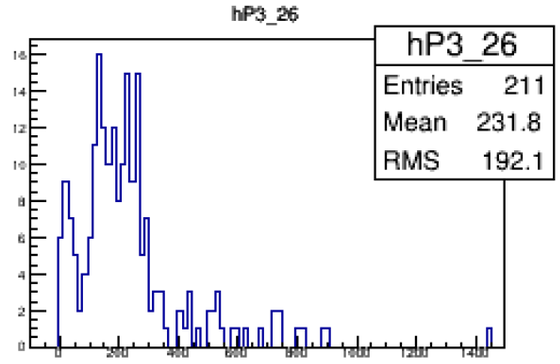


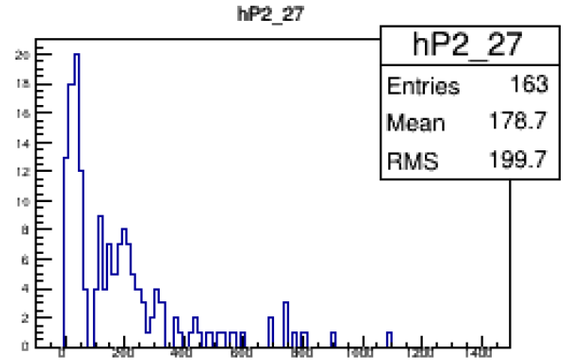


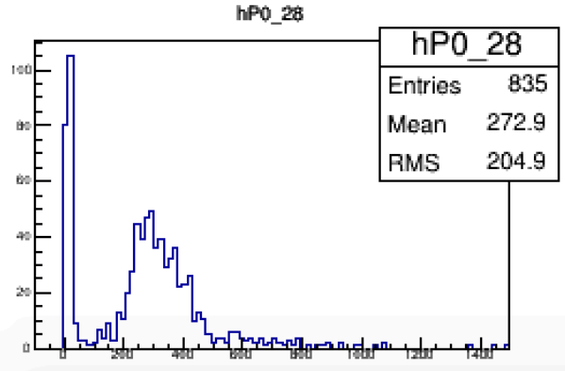


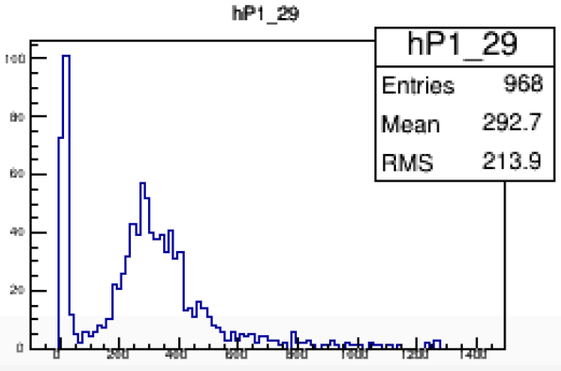


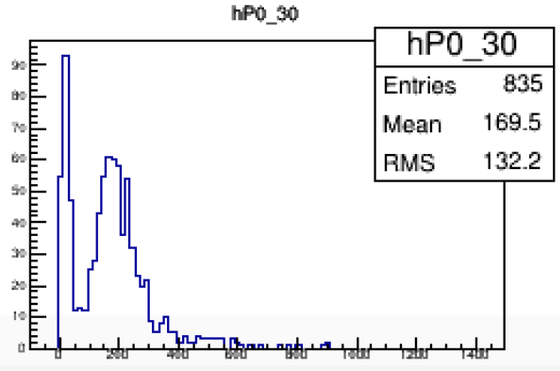


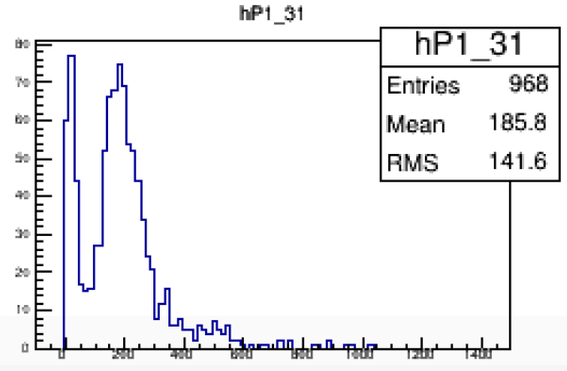








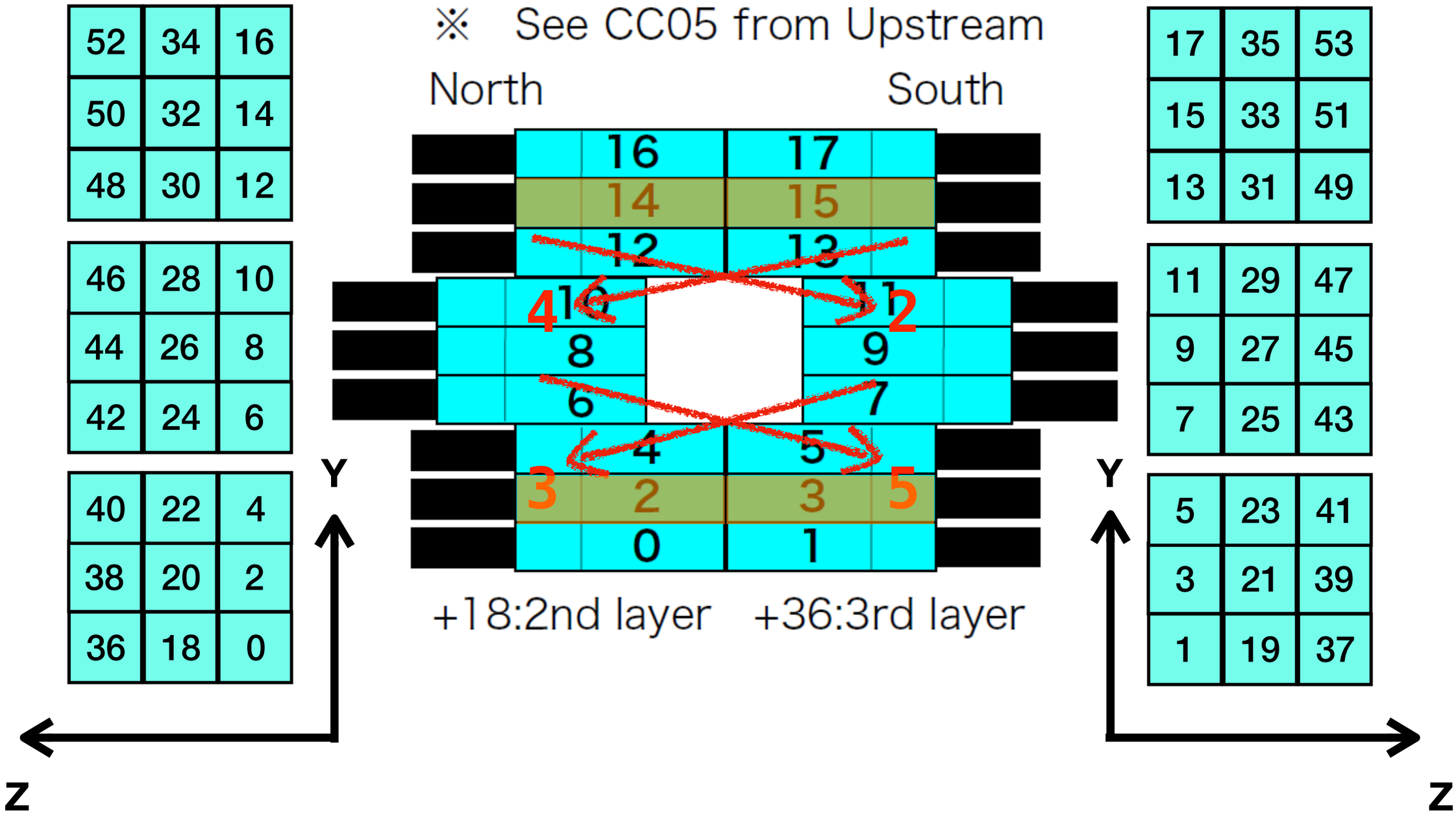




CC05

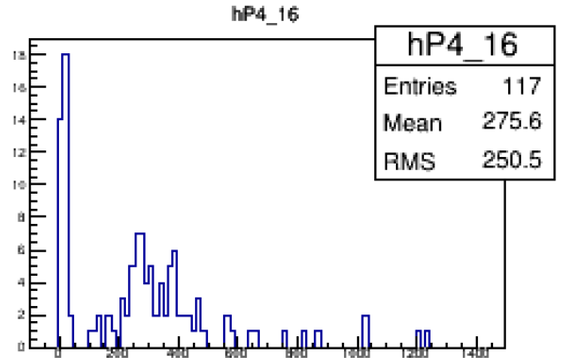
※ See CC05 from Upstream

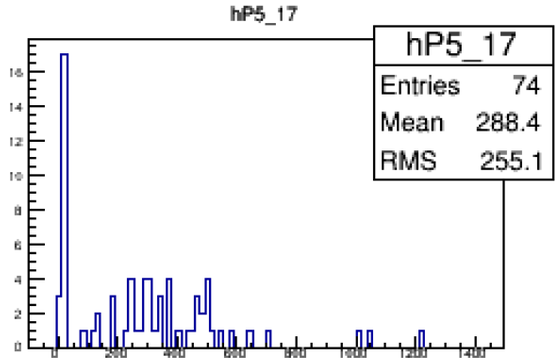
North South

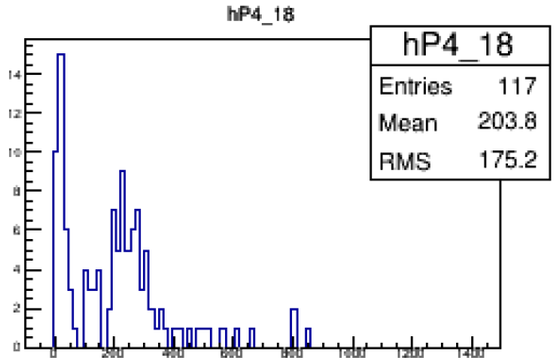


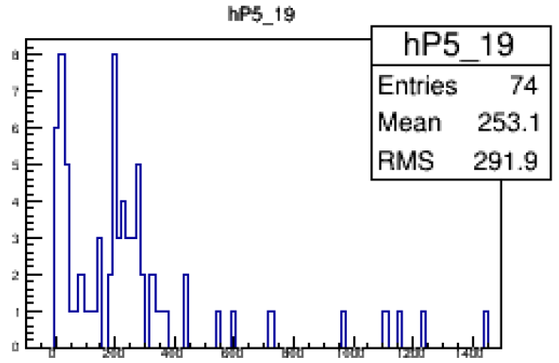
+18:2nd layer +36:3rd layer

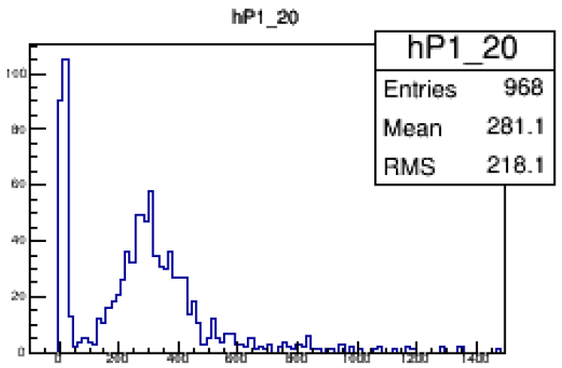
Pulse Height Distribution
hP(Flag)_(DCVModID)

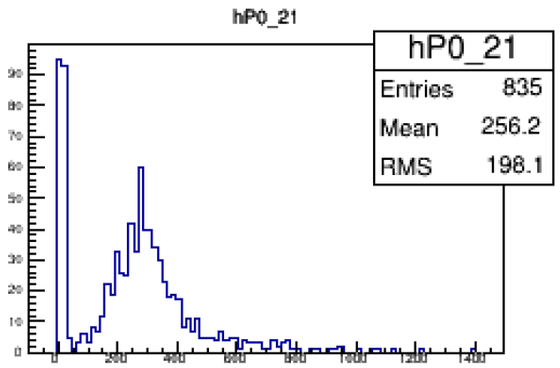


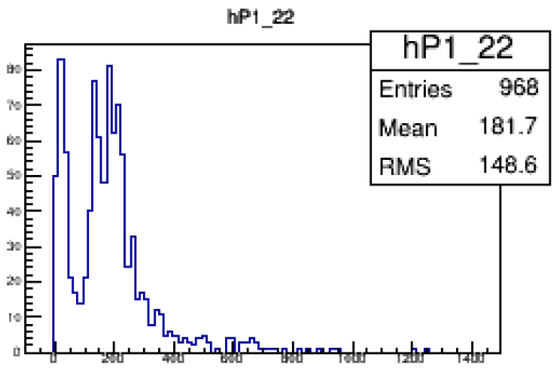


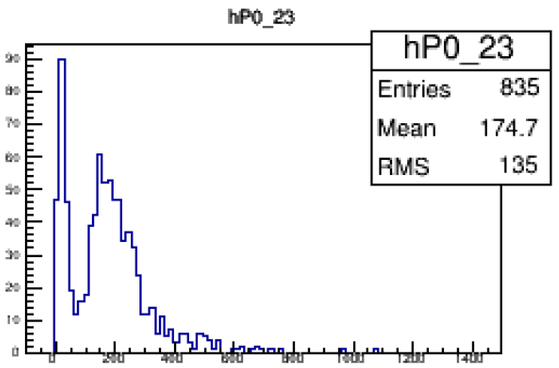


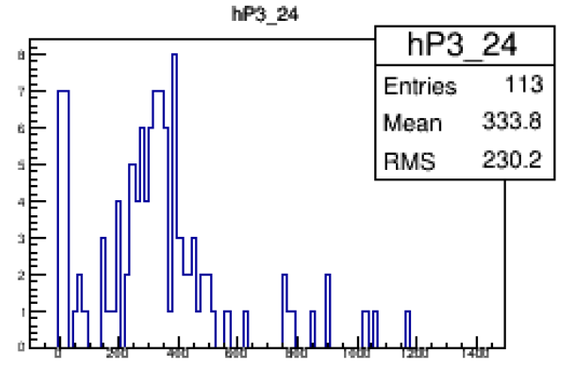


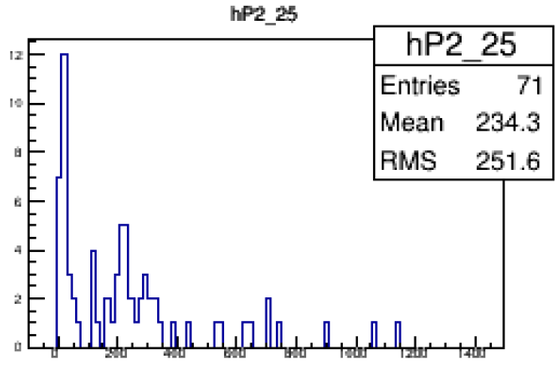


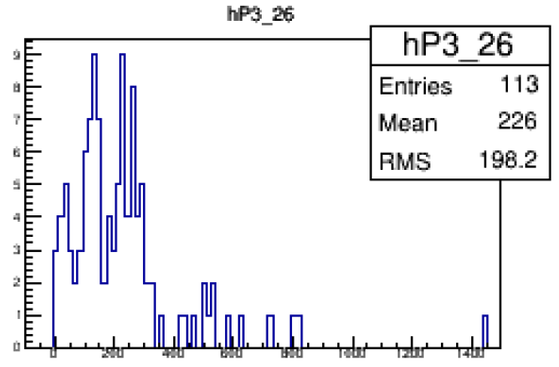


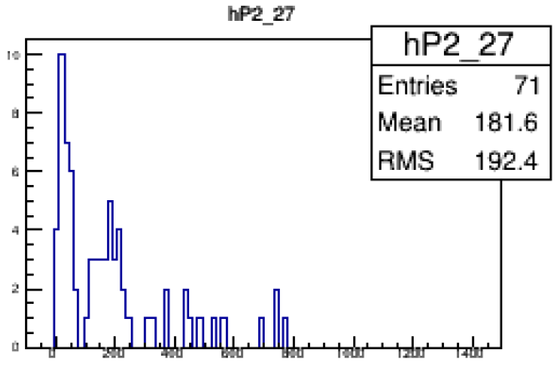


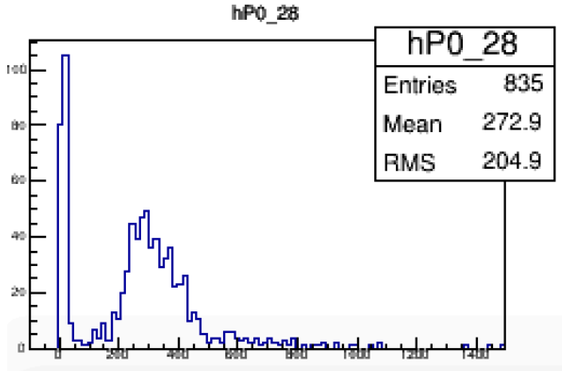


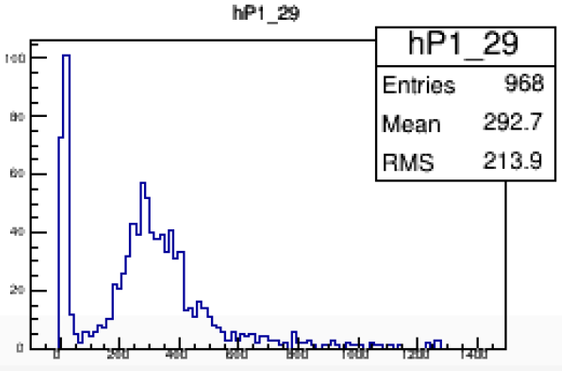


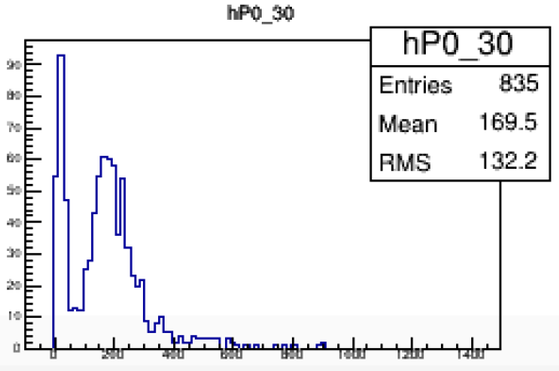


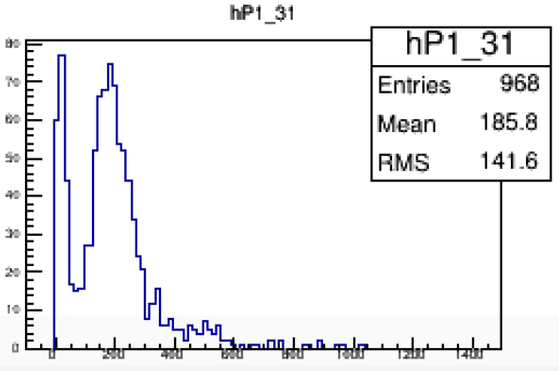












CC05

※ See CC05 from Upstream

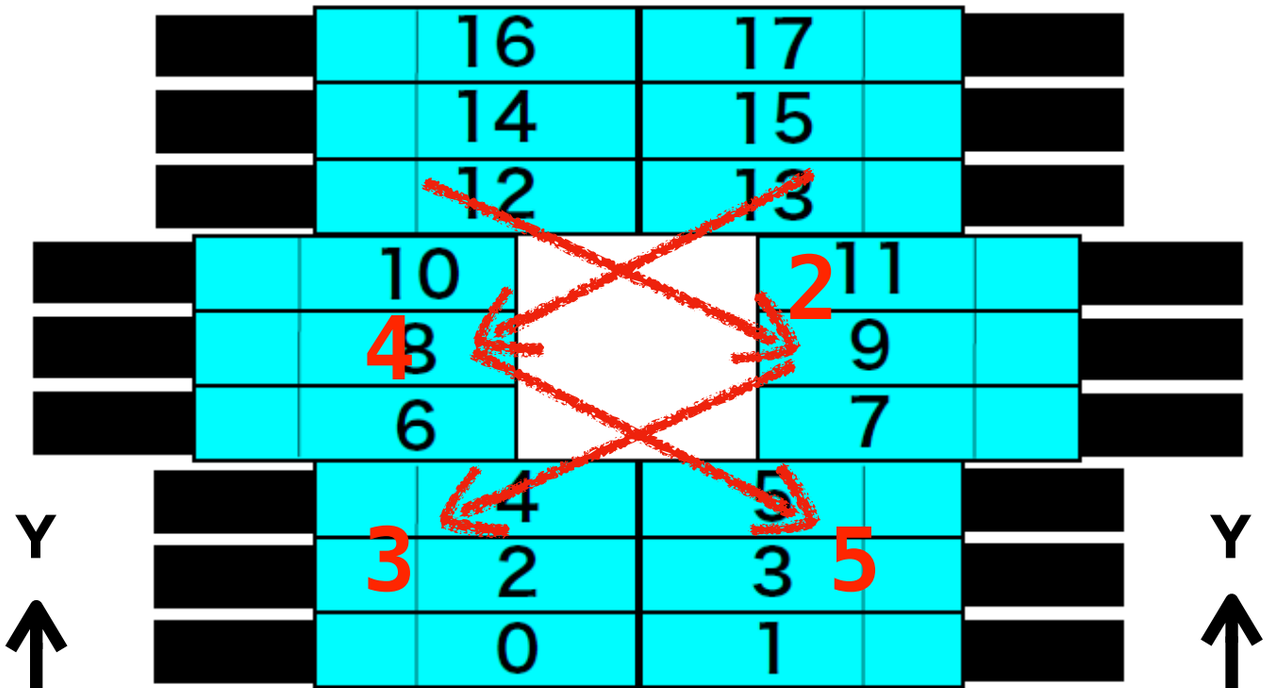
North

South

52	34	16
50	32	14
48	30	12

46	28	10
44	26	8
42	24	6

40	22	4
38	20	2
36	18	0



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

17	35	53
15	33	51
13	31	49

11	29	47
9	27	45
7	25	43

5	23	41
3	21	39
1	19	37

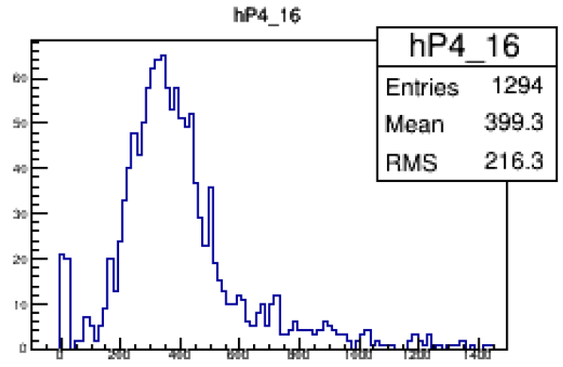
Y

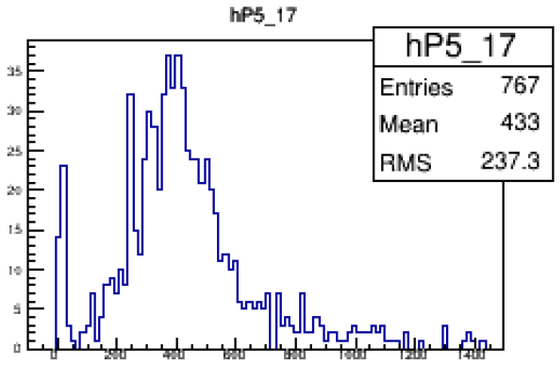
Z

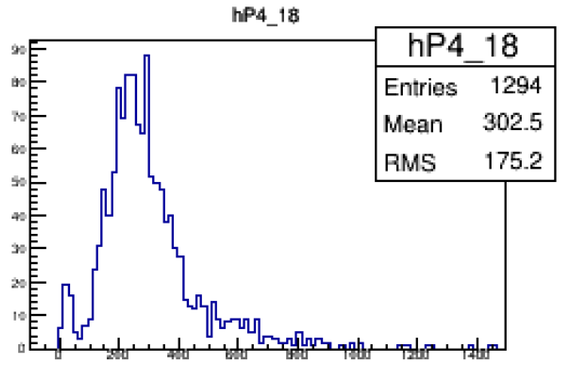
Y

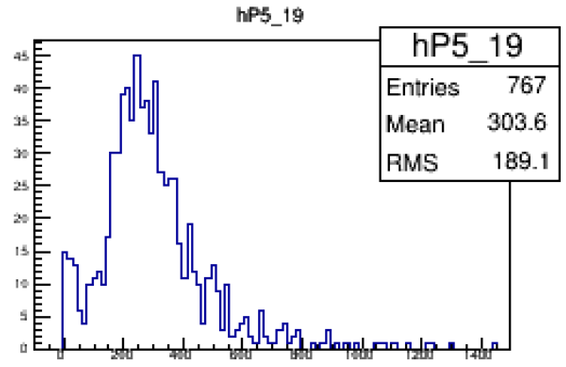
Z

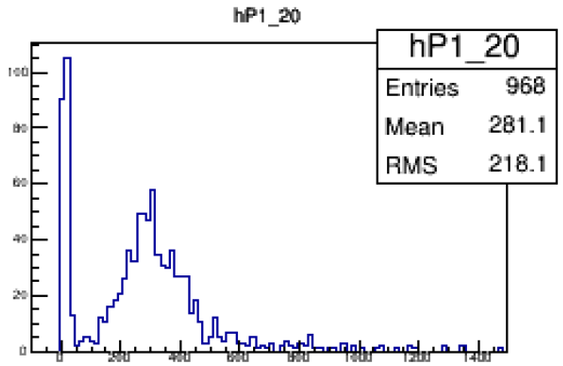
Pulse Height Distribution
hP(Flag)_(DCVModID)

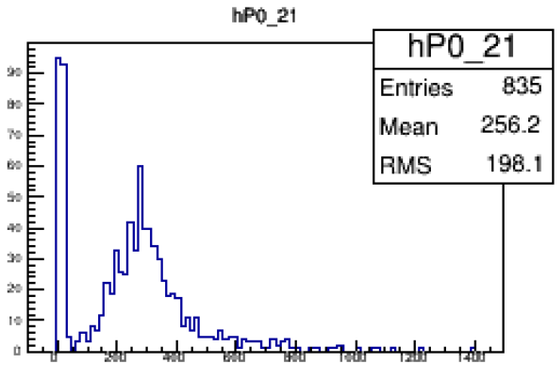


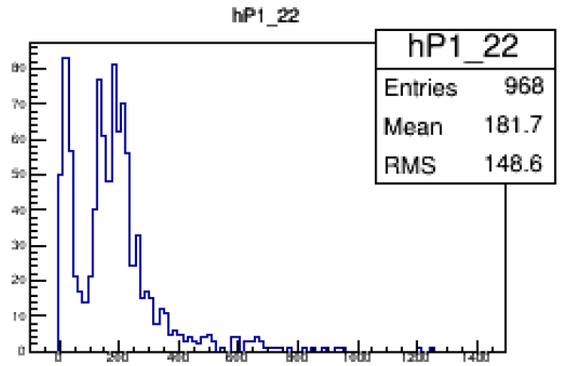


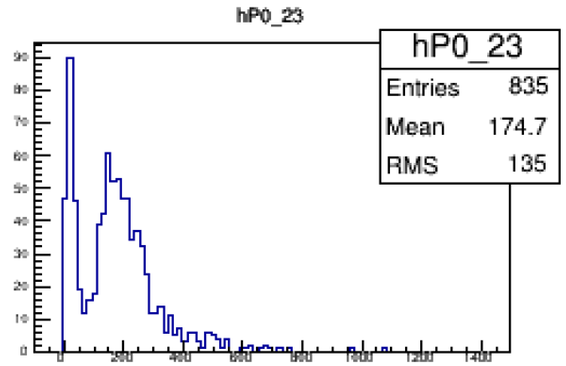


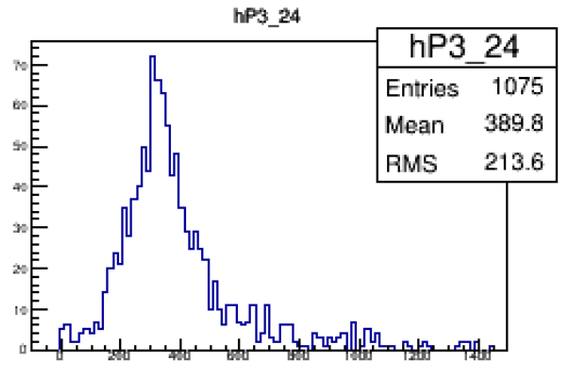


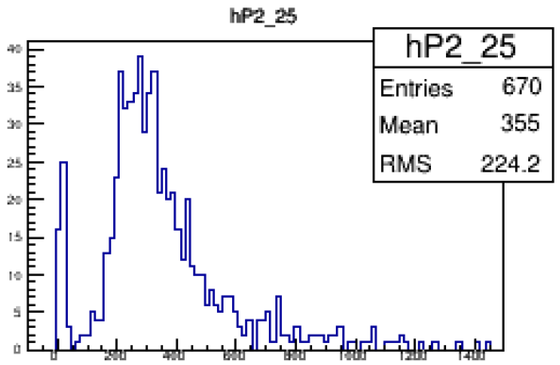


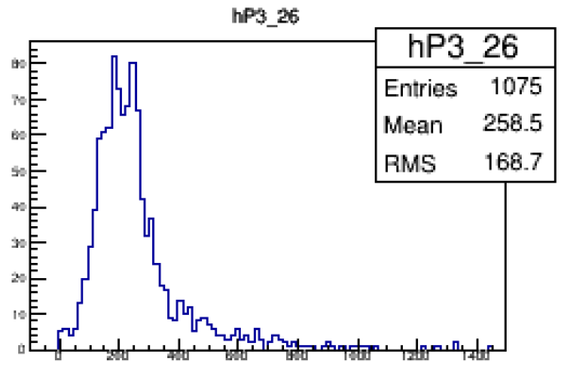


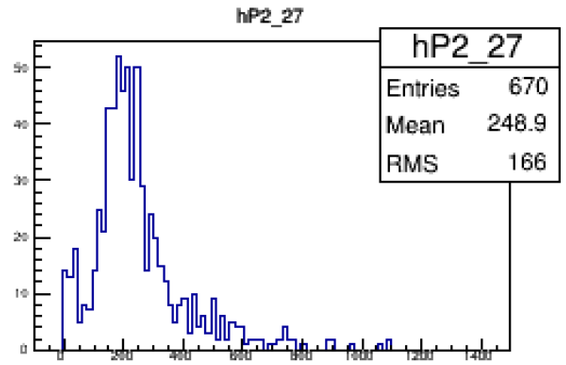


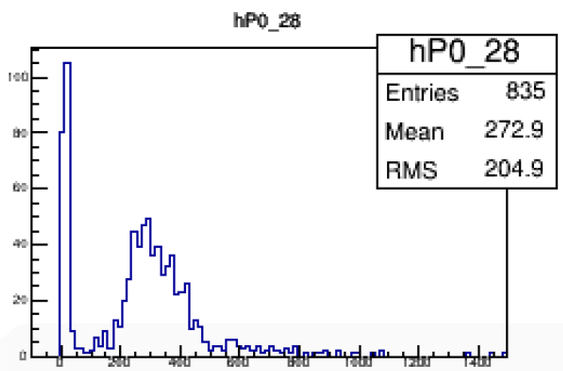


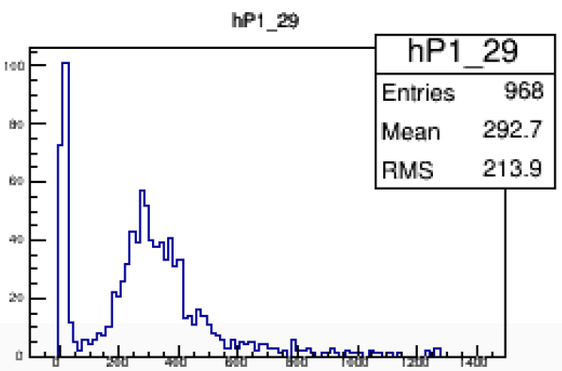


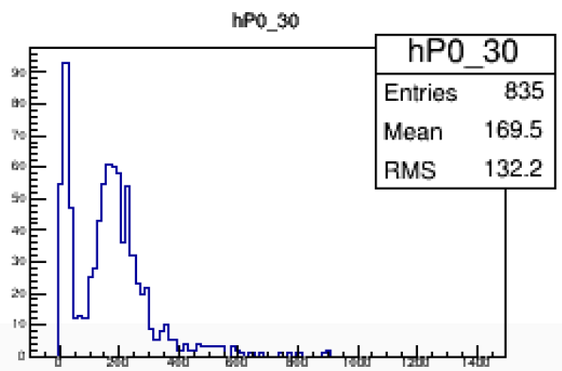


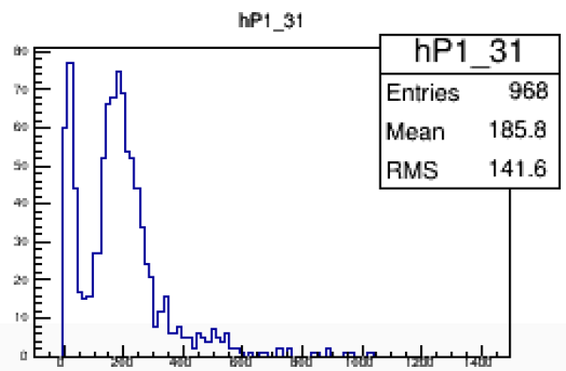








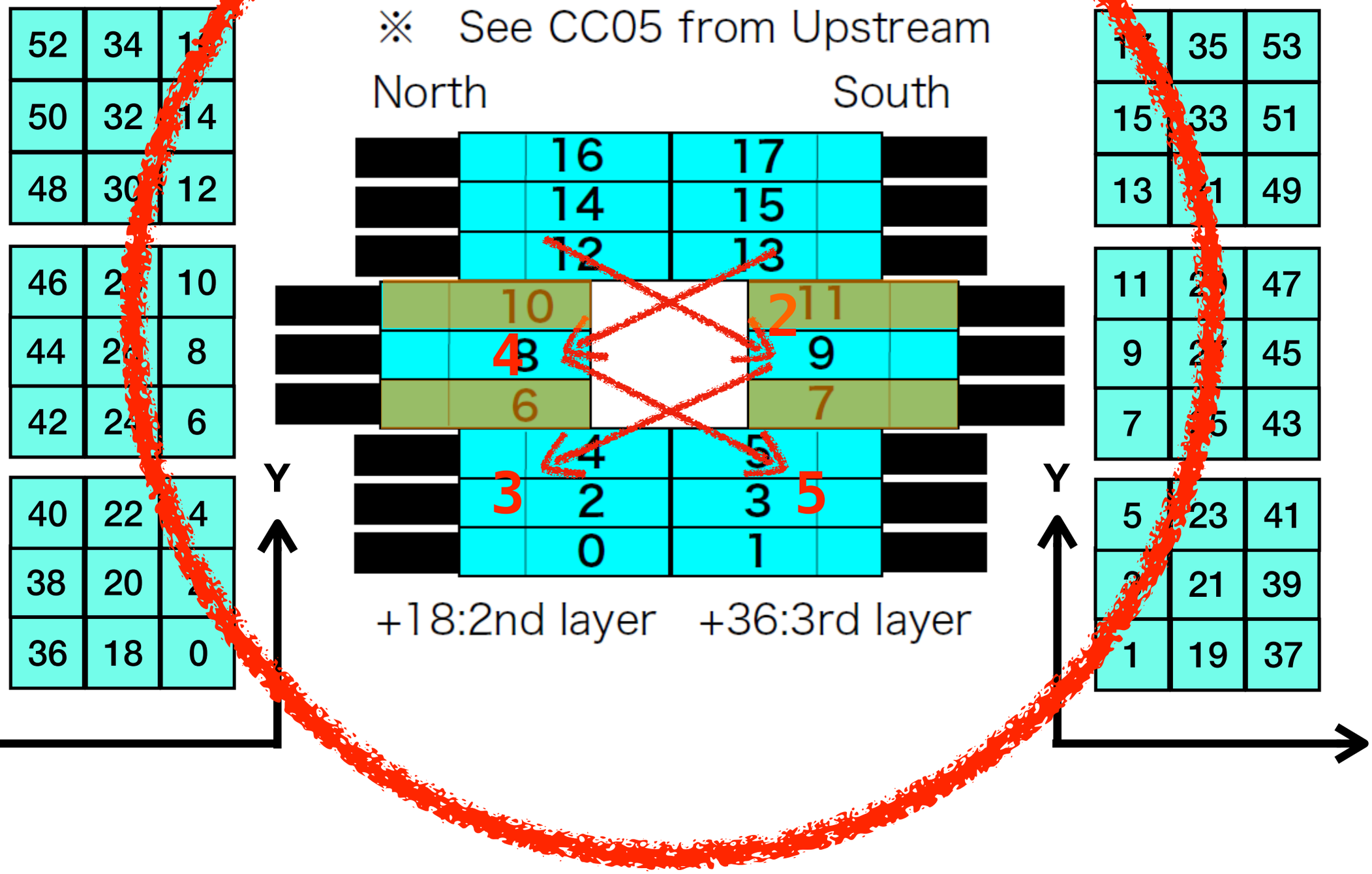




CC05

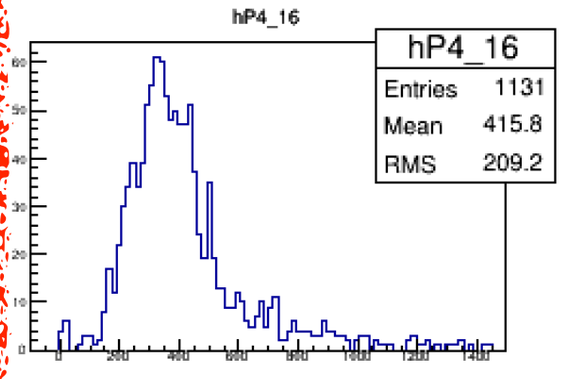
※ See CC05 from Upstream

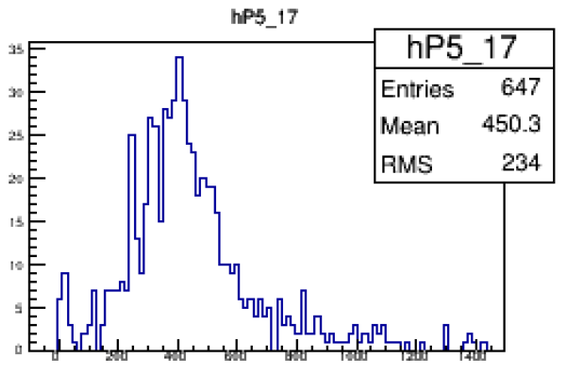
North South

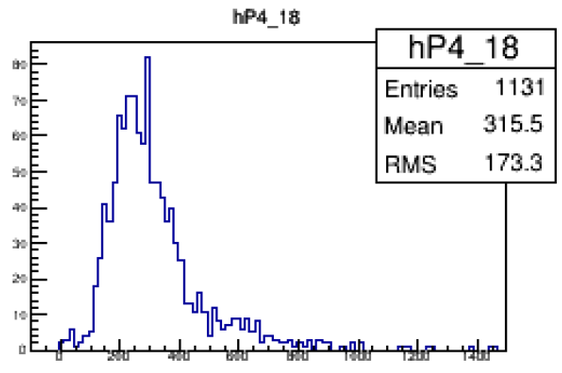


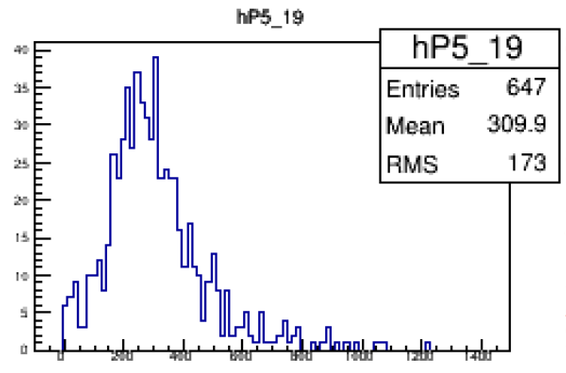
+18:2nd layer +36:3rd layer

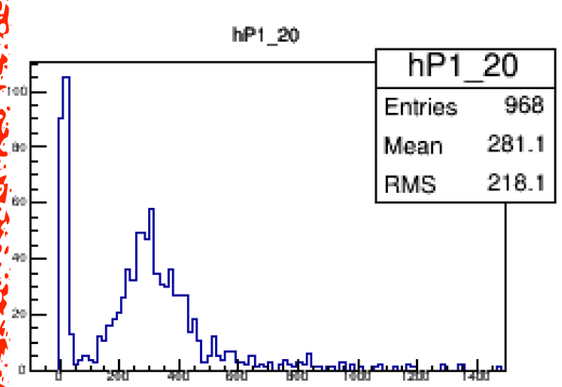
Pulse Height Distribution
hP(Flag)_(DCVModID)

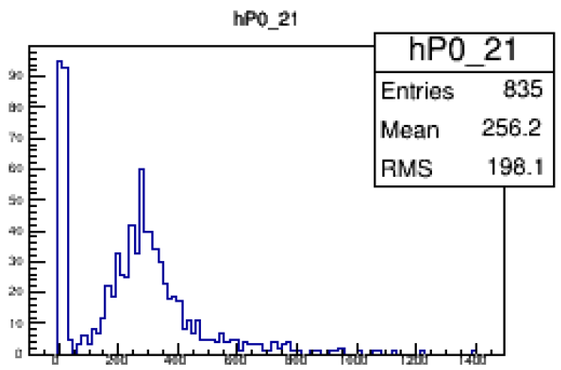


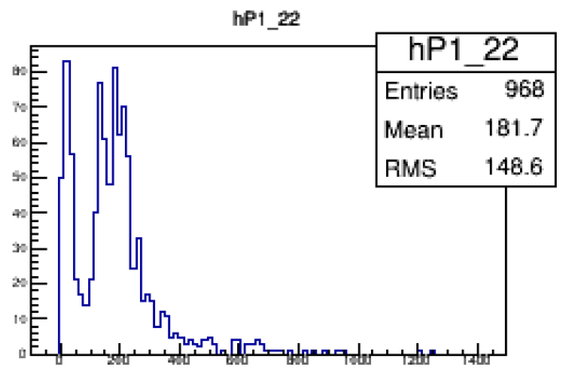


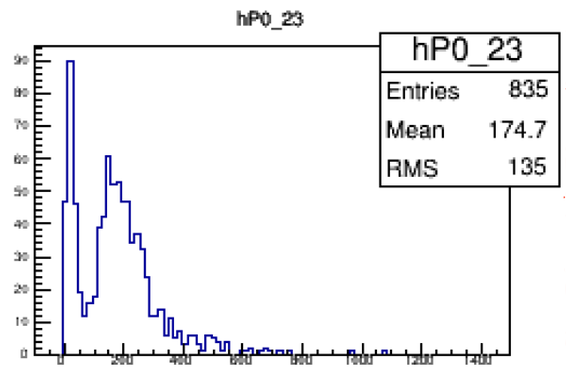


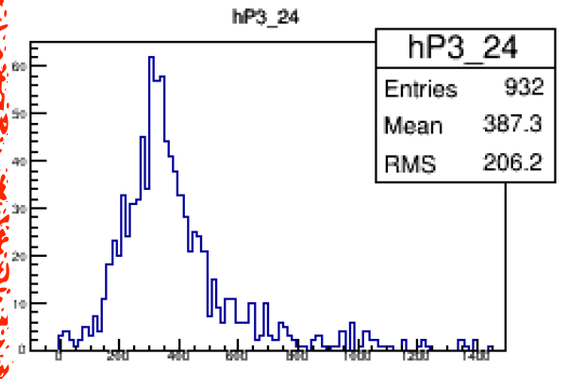


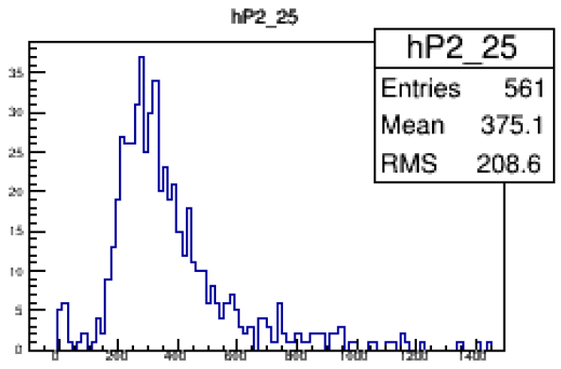


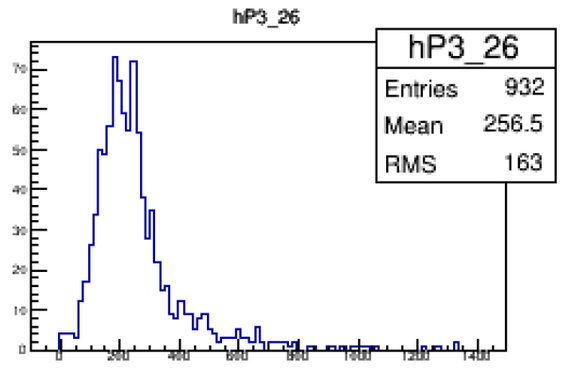


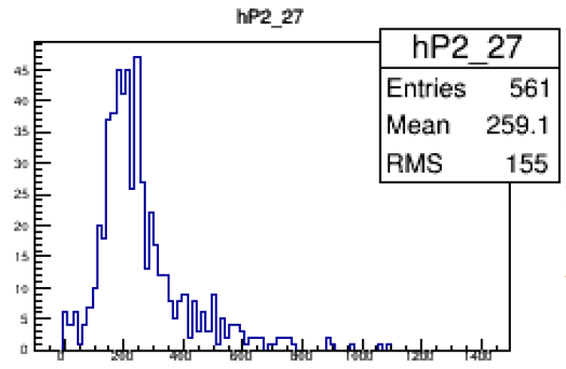


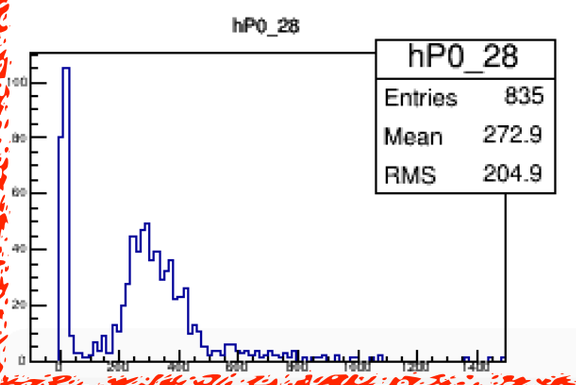


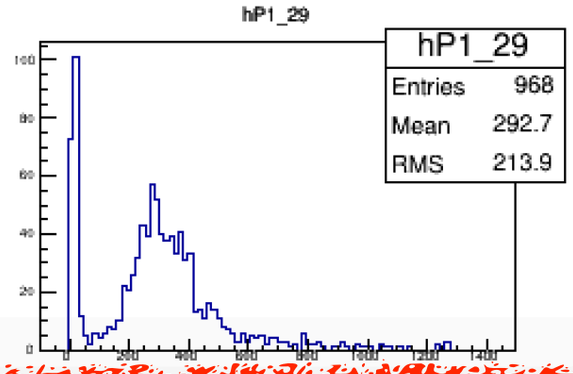


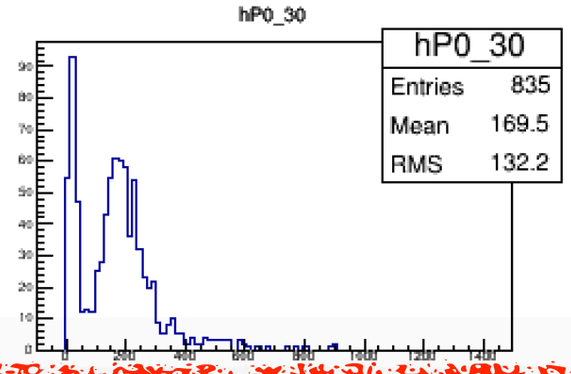


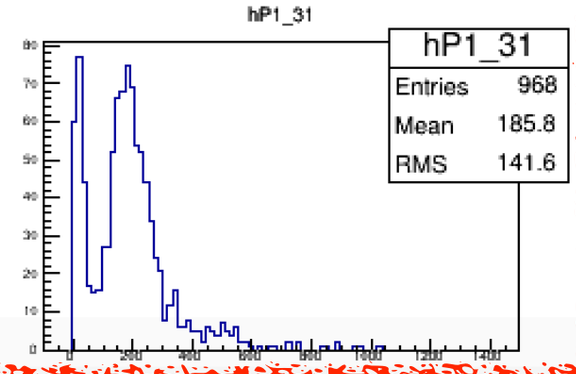










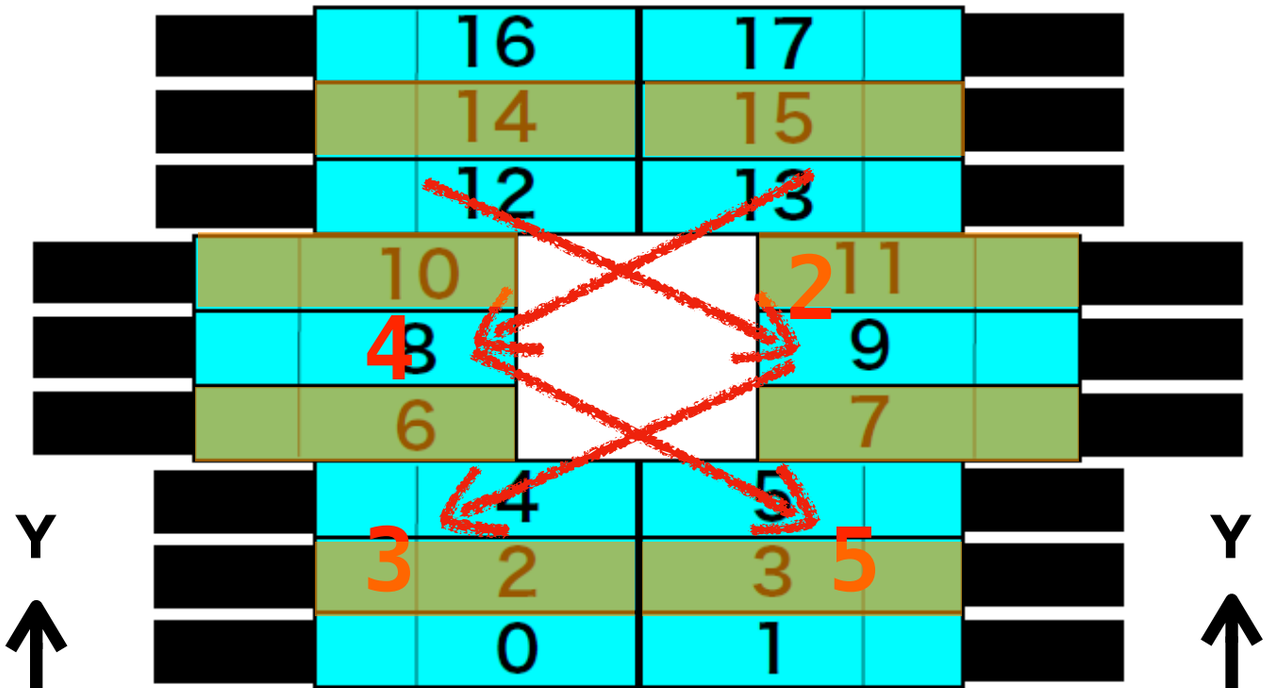


CC05

※ See CC05 from Upstream

North

South



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

52	34	16
50	32	14
48	30	12

46	28	10
44	26	8
42	24	6

40	22	4
38	20	2
36	18	0

17	35	53
15	33	51
13	31	49

11	29	47
9	27	45
7	25	43

5	23	41
3	21	39
1	19	37

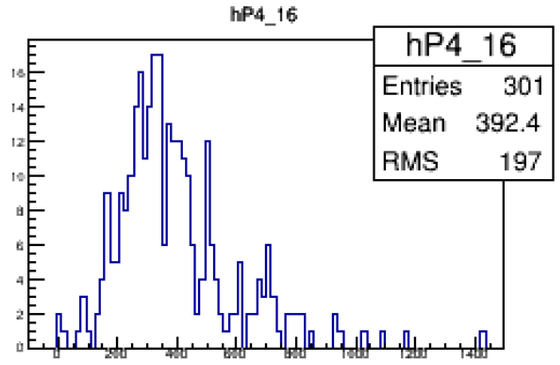
Y

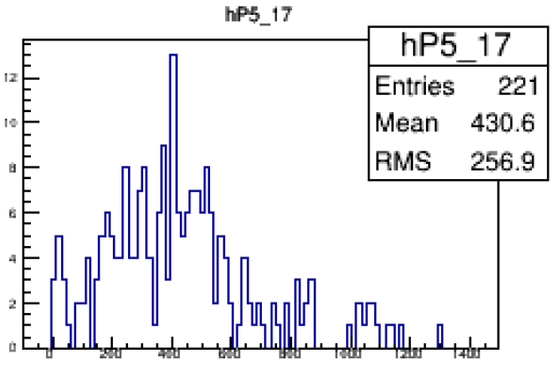
Z

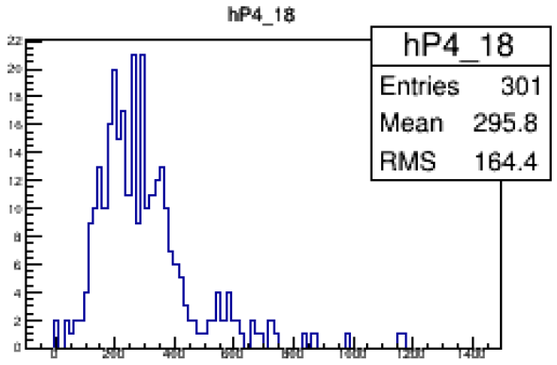
Y

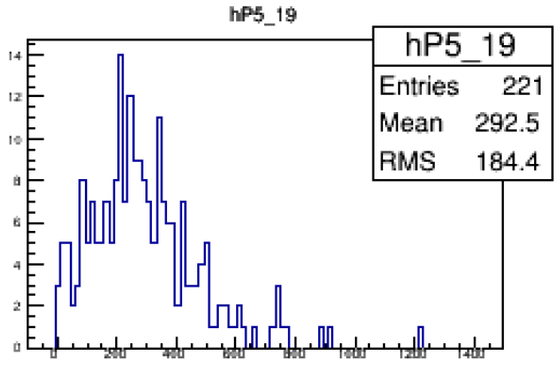
Z

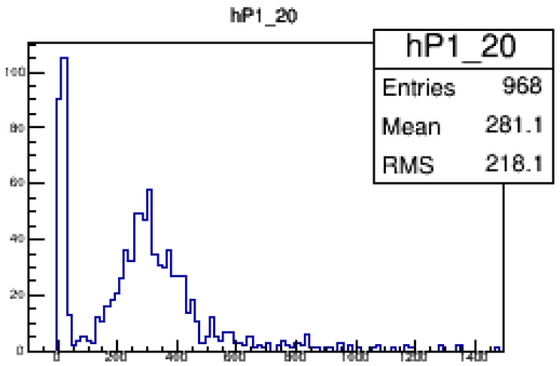
Pulse Height Distribution
hP(Flag)_(DCVModID)

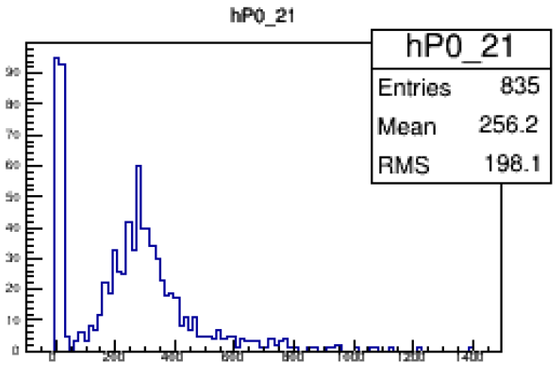


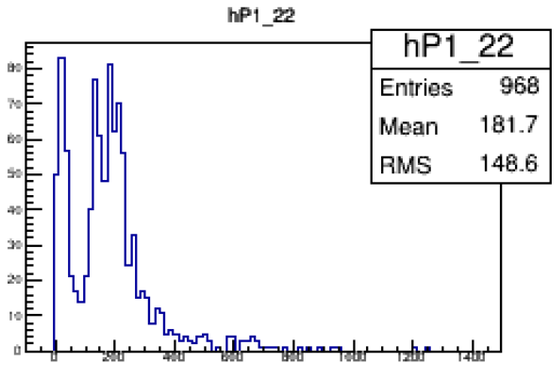


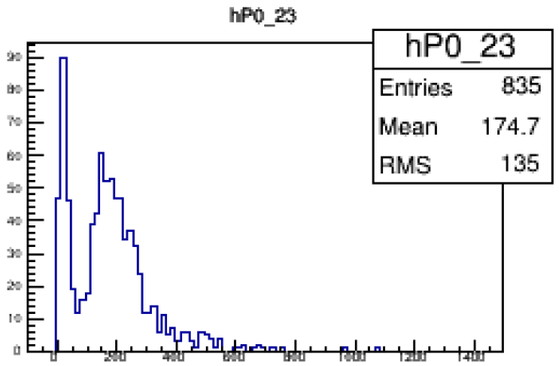


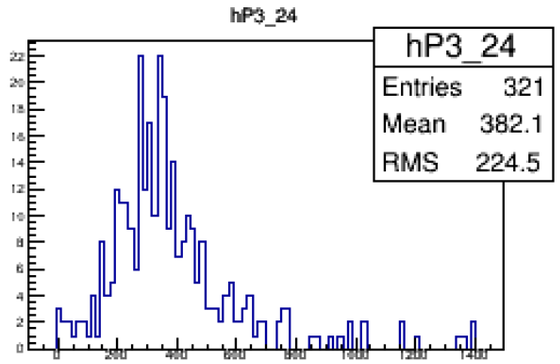


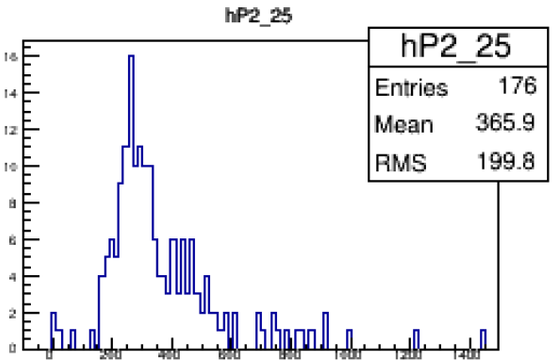


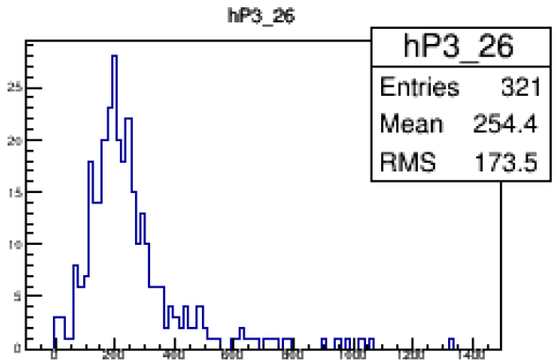


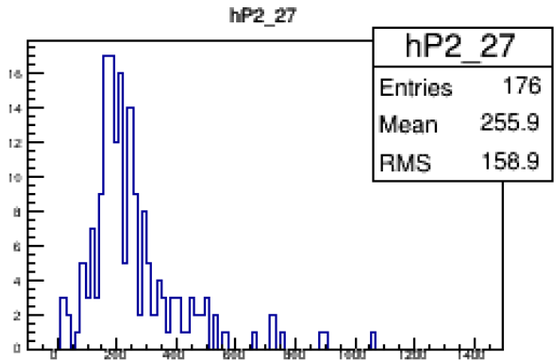


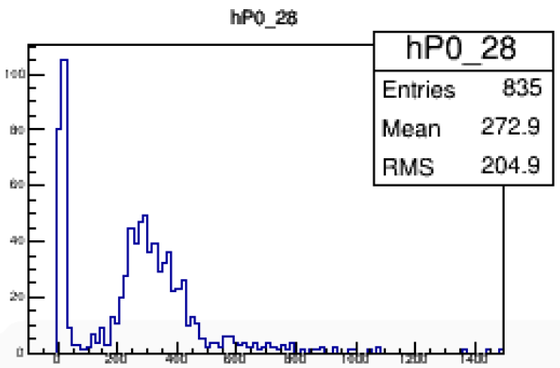


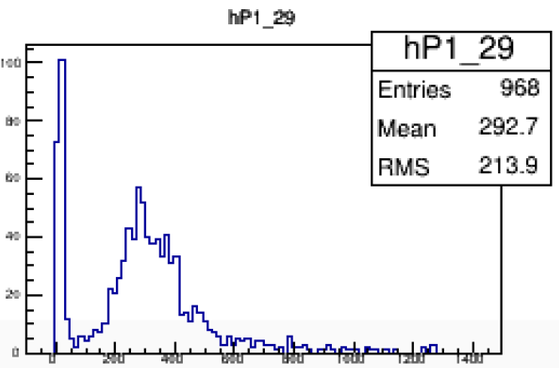


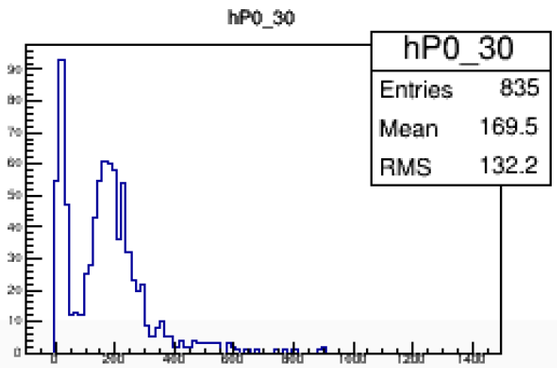


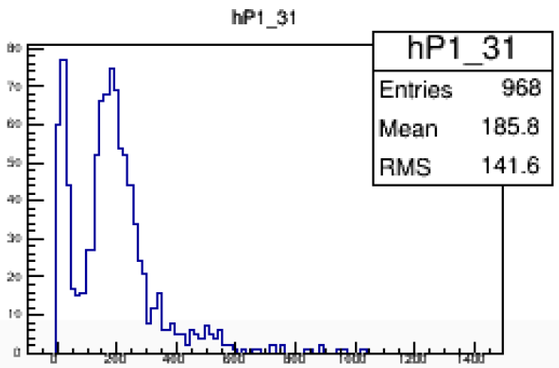








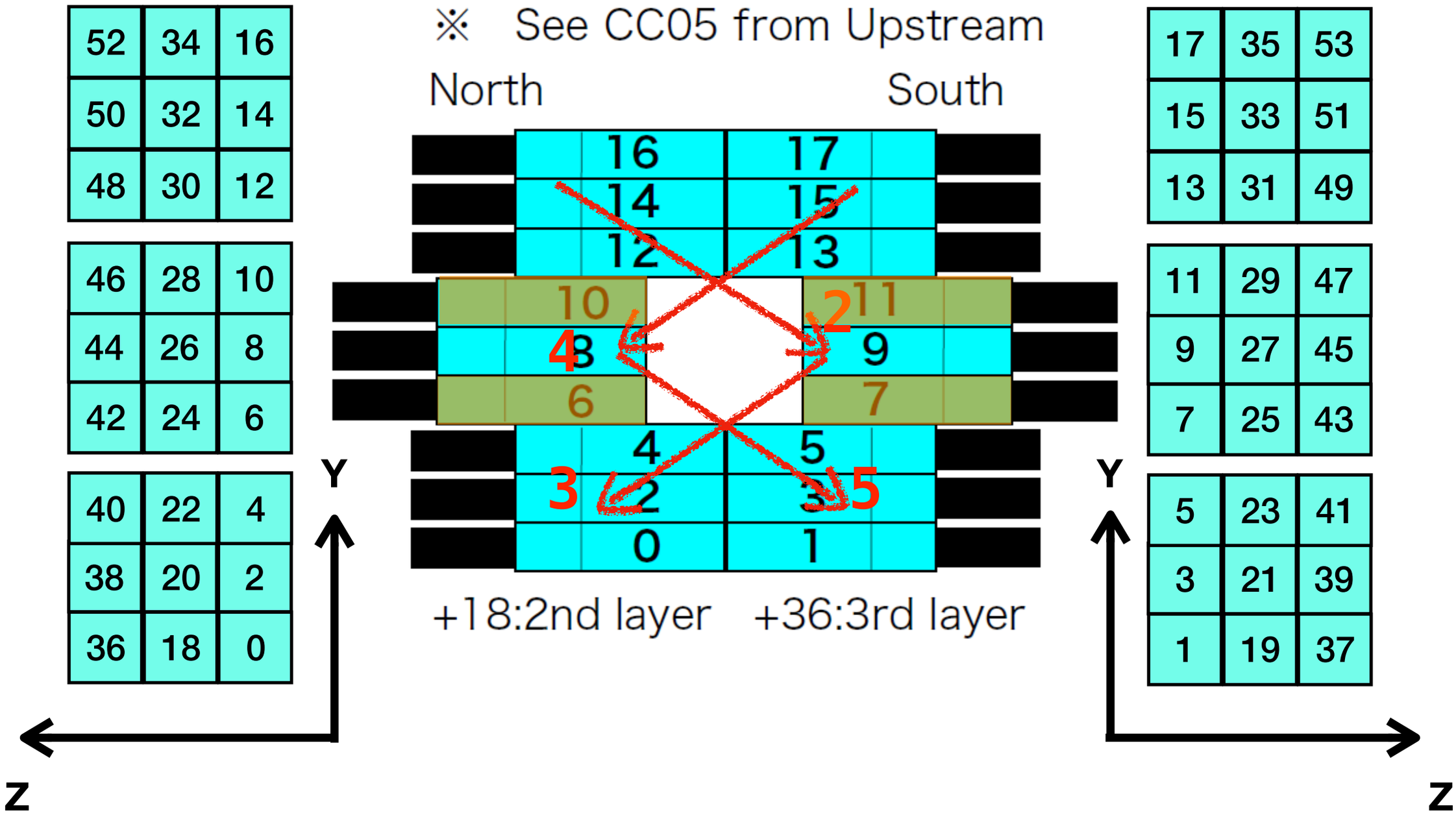




CC05

※ See CC05 from Upstream

North South



Pulse Height Distribution
hP(Flag)_(DCVModID)