XY-reconstruction

Campaign V
Oleynikov Vladislav
19 Nov 2018

Algorithm:

11713f949ea5bffcc2f0ceb22d1267b5f314a5af

Merge branch 'barycenter' into 'master'

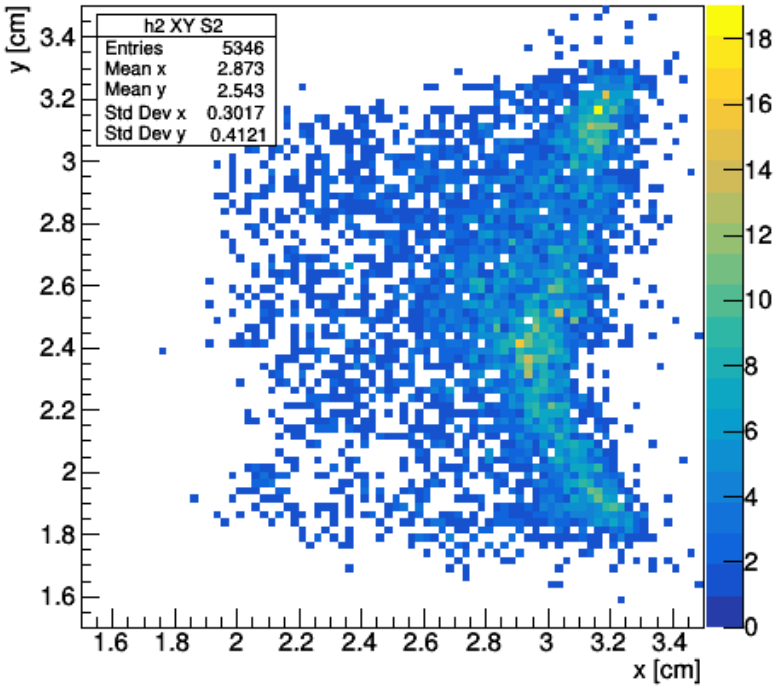
Cut list:

```
bool cls0_is_S1 = clusters.at(0)->f90 > 0.2;
bool cls0_is_full = clusters.at(0)->rep == 1;

bool S1_Am_peak = (clusters.at(0)->charge > 440) &&
(clusters.at(0)->charge < 630); // mean +- 1.5sigma using run 537

//bool S1_Am_peak = (clusters.at(0)->charge > 419) &&
(clusters.at(0)->charge < 587); // mean +- 1.5sigma using run 542

//bool S1_Am_peak = (clusters.at(0)->charge > 342) &&
(clusters.at(0)->charge < 482); // mean +- 1.5sigma using run 544

bool cls0 = nc_i == 0;//cluster 0
bool cls1 = nc_i == 1;//cluster 1
bool is_S1 =  nc == 2 && cls0 && cls0_is_full && cls0_is_S1;
bool is_S2 =  nc == 2 && cls1 && cls0_is_full && cls0_is_S1;
```

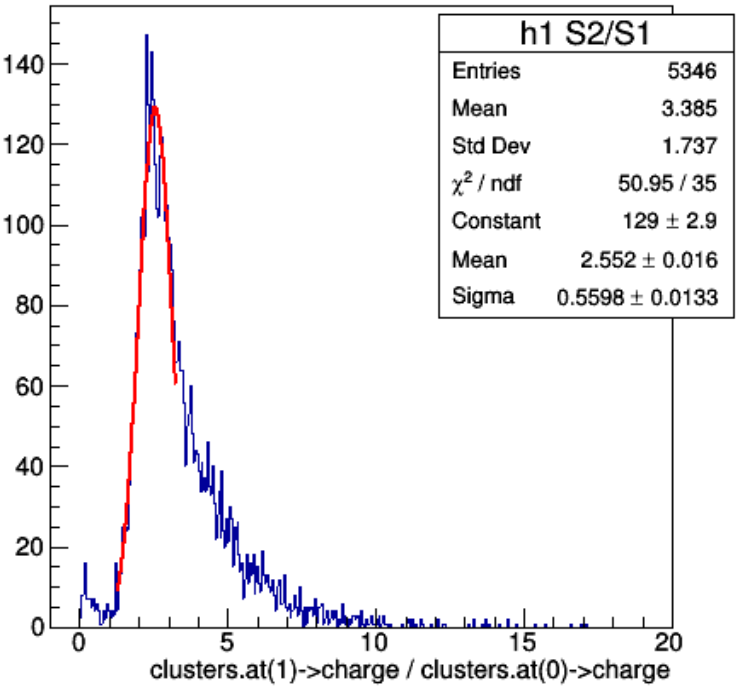
Ph2, Am241, run 537

Ph2, Am241, run 537

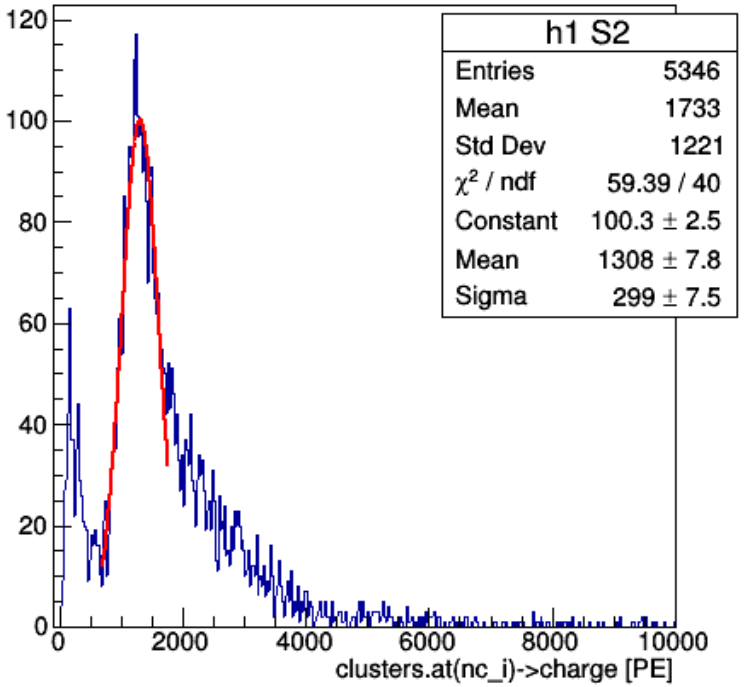
C1.is_S2



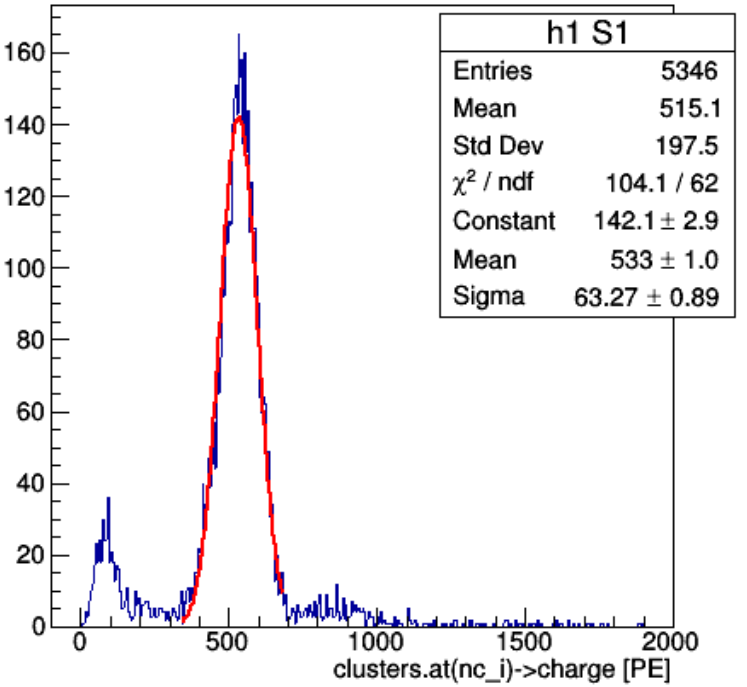
C2.is_S1



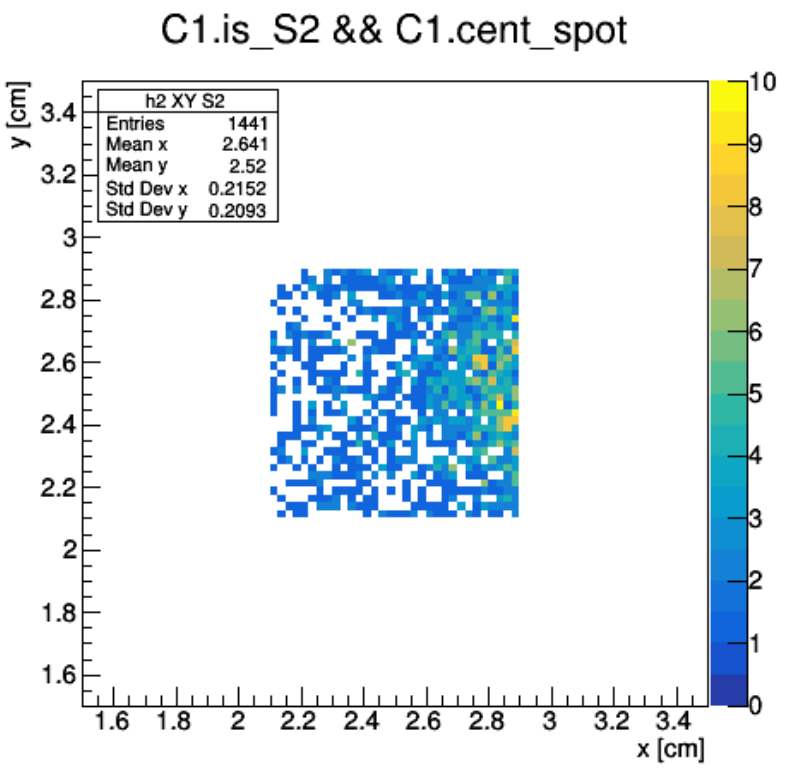
C1.is_S2

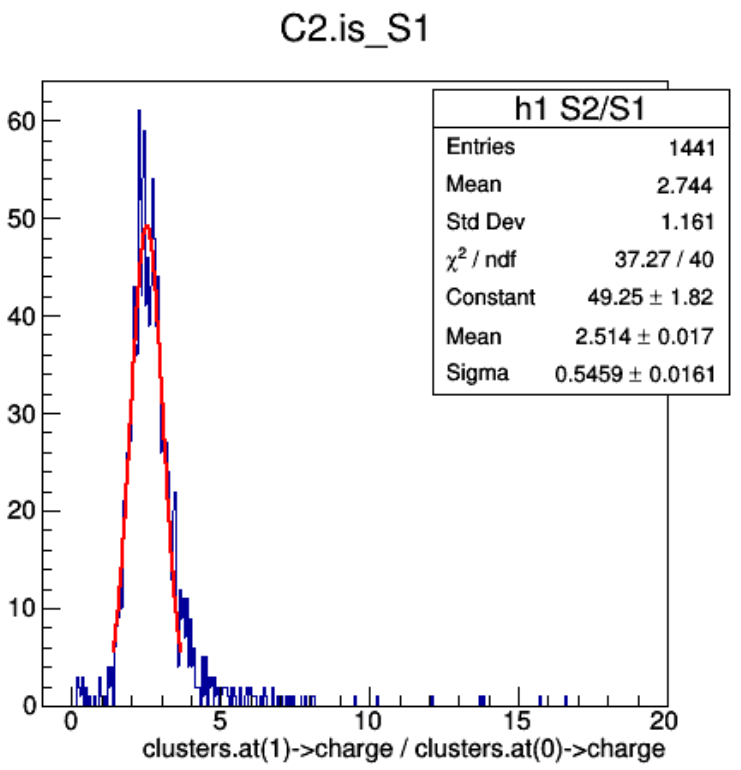


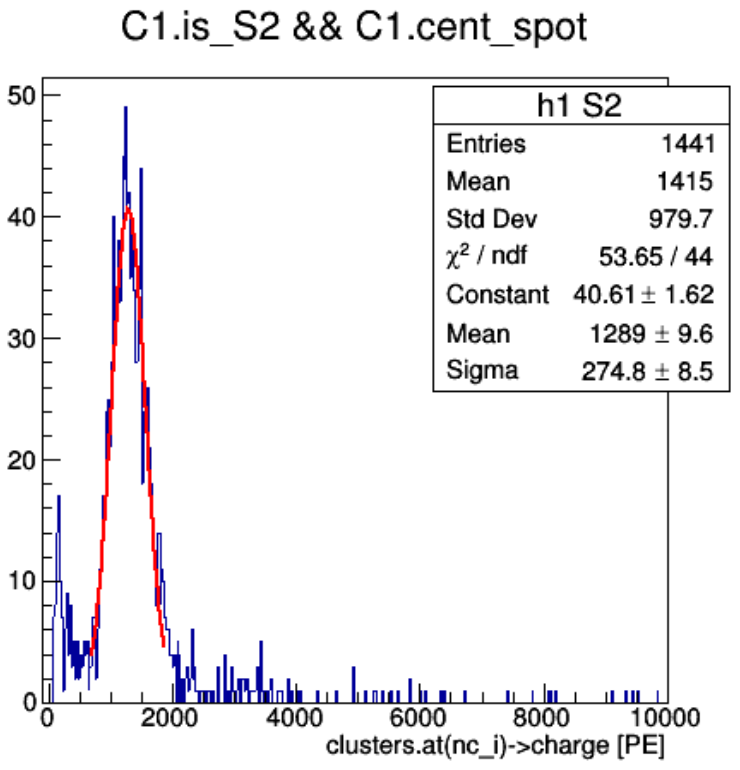
C2.is_S1

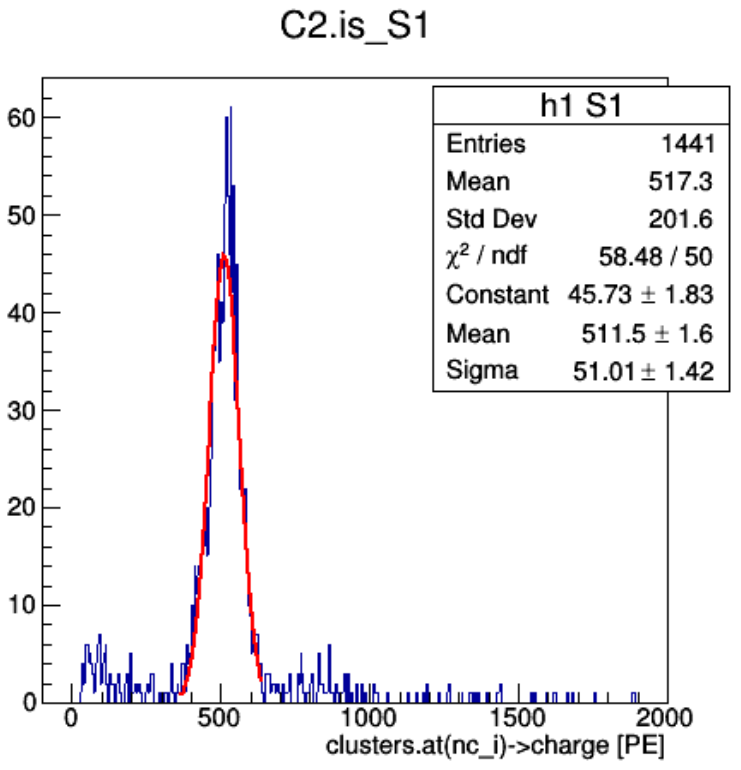


Ph2, Am241, run 537

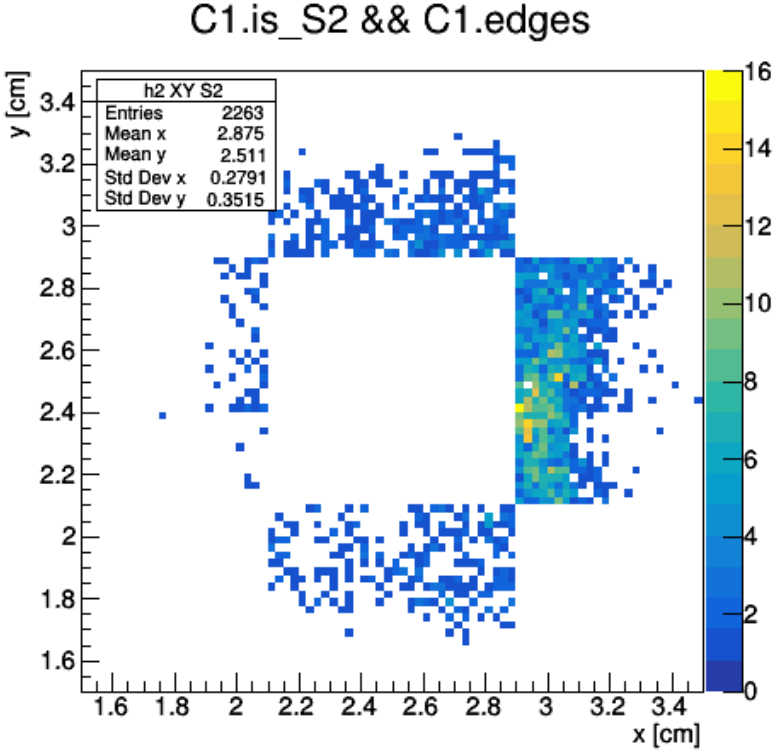


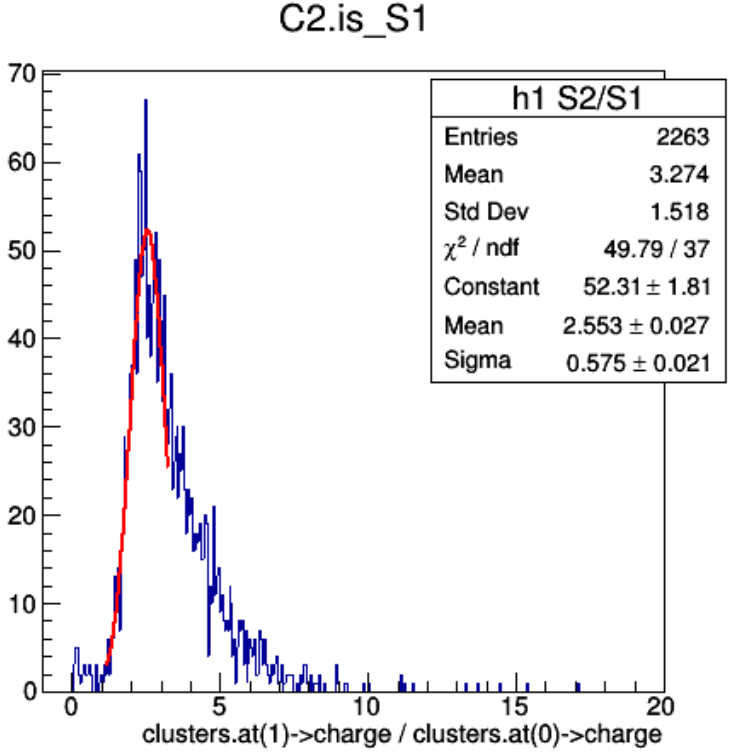


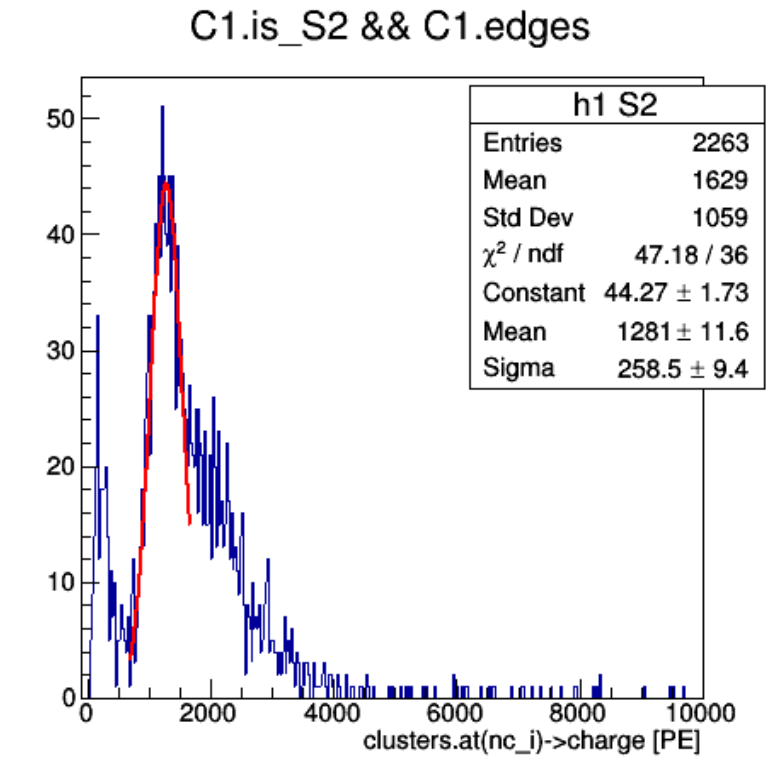


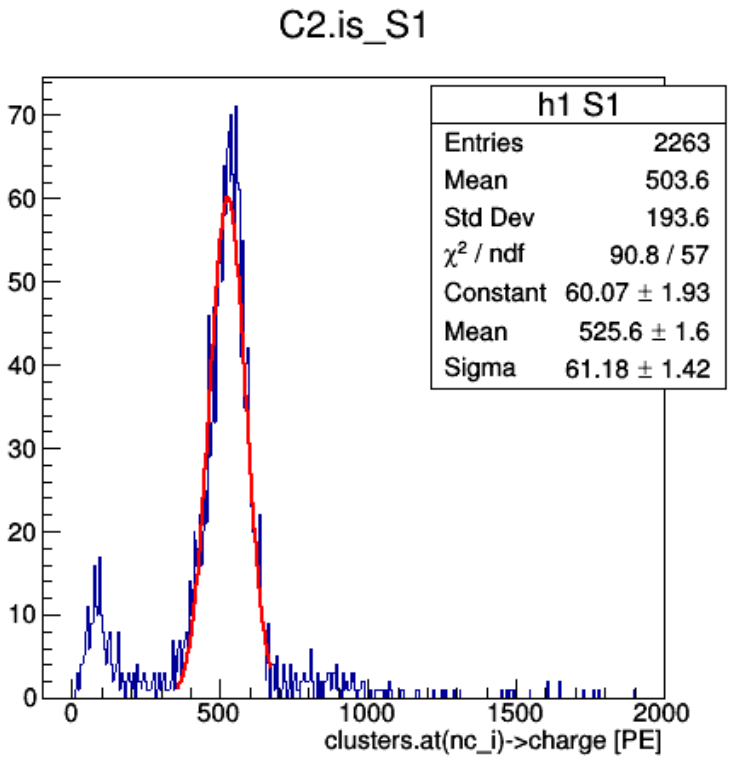


Ph2, Am241, run 537

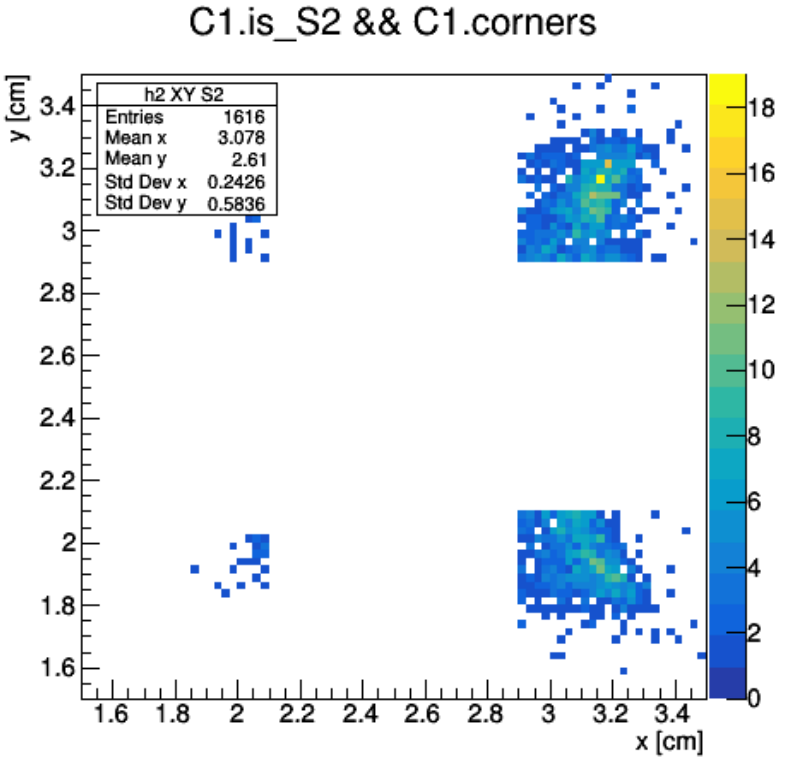


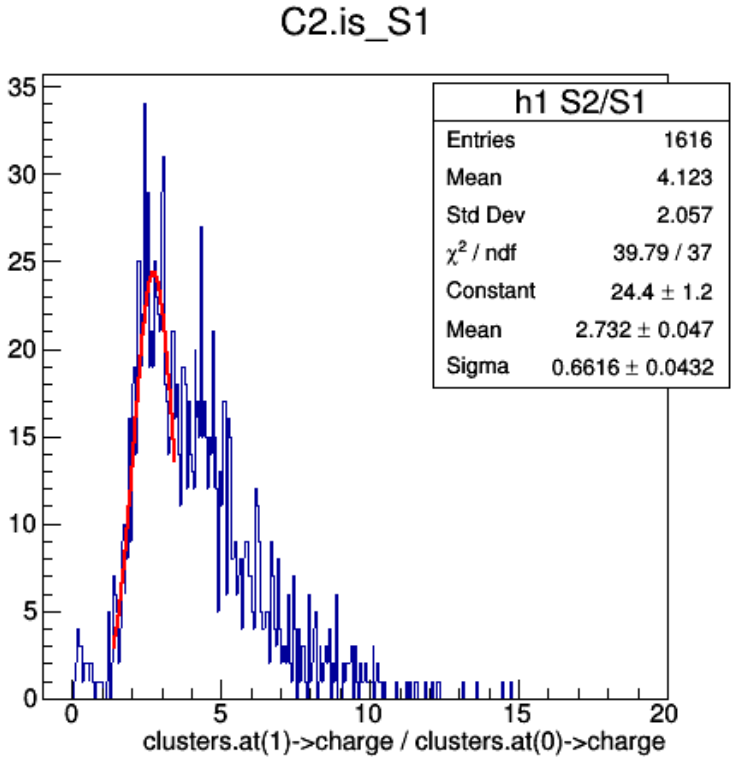


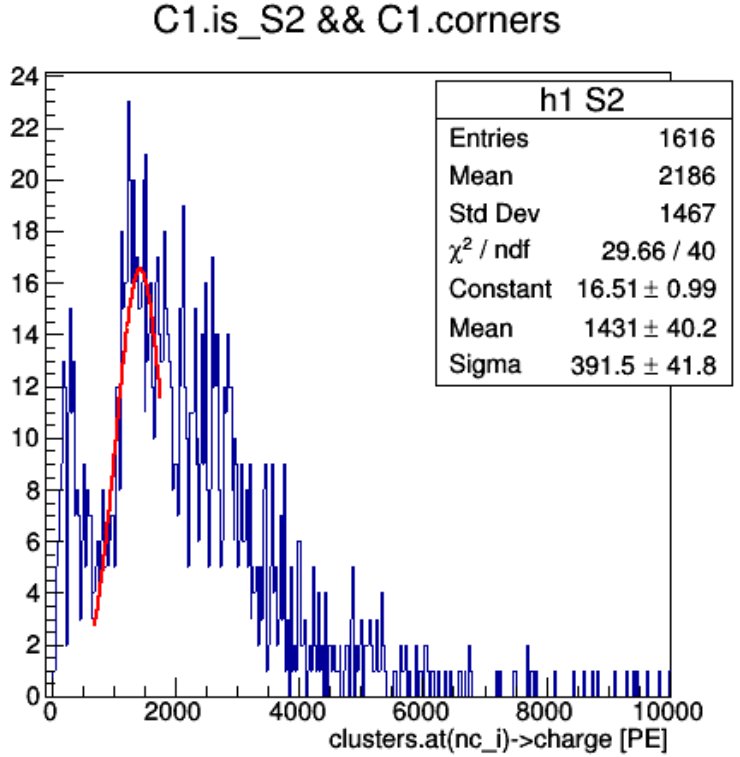


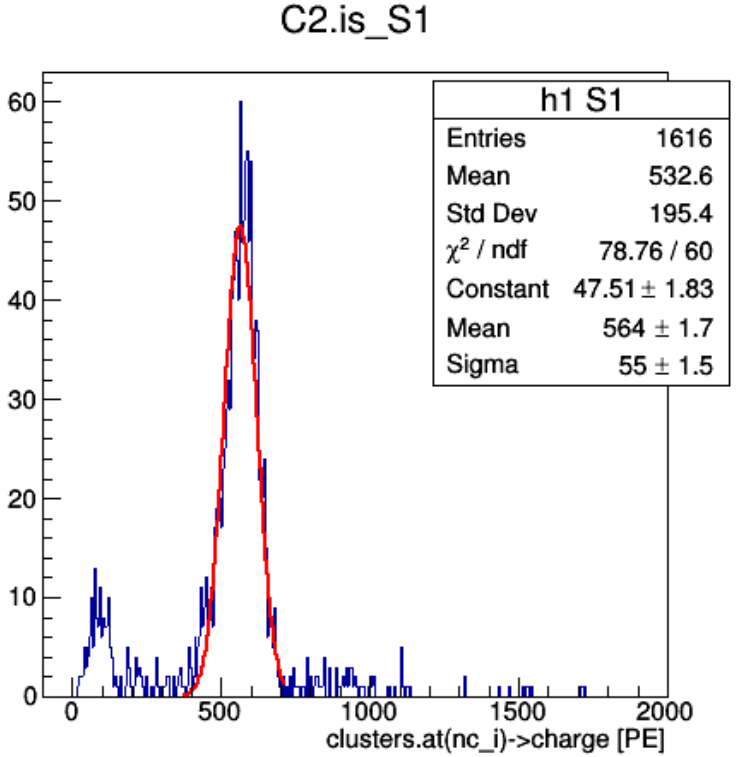


Ph2, Am241, run 537

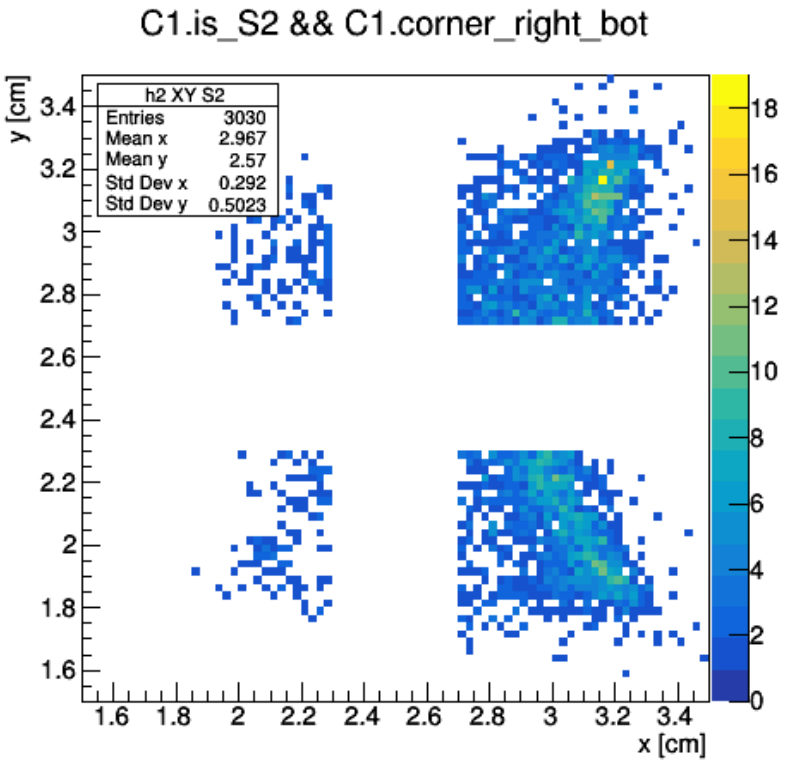


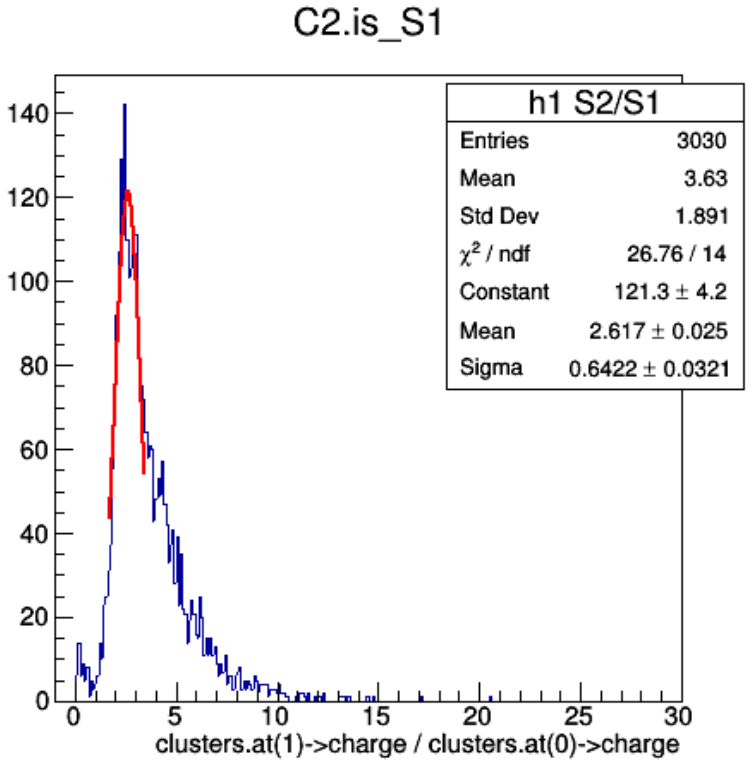


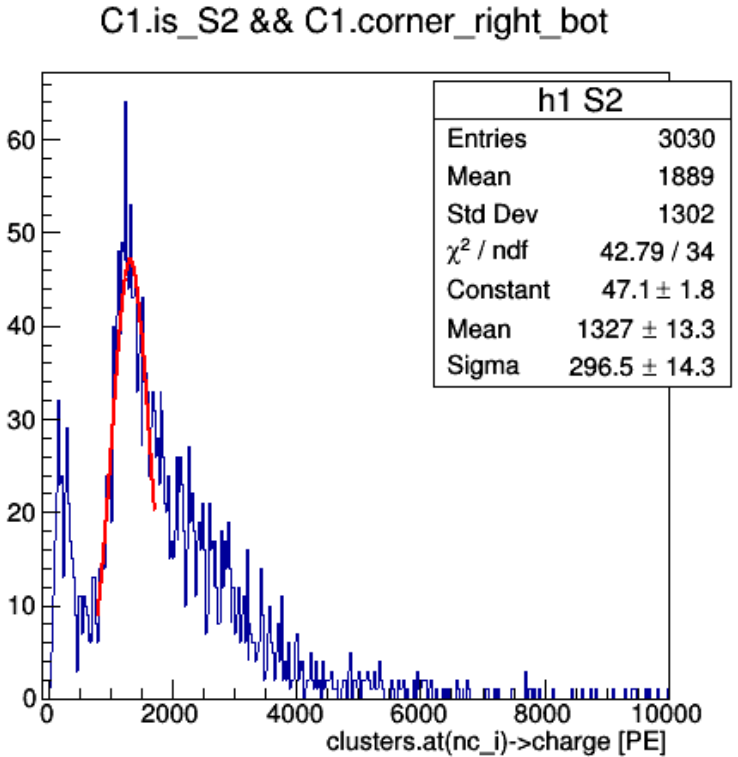


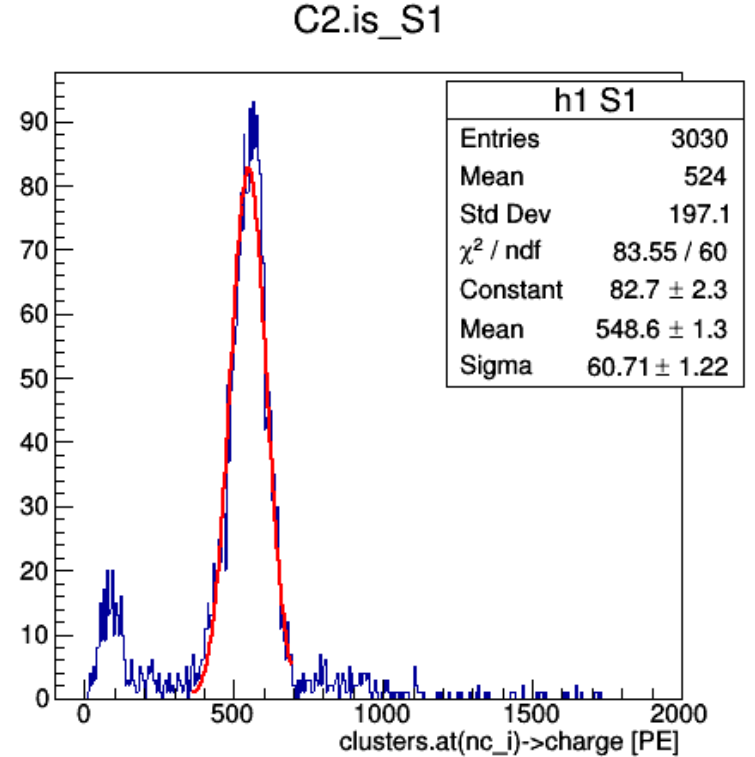


Ph2, Am241, run 537



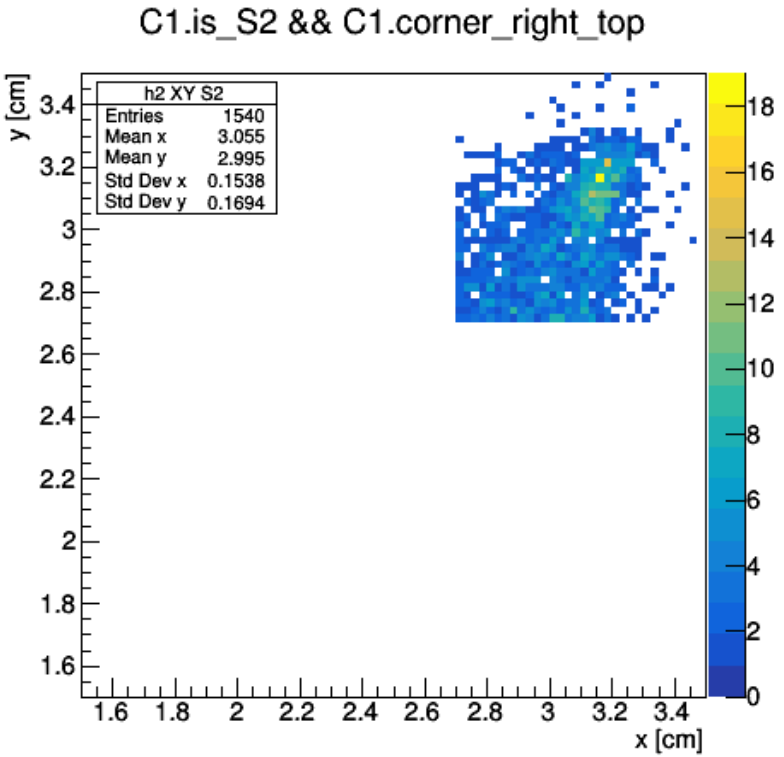


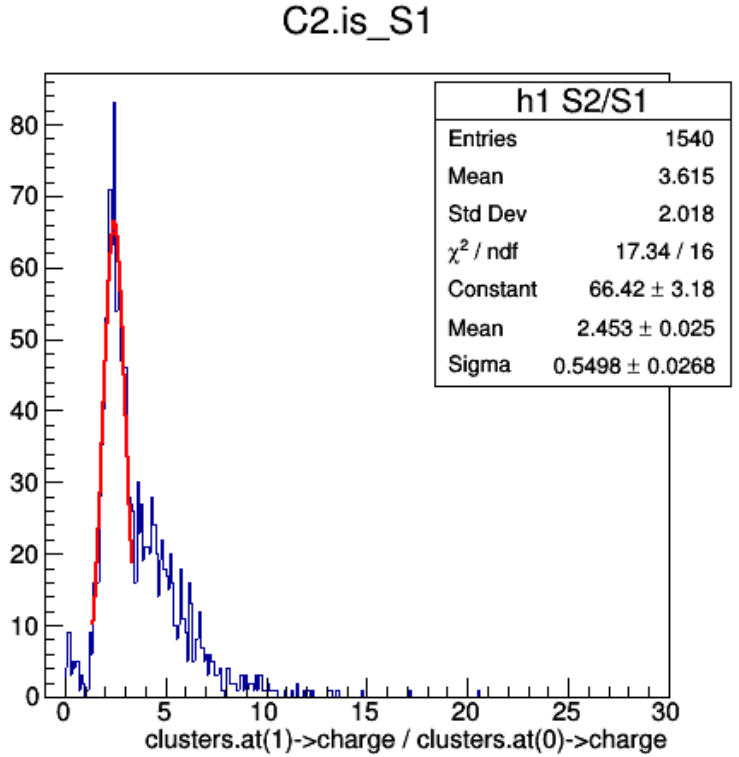


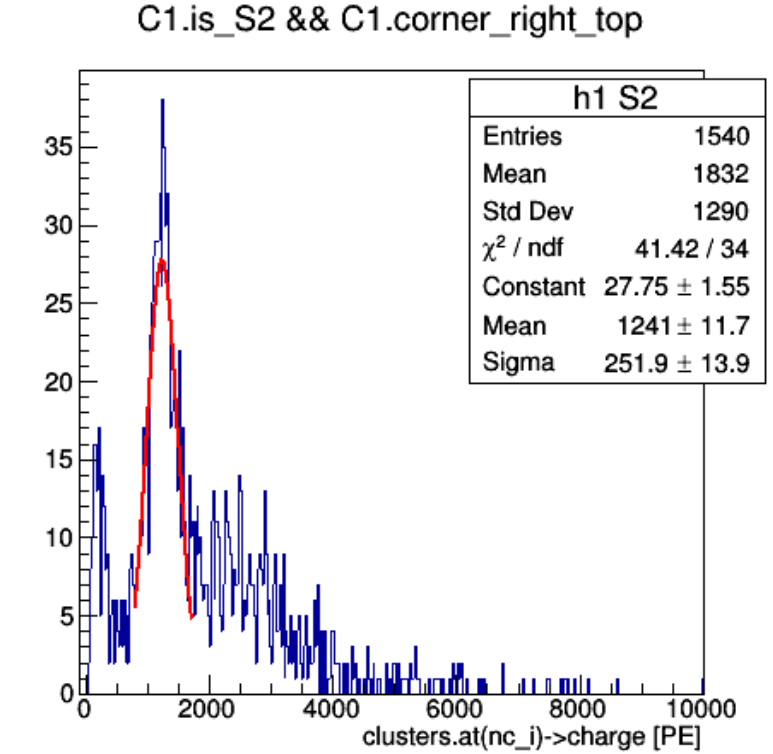


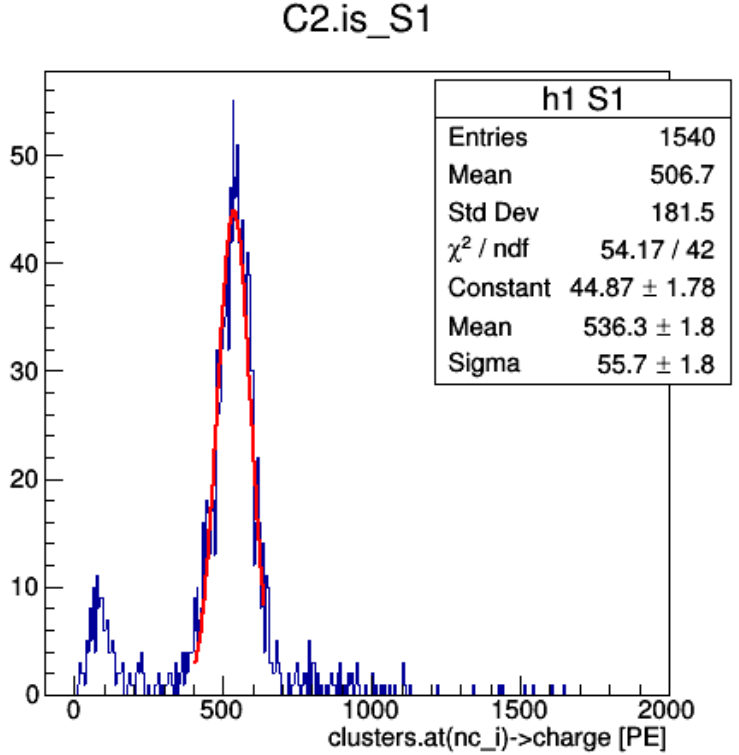
(redefinition of corners)

Ph2, Am241, run 537



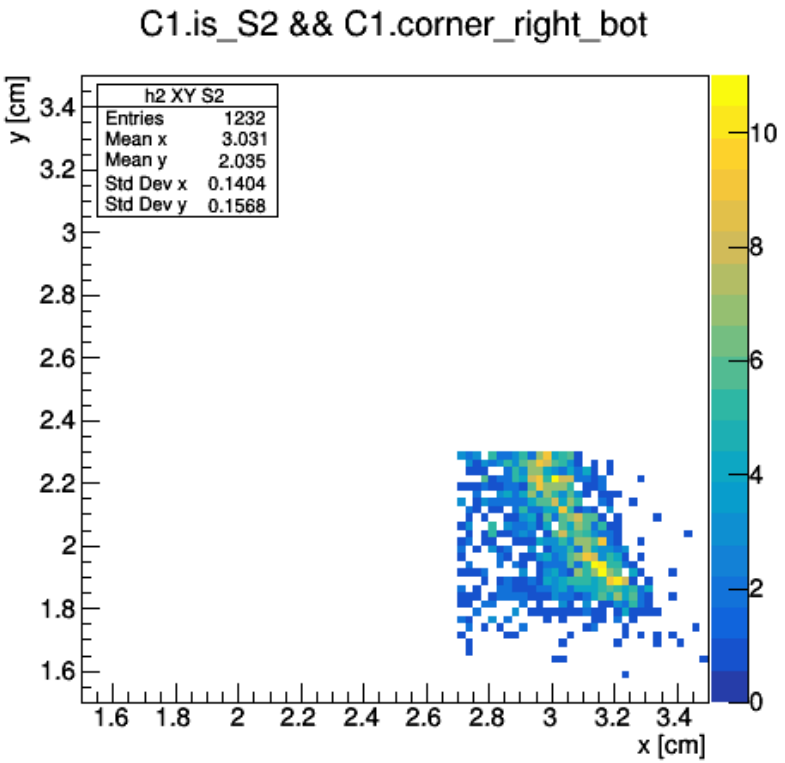


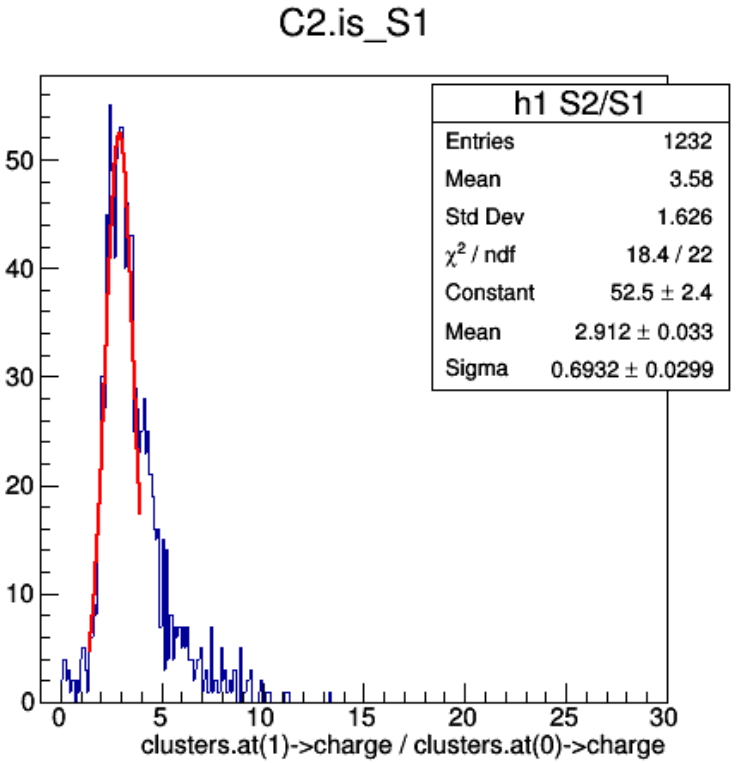


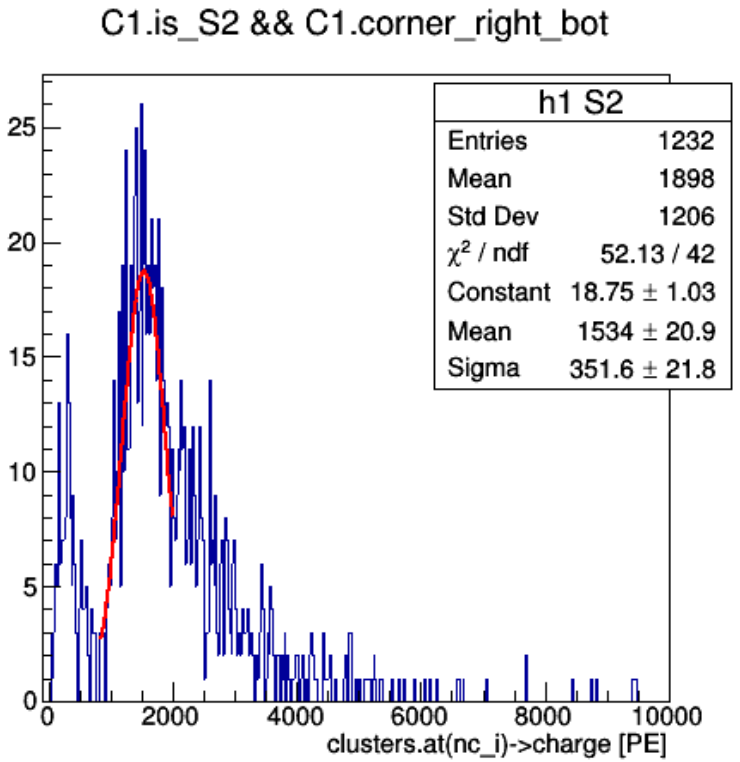


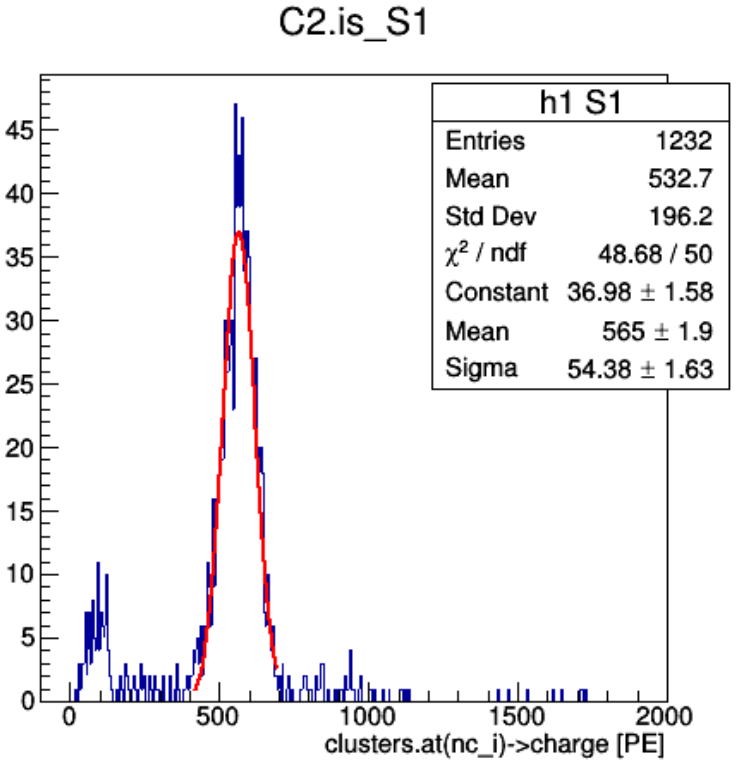
(redefinition of corners)

Ph2, Am241, run 537



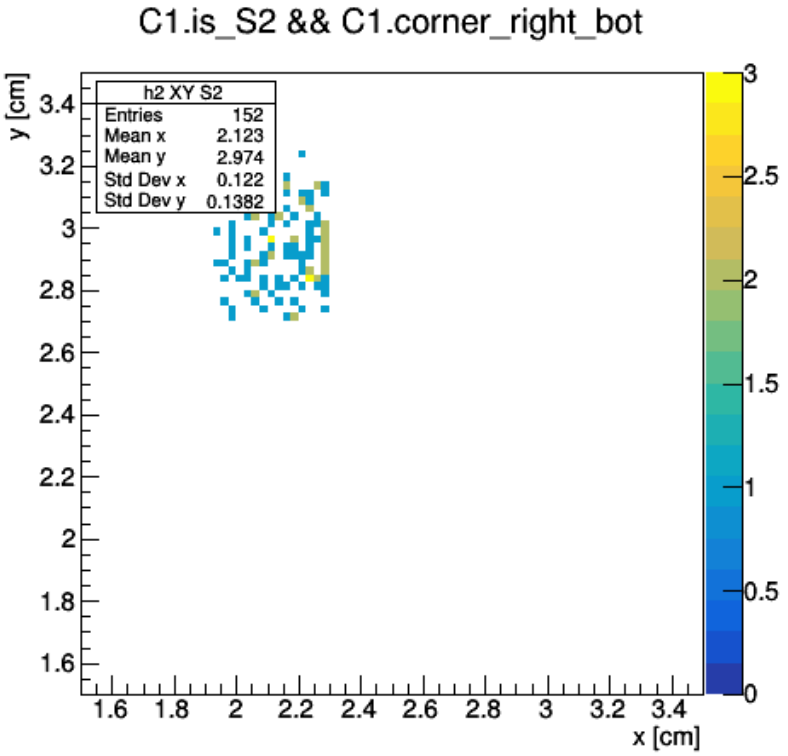


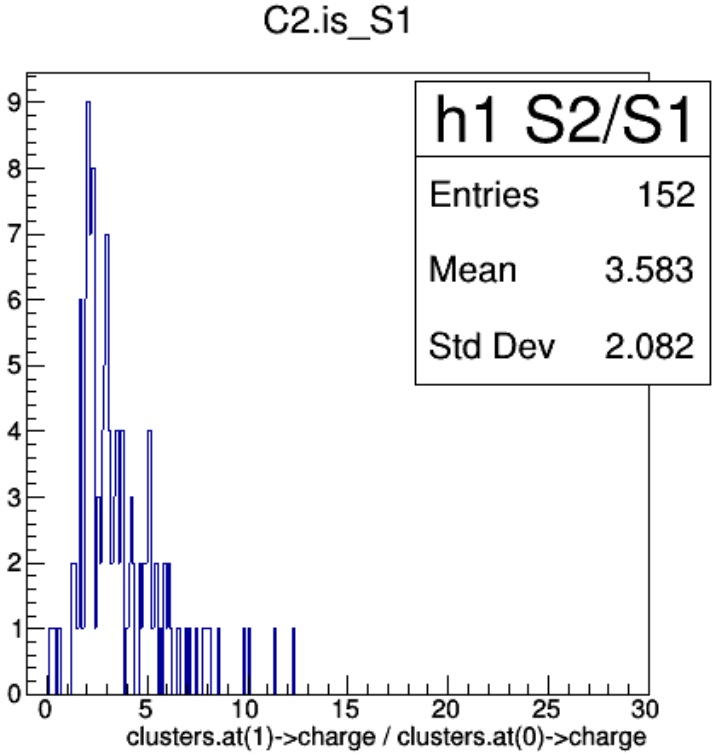


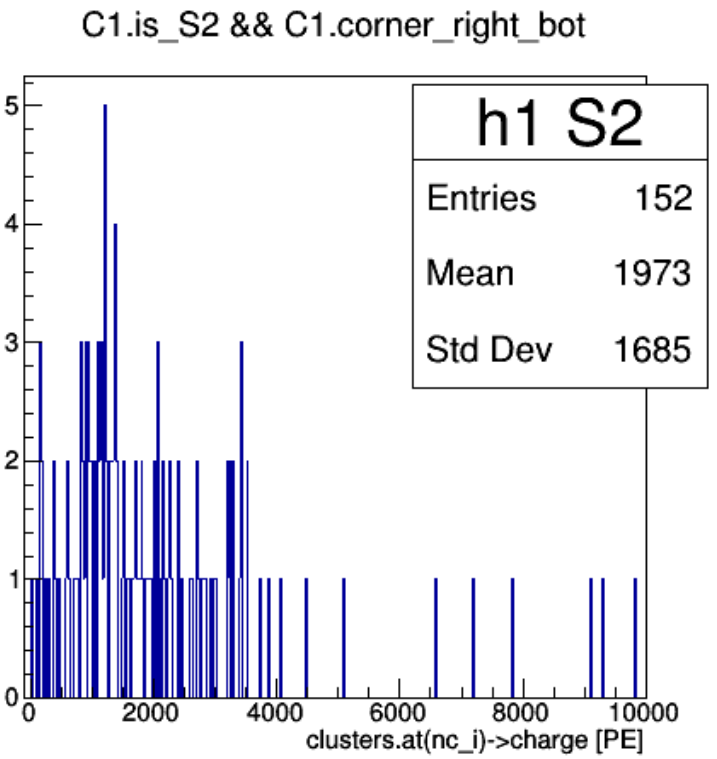


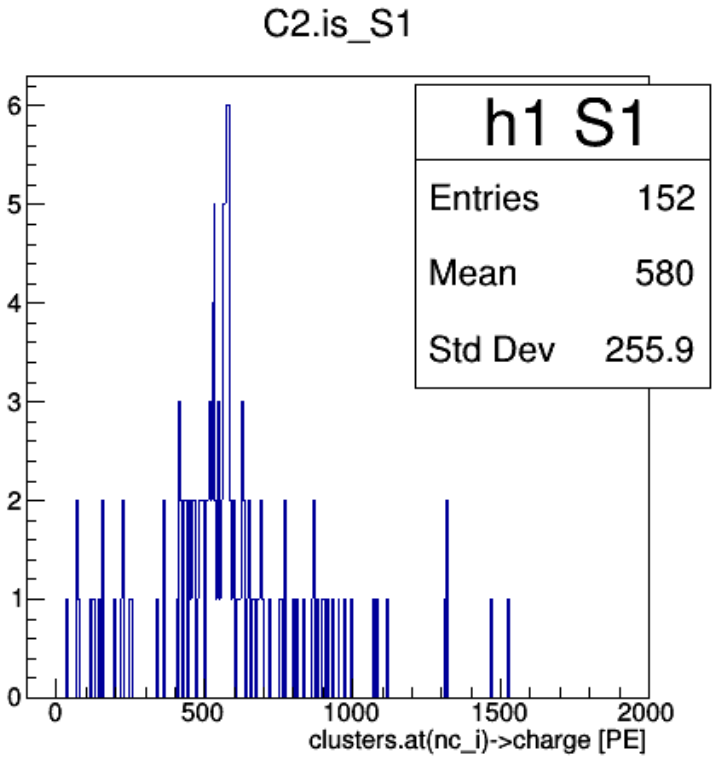
(redefinition of corners)

Ph2, Am241, run 537



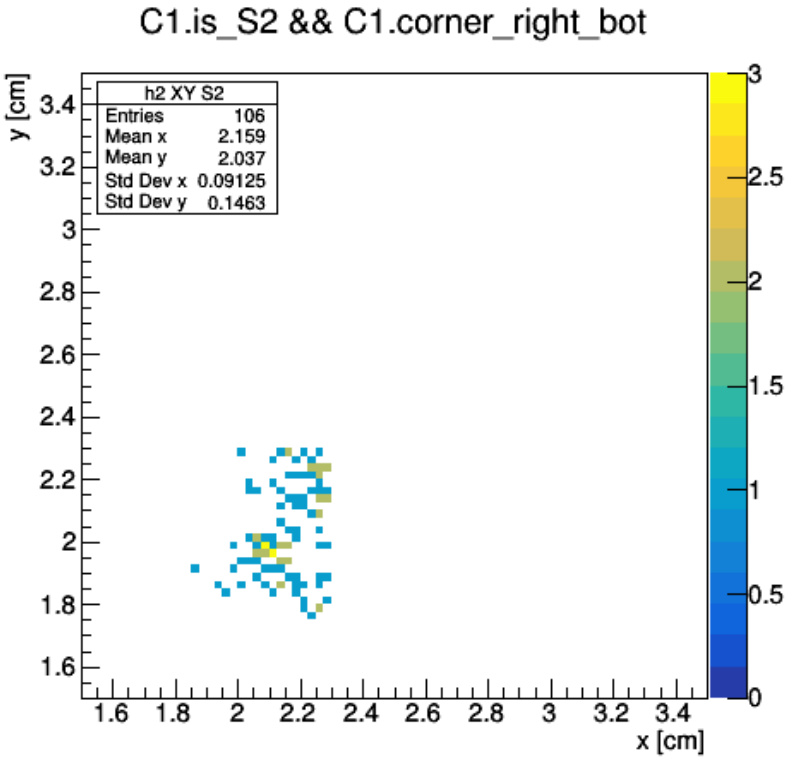


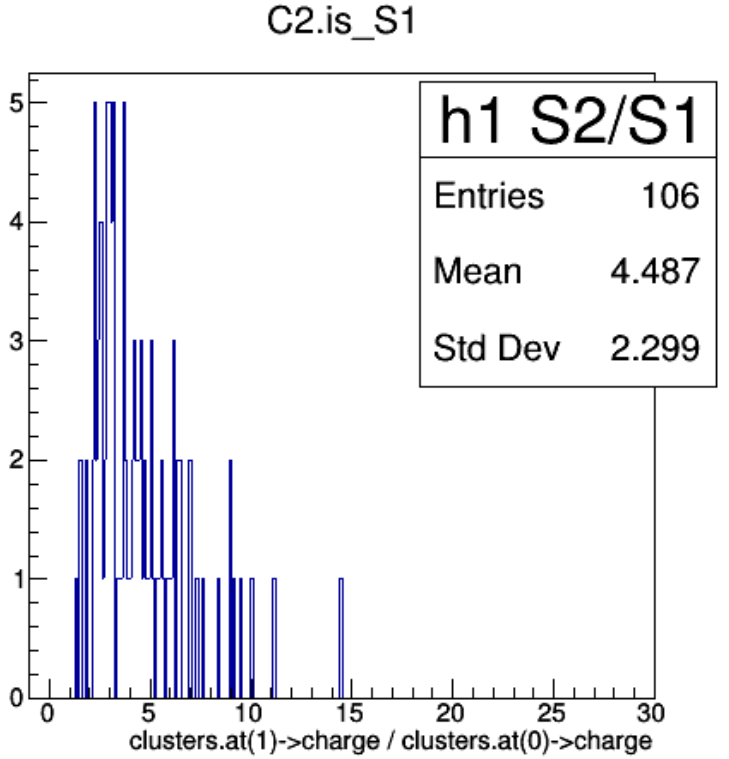


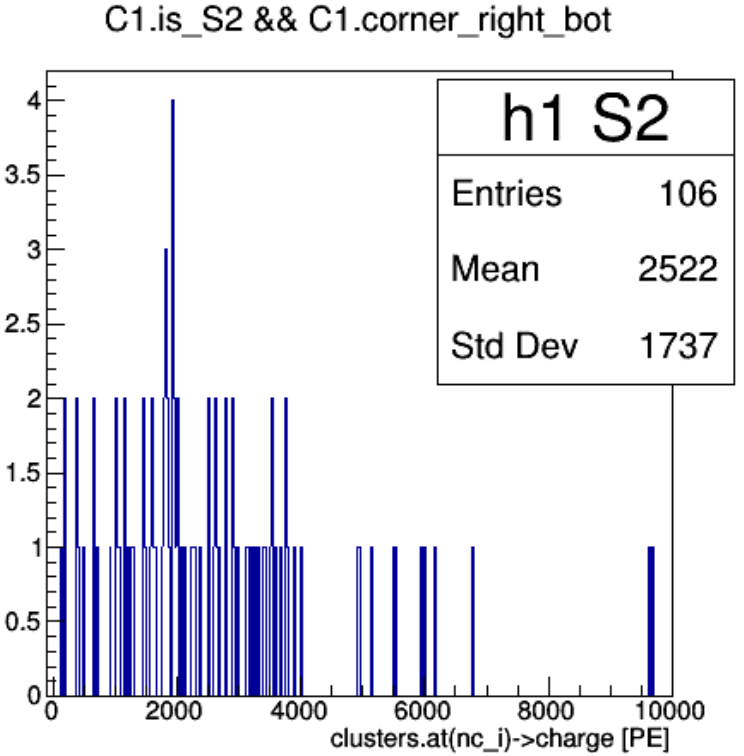


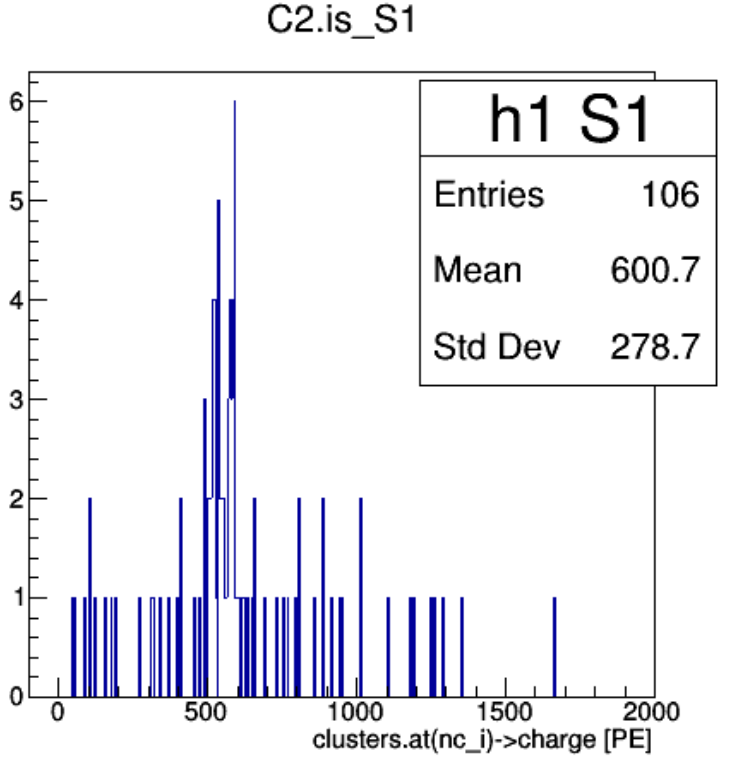
(redefinition of corners)

Ph2, Am241, run 537







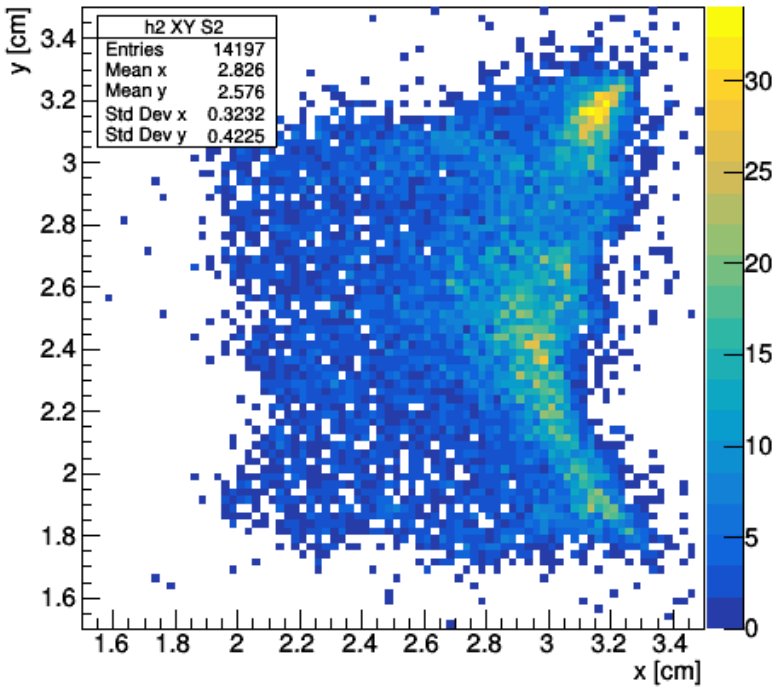


(redefinition of corners)

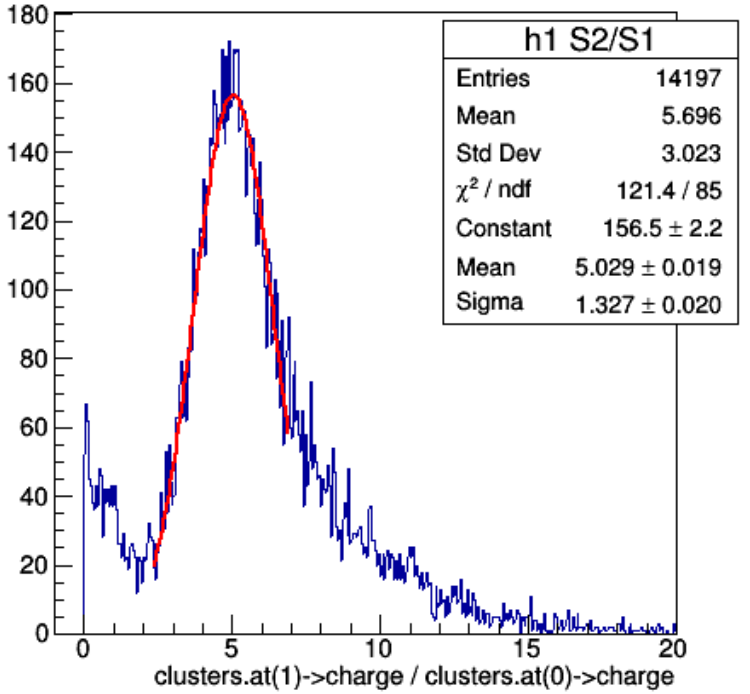
Ph2, Am241, run 542

Ph2, Am241, run 542

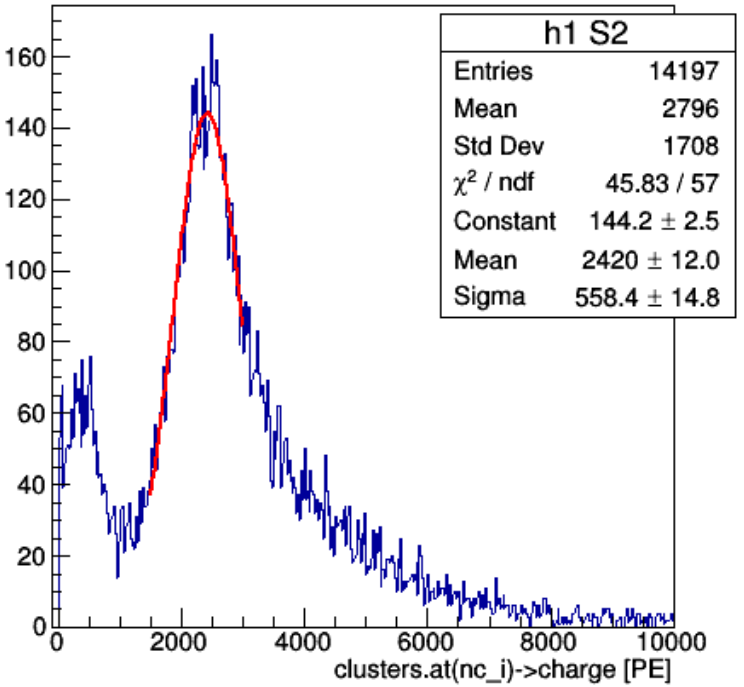
C1.is_S2



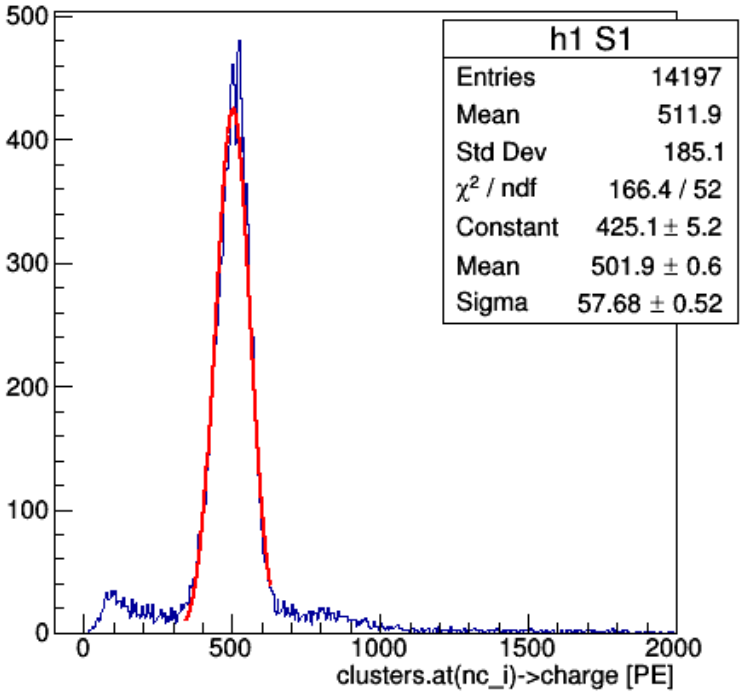
C2.is_S1



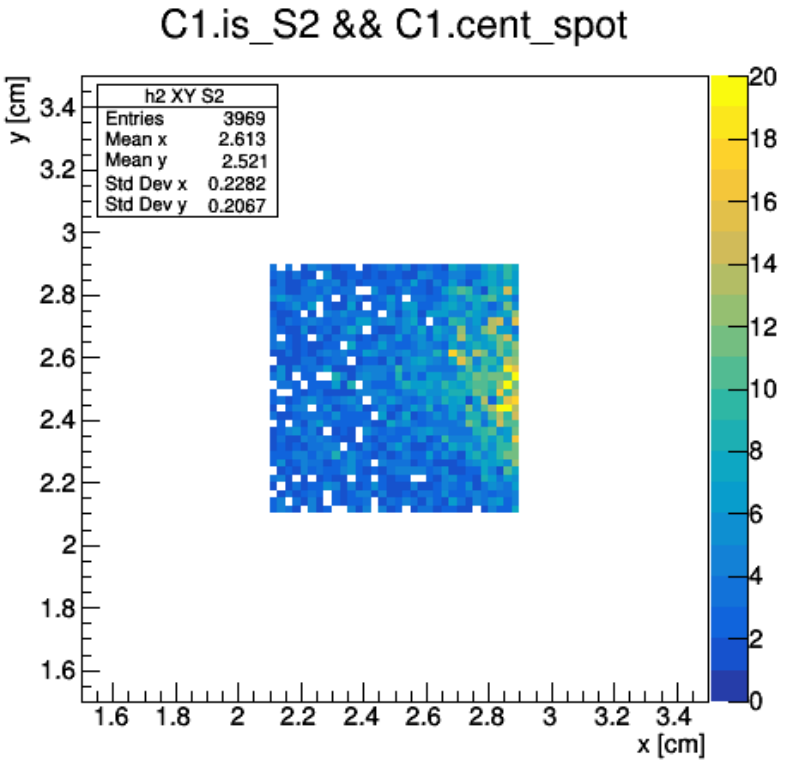
C1.is_S2

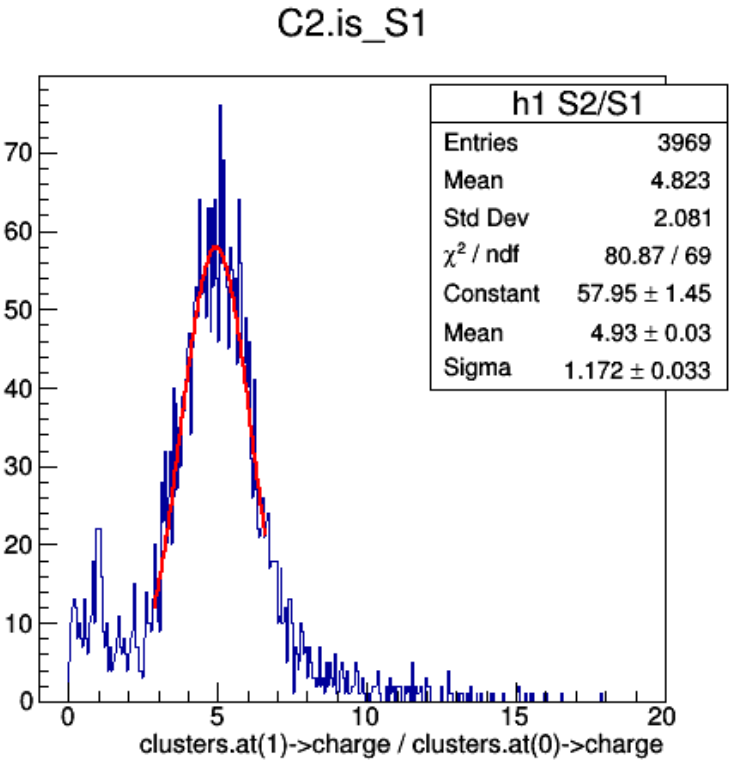


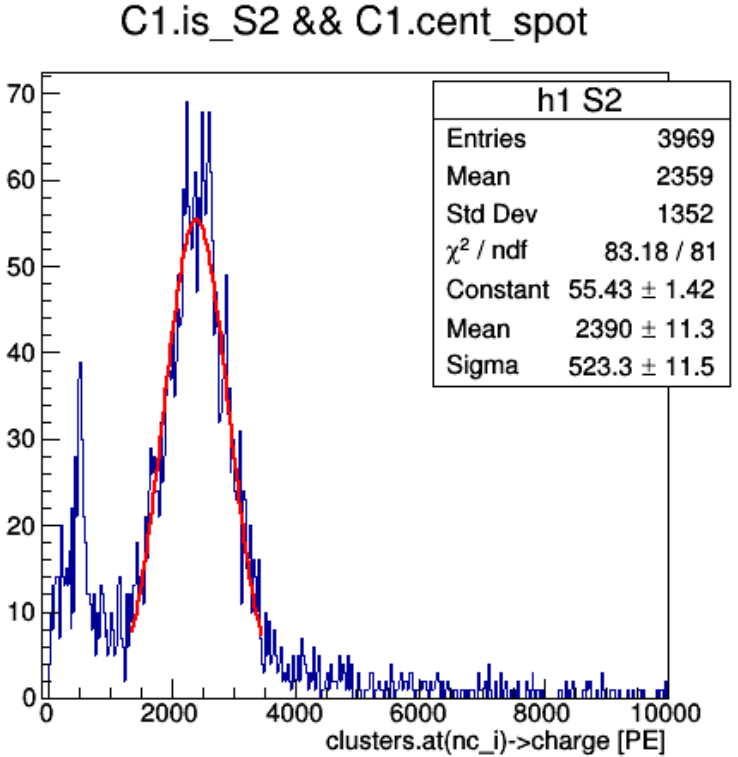
C2.is_S1

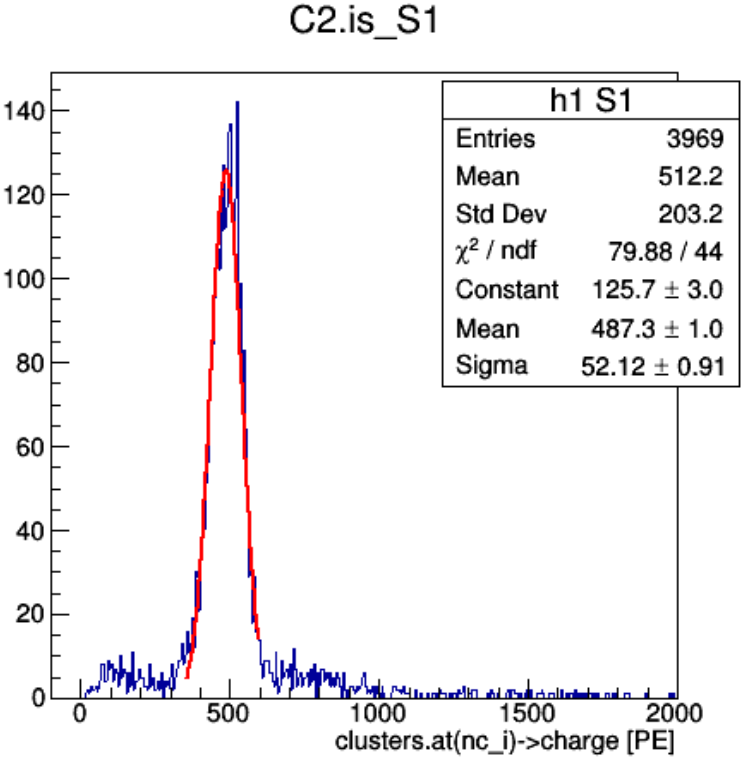


Ph2, Am241, run 542

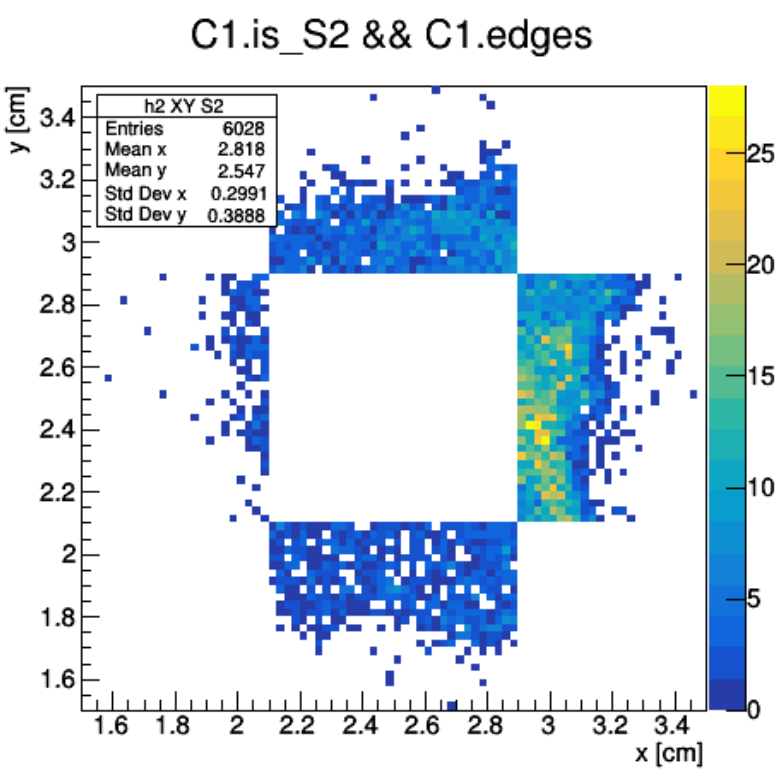


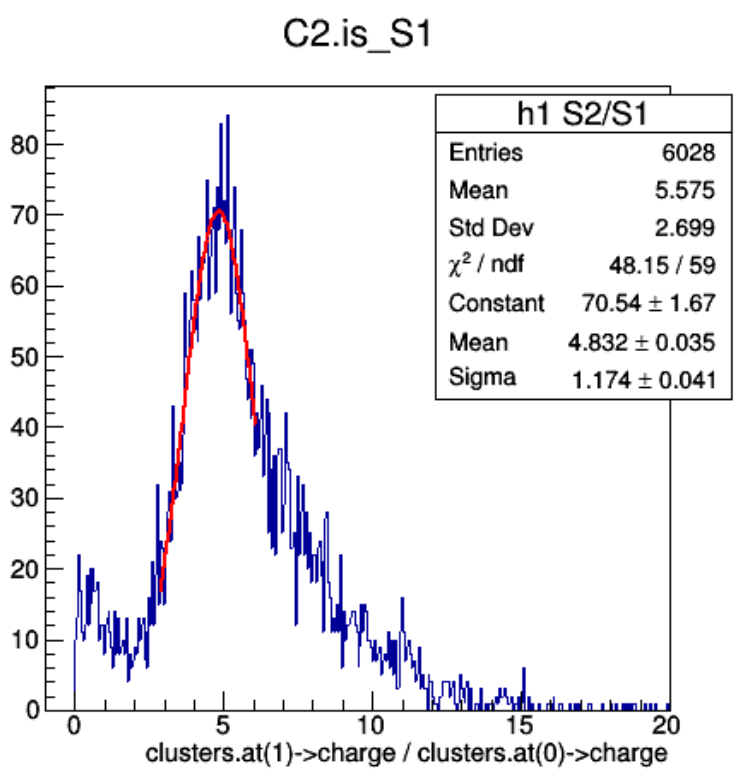


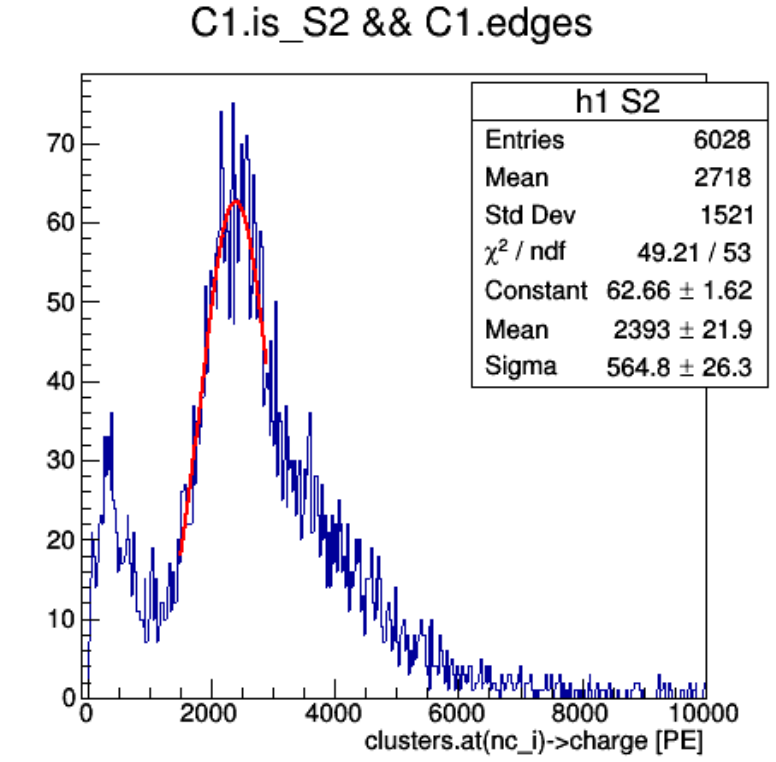


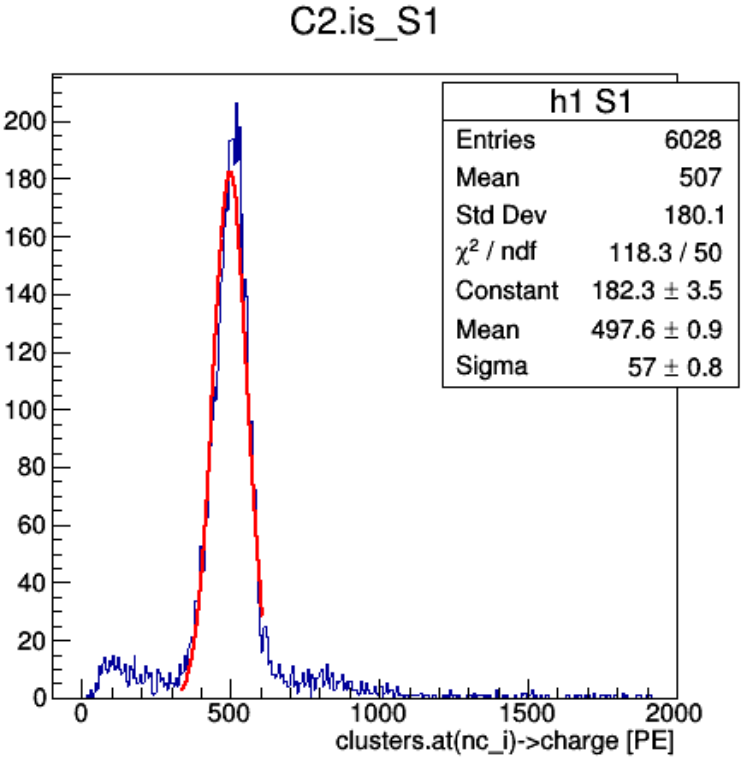


Ph2, Am241, run 542

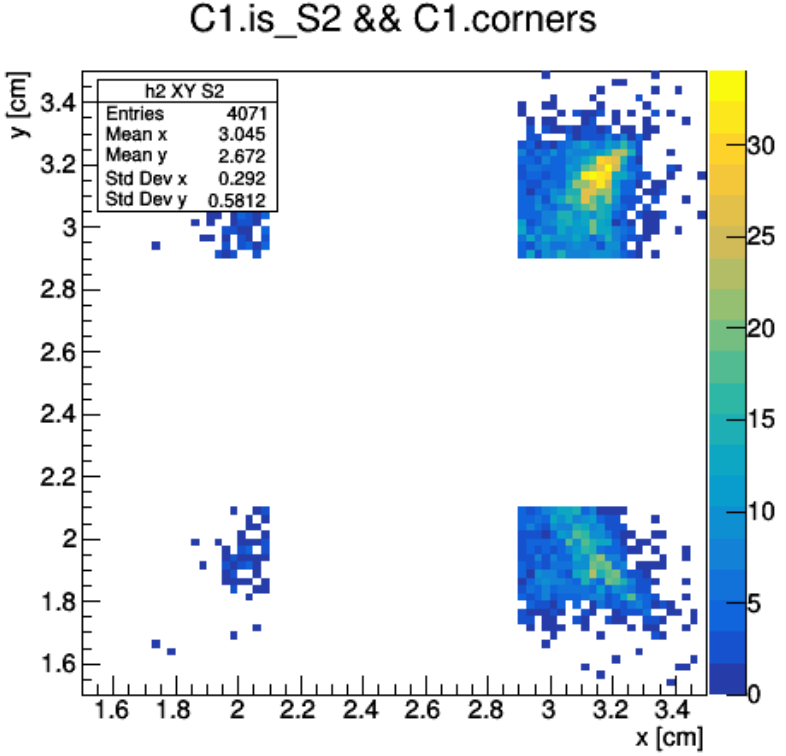


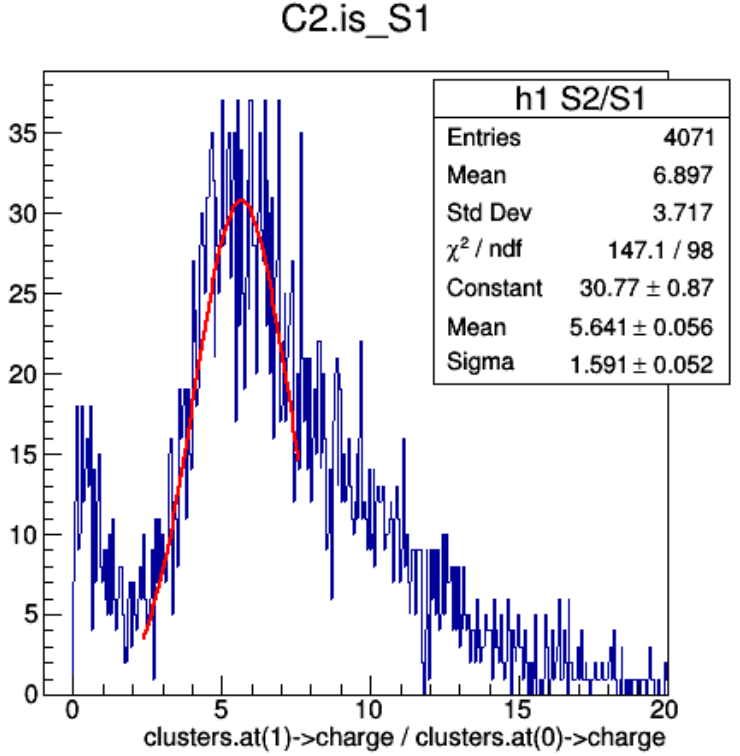


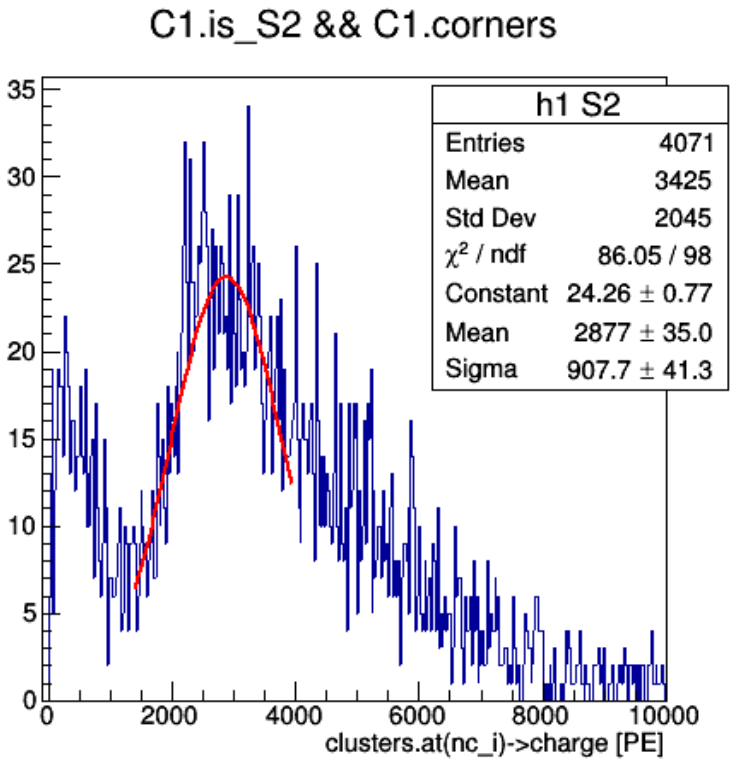


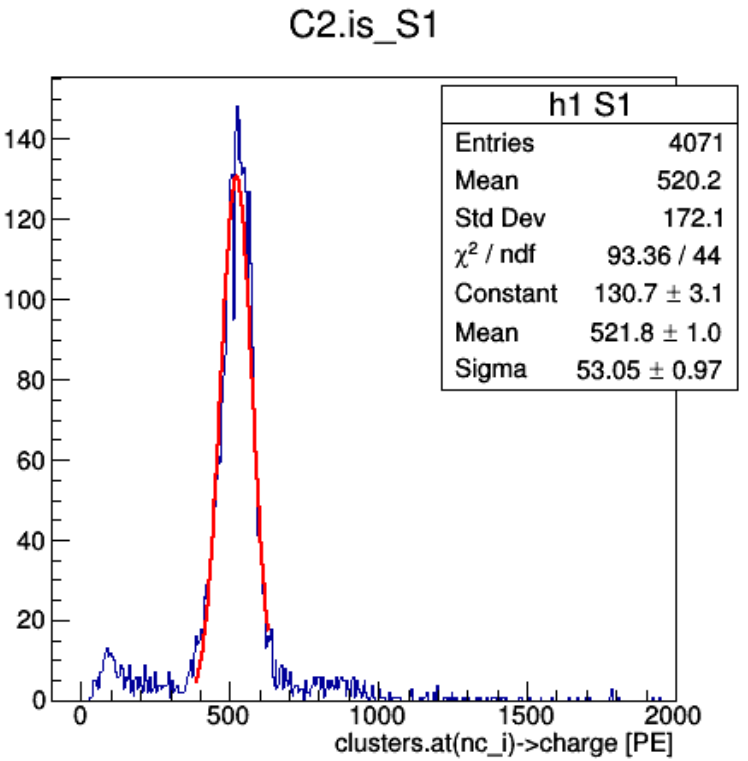


Ph2, Am241, run 542

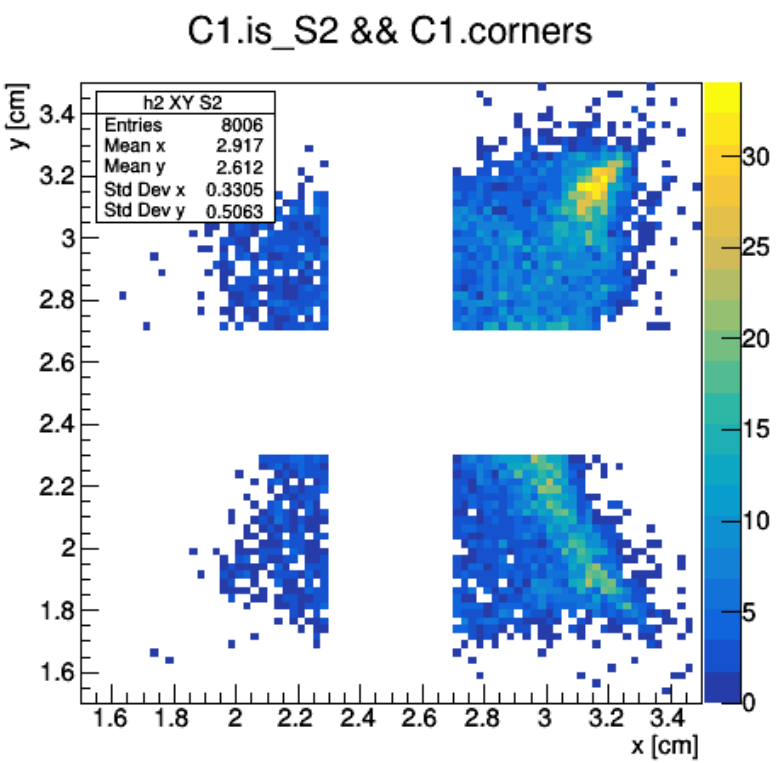


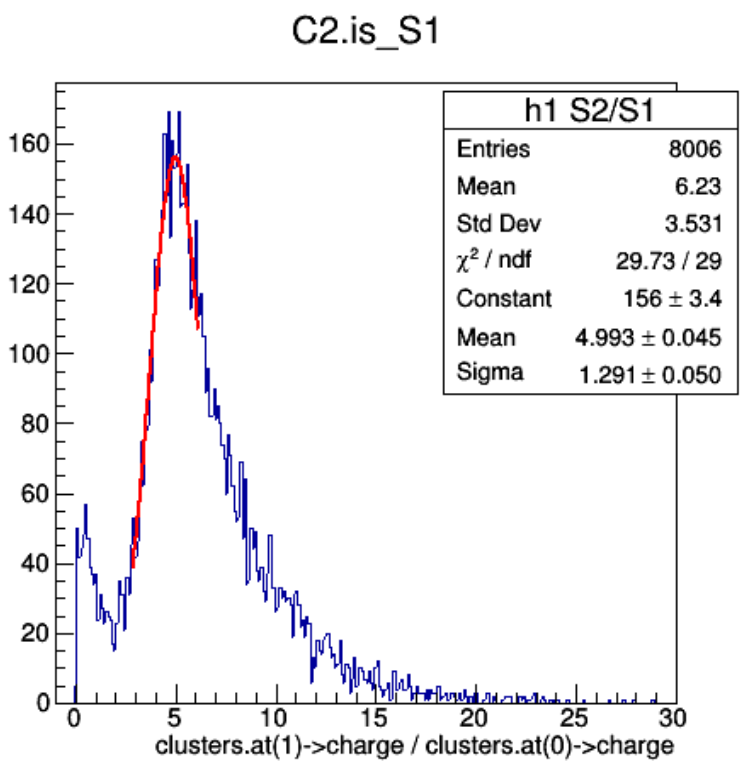


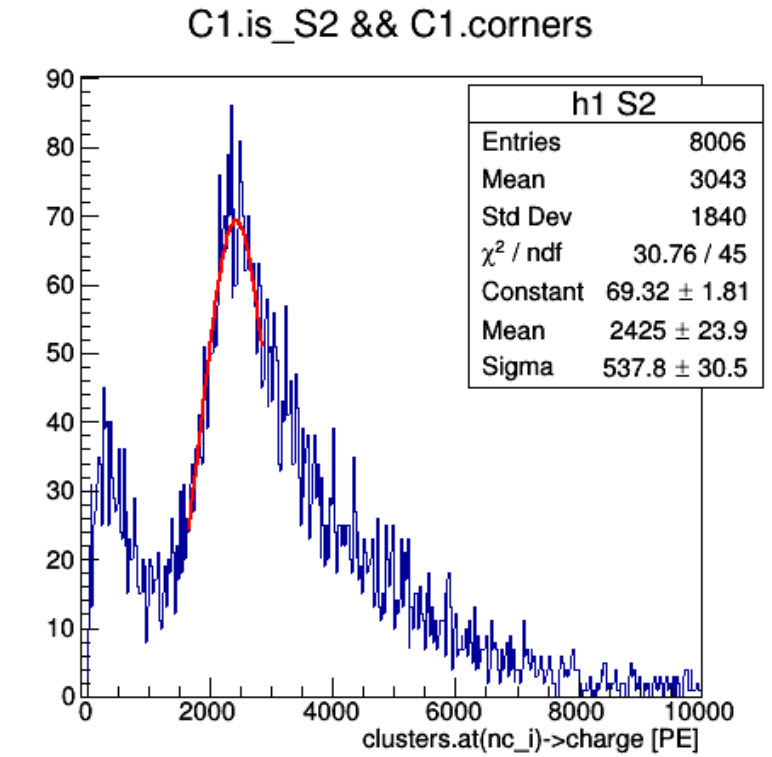


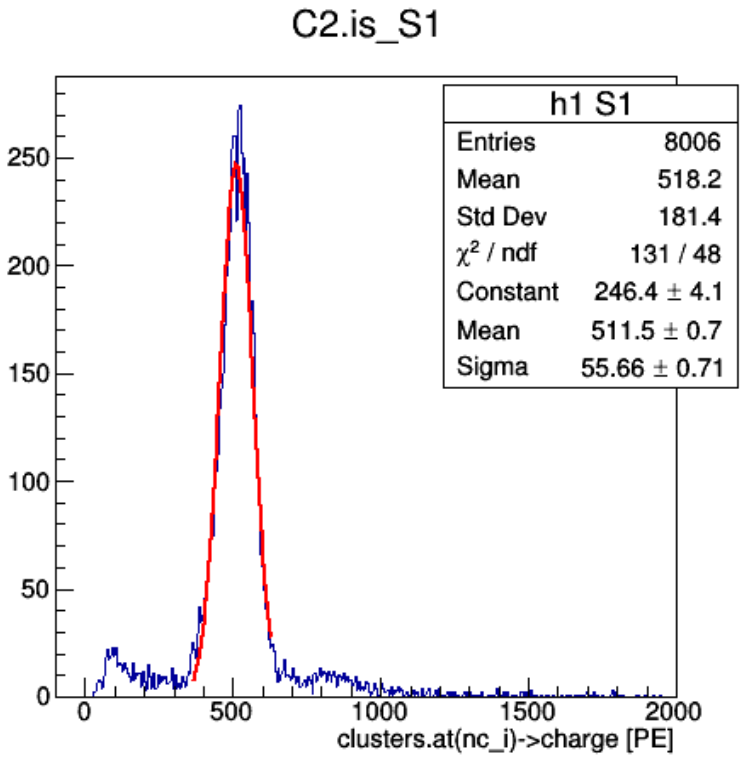


Ph2, Am241, run 542



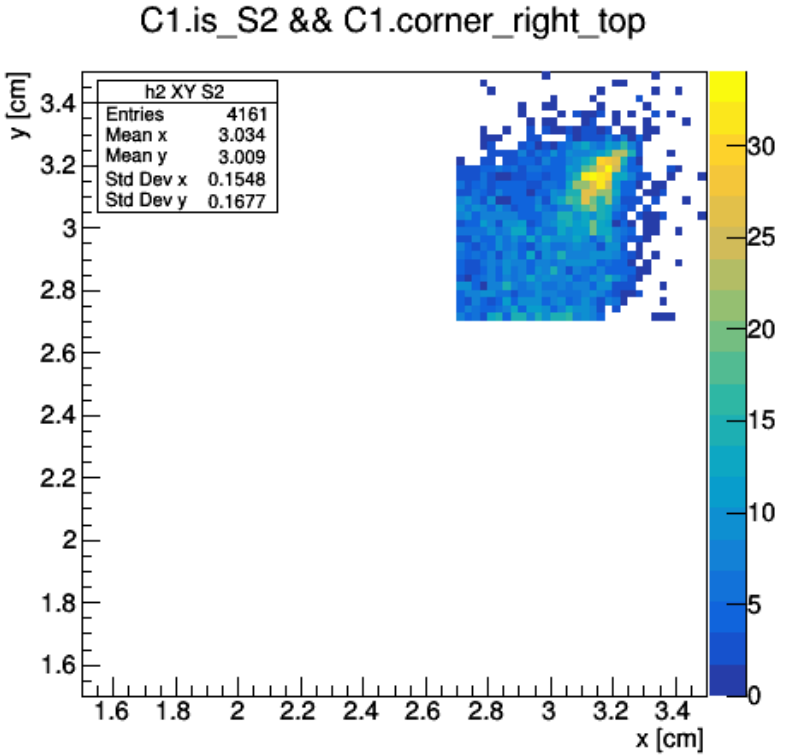


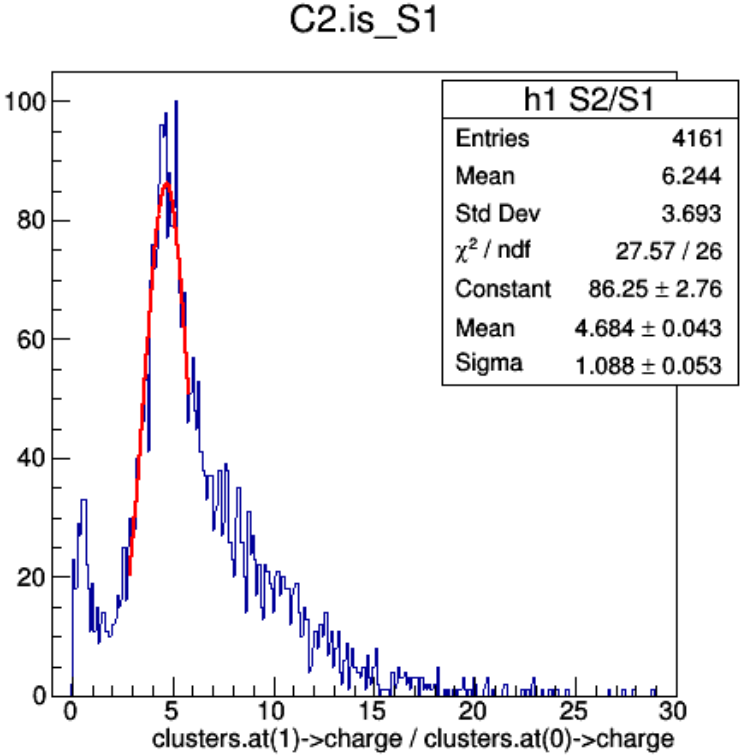


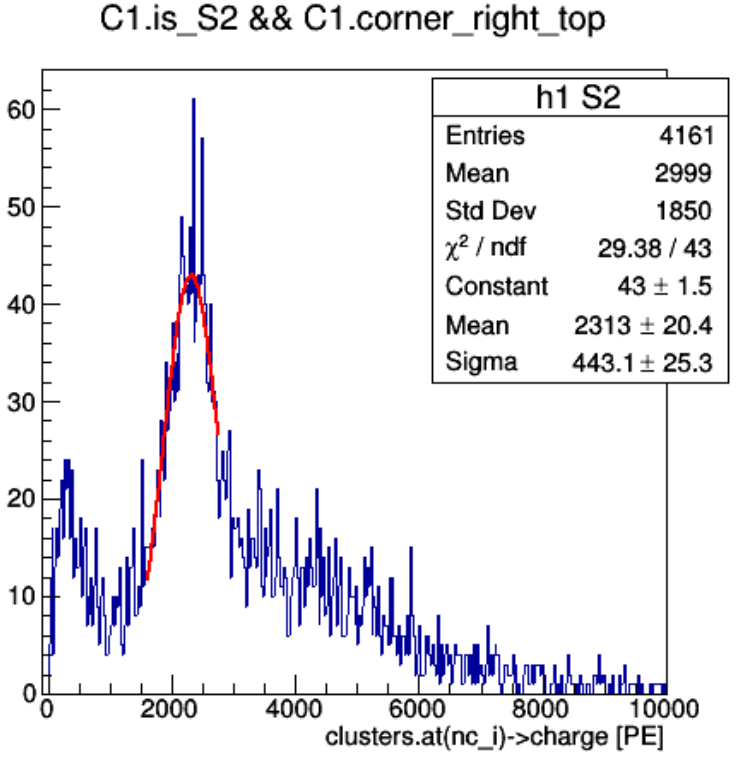


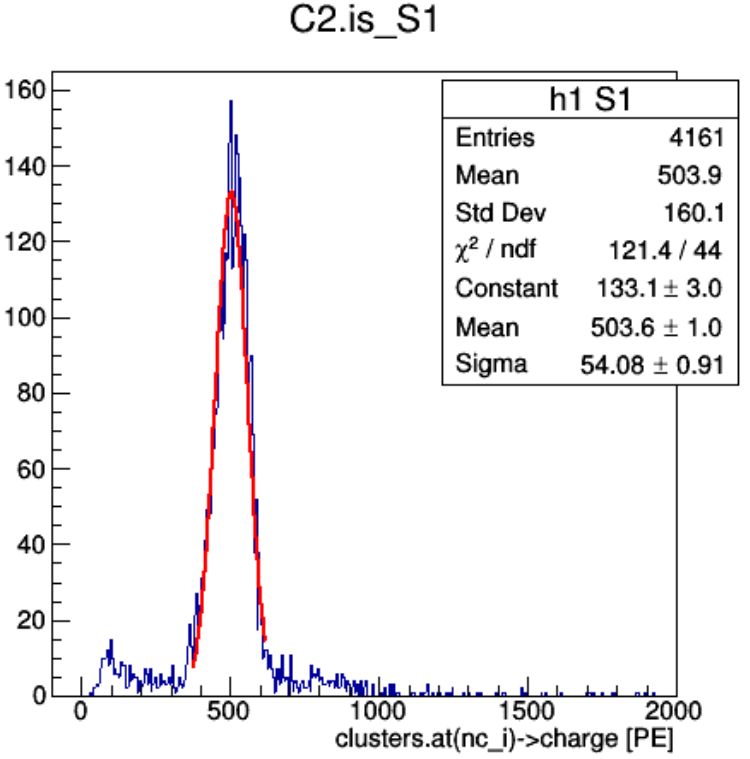
(redefinition of corners)

Ph2, Am241, run 542



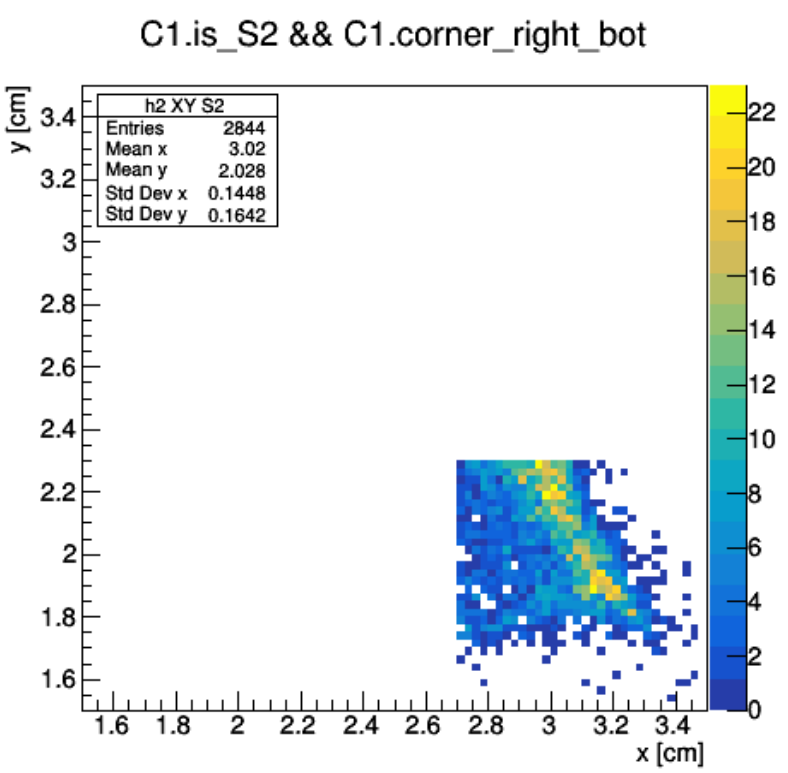


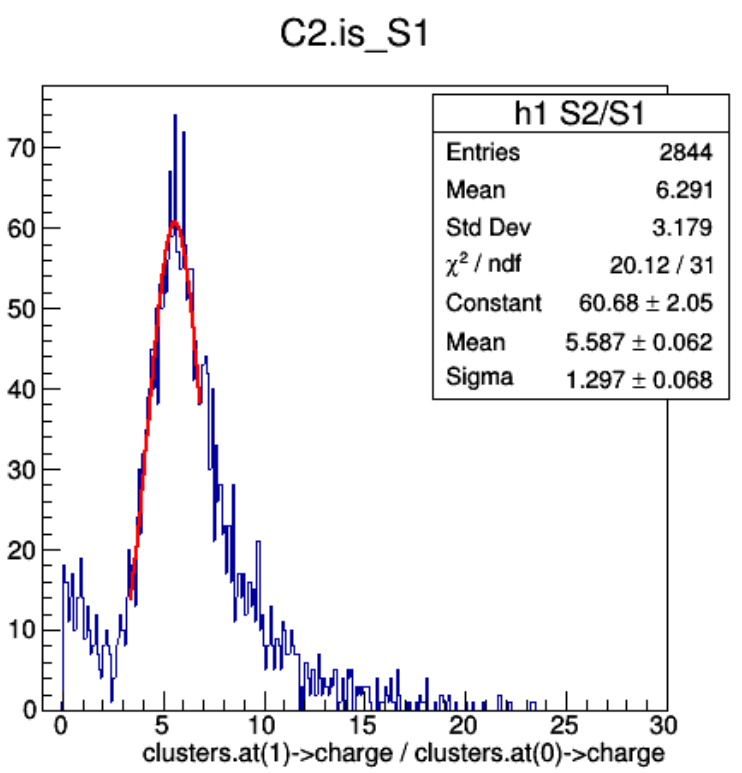


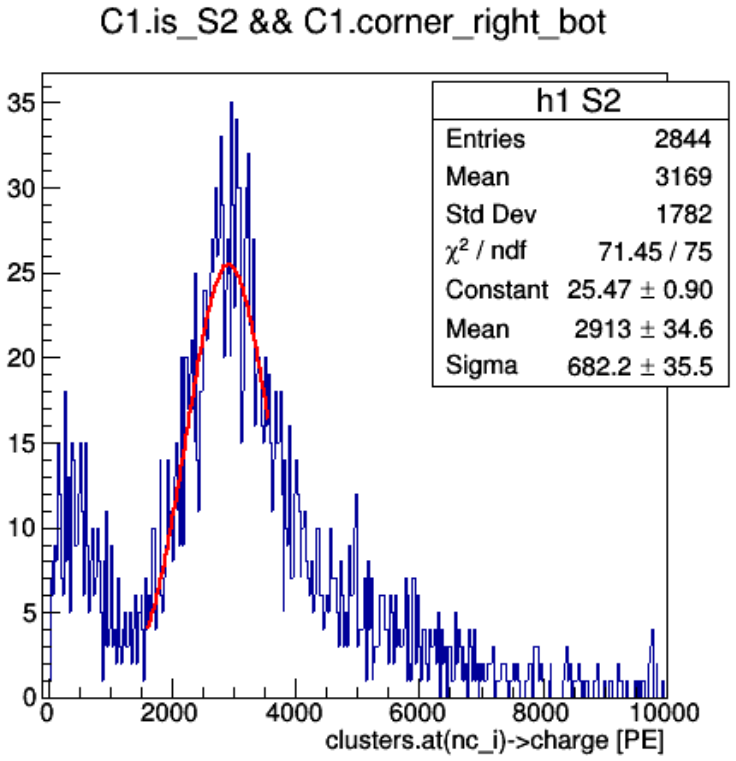


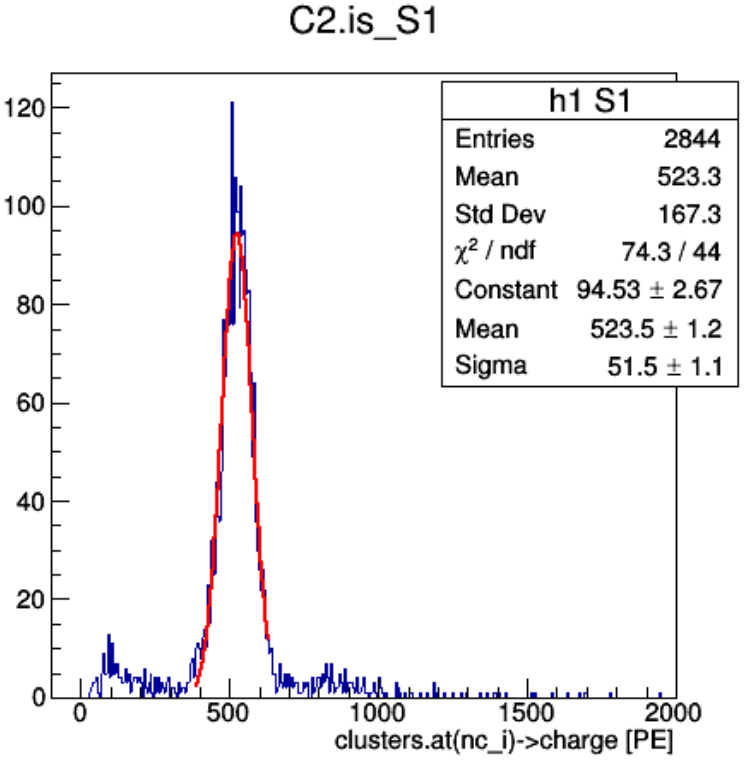
(redefinition of corners)

Ph2, Am241, run 542



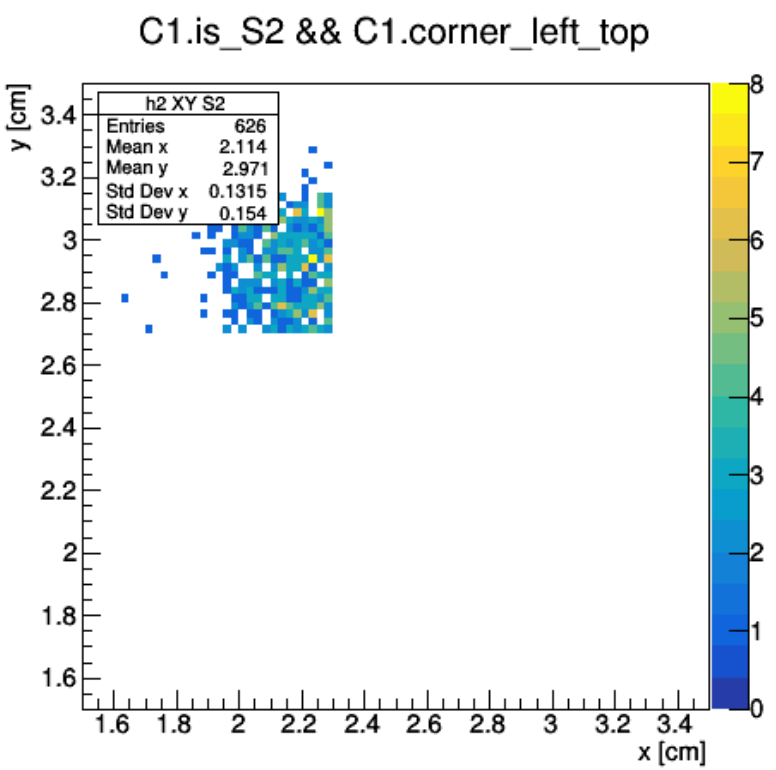


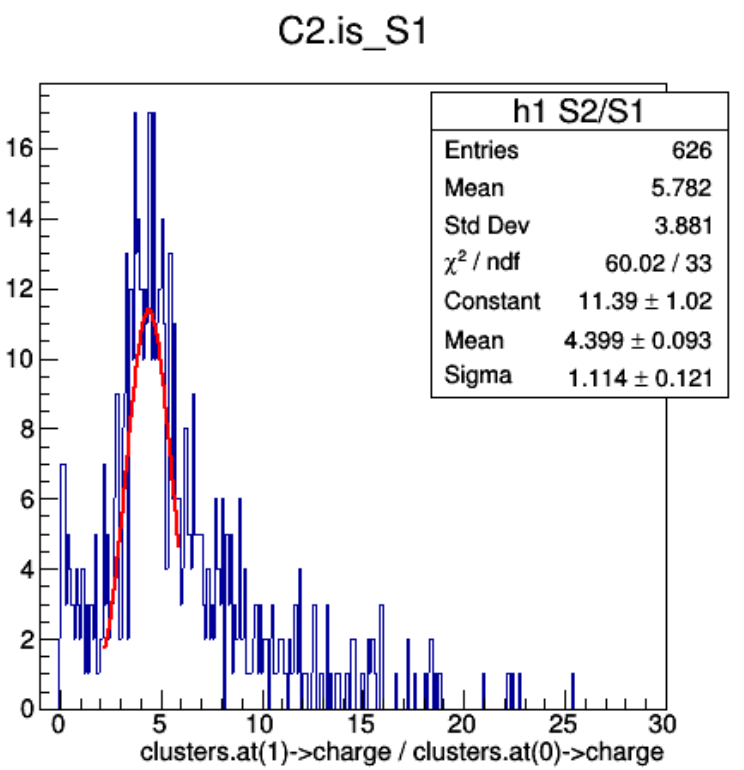


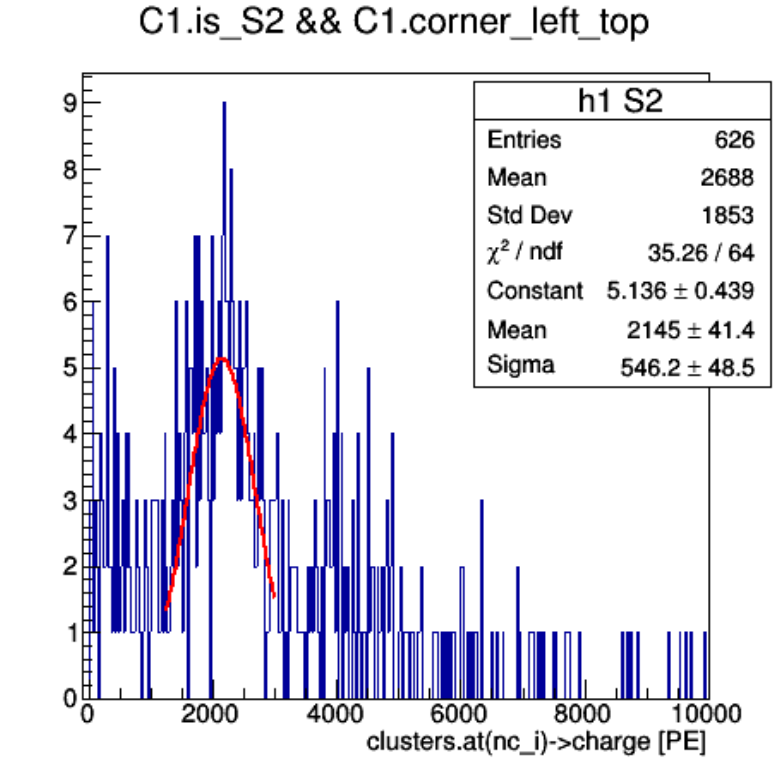


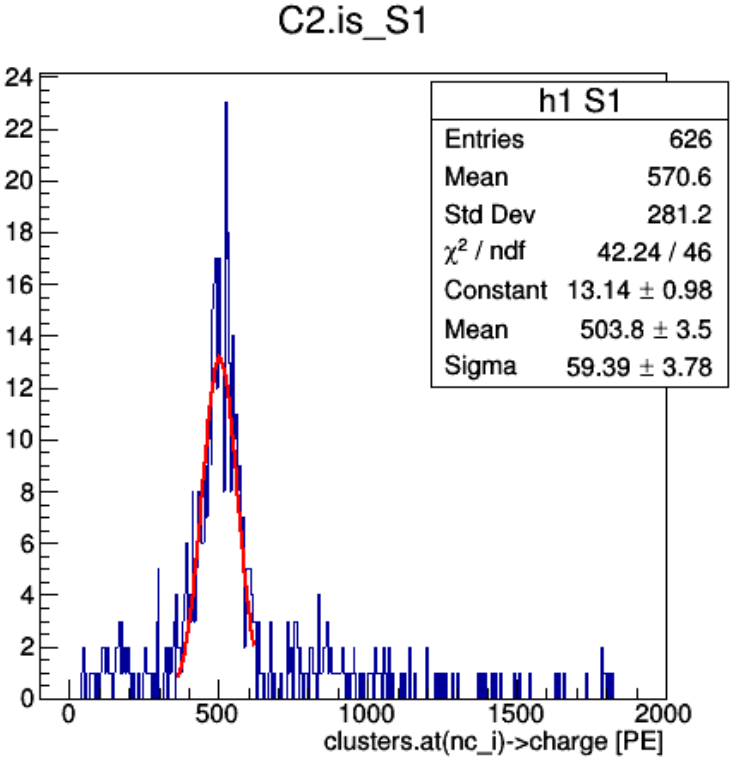
(redefinition of corners)

Ph2, Am241, run 542



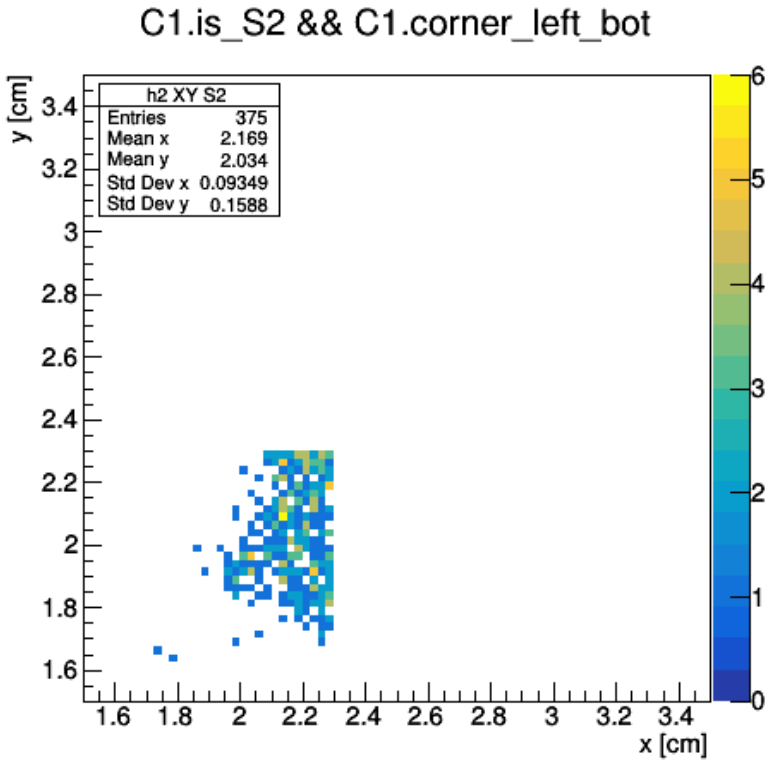


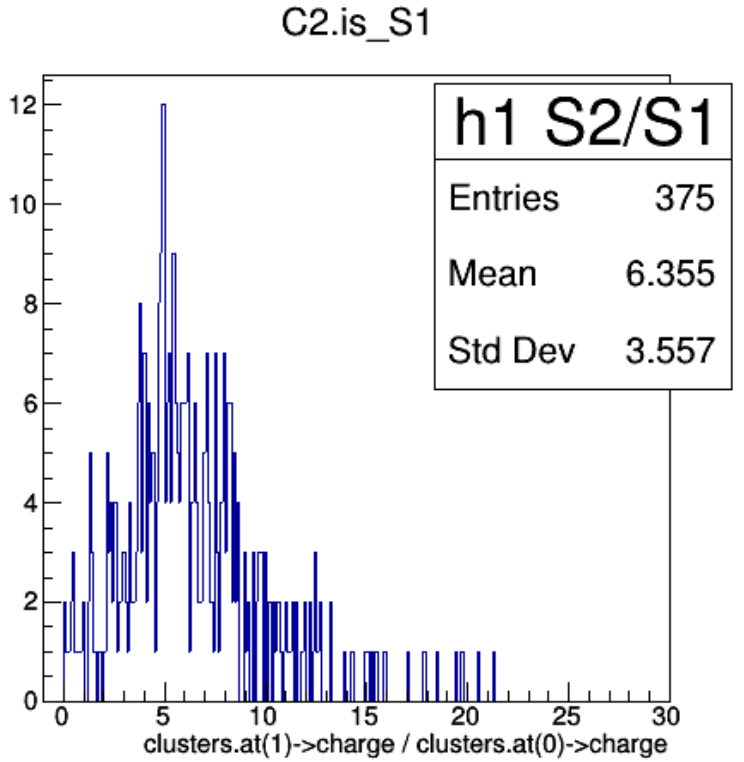


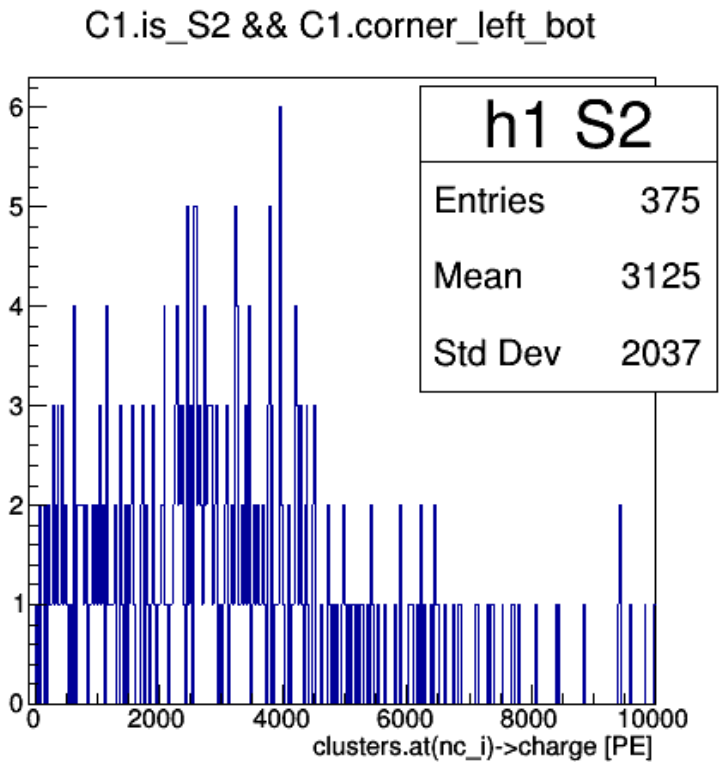


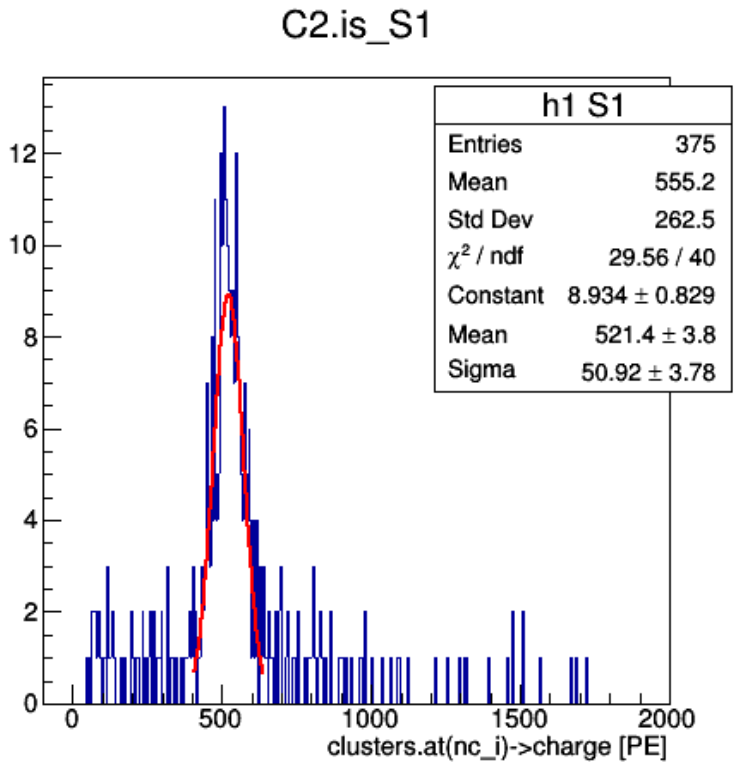
(redefinition of corners)

Ph2, Am241, run 542







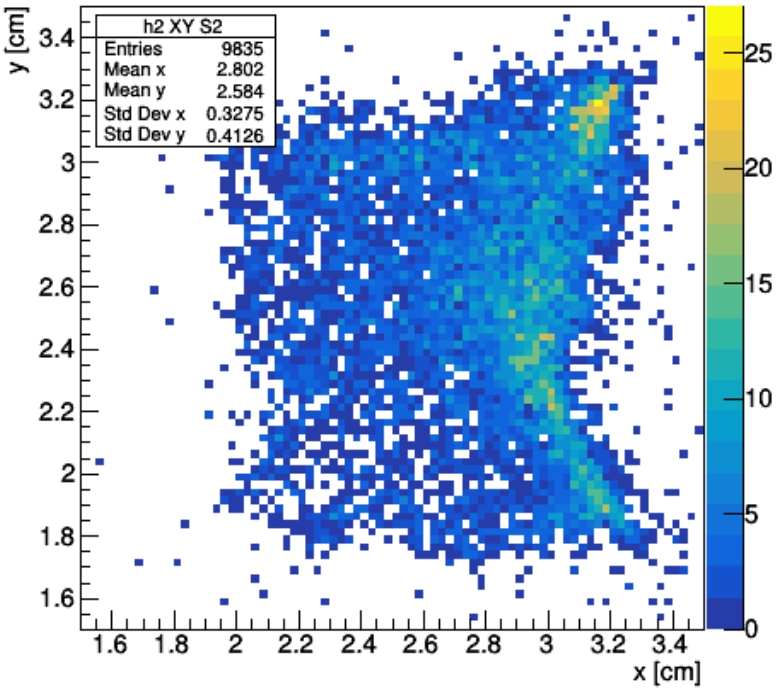


(redefinition of corners)

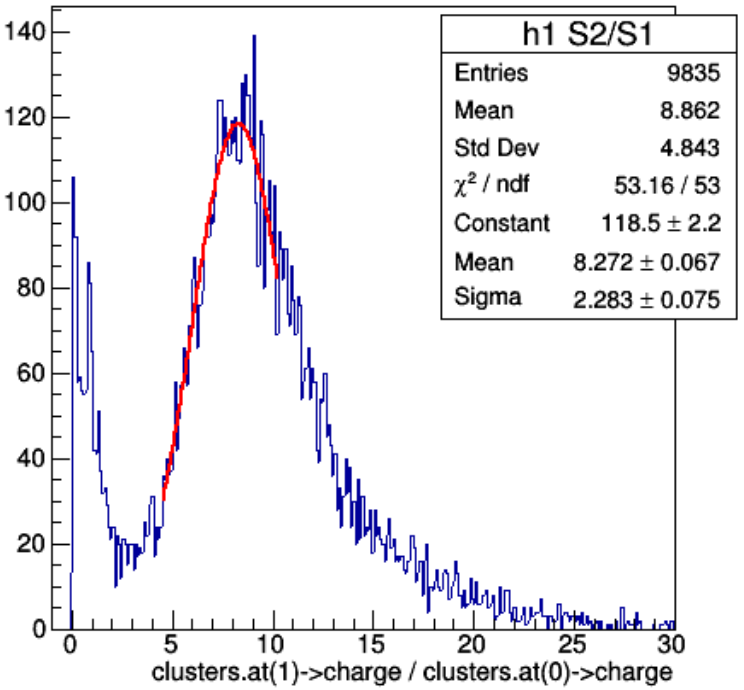
Ph2, Am241, run 544

Ph2, Am241, run 544

C1.is_S2



C2.is_S1



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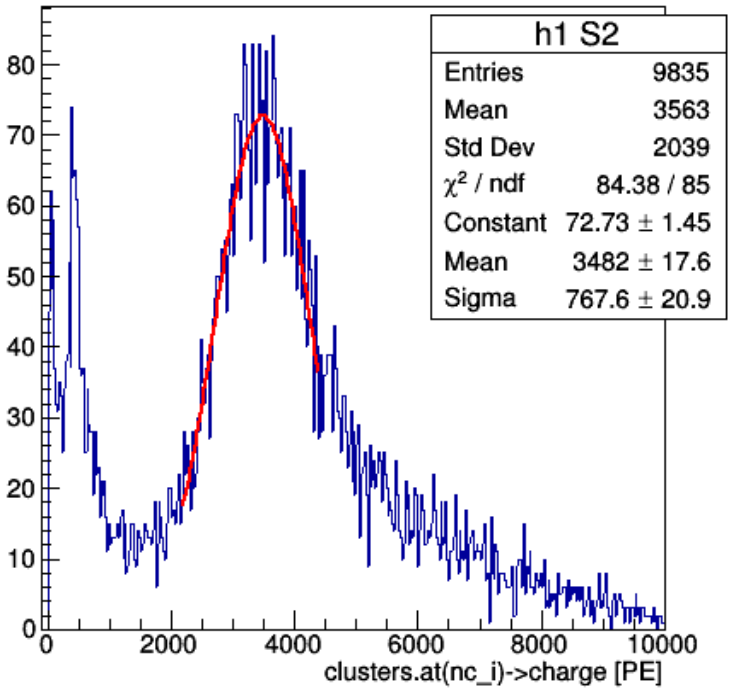

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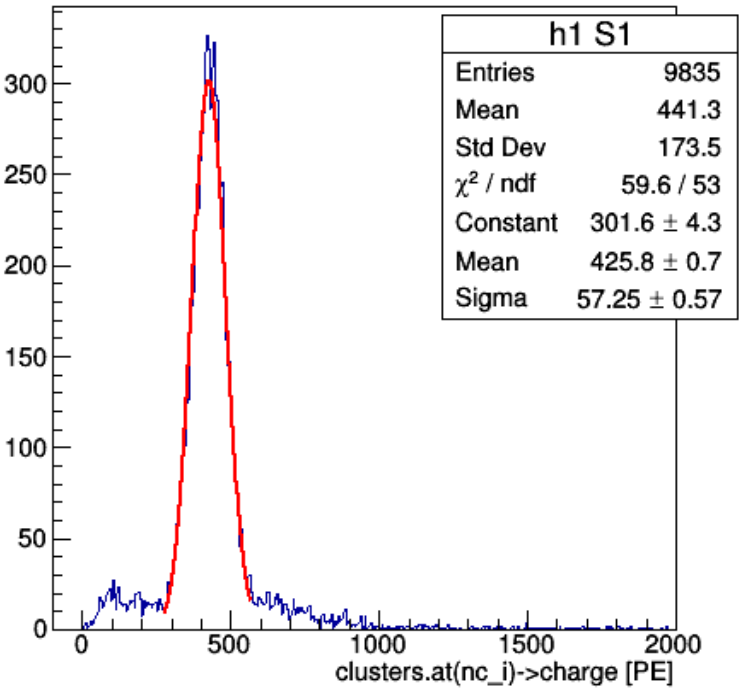
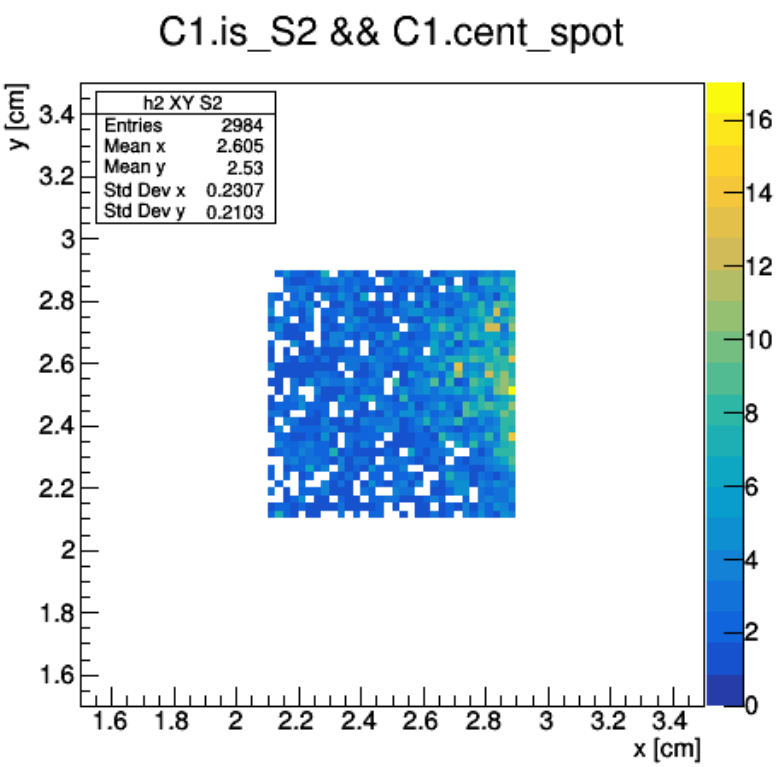
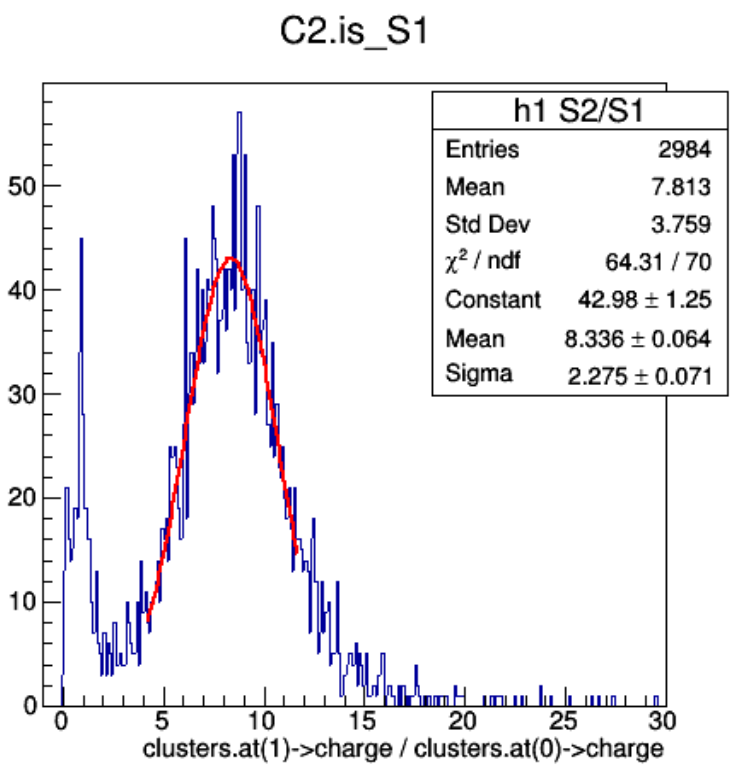
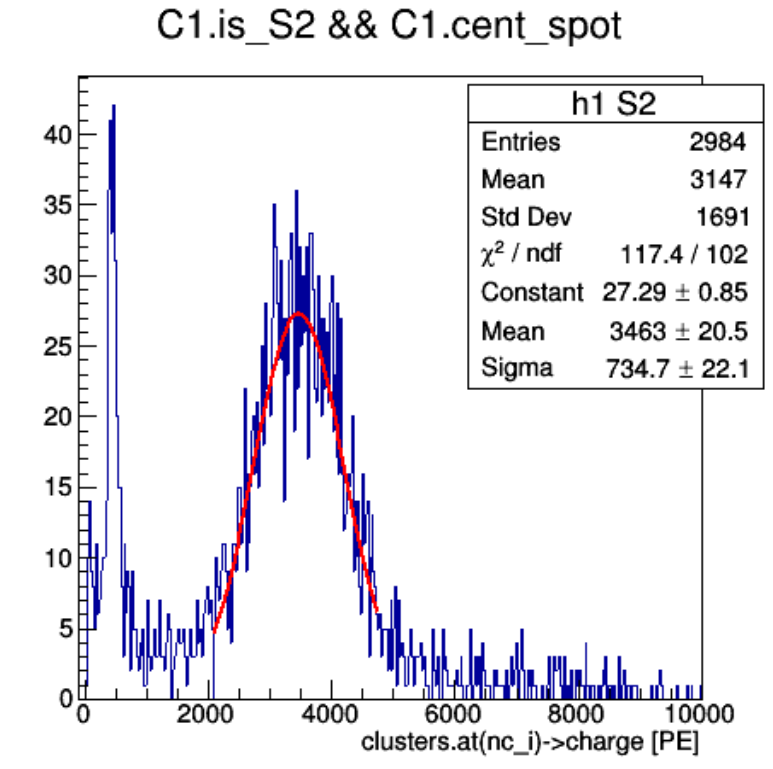
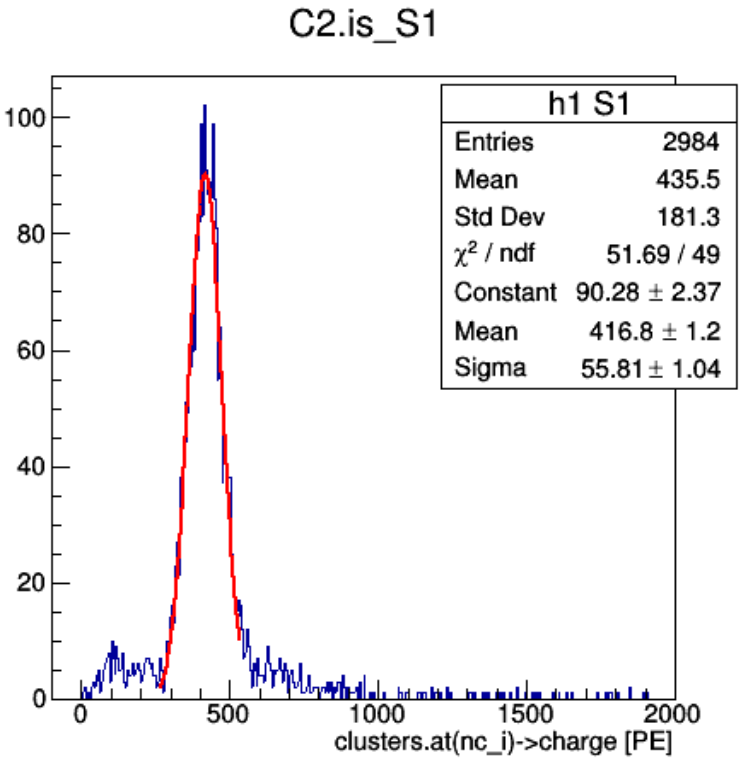


Ph2, Am241, run 544

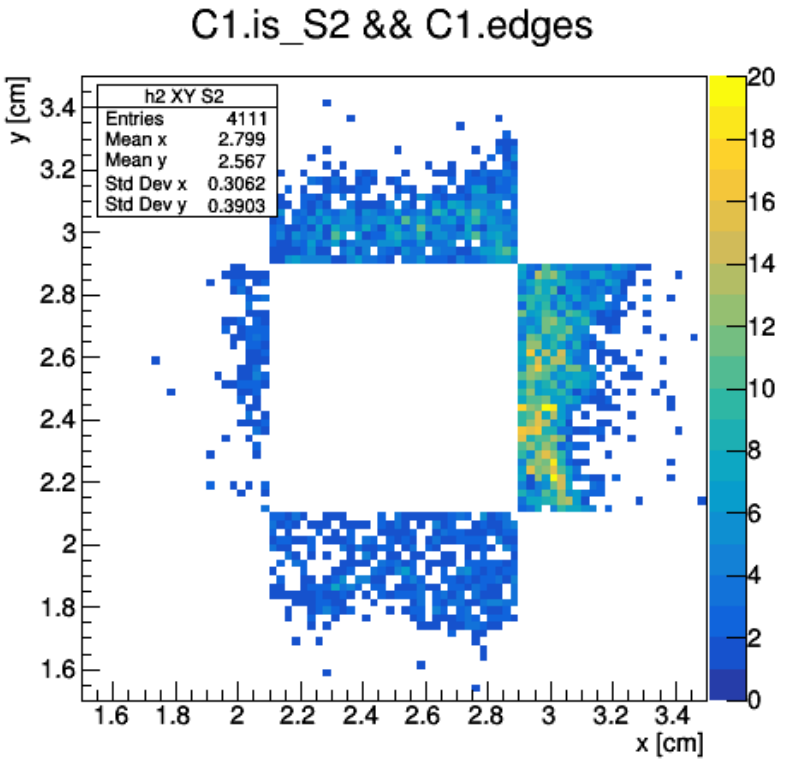


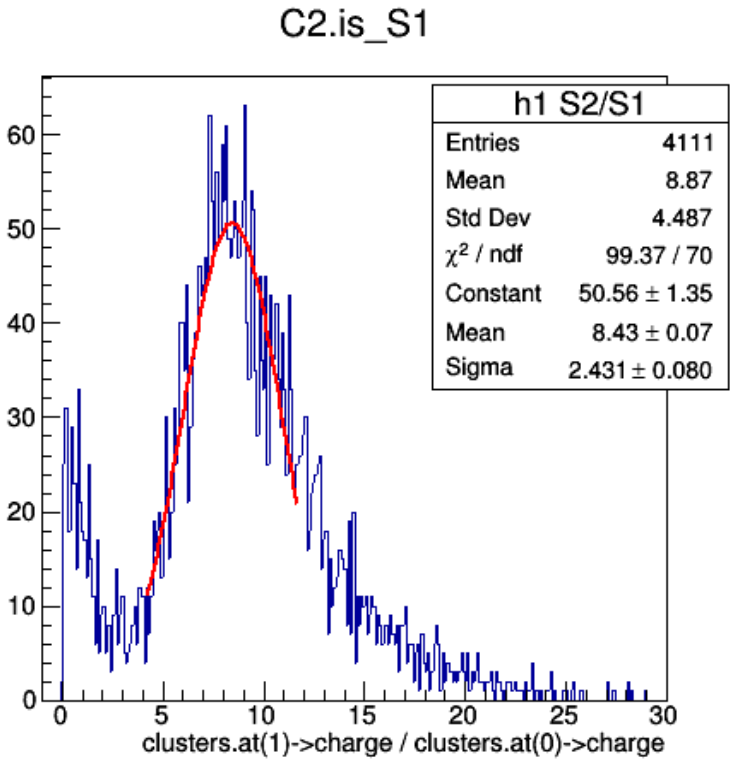


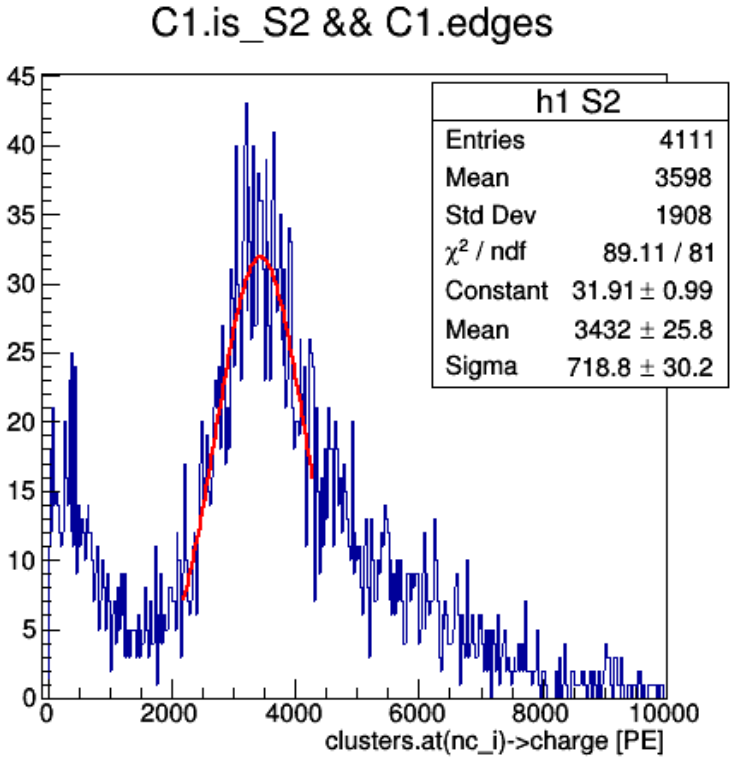


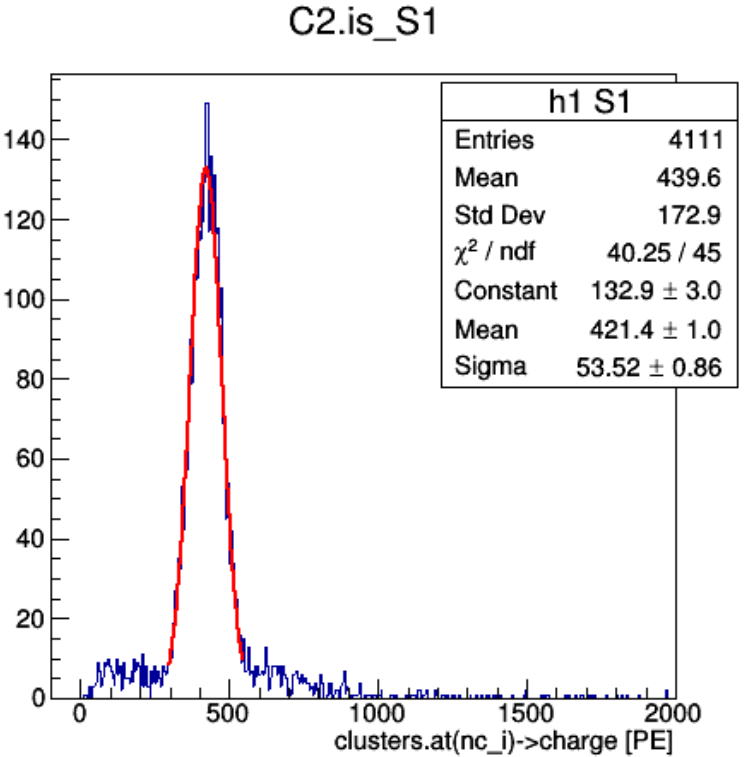


Ph2, Am241, run 544

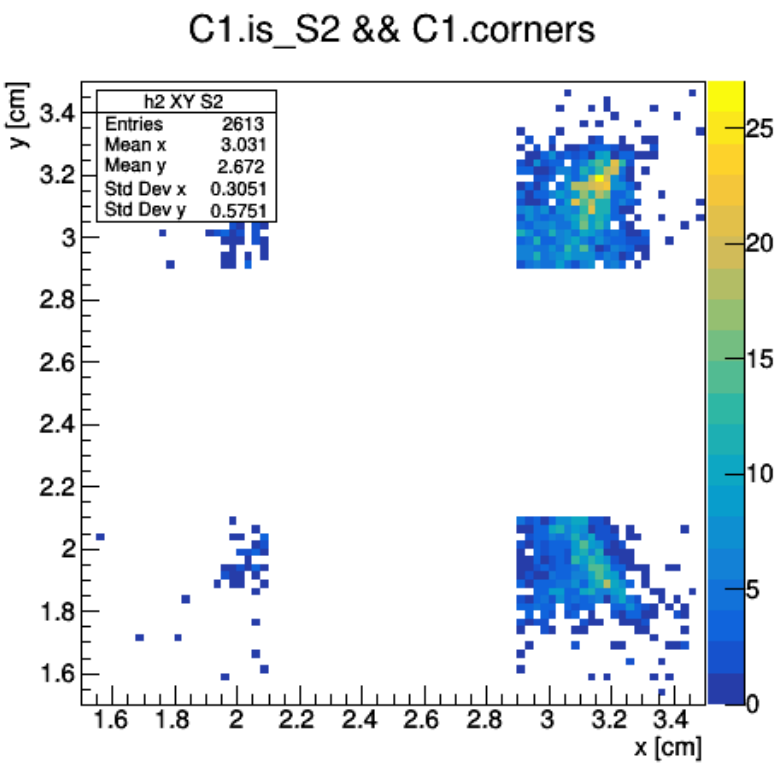


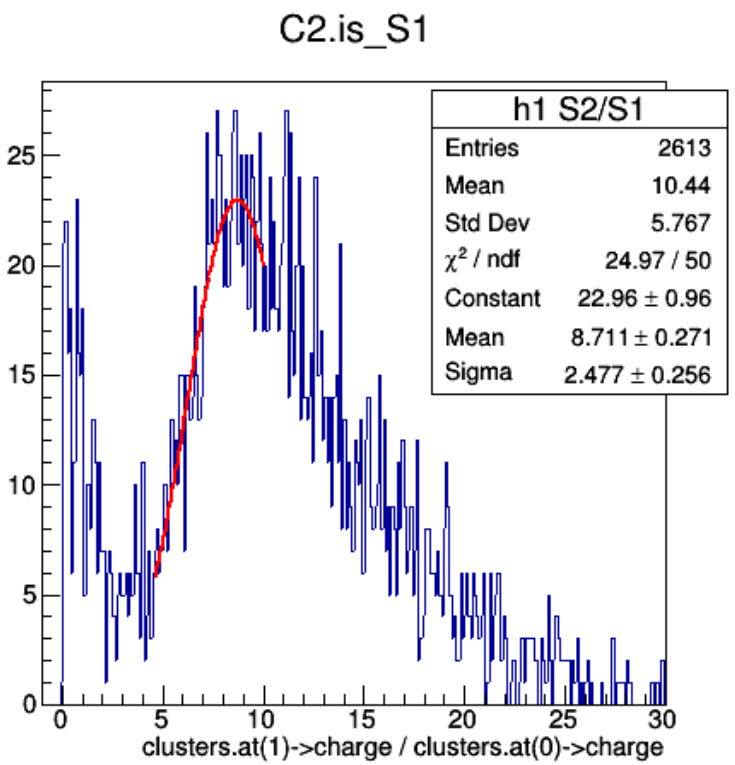


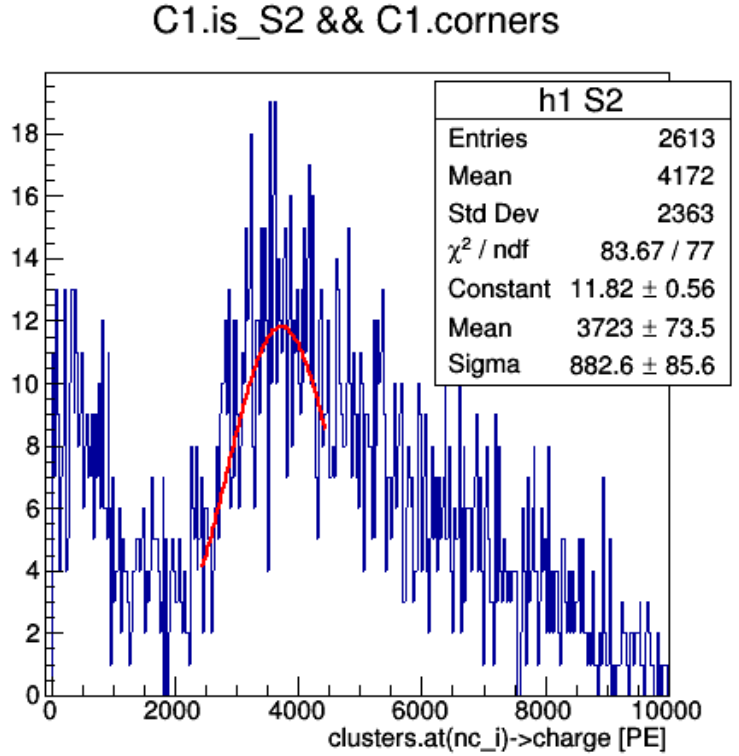


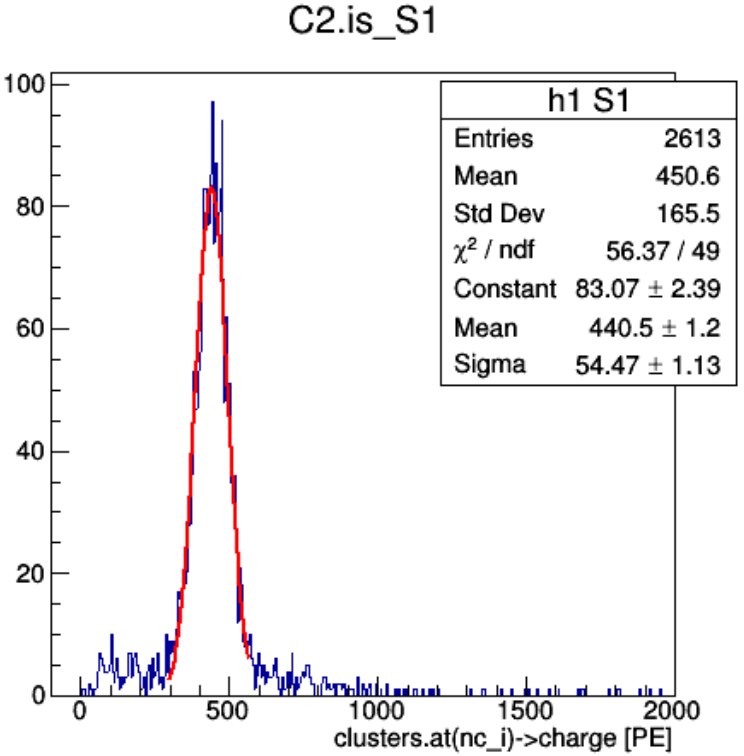


Ph2, Am241, run 544

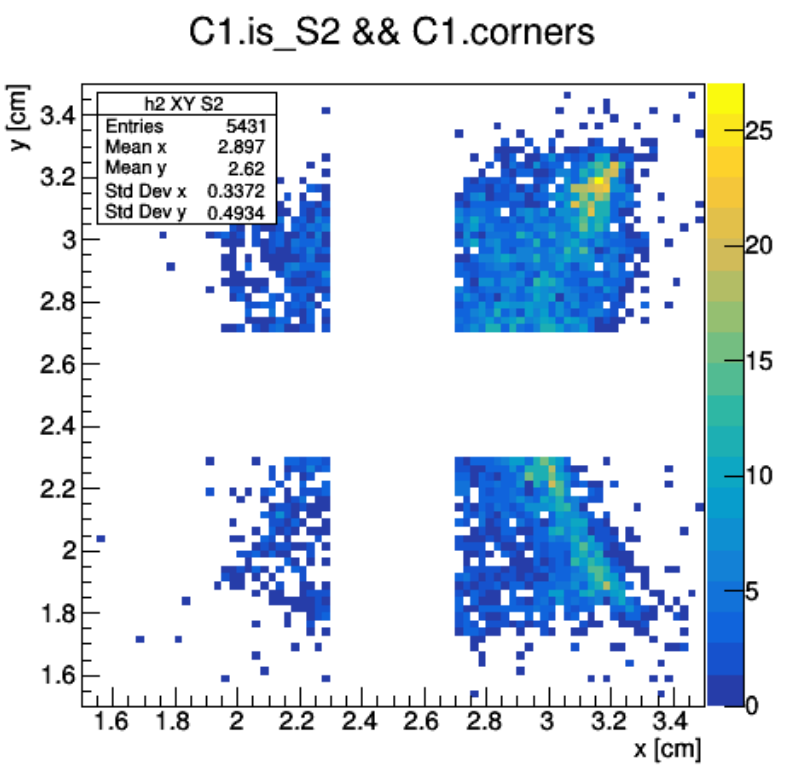


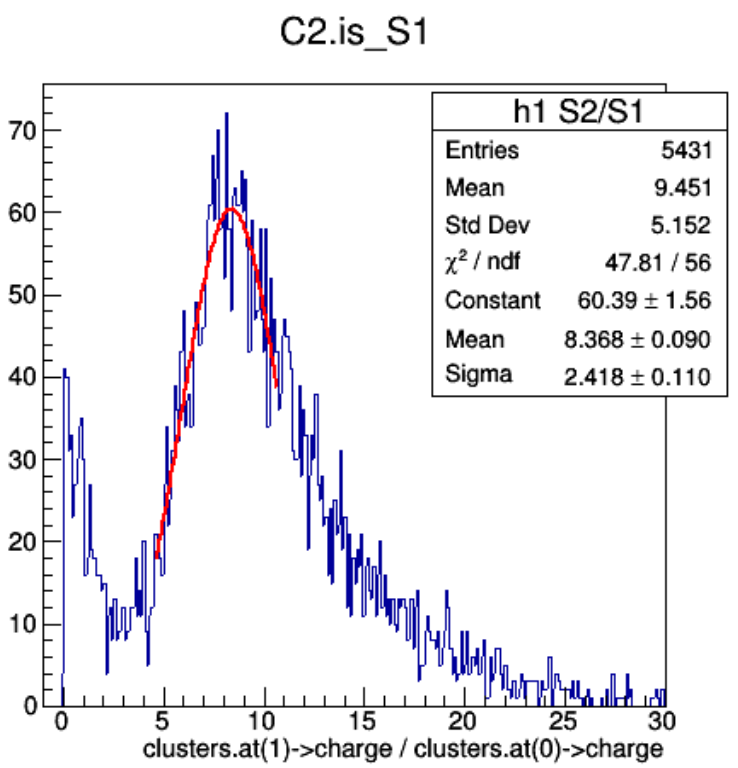


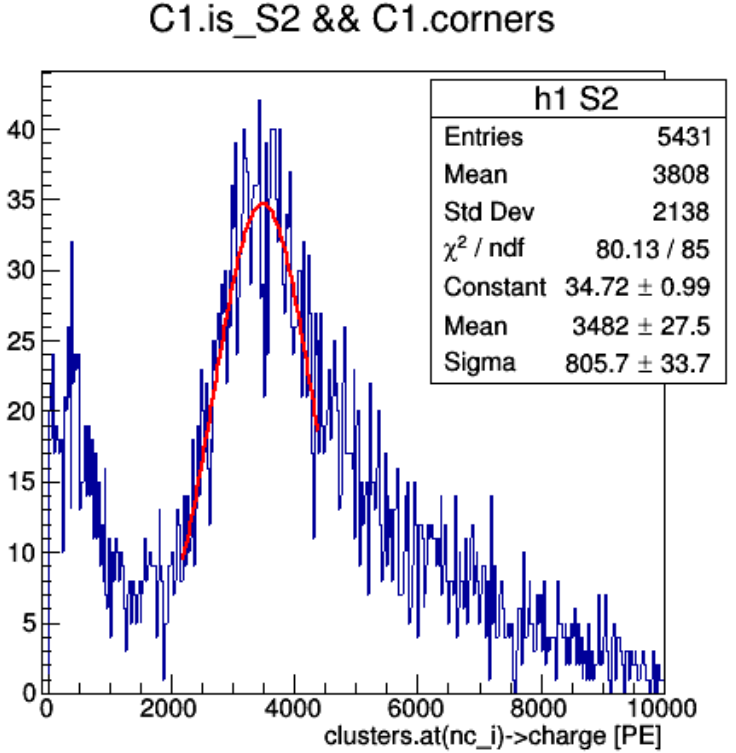


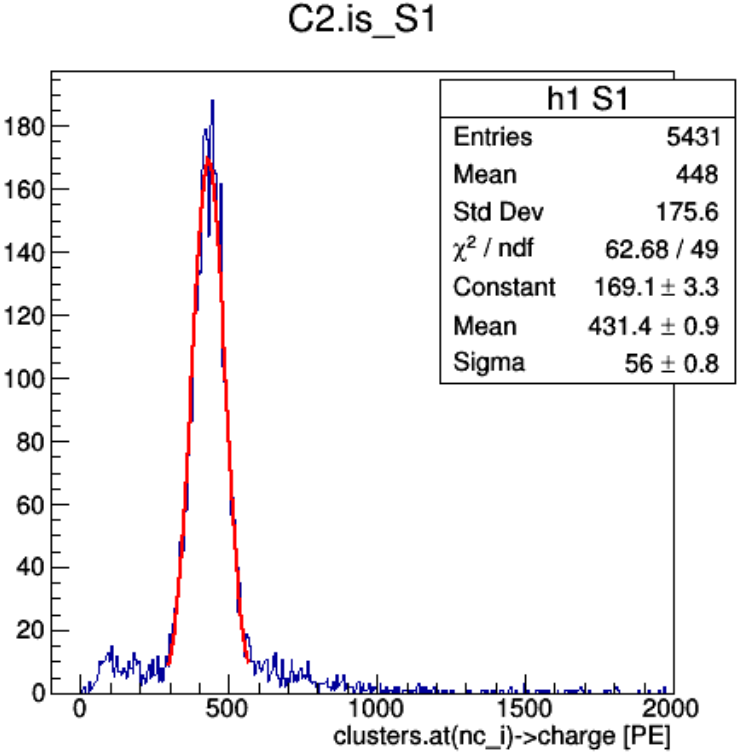


Ph2, Am241, run 544



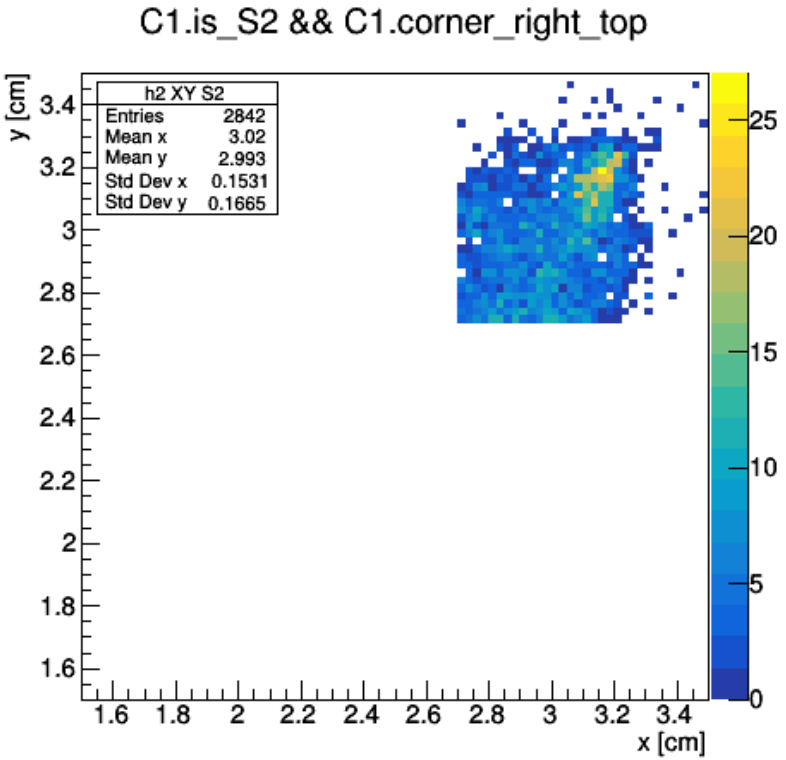


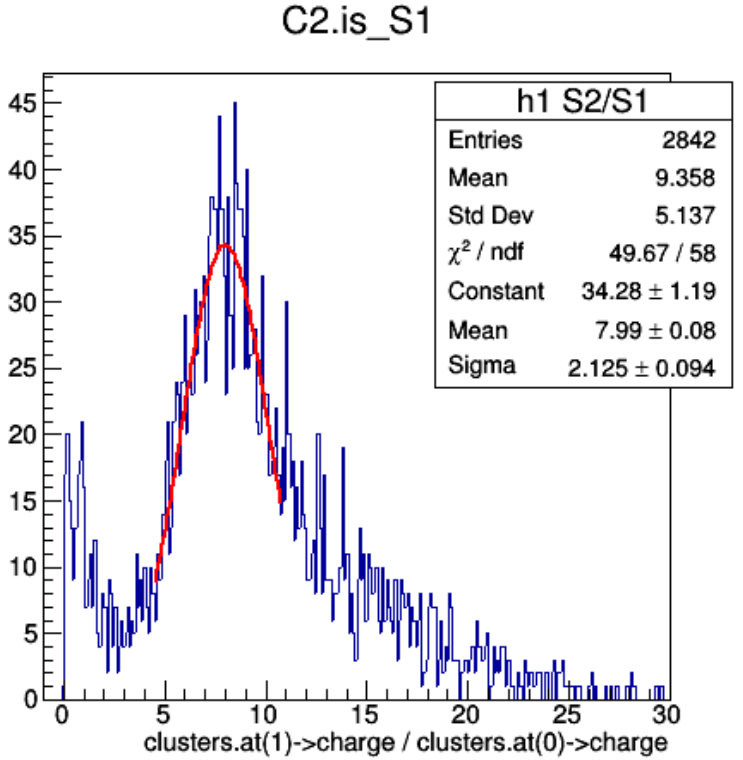


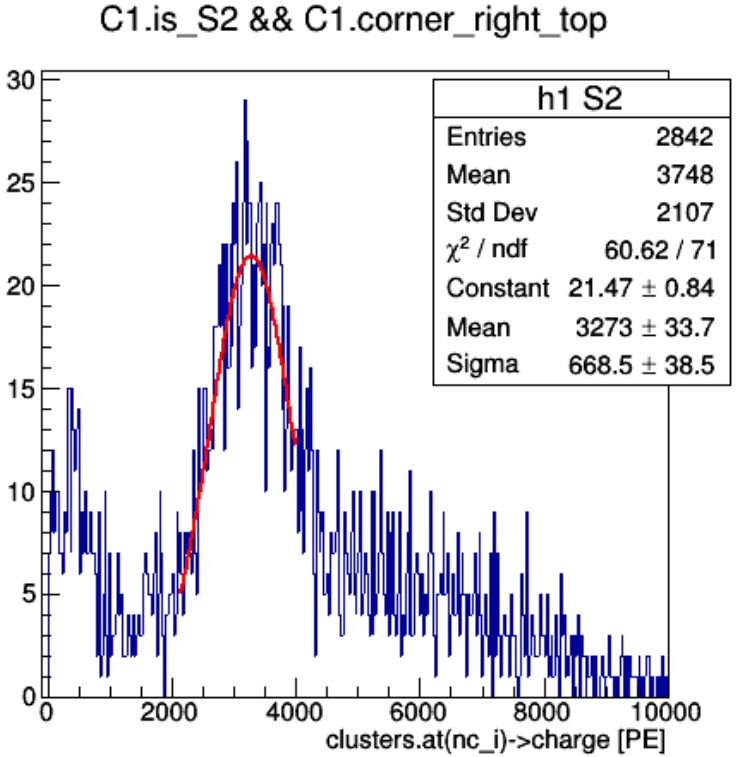


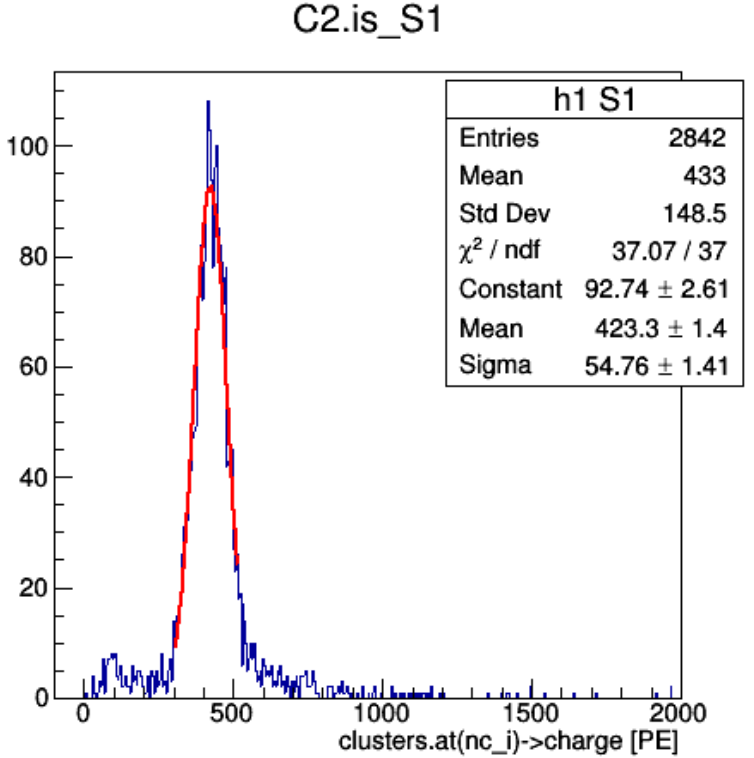
(redefinition of corners)

Ph2, Am241, run 544



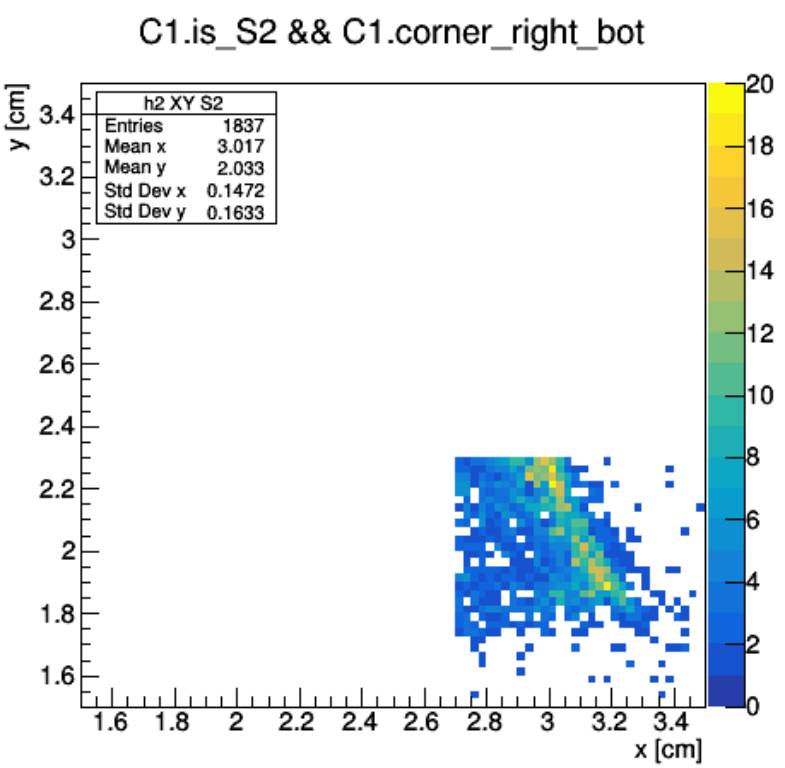


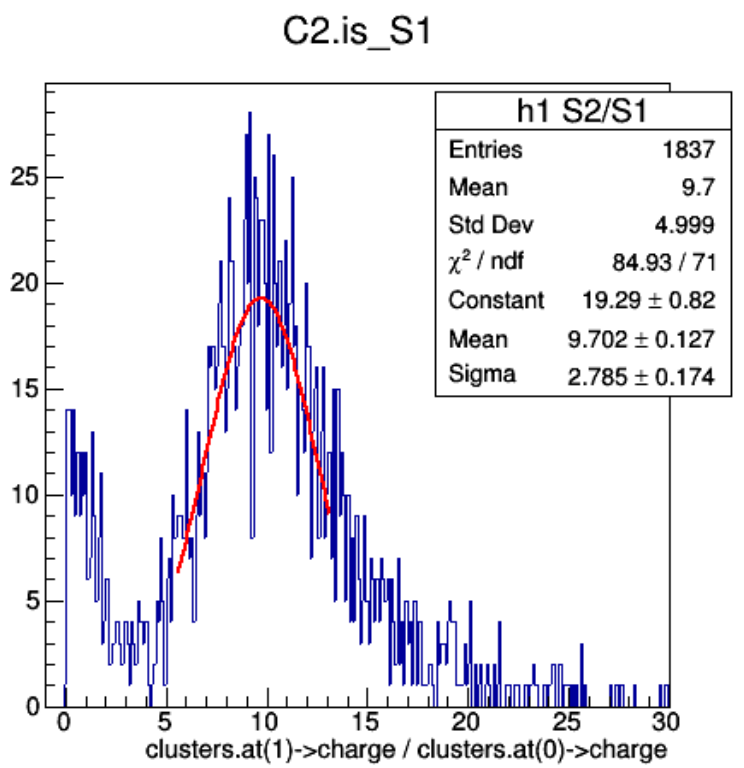


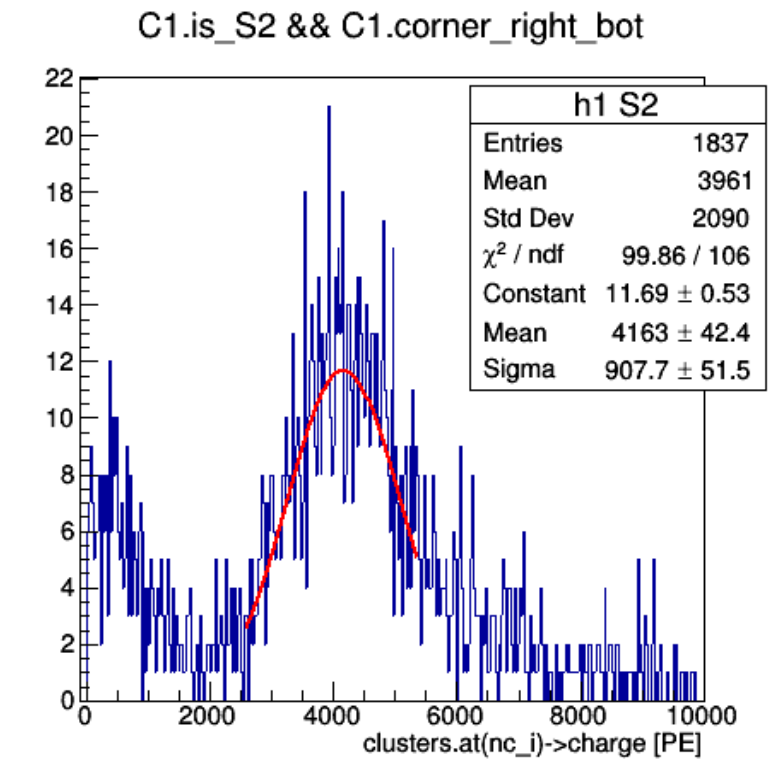


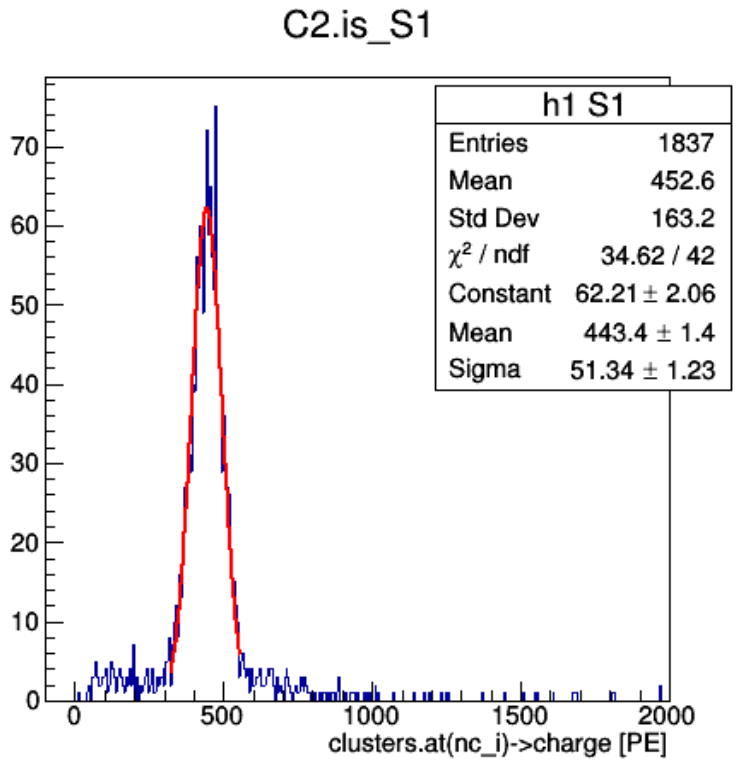
(redefinition of corners)

Ph2, Am241, run 544



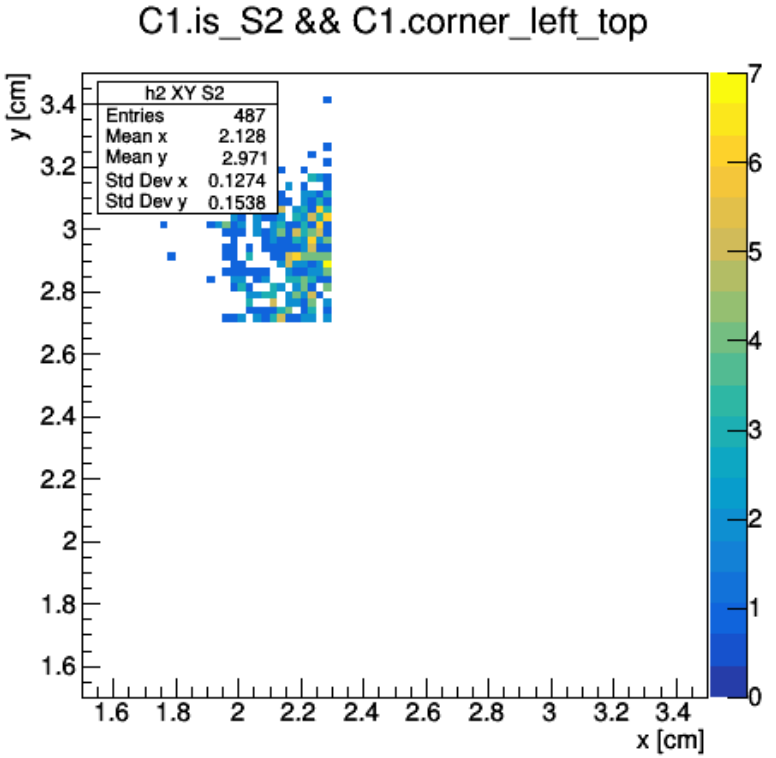


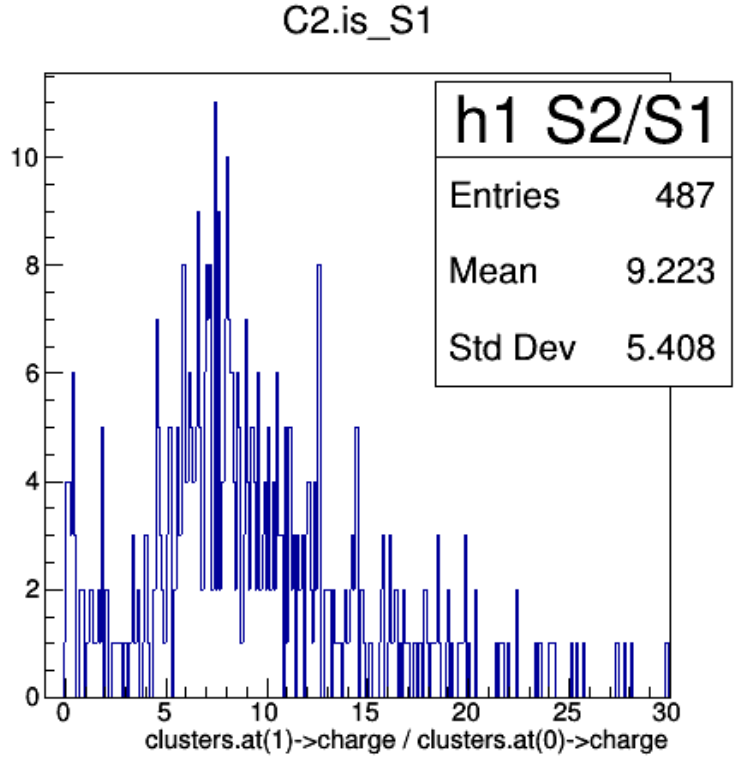


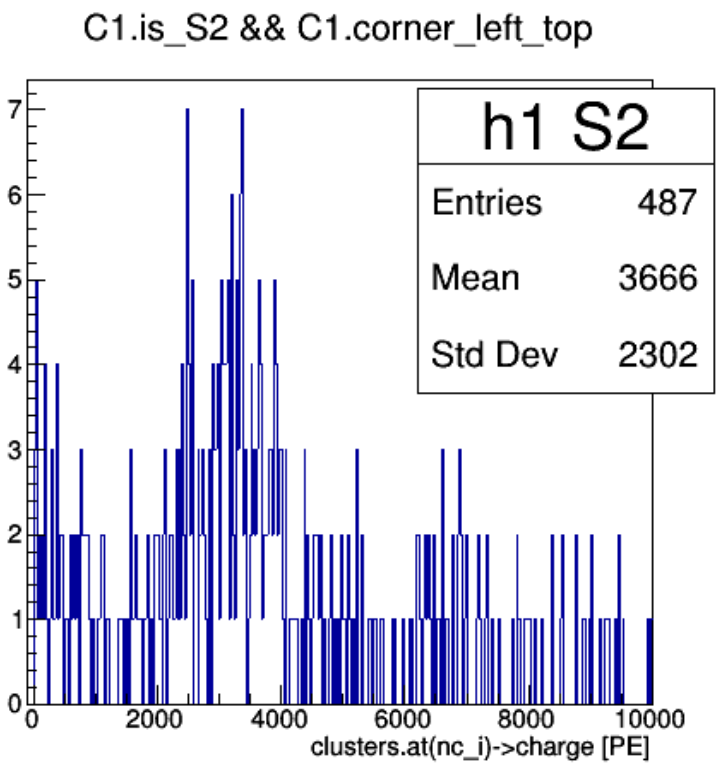


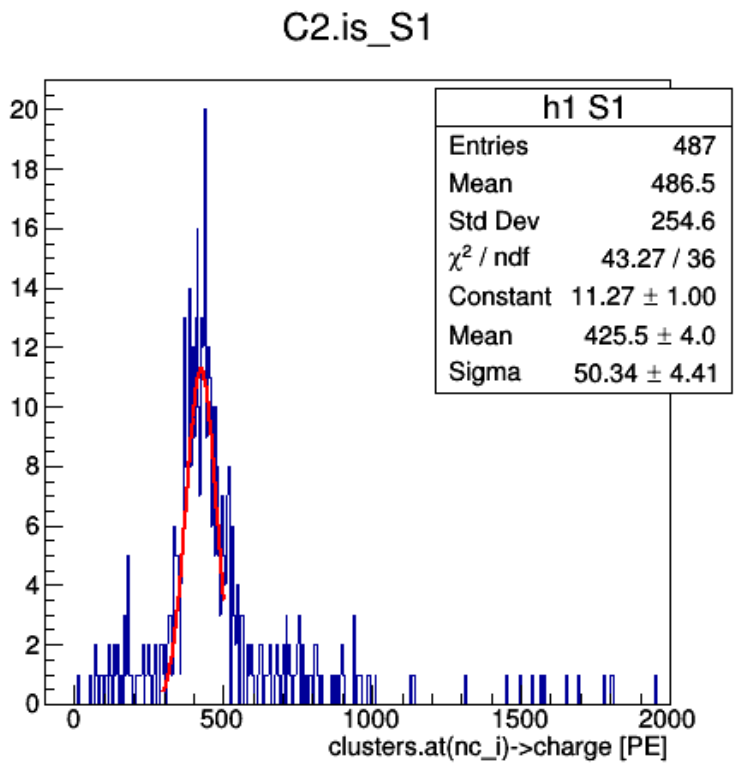
(redefinition of corners)

Ph2, Am241, run 544



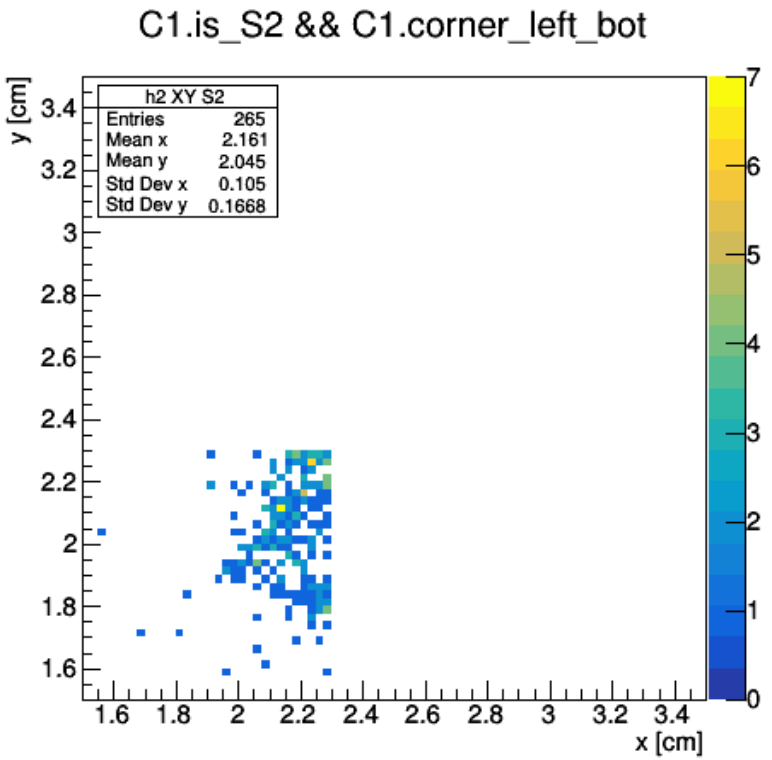


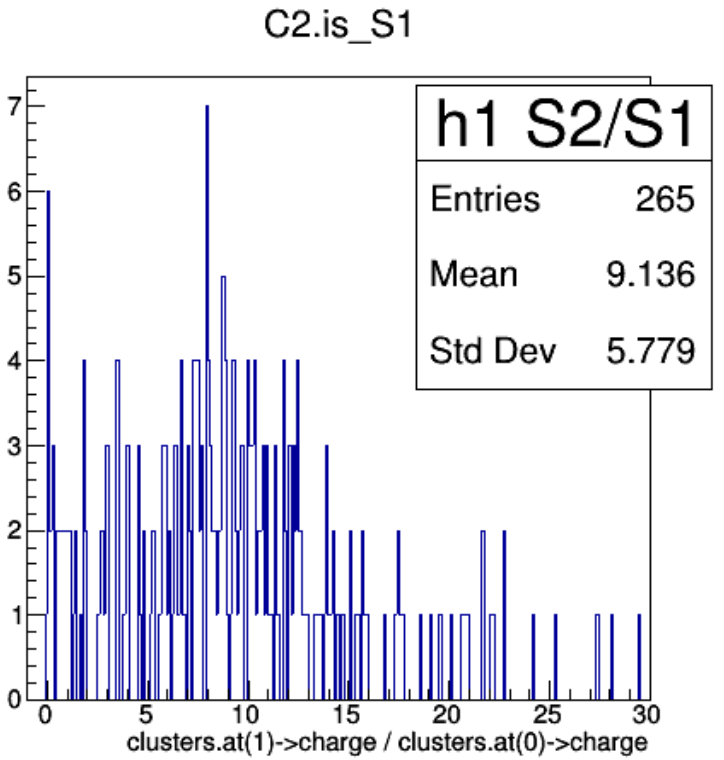


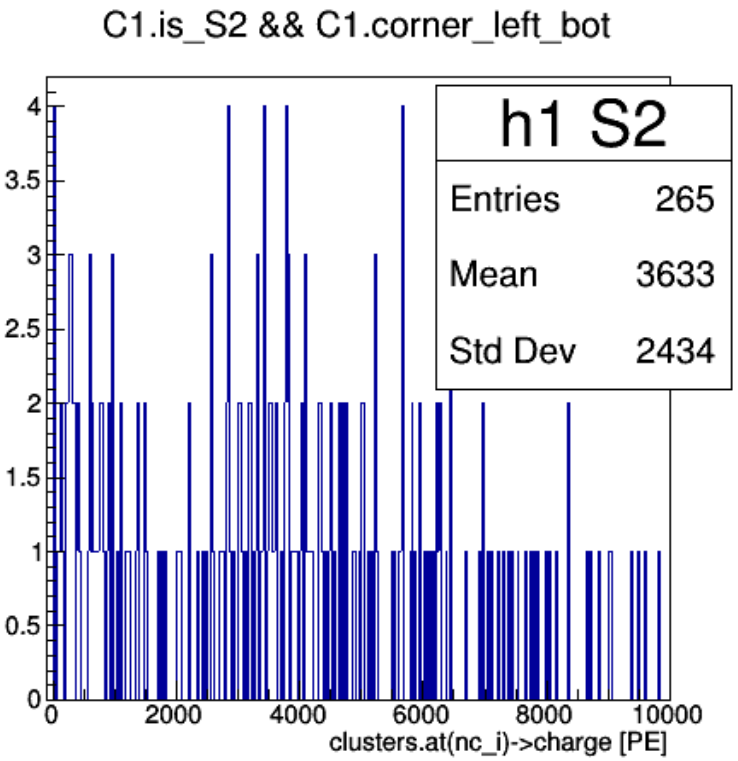


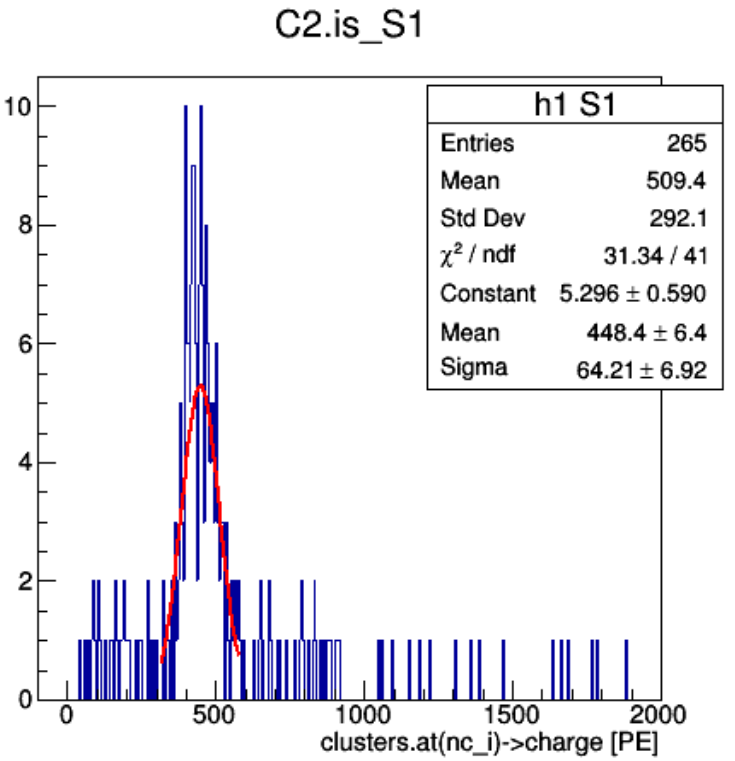
(redefinition of corners)

Ph2, Am241, run 544





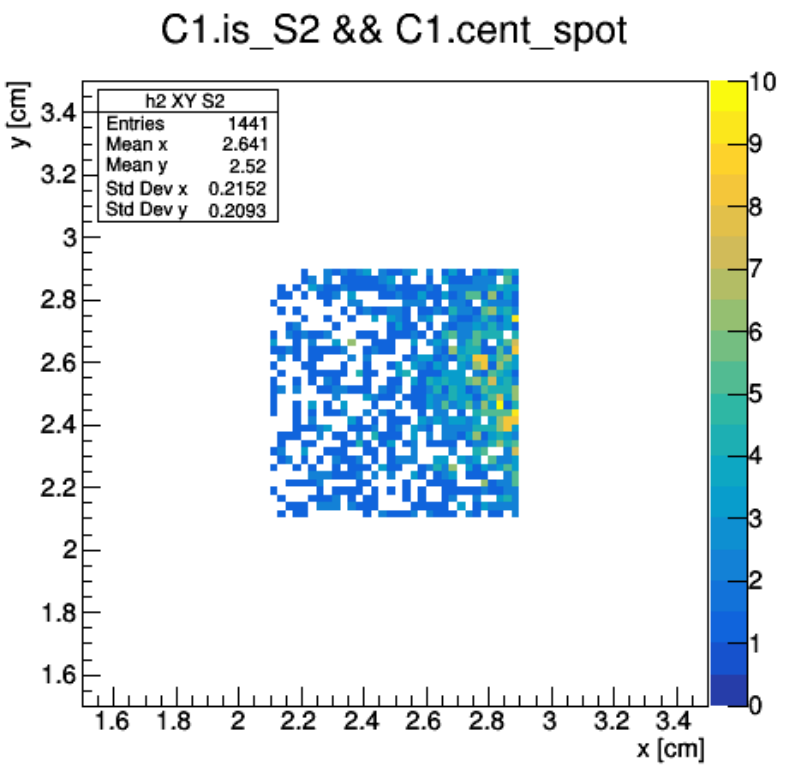


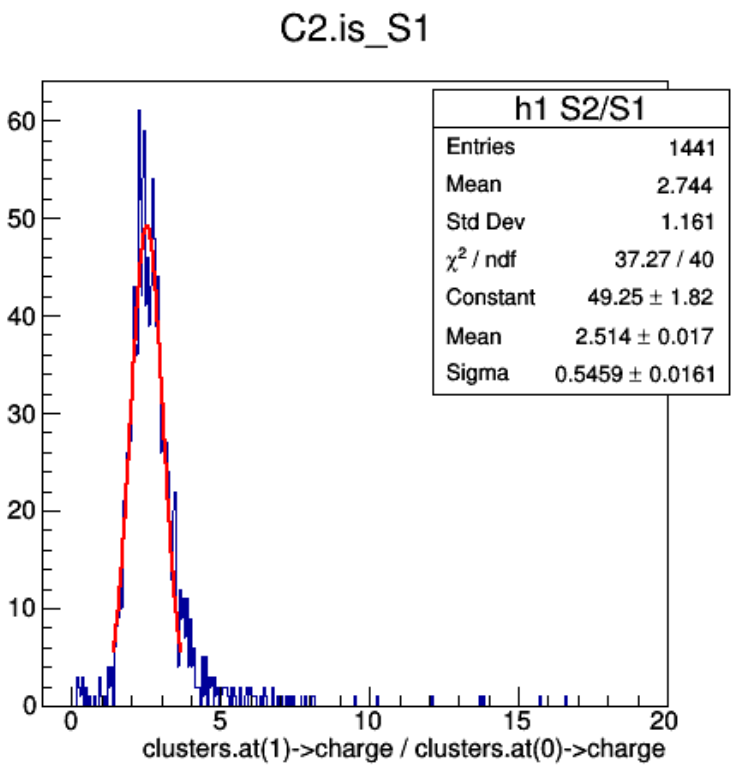


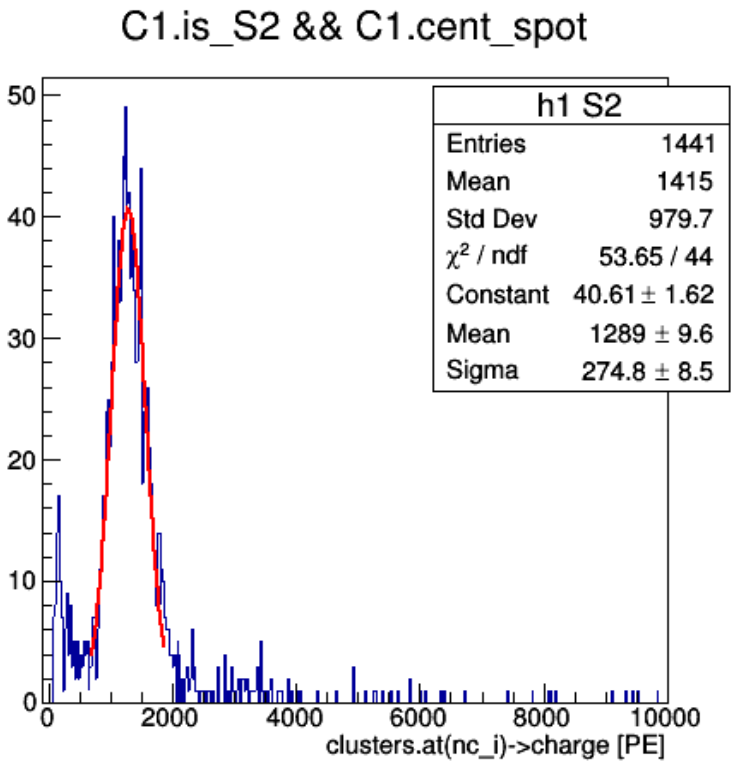
(redefinition of corners)

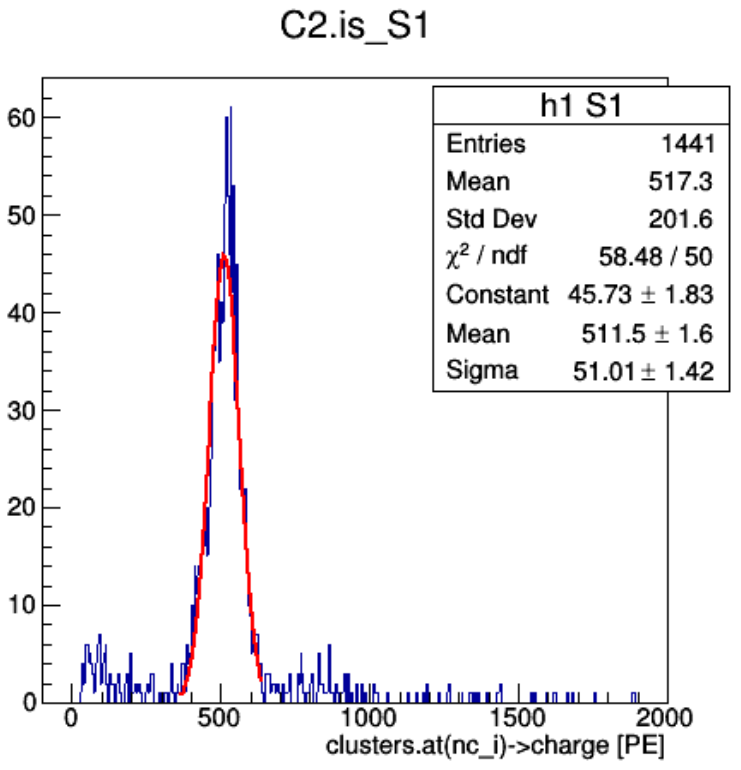
Ph2, Am241, comparison (just copies of previous slides)

Ph2, Am241, run 537

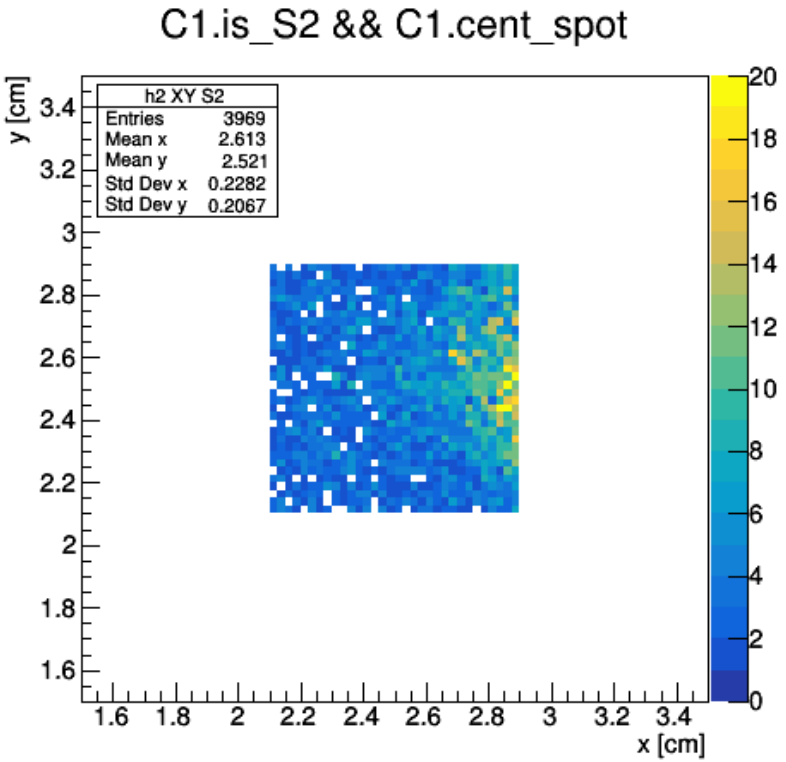


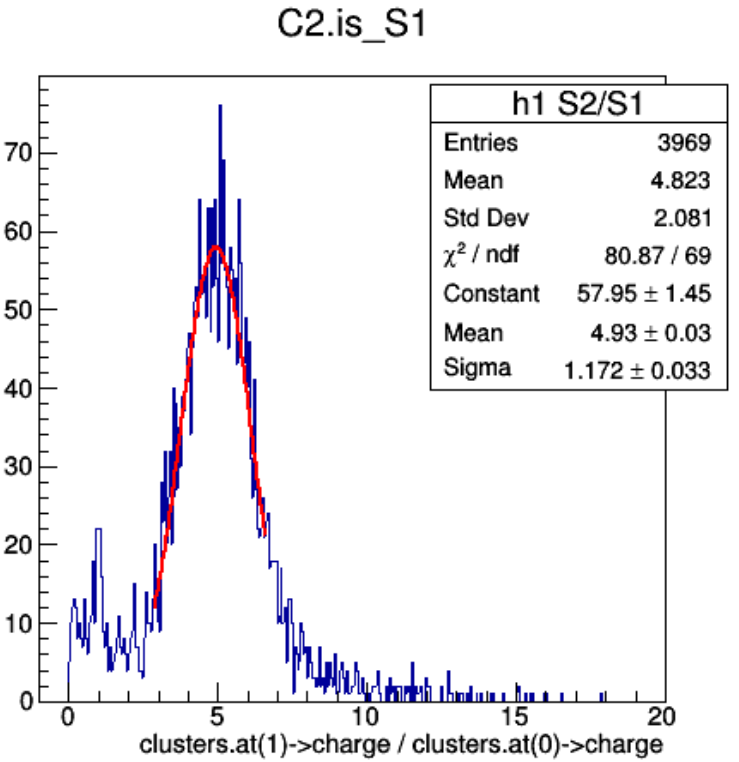


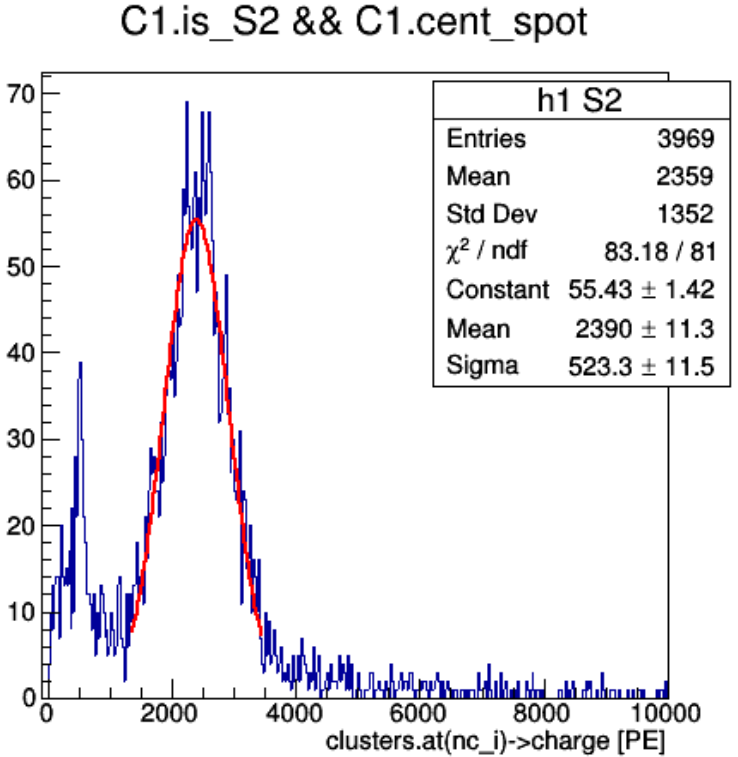


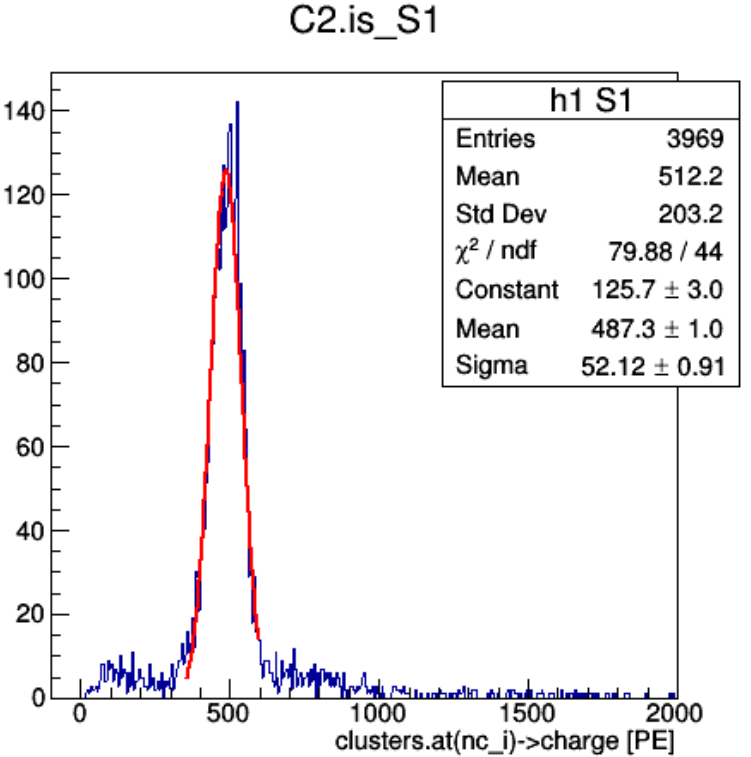


Ph2, Am241, run 542









Ph2, Am241, run 544