

# XY-reconstruction

Campaign V  
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# Algorithm:

11713f949ea5bffc2f0ceb22d1267b5f314a5af

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

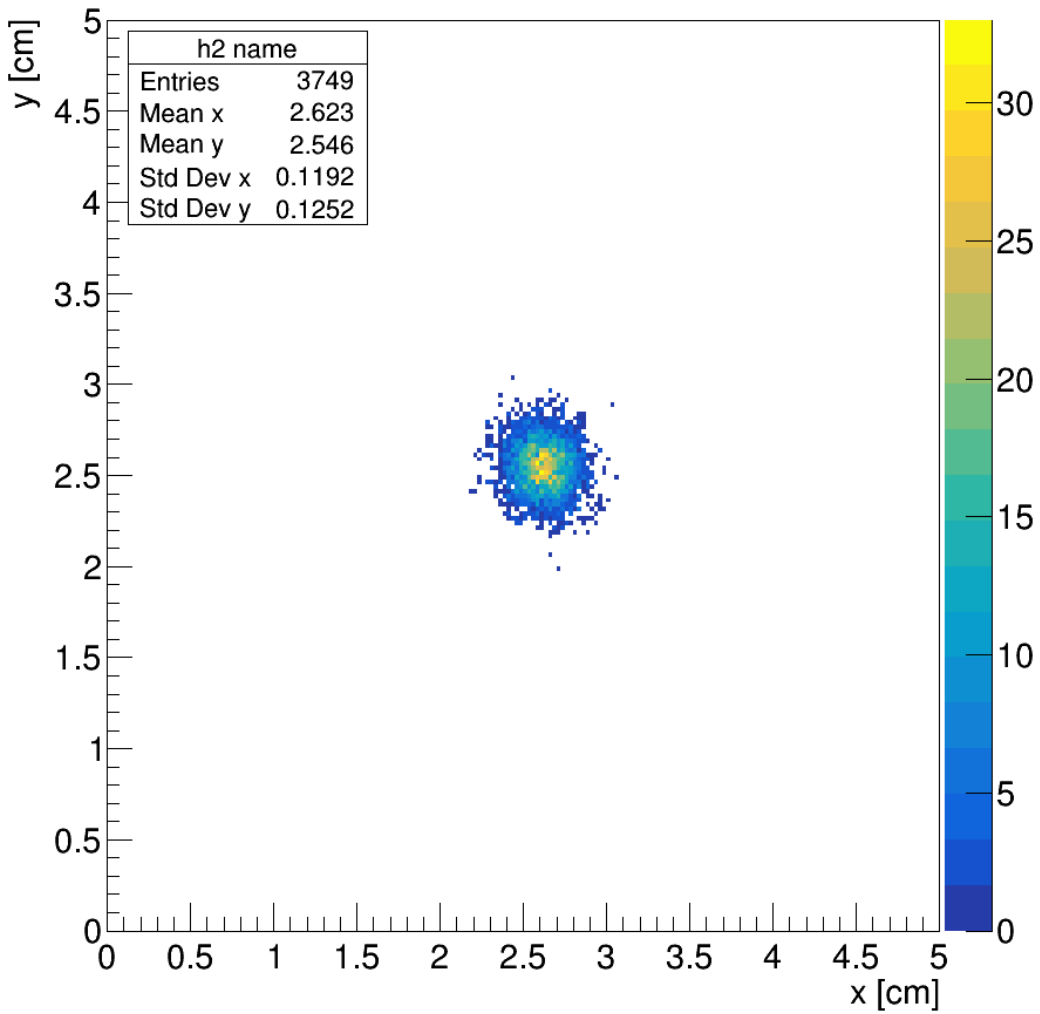
//bool S1_Am_peak = (clusters.at(0)->charge > 419) &&
(clusters.at(0)->charge < 587); // mean +- 1.5sigma using run 542

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

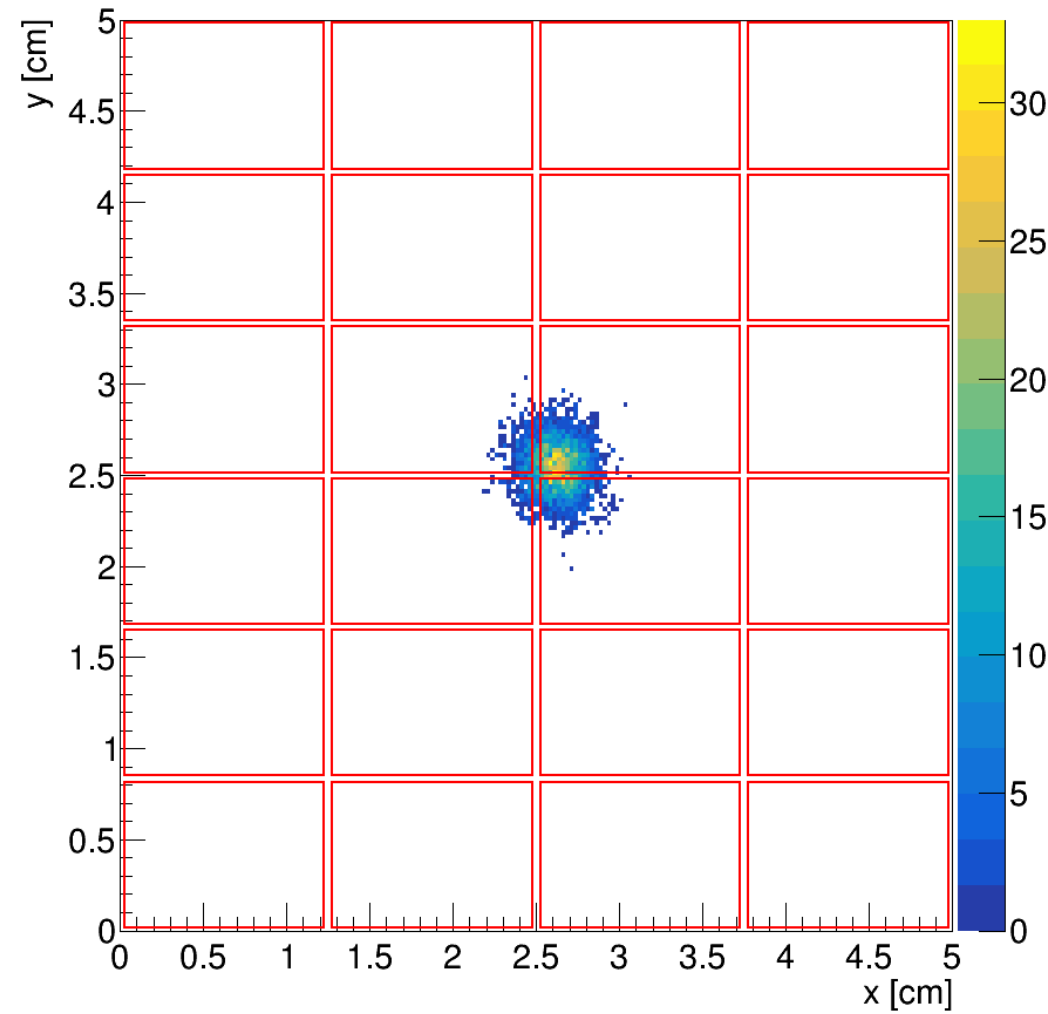
bool cls0 = nc_i == 0; //cluster 0
bool cls1 = nc_i == 1; //cluster 1
bool is_S1 = nc == 2 && cls0 && cls0_is_full && cls0_is_S1;
bool is_S2 = nc == 2 && cls1 && cls0_is_full && cls0_is_S1;
```

# Ph2, Am241, run 537

is\_S1 && S1\_Am\_peak

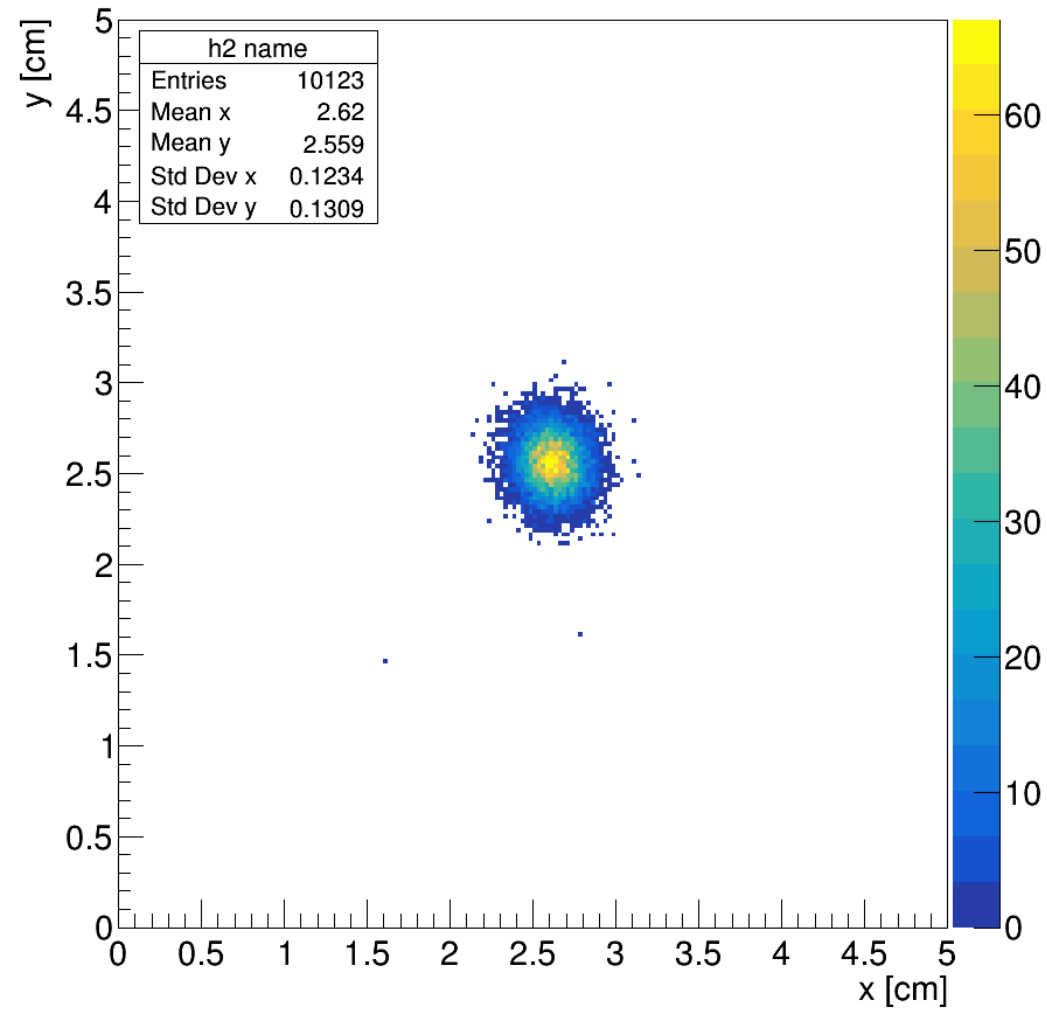


is\_S1 && S1\_Am\_peak

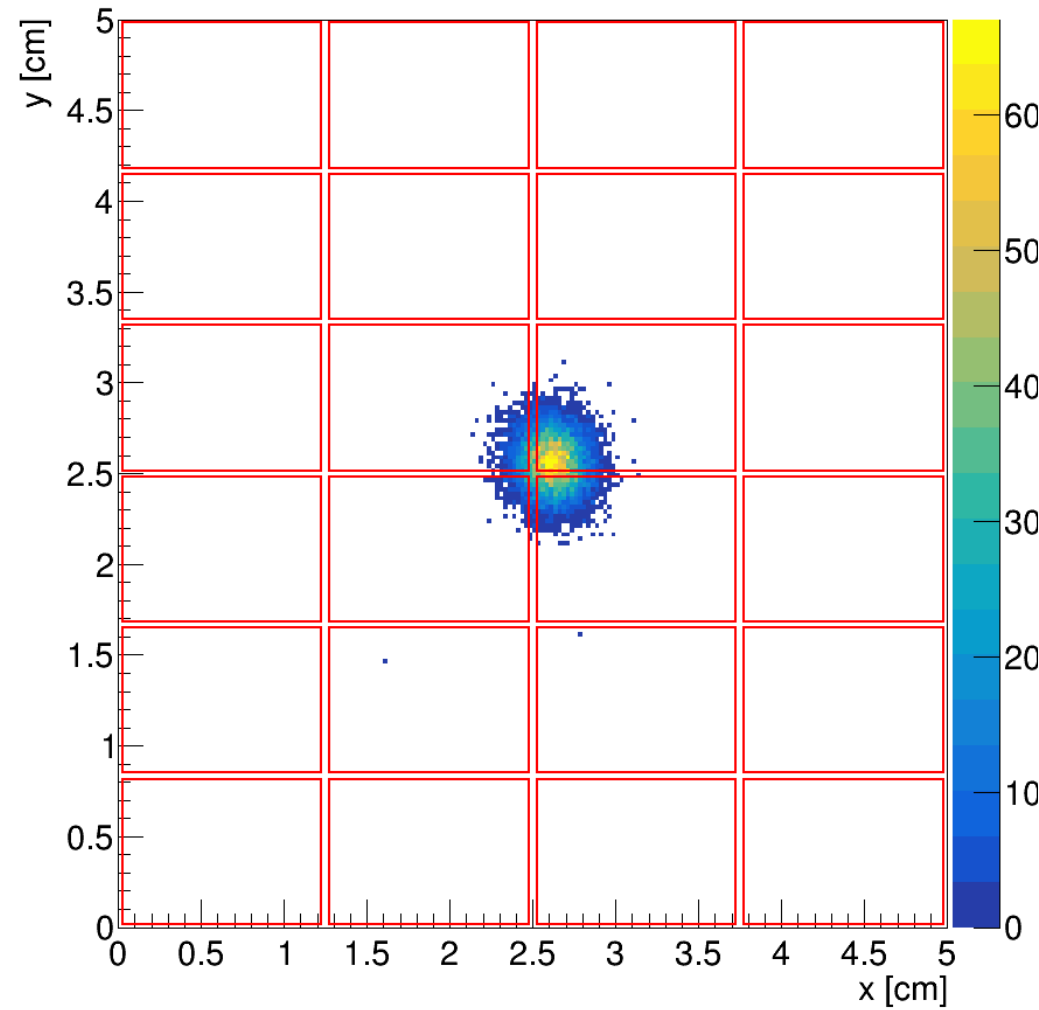


# Ph2, Am241, run 542

is\_S1 && S1\_Am\_peak

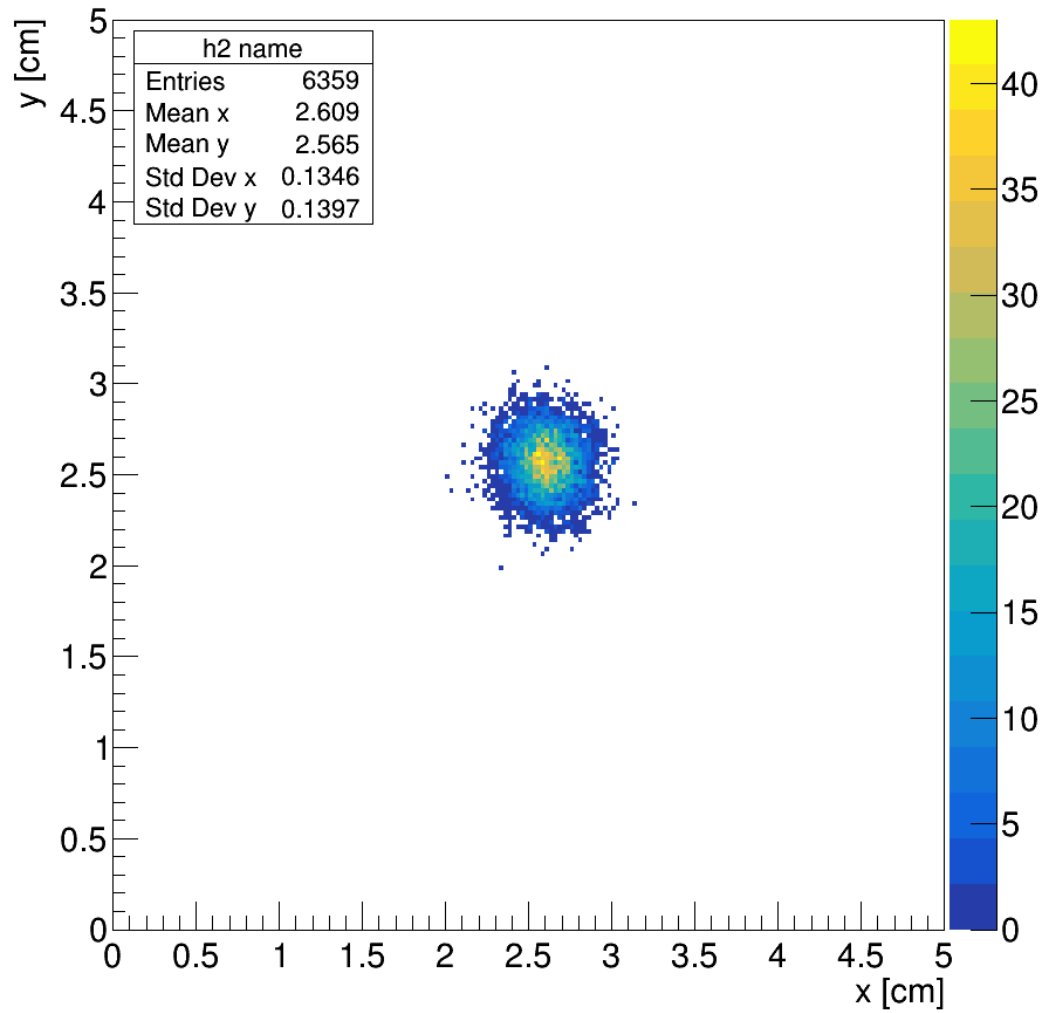


is\_S1 && S1\_Am\_peak

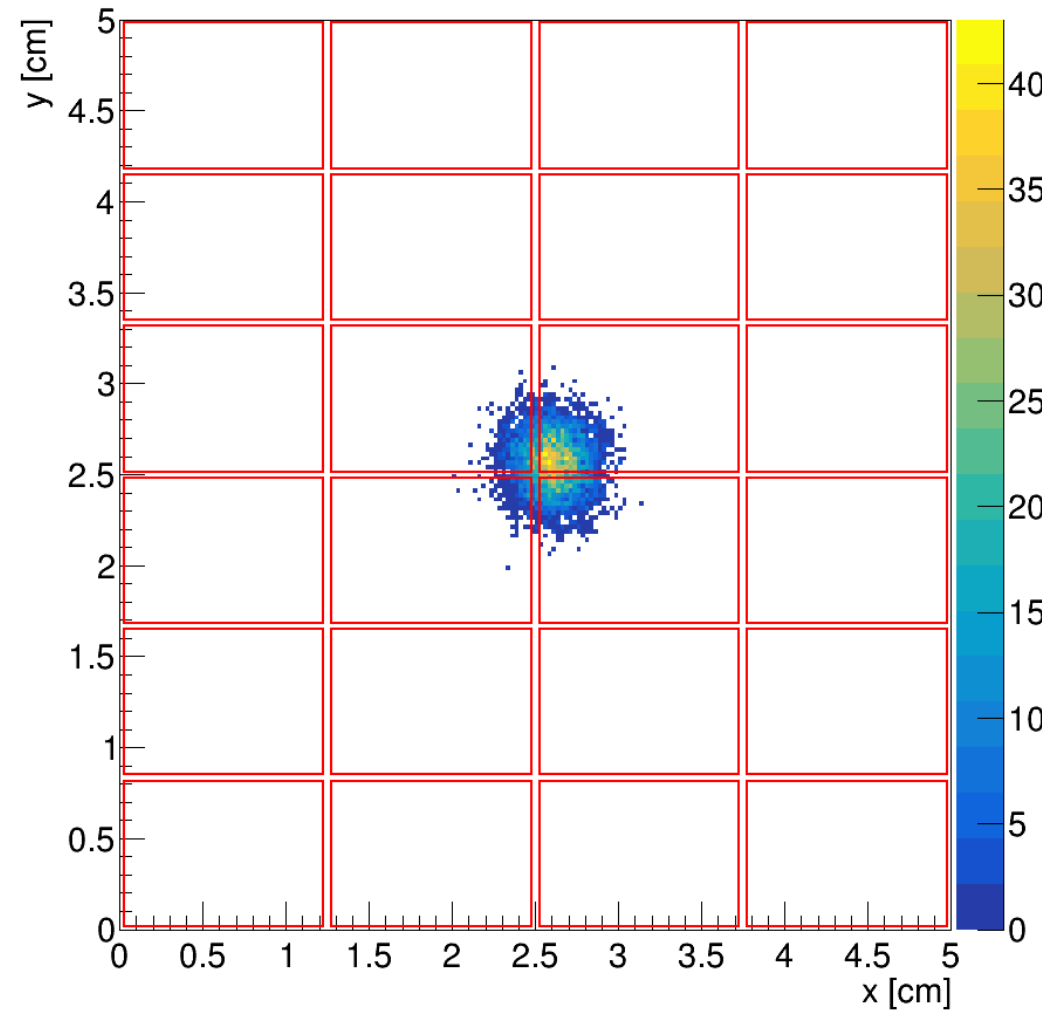


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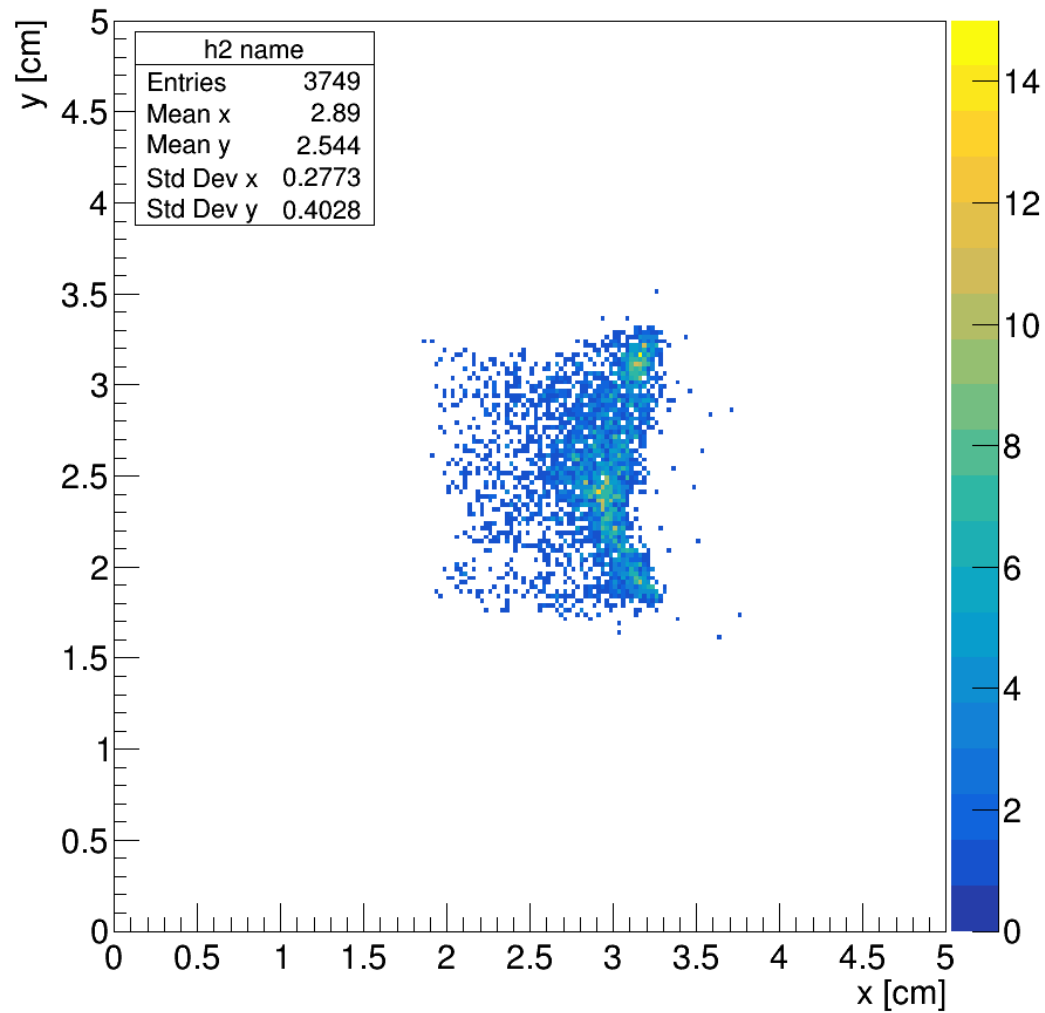


is\_S1 && S1\_Am\_peak

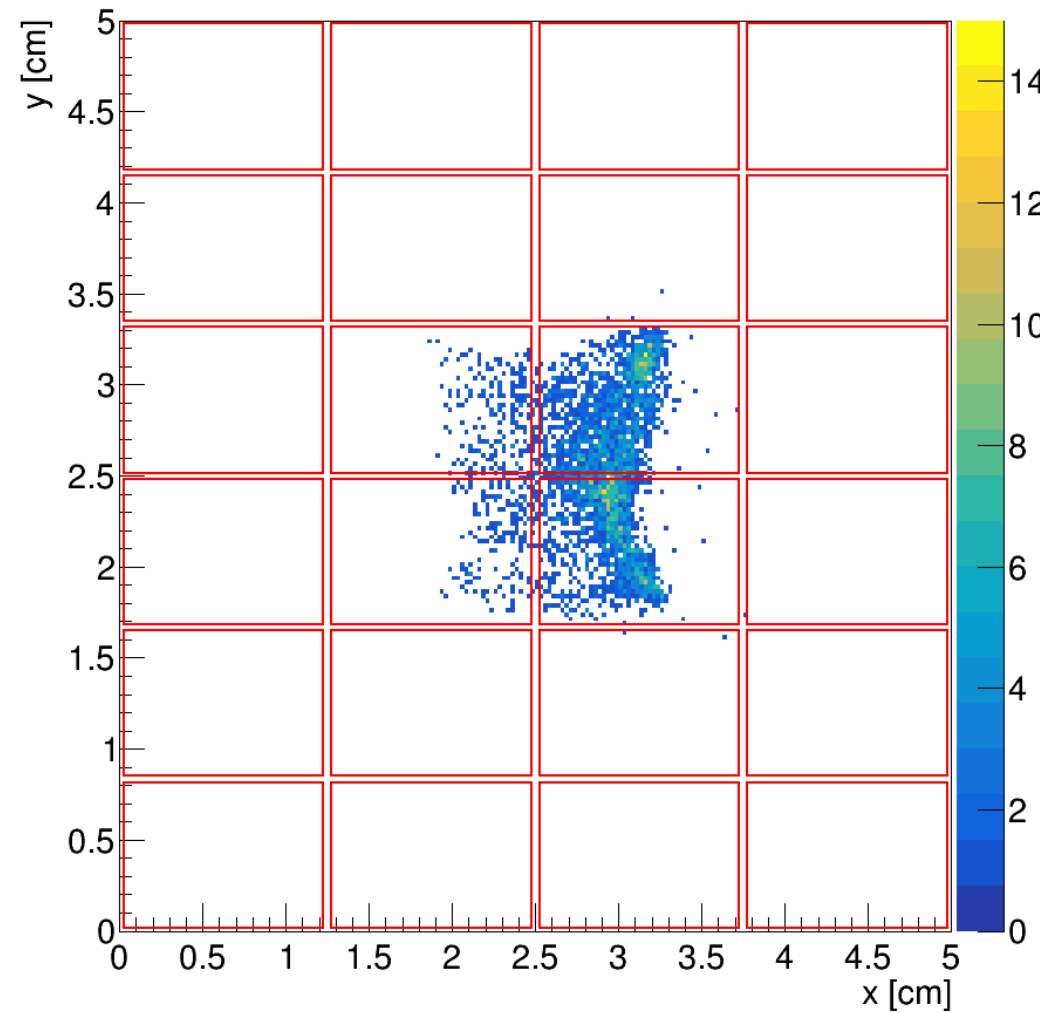


# Ph2, Am241, run 537

is\_S2 && S1\_Am\_peak

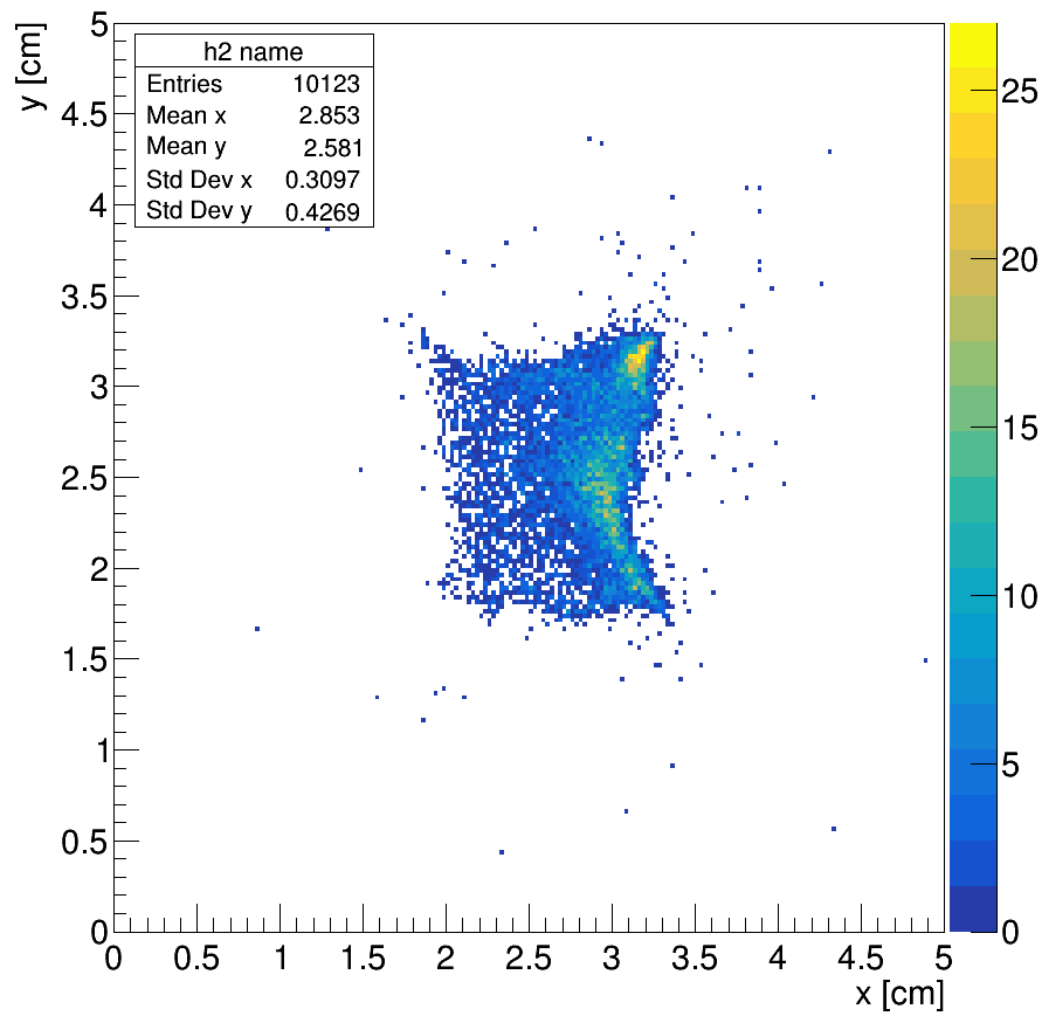


is\_S2 && S1\_Am\_peak

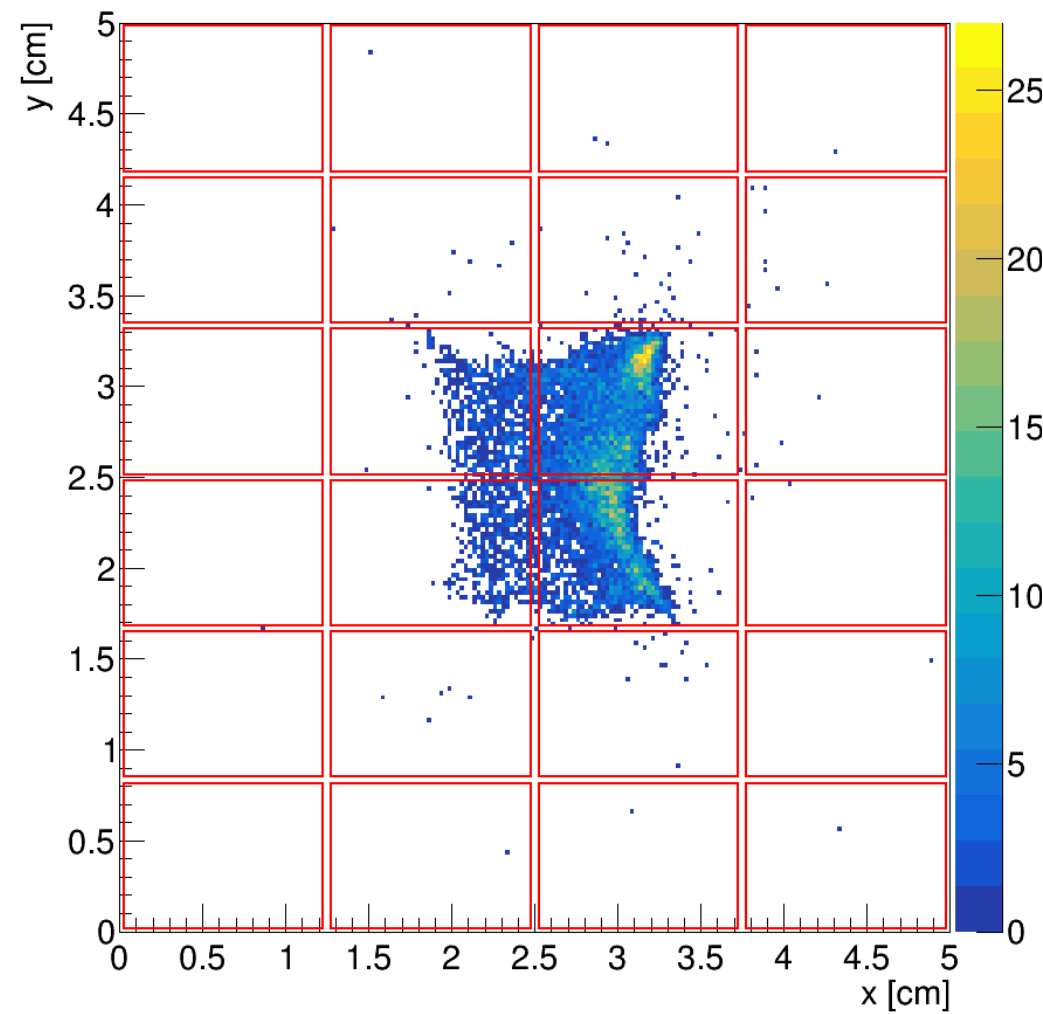


# Ph2, Am241, run 542

is\_S2 && S1\_Am\_peak



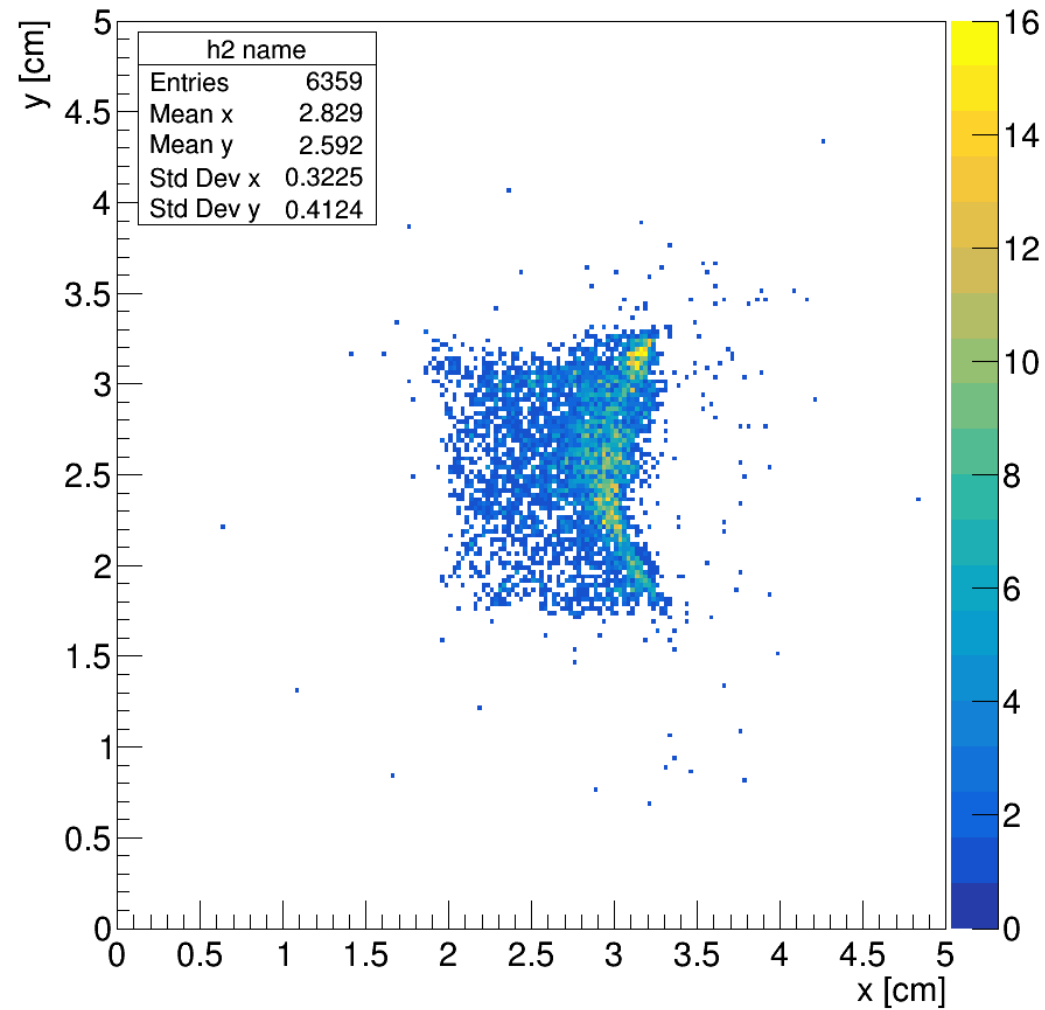
is\_S2 && S1\_Am\_peak



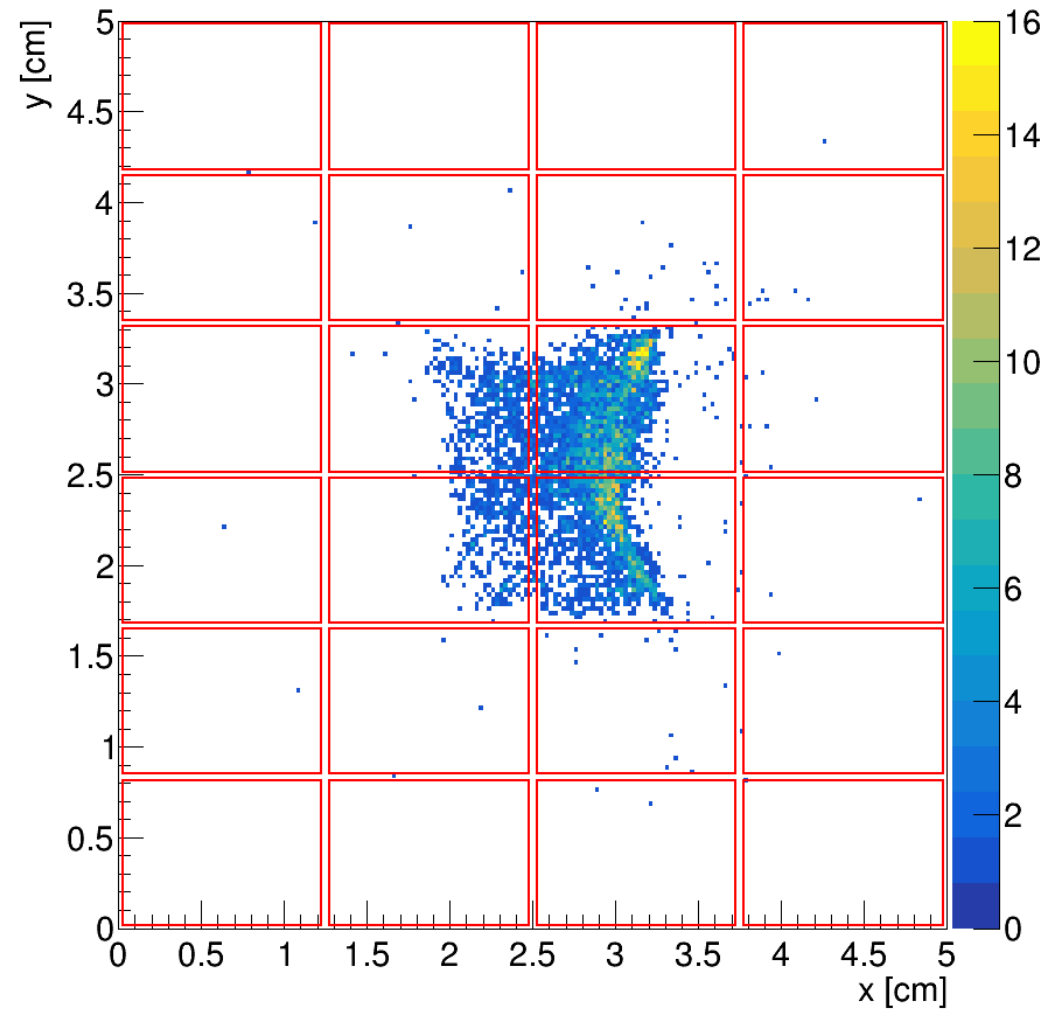


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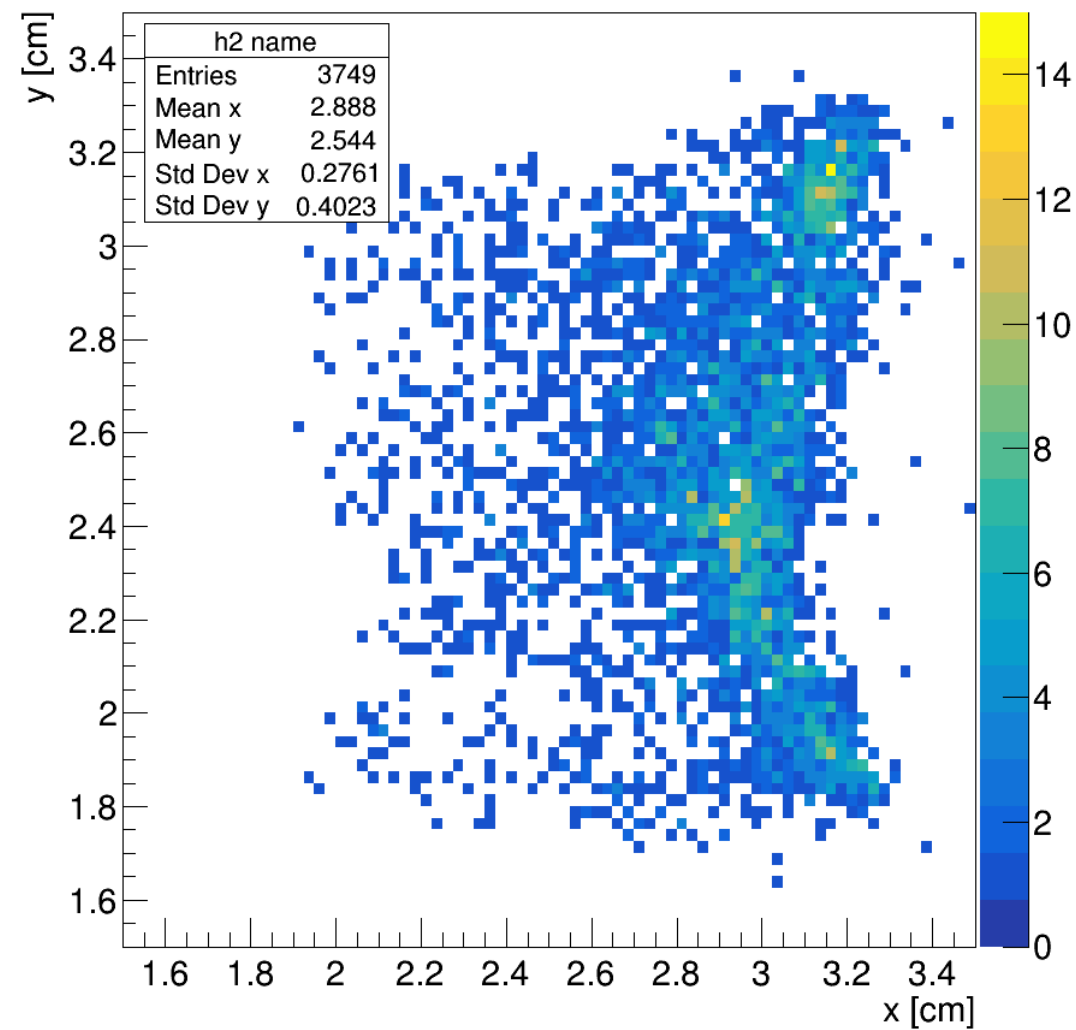
is\_S2 && S1\_Am\_peak



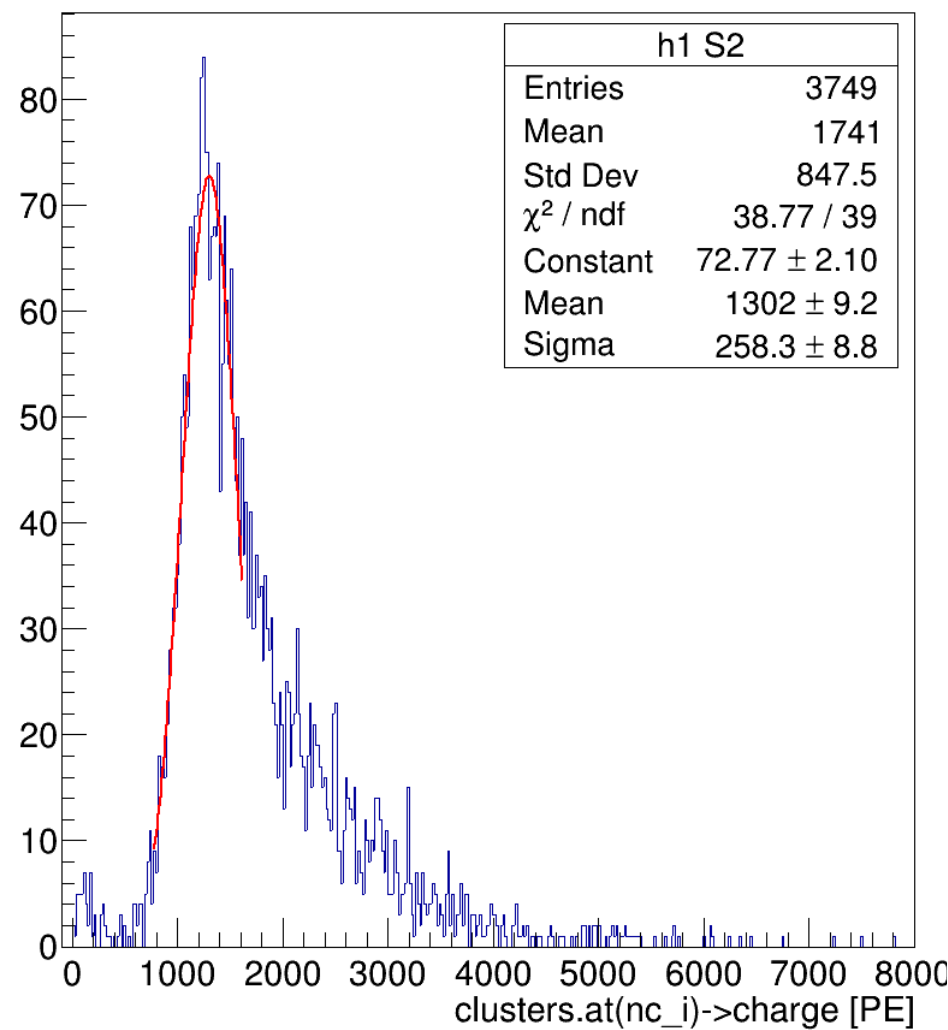


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is\_S2 && S1\_Am\_peak

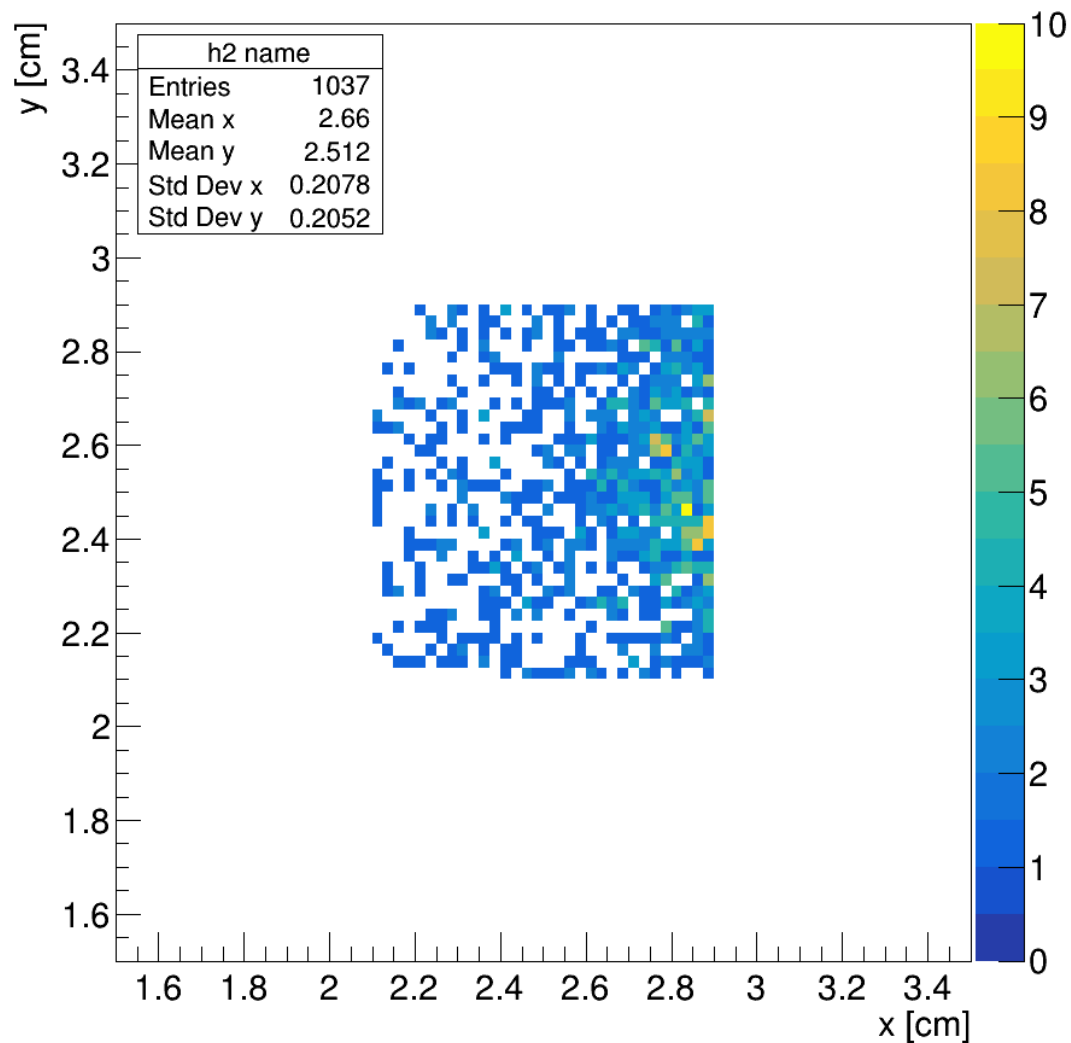


is\_S2 && S1\_Am\_peak

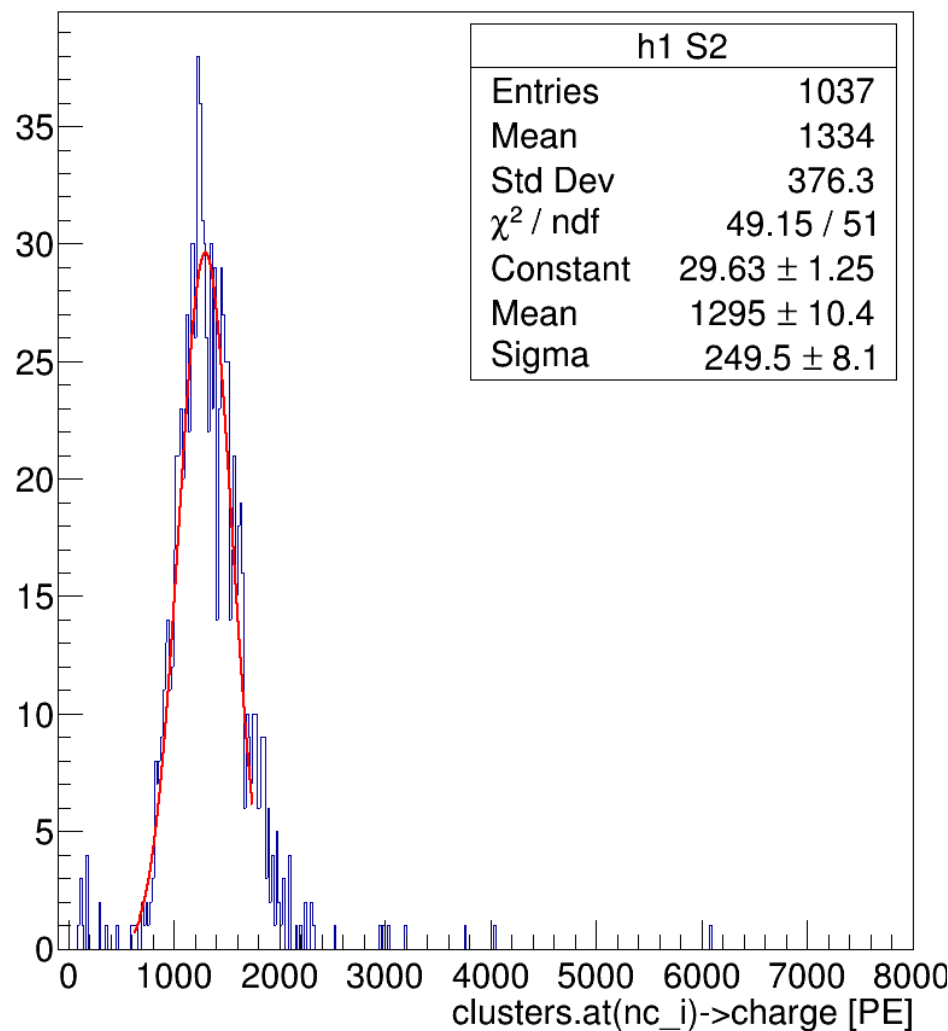


# Ph2, Am241, run 537

is\_S2 && S1\_Am\_peak && cent\_spot

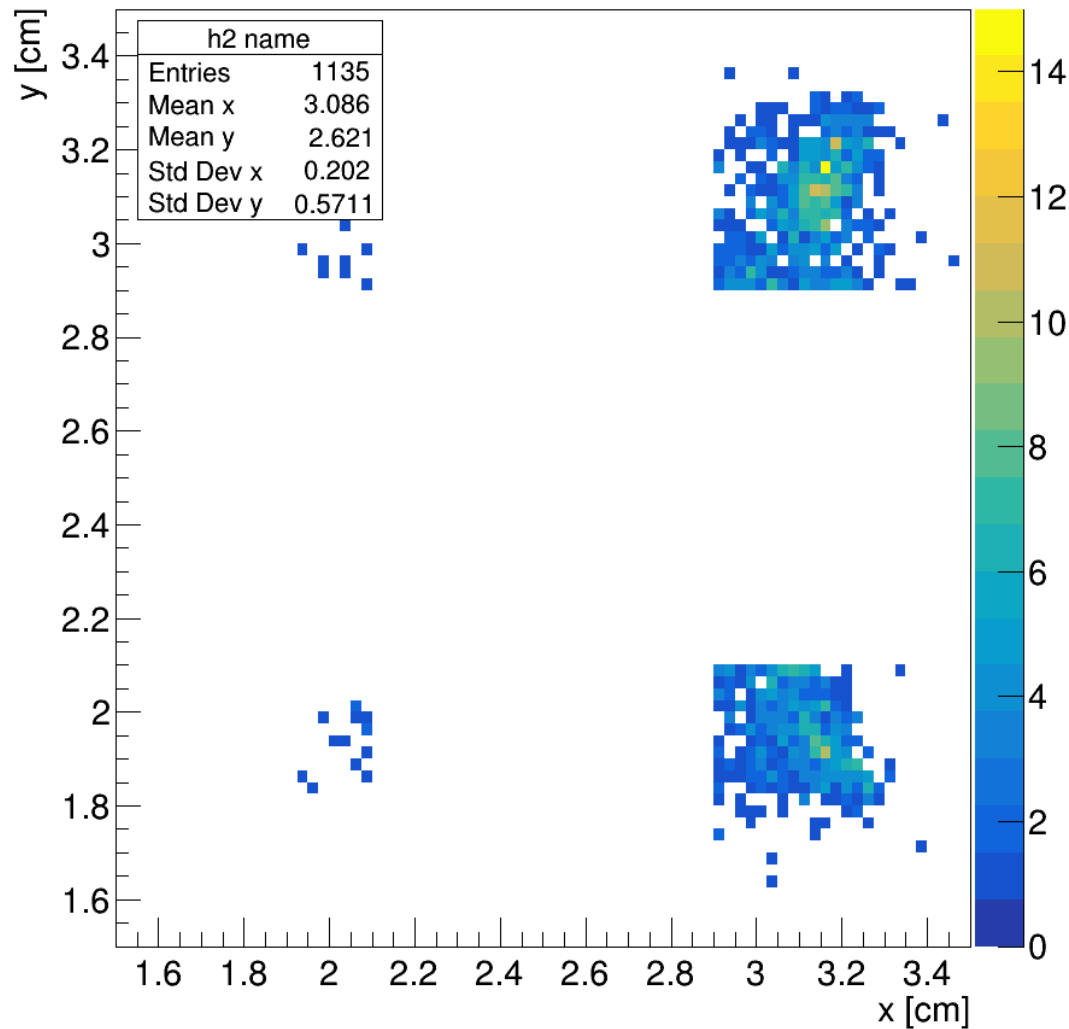


is\_S2 && S1\_Am\_peak && cent\_spot

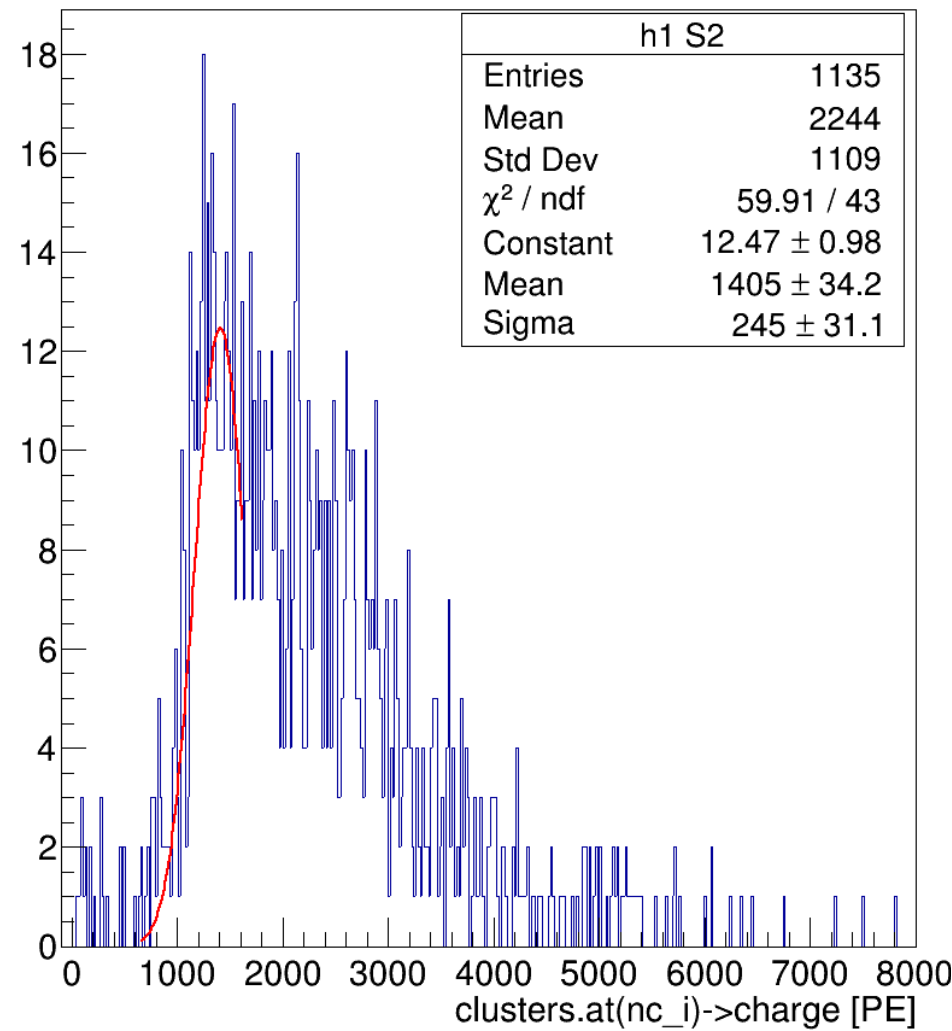


# Ph2, Am241, run 537

is\_S2 && S1\_Am\_peak && corners

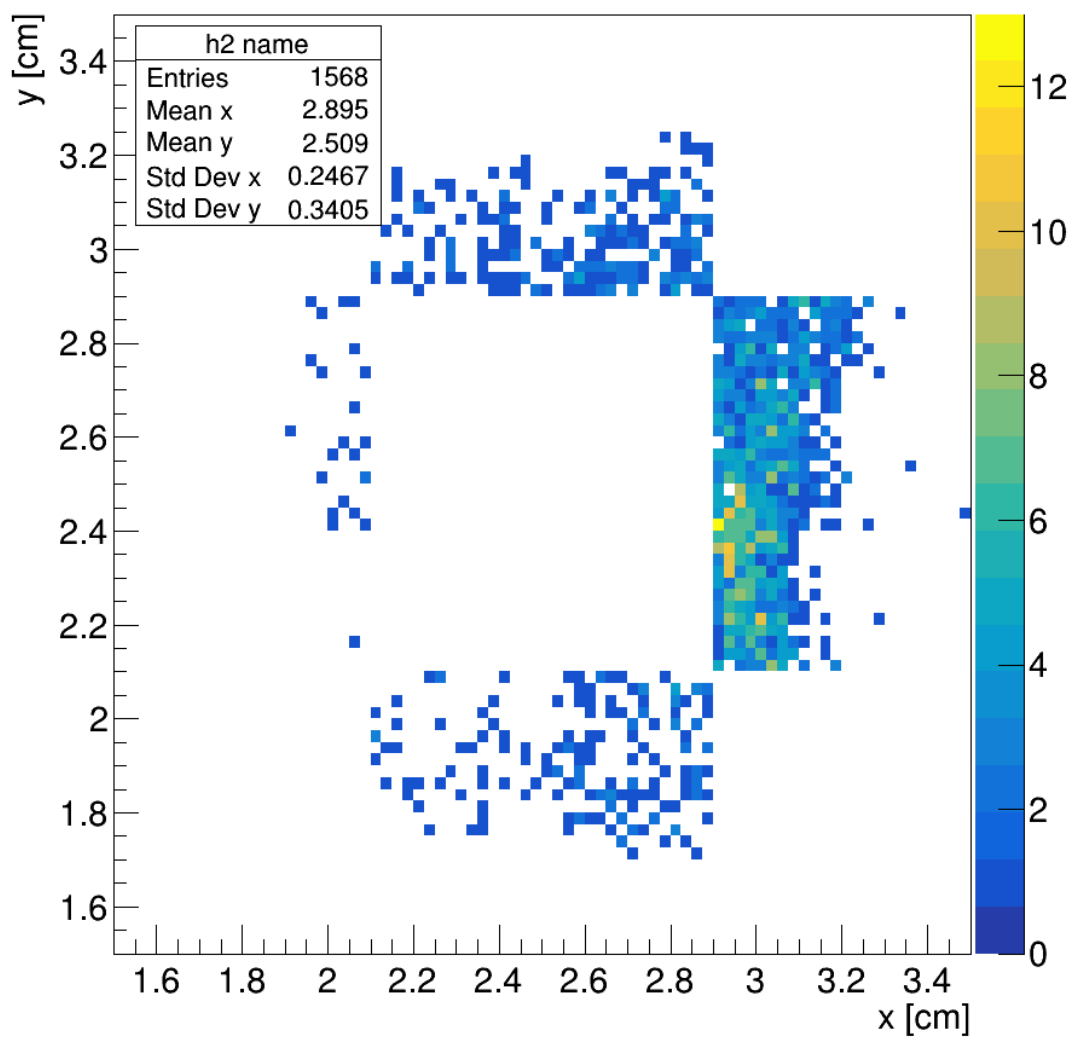


is\_S2 && S1\_Am\_peak && corners

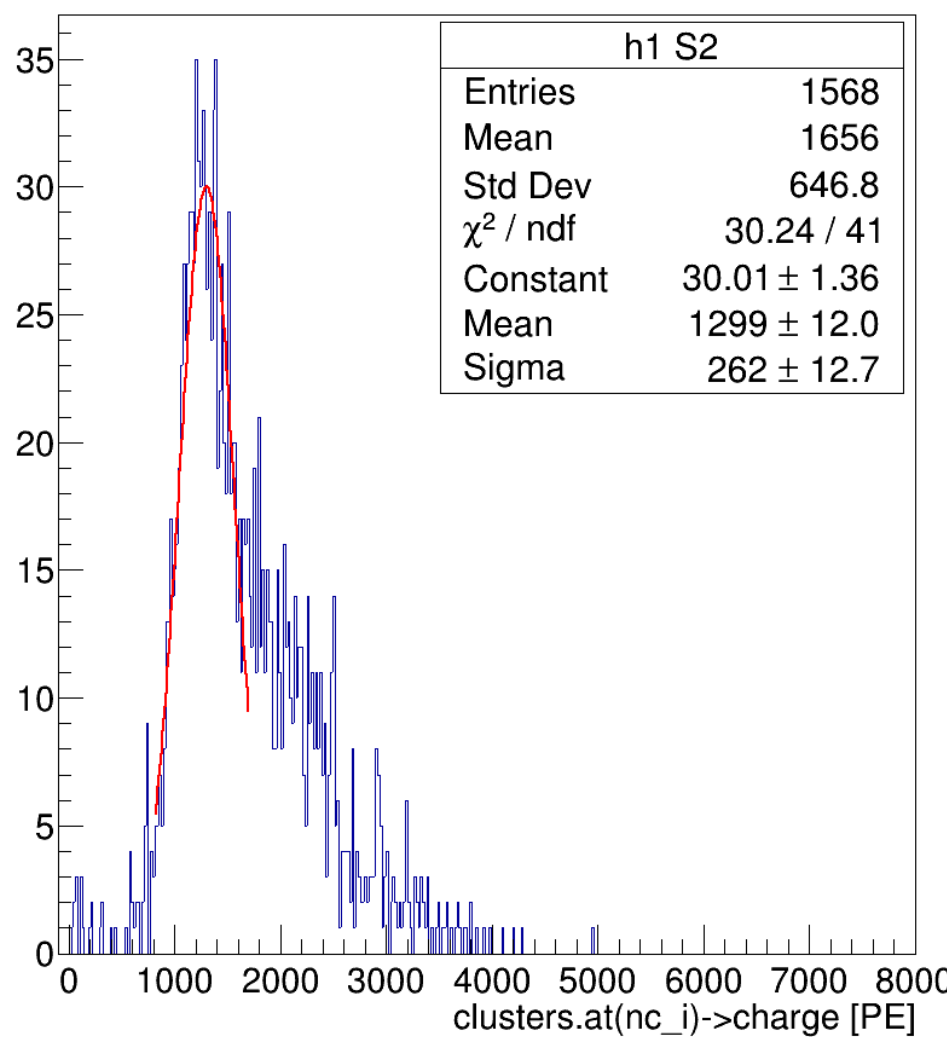


# Ph2, Am241, run 537

is\_S2 && S1\_Am\_peak && edges



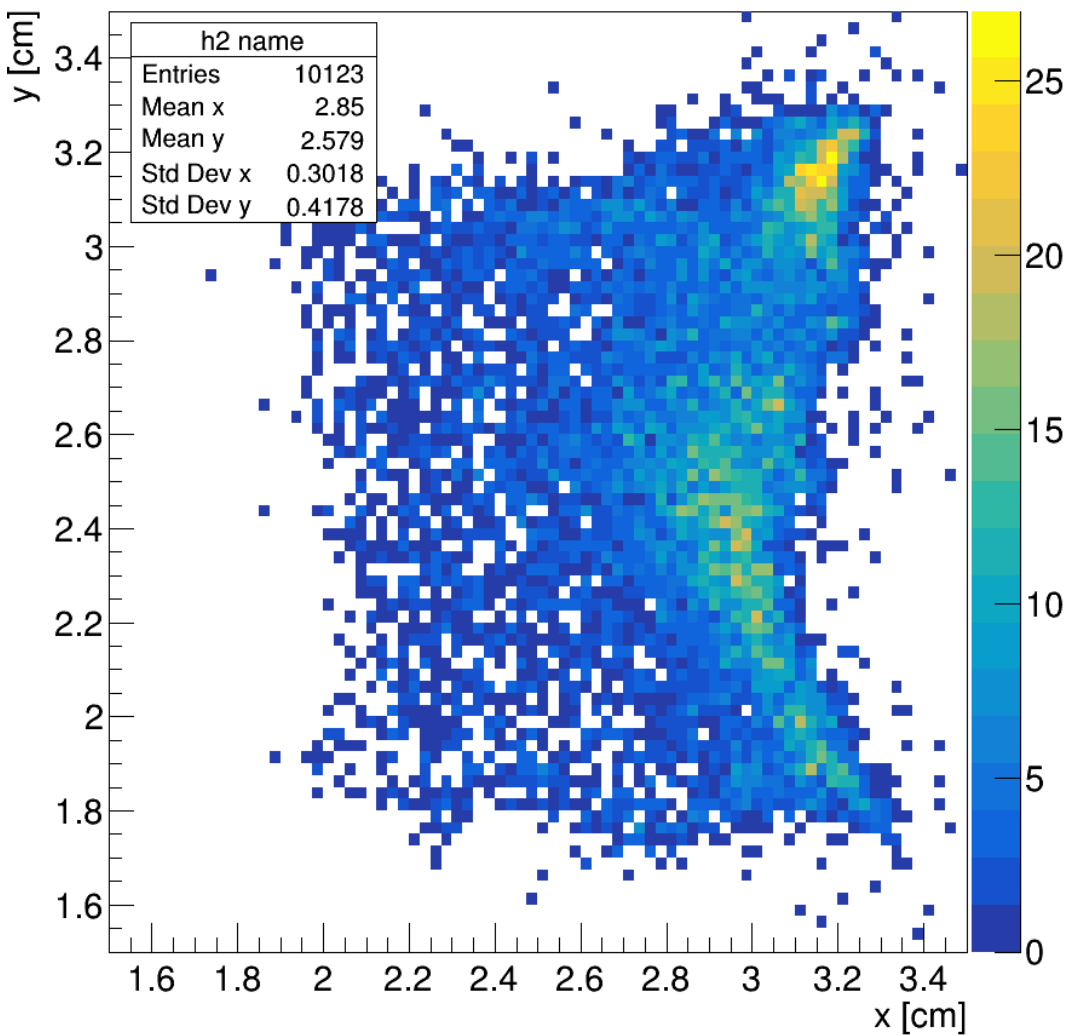
is\_S2 && S1\_Am\_peak && edges



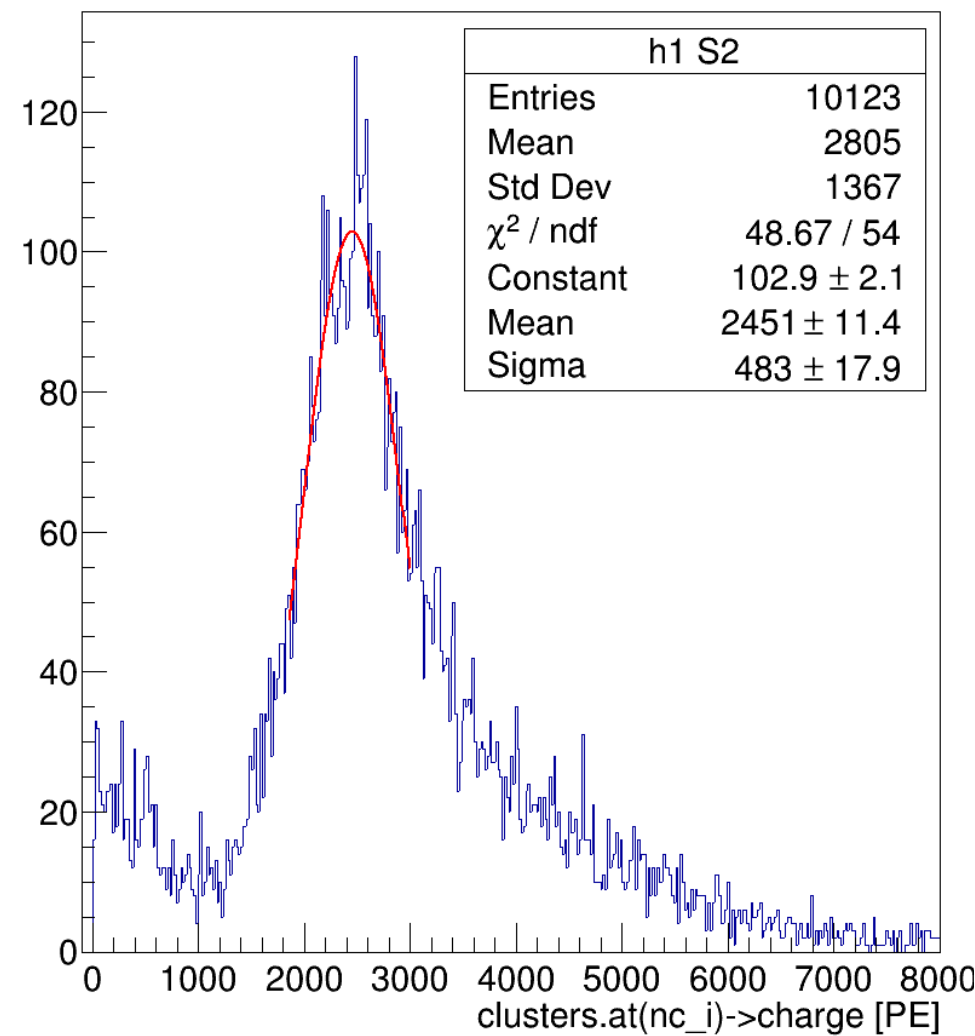


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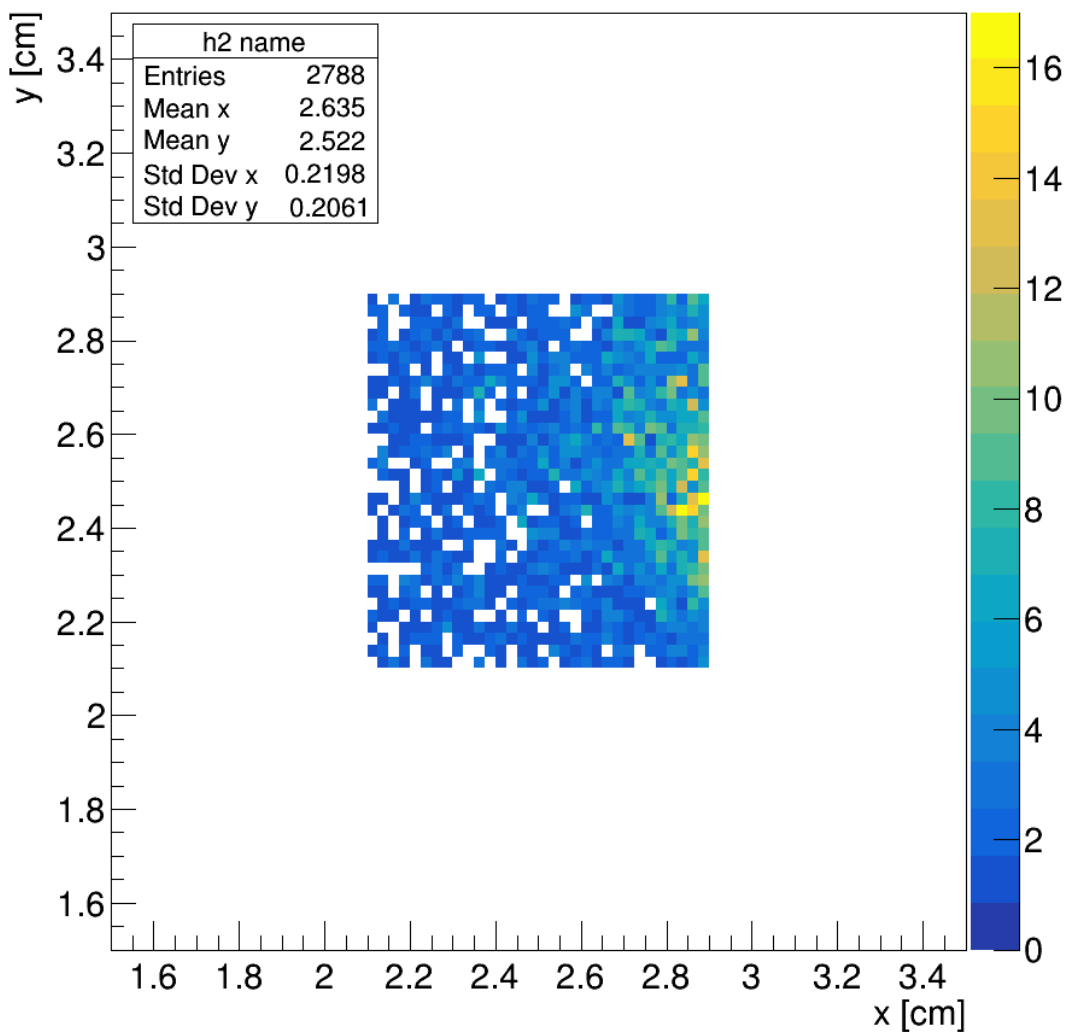
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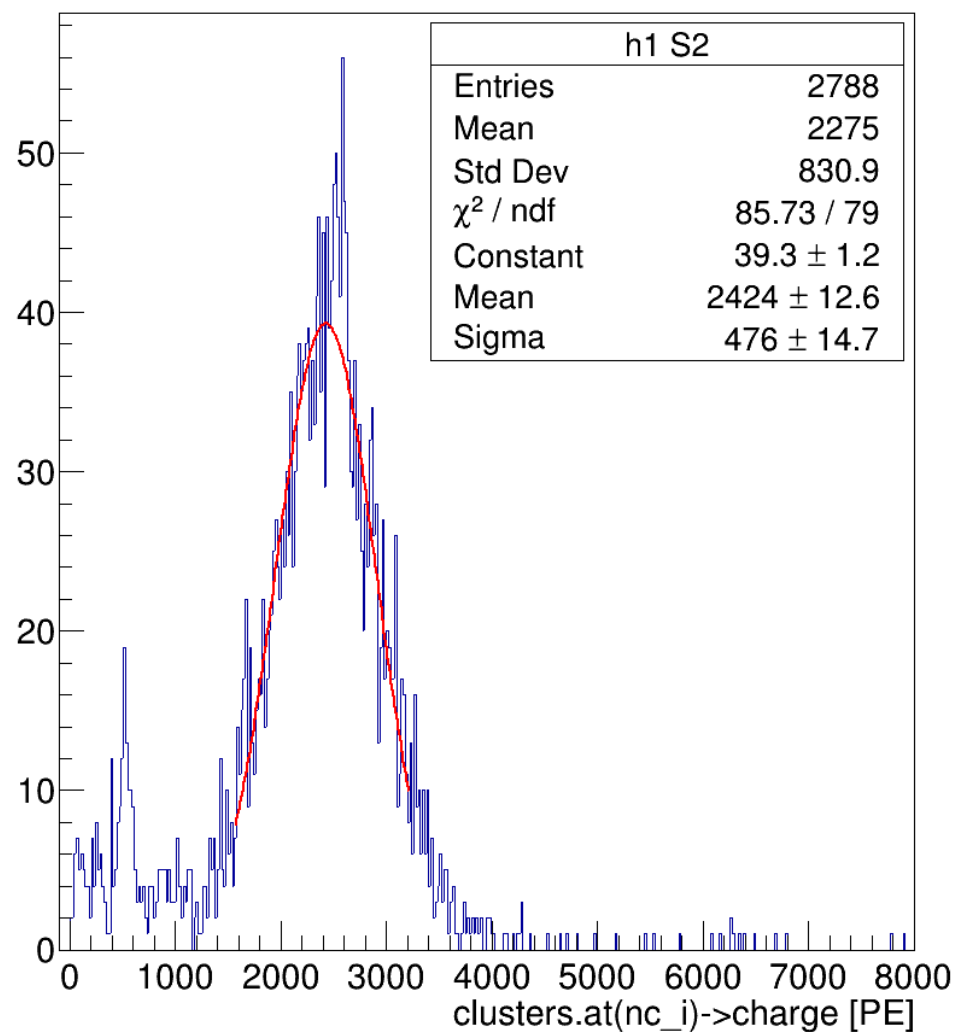


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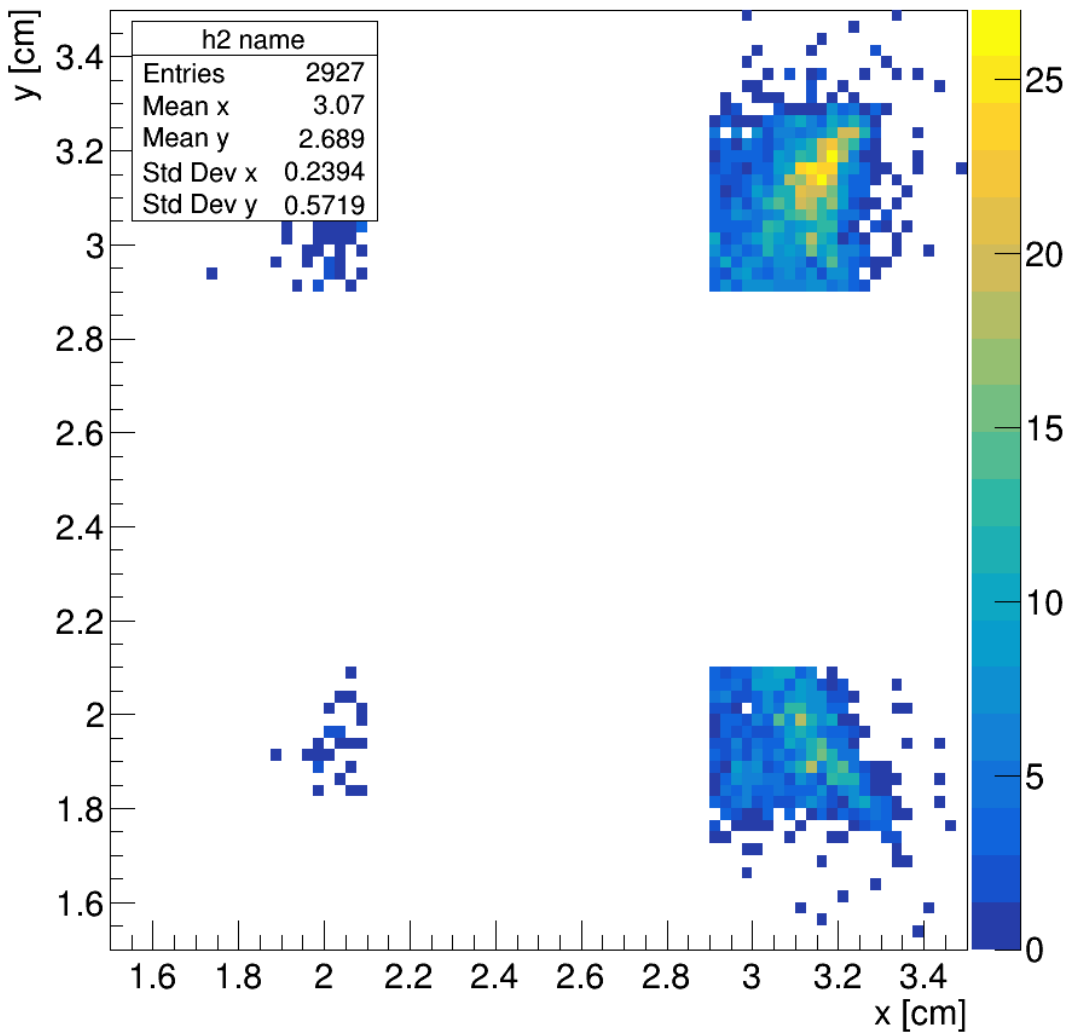


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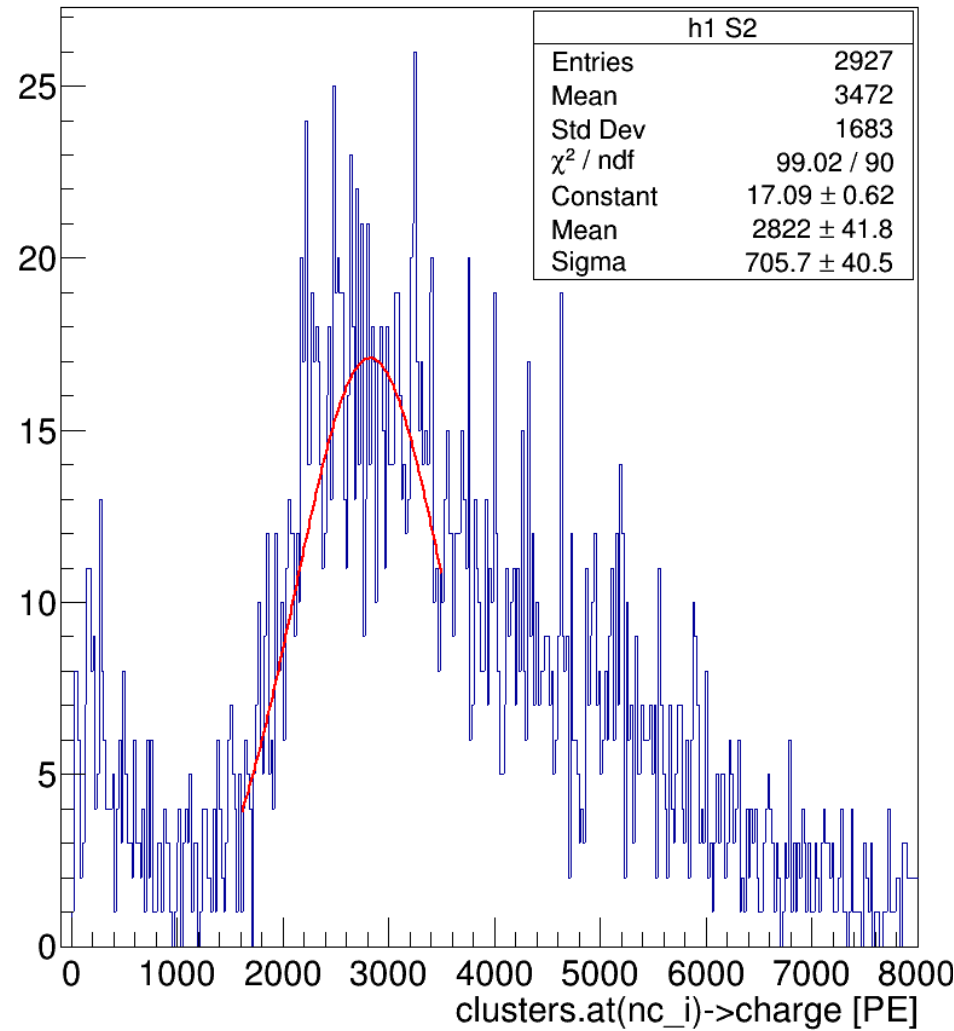


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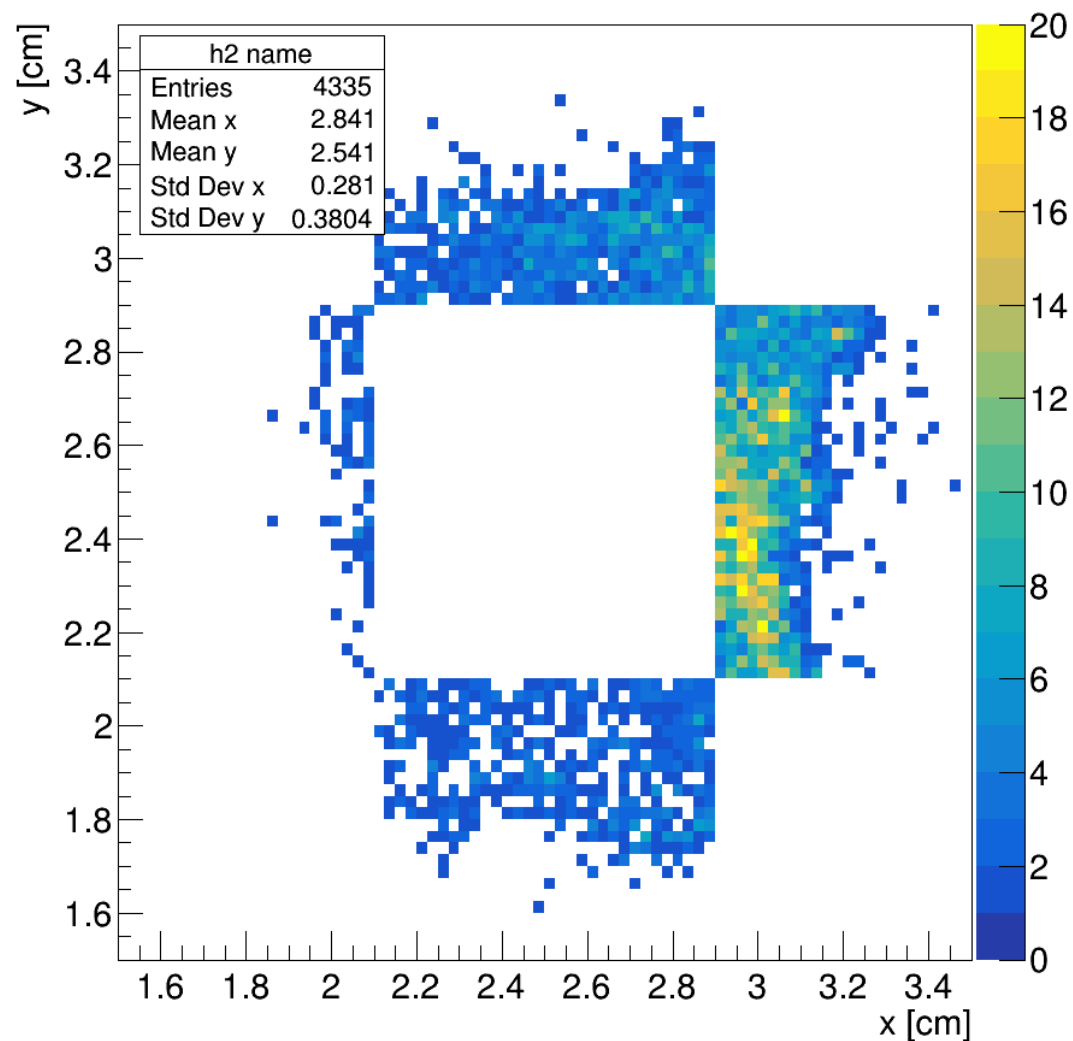


is\_S2 && S1\_Am\_peak && corners

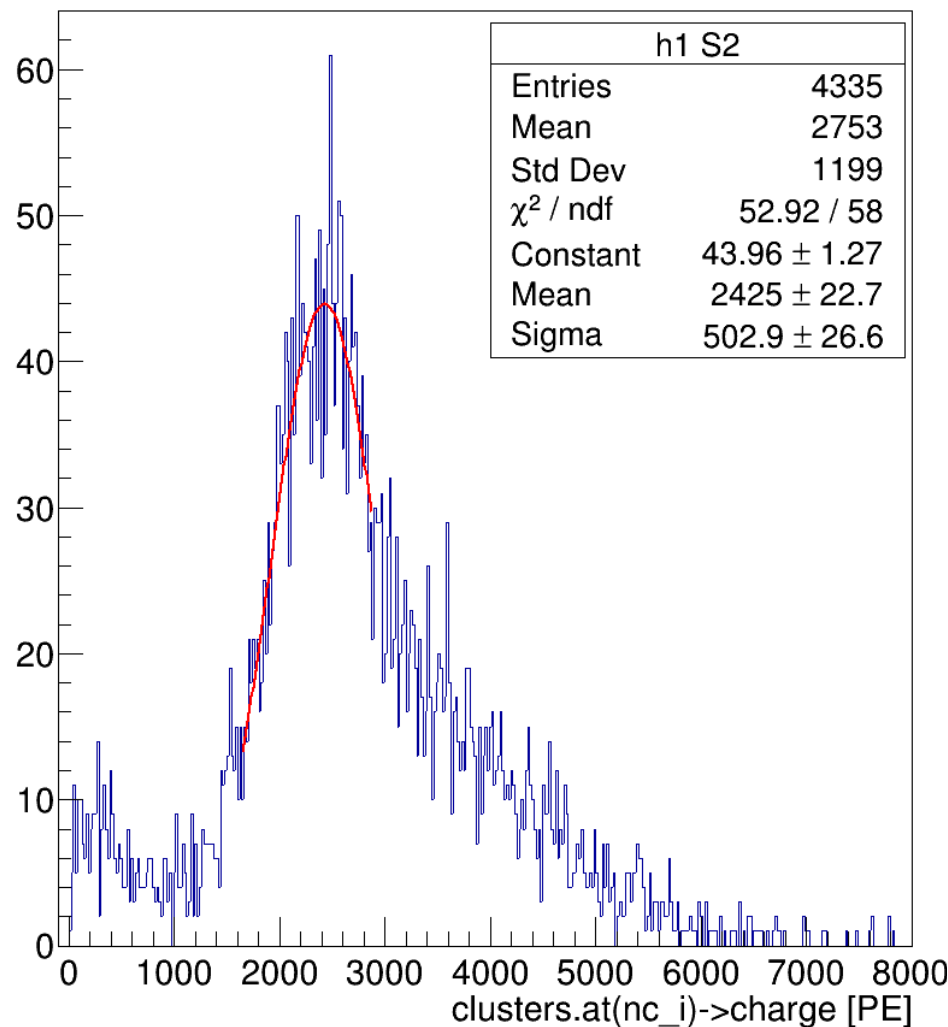


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is\_S2 && S1\_Am\_peak && edges



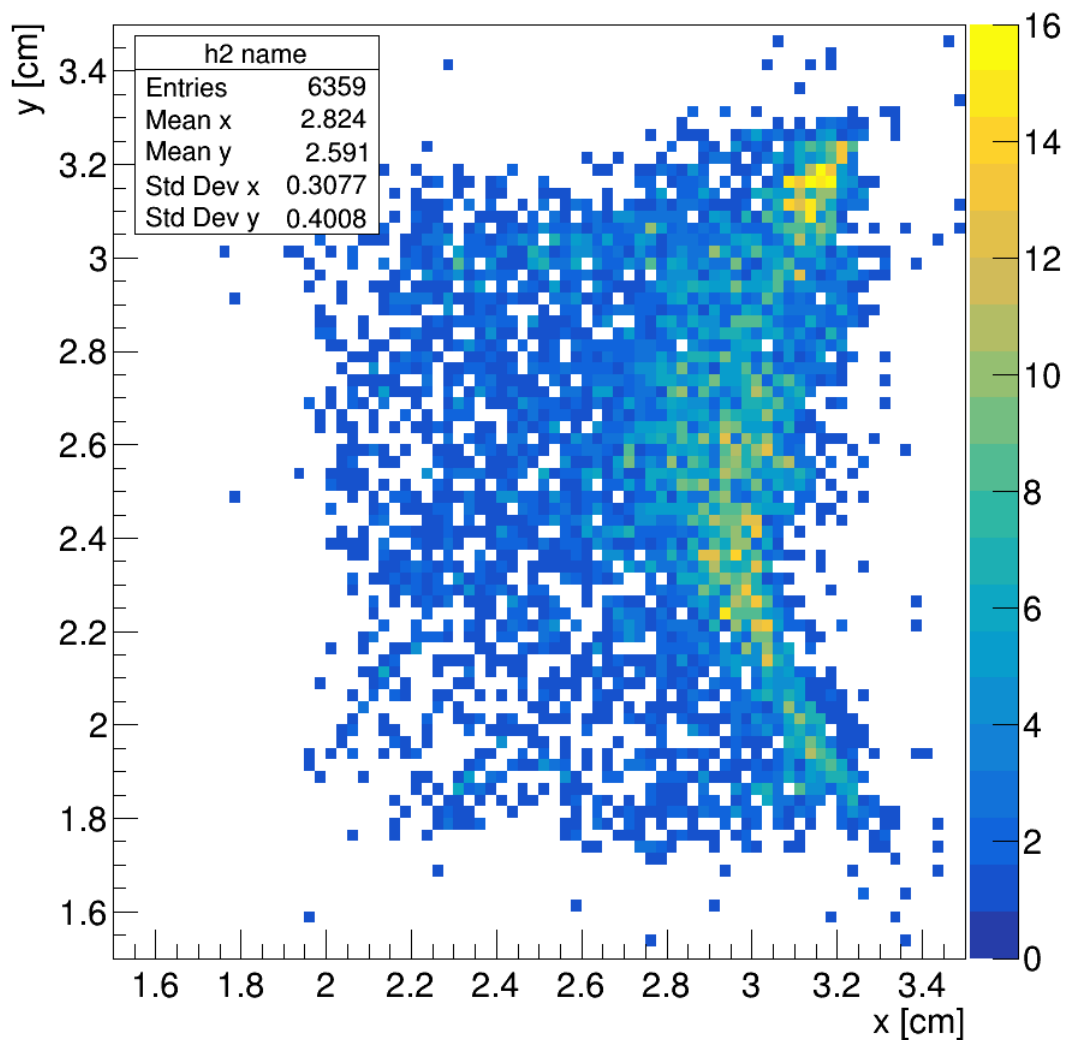
is\_S2 && S1\_Am\_peak && edges



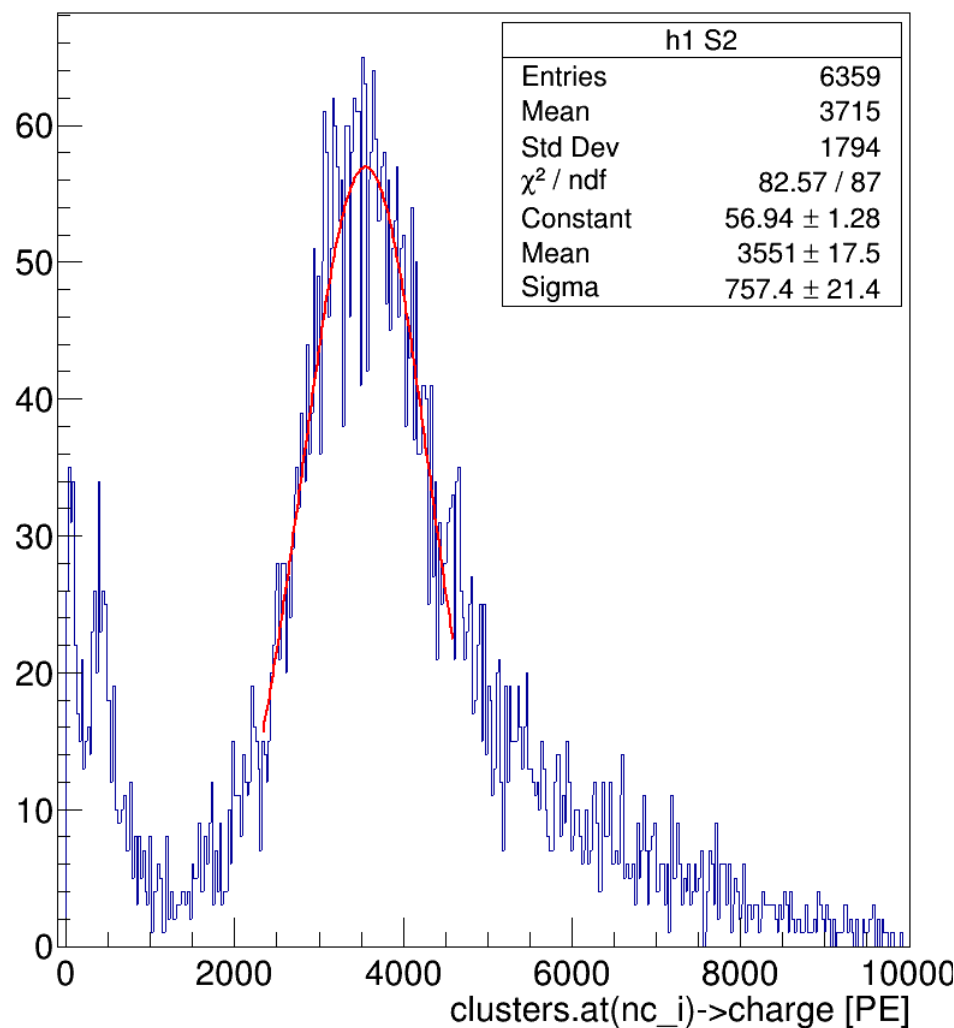


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is\_S2 && S1\_Am\_peak

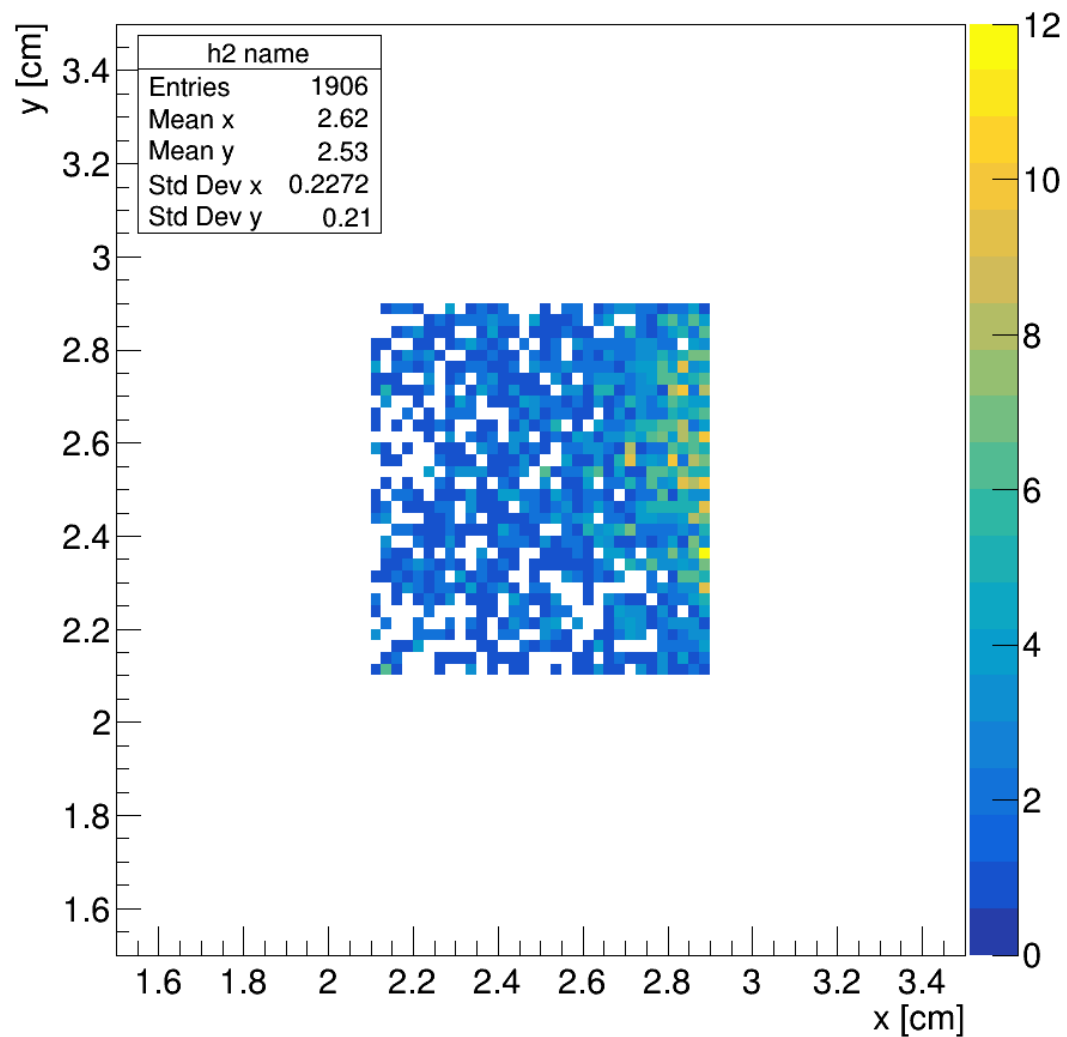


is\_S2 && S1\_Am\_peak

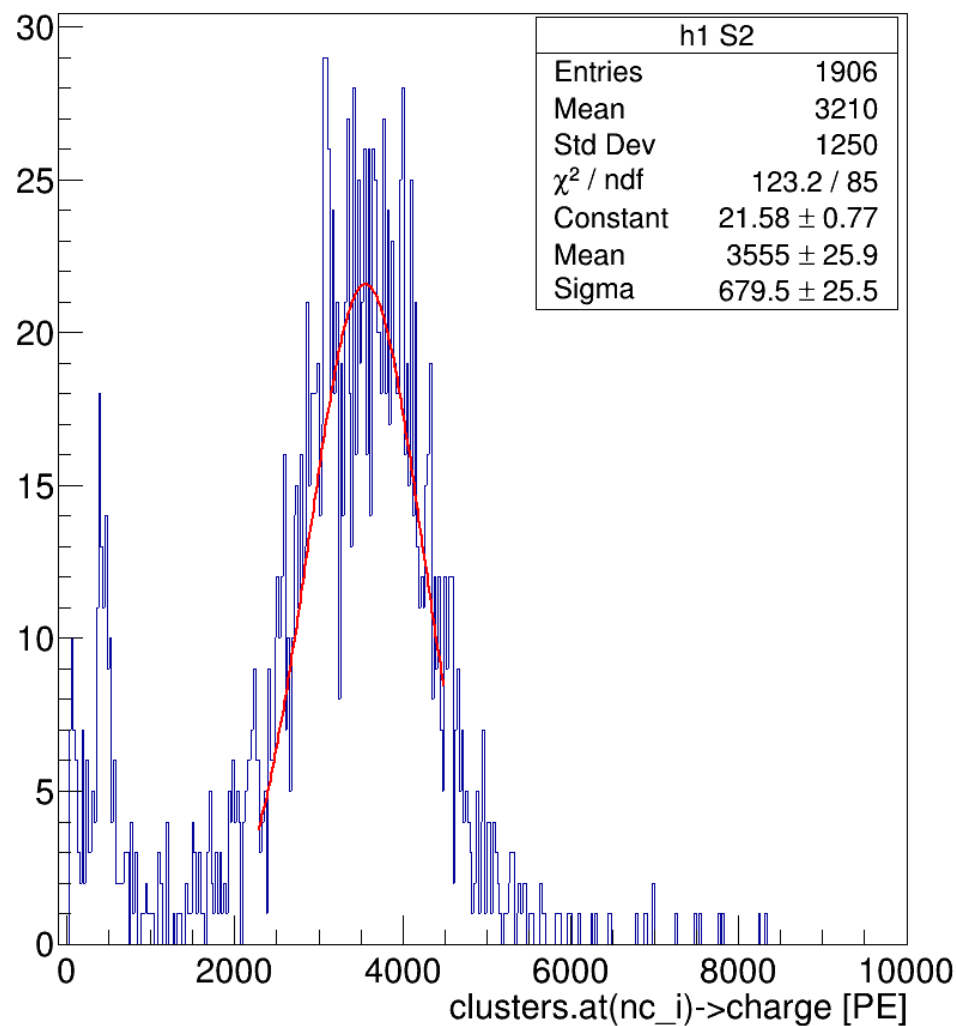


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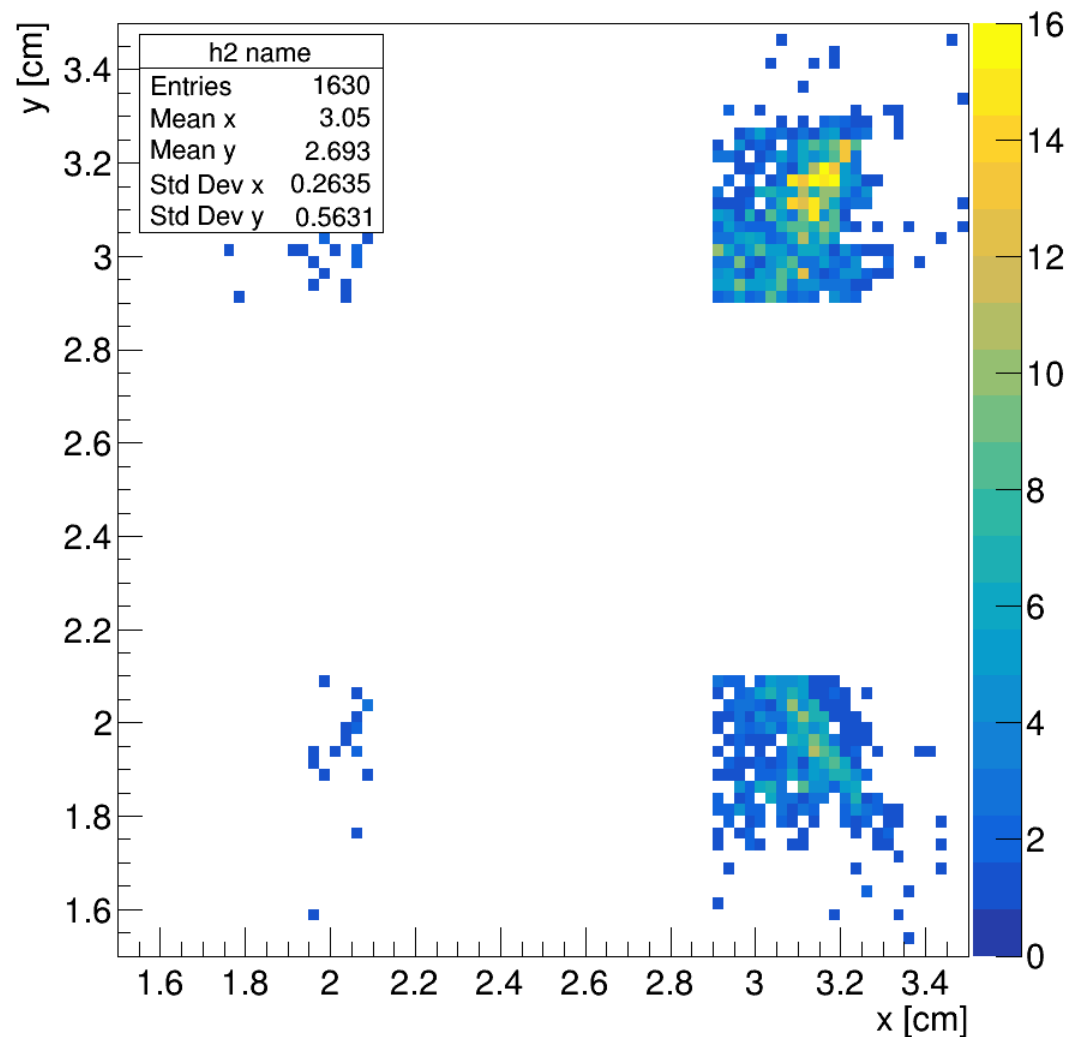


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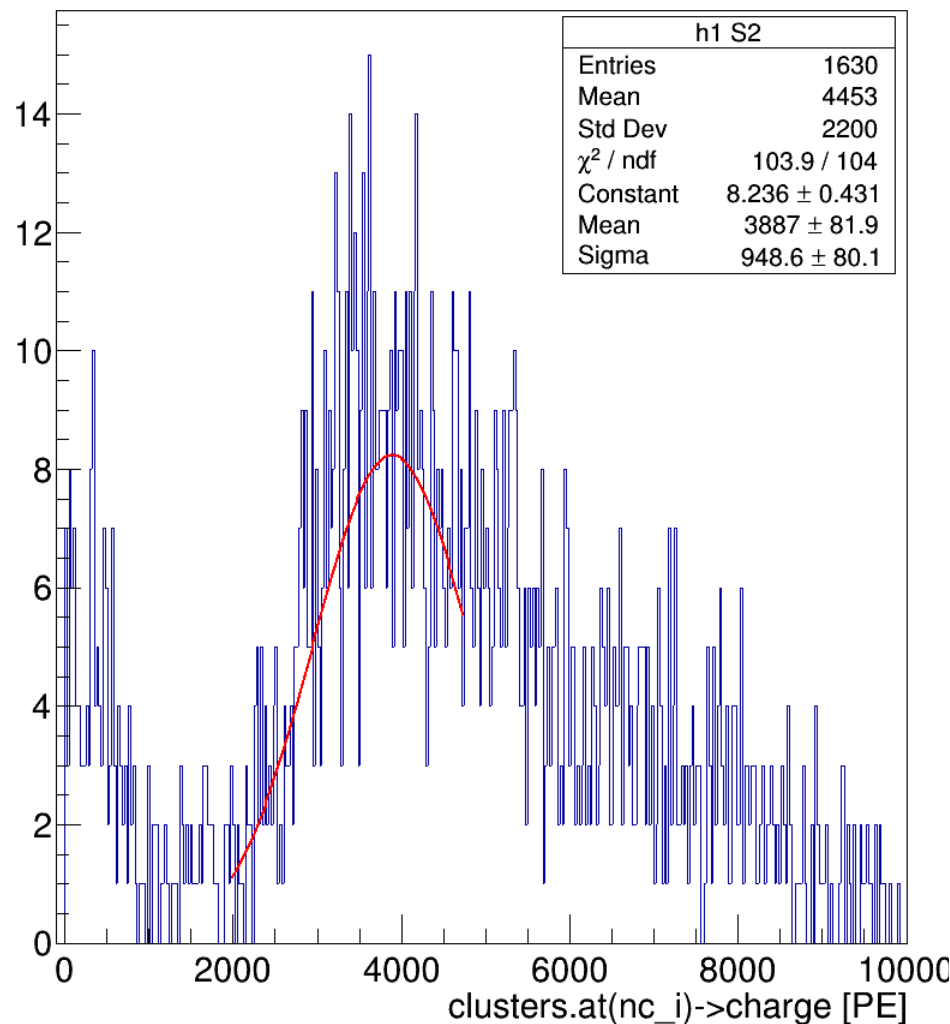


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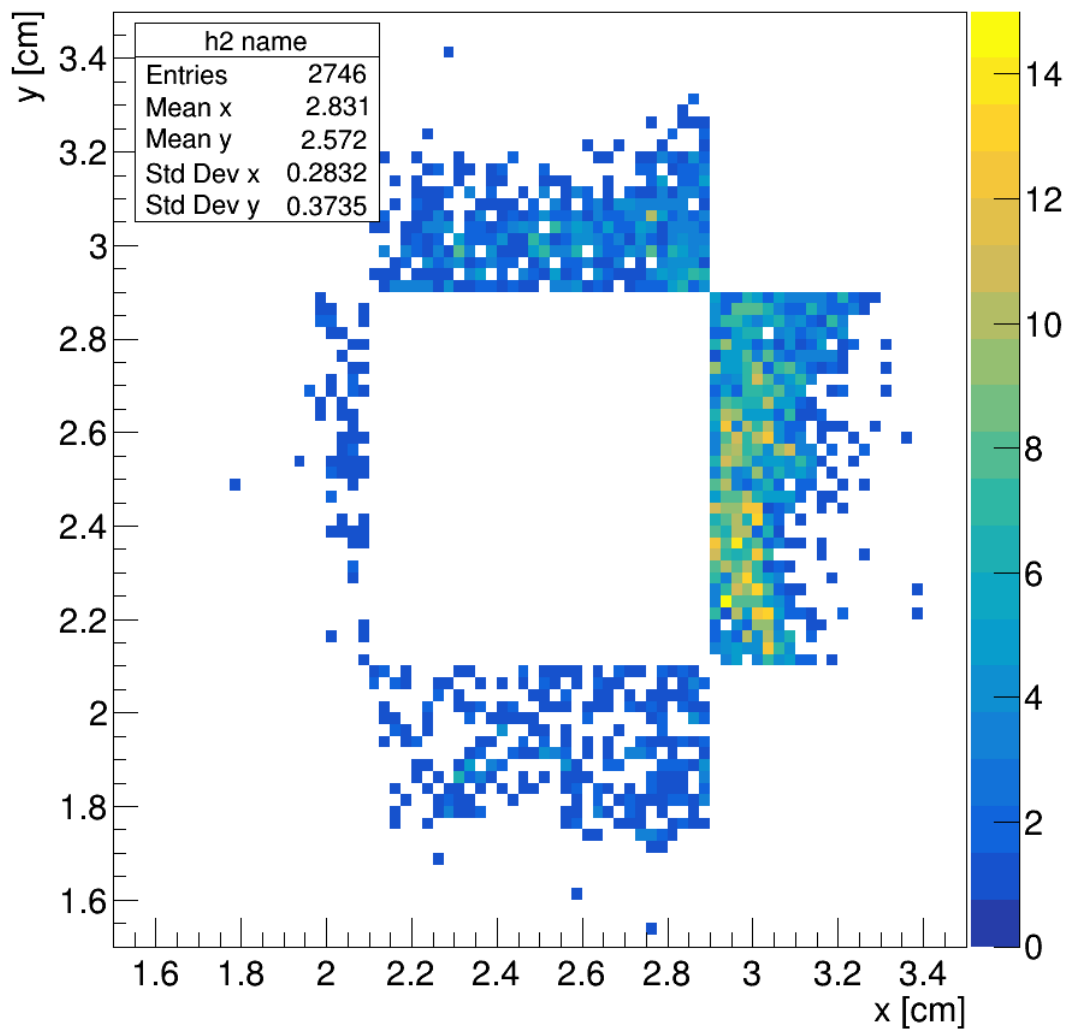


is\_S2 && S1\_Am\_peak && corners



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