

pXp analysis

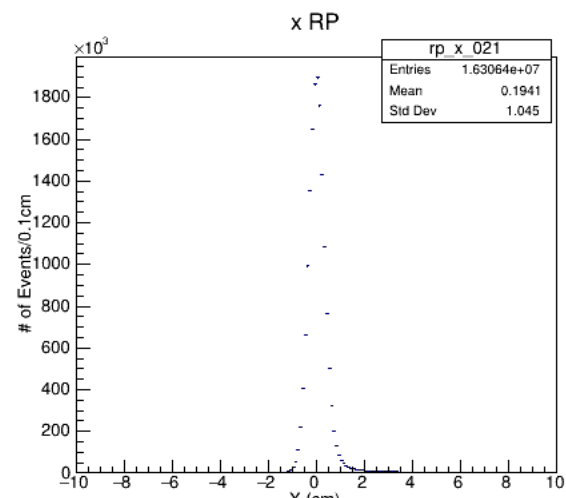
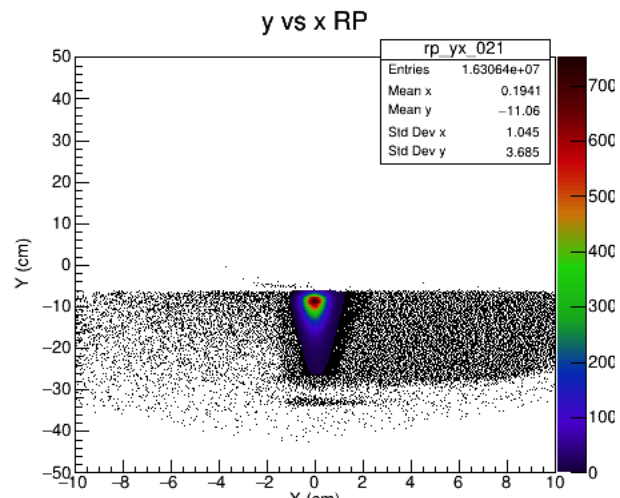
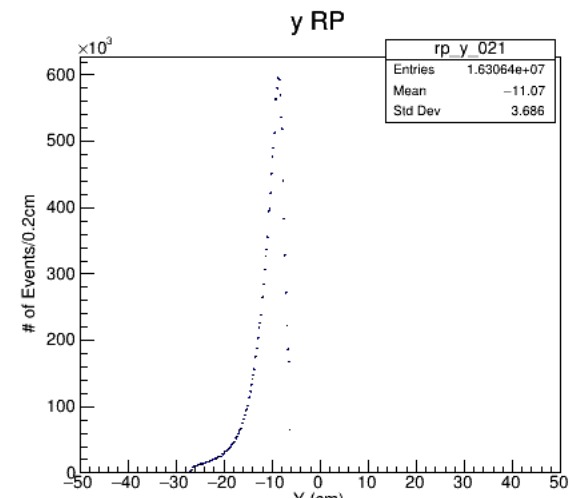
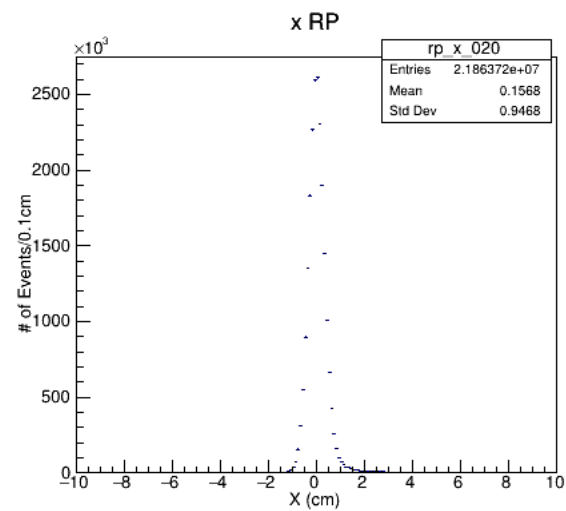
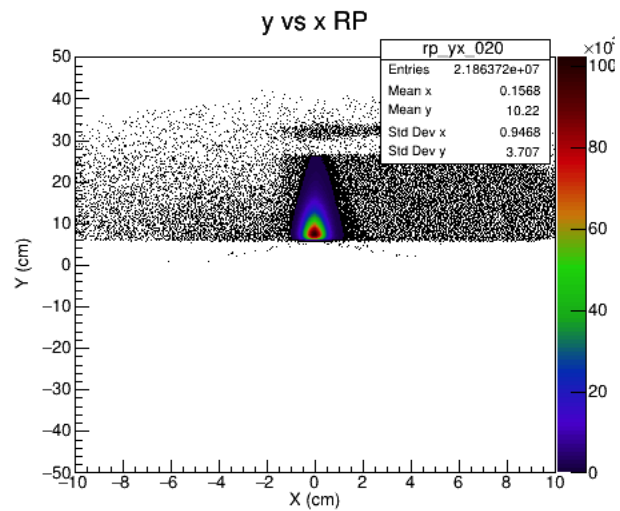
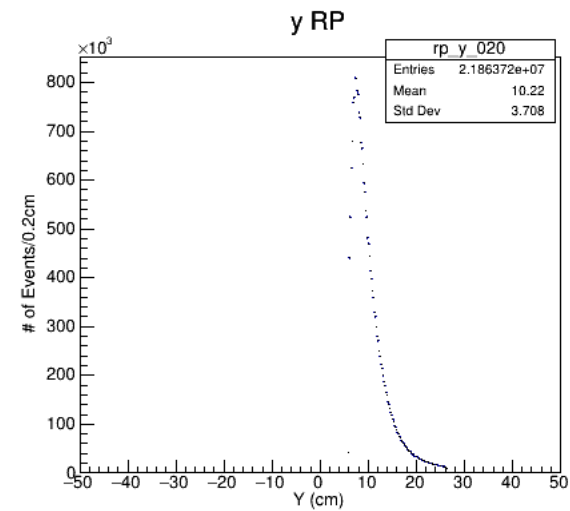
Luiz Emediato (Sao Paulo)

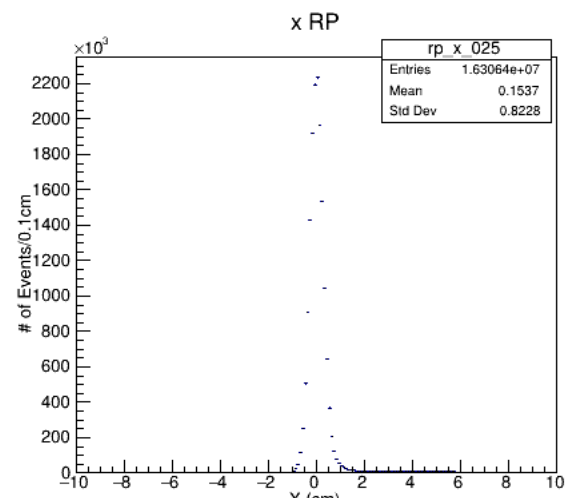
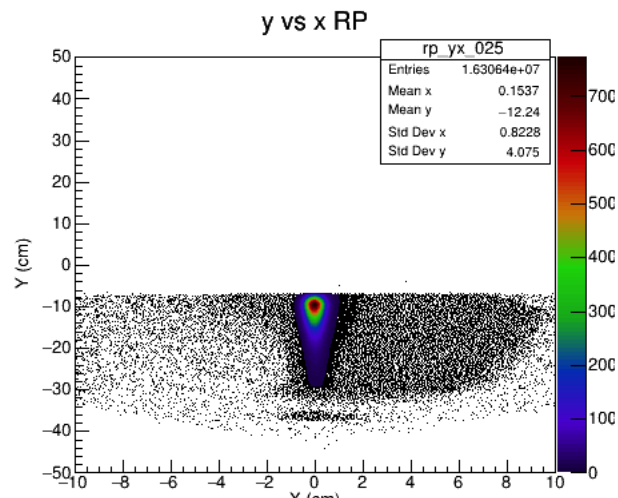
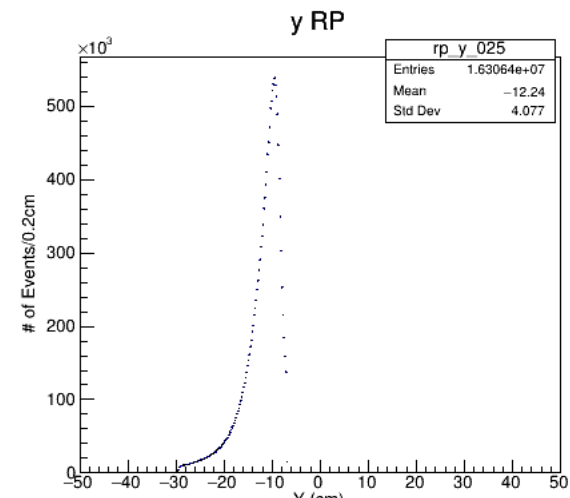
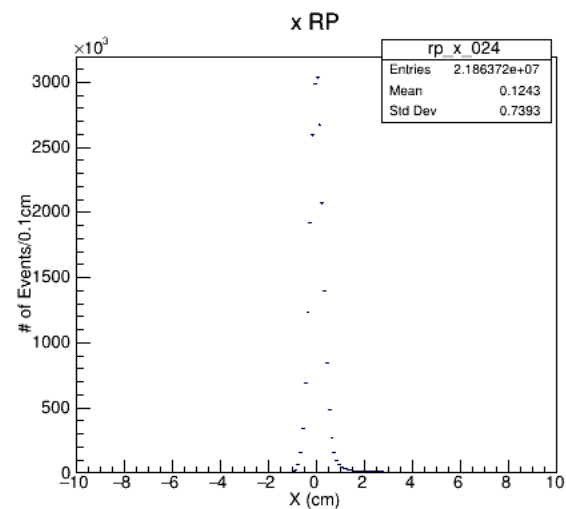
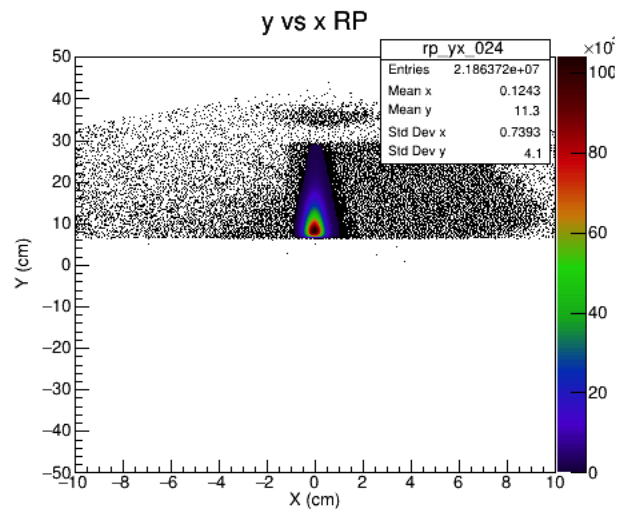
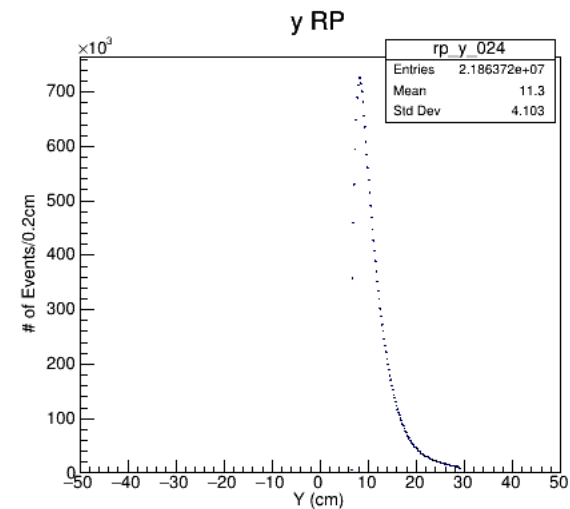
Tom McDowell, Cory Rude, Jane Nachtman (Iowa)

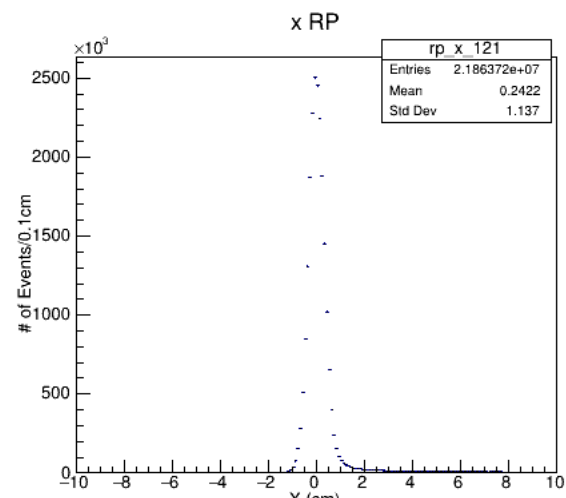
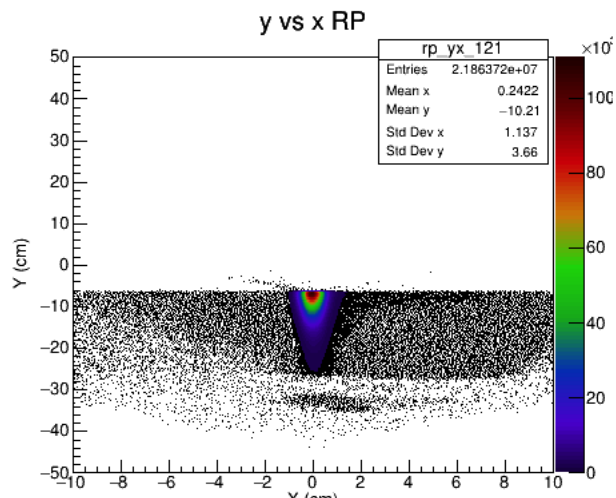
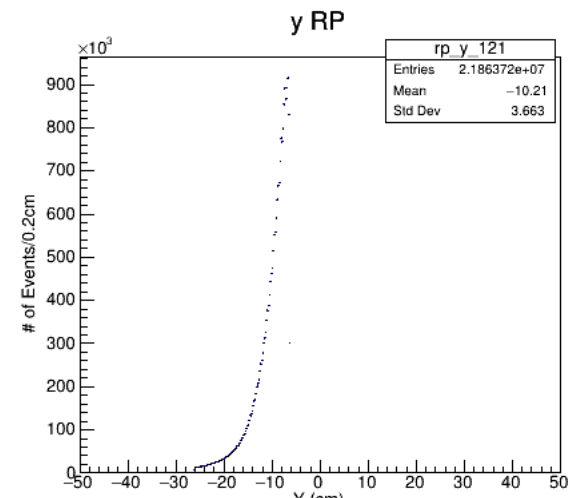
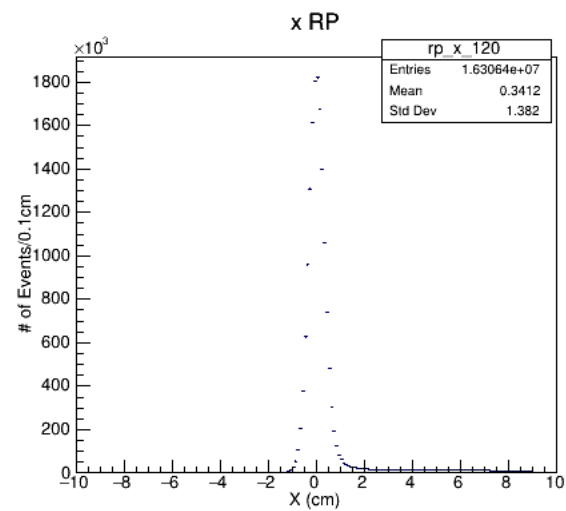
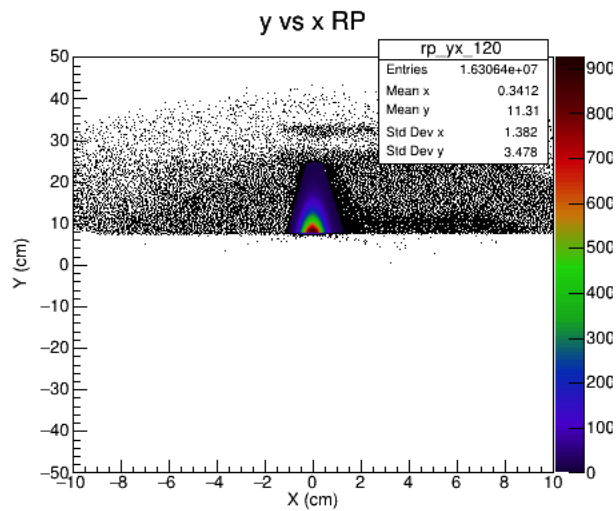
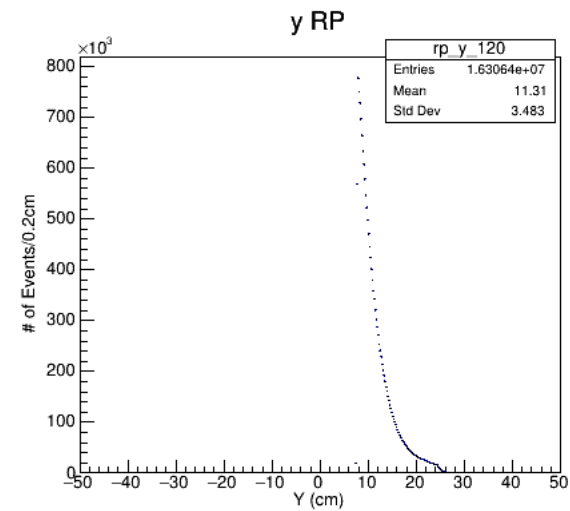
Mike Albrow (FNAL)

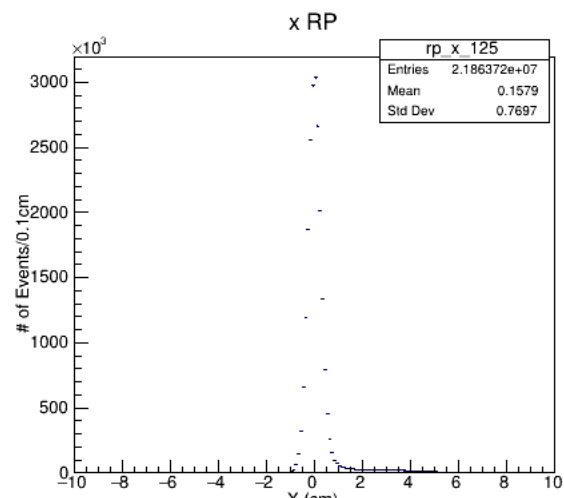
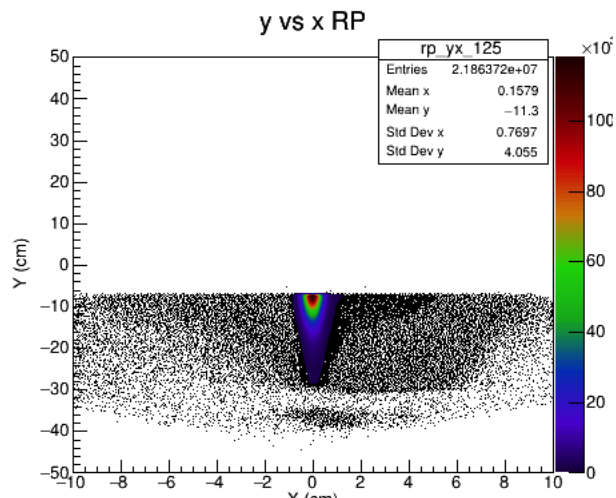
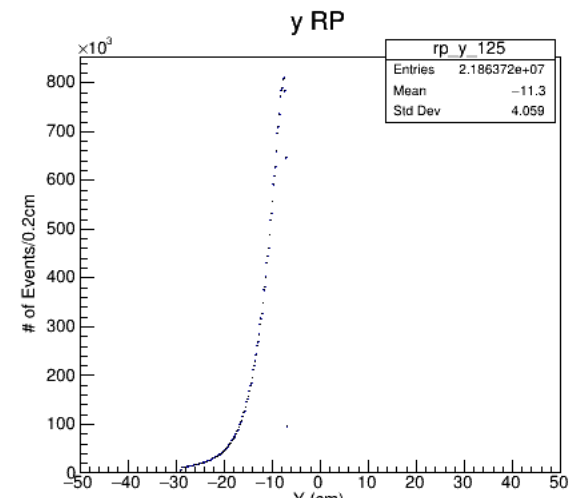
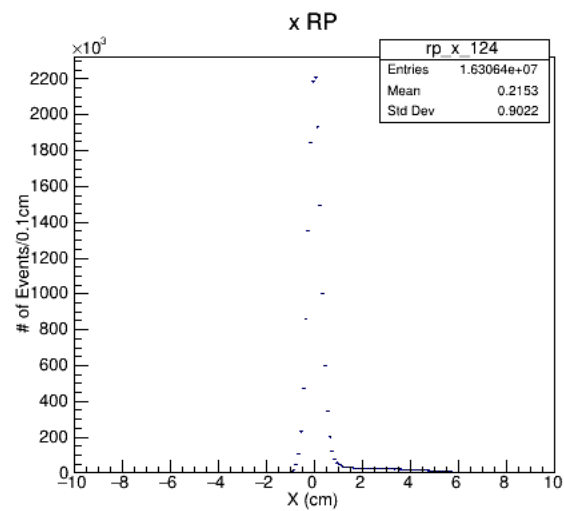
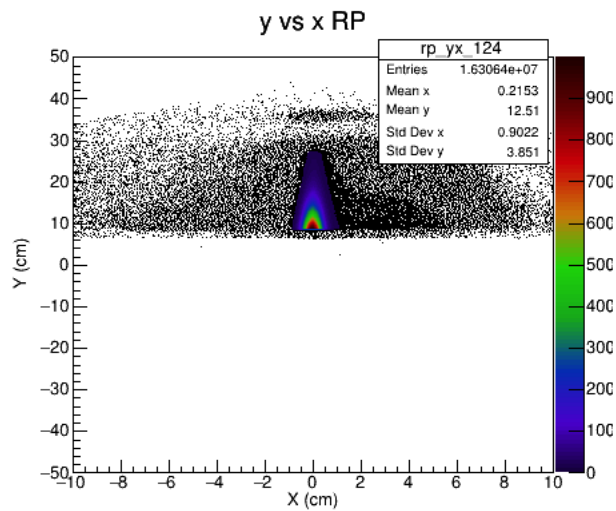
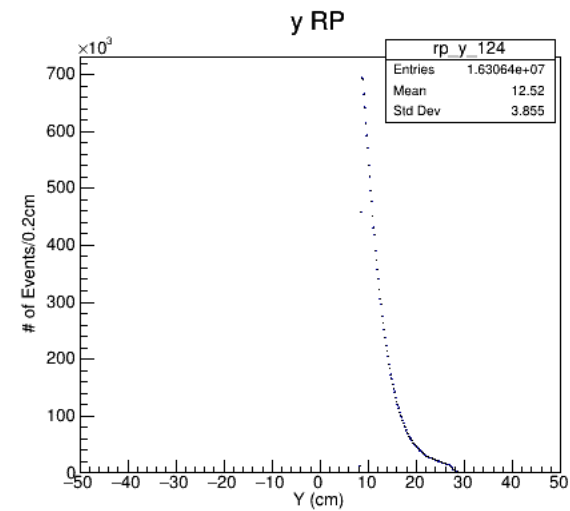
Overview

- using all 2015 data
- single track events, no cuts
- sequence of RP's x and y scatter plots and projections
- x vertex correlation between sector 56 (L) and sector 45 (R) and projections
- $|t|$ distributions
- ξ distributions
- ϕ distribution
- dE/dx vs p scatter plot in log scale



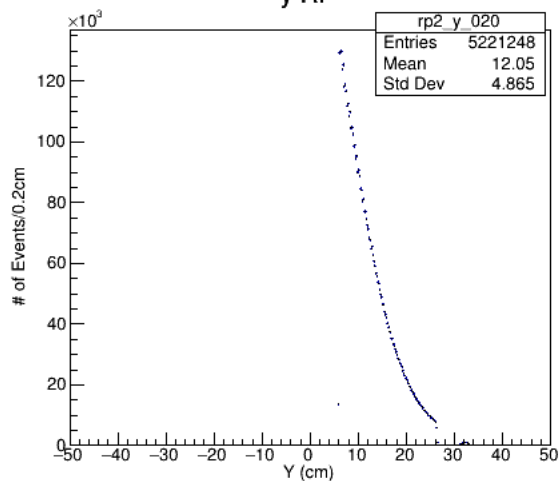




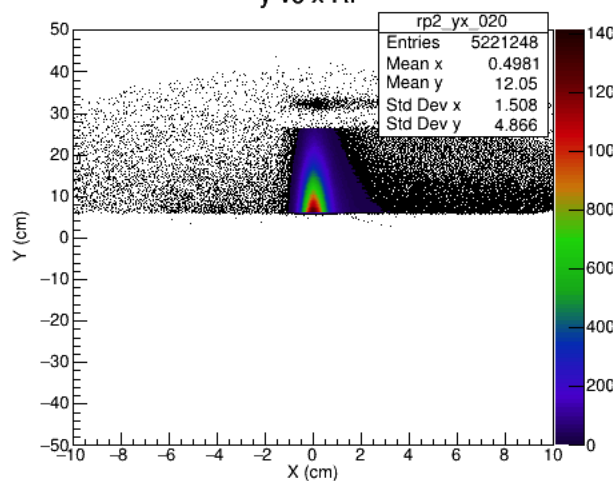


- Does RP_x variable mean sector45 and RP2_x variable sector56 ?
- Are the numbers 020, 021, 024, 025, 120, 121, 124, 125 related to the RP planes ?

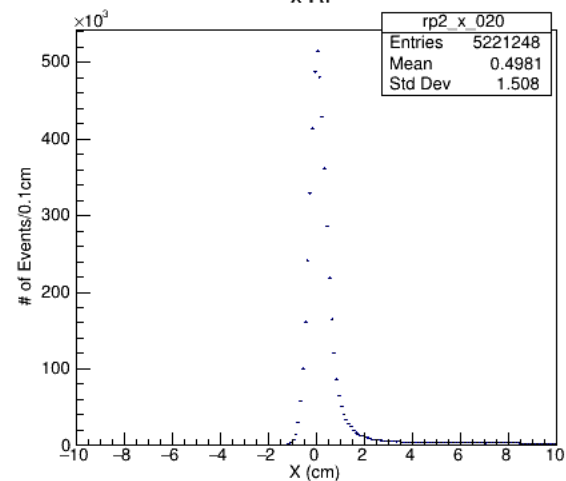
y RP



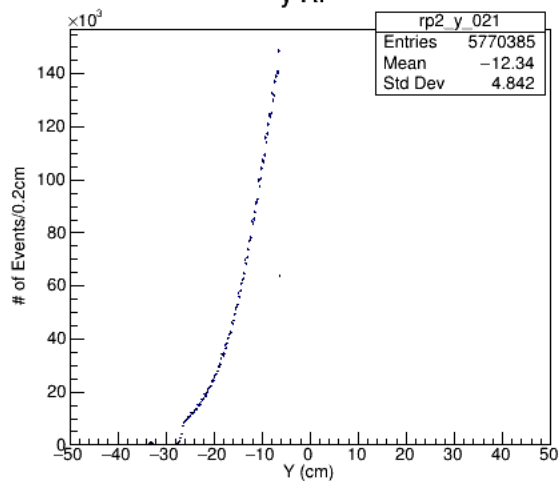
y vs x RP



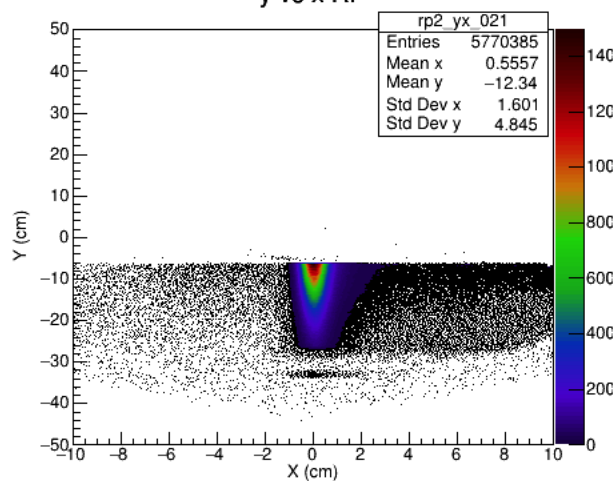
x RP



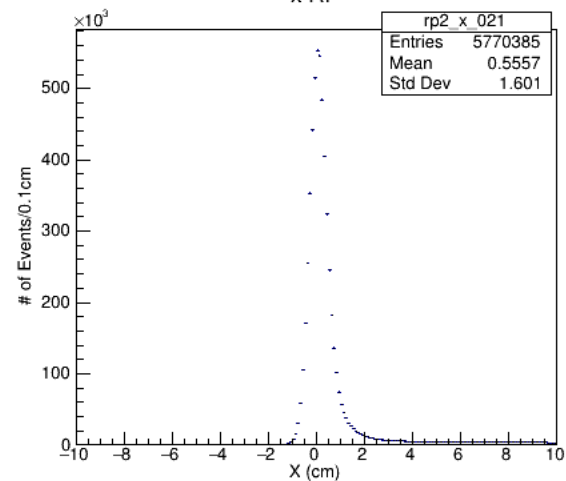
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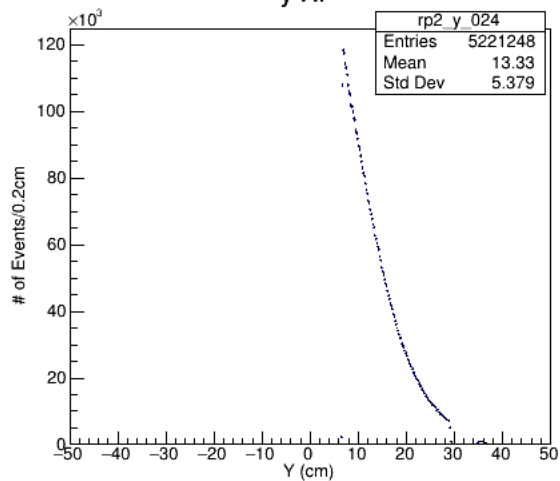
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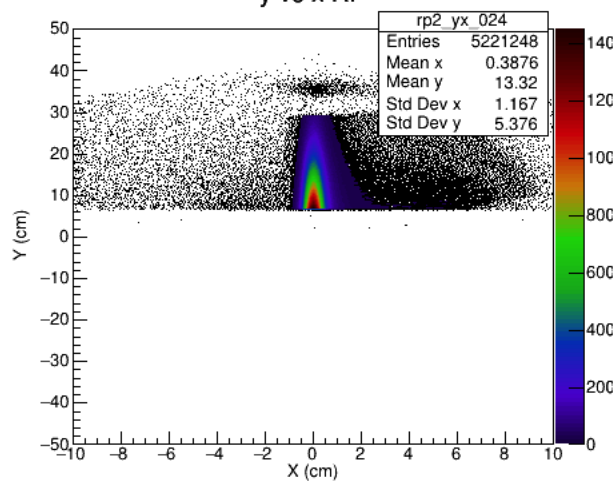
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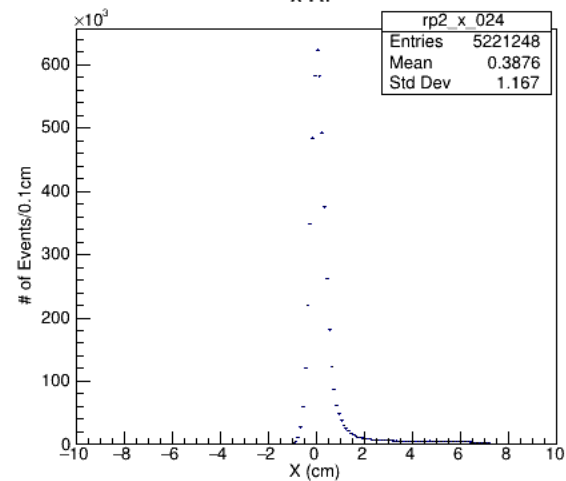
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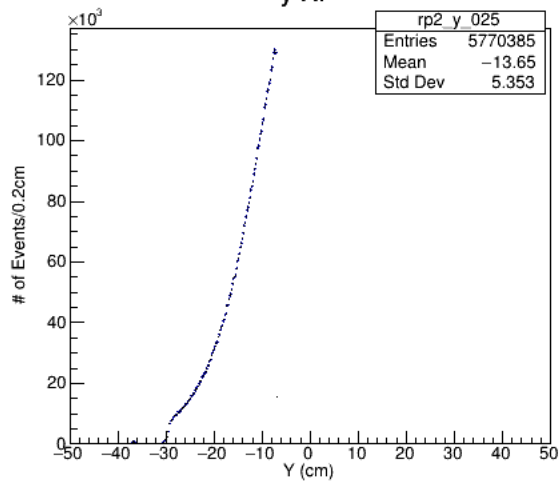
y vs x RP



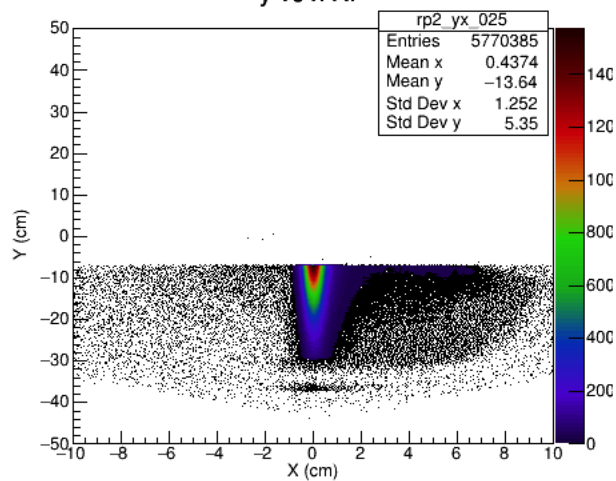
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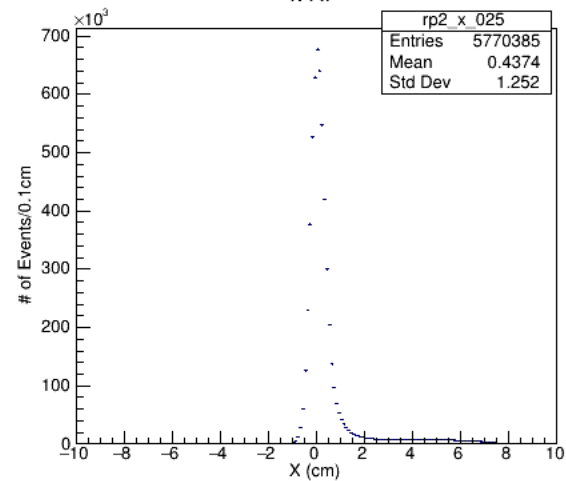
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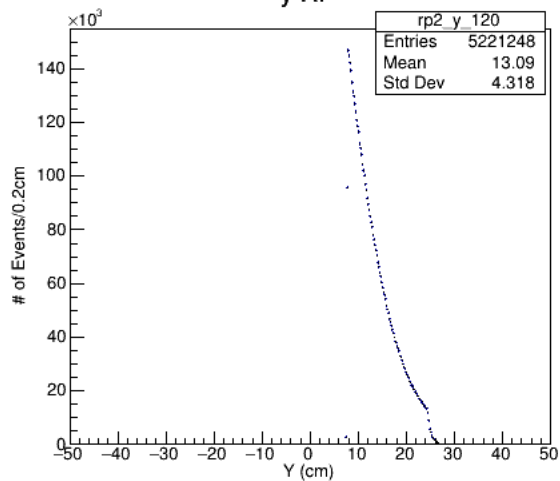
y vs x RP



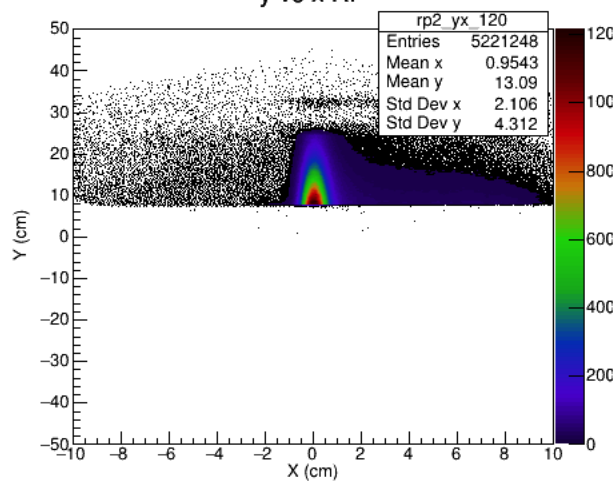
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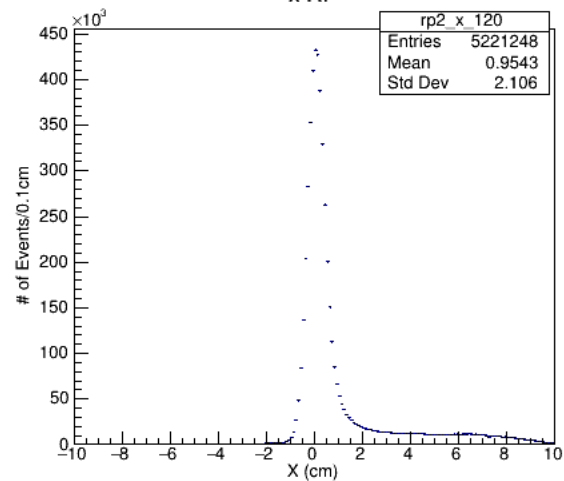
y RP



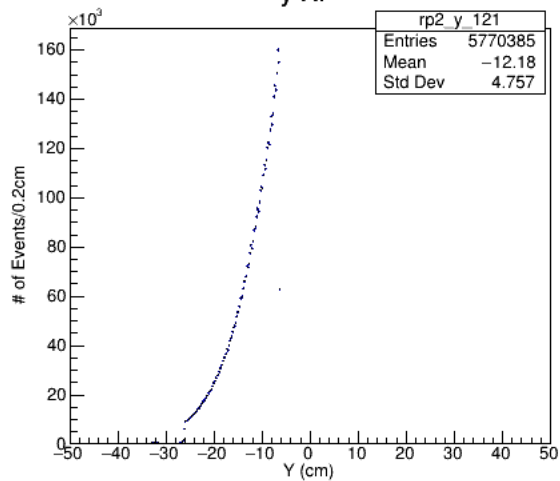
y vs x RP



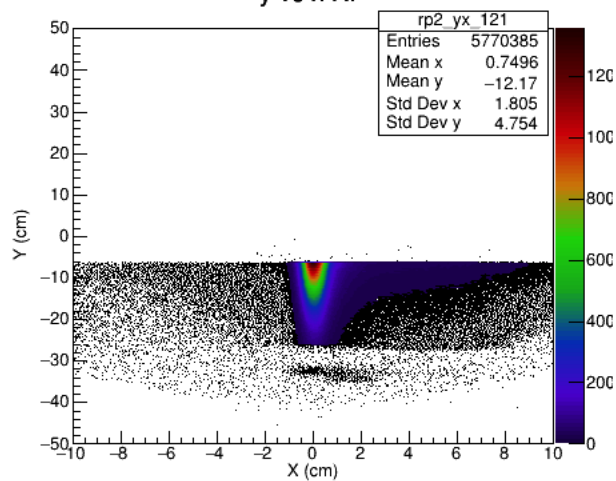
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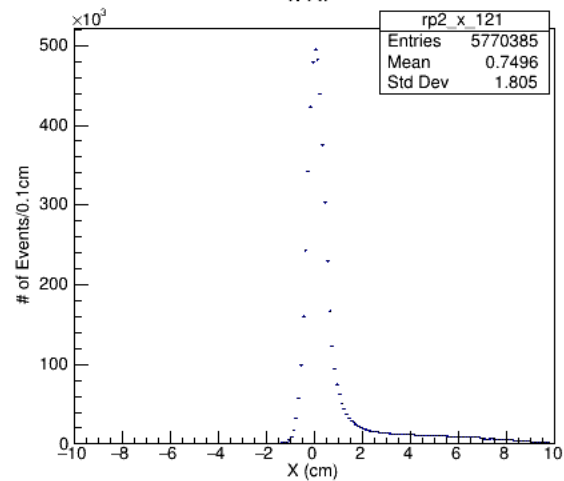
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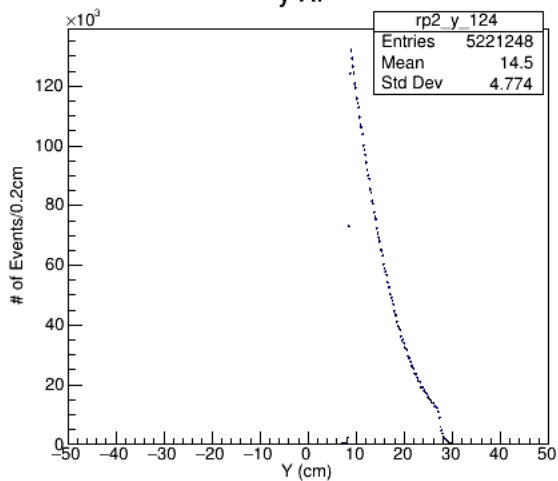
y vs x RP



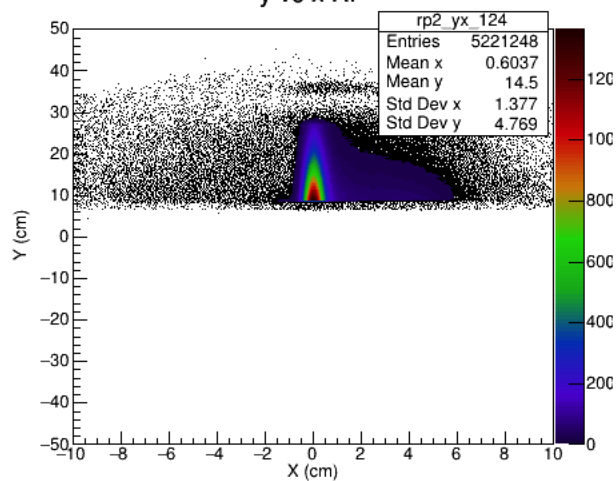
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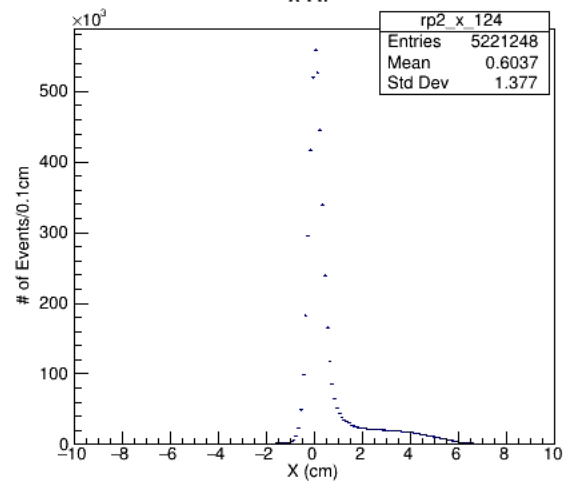
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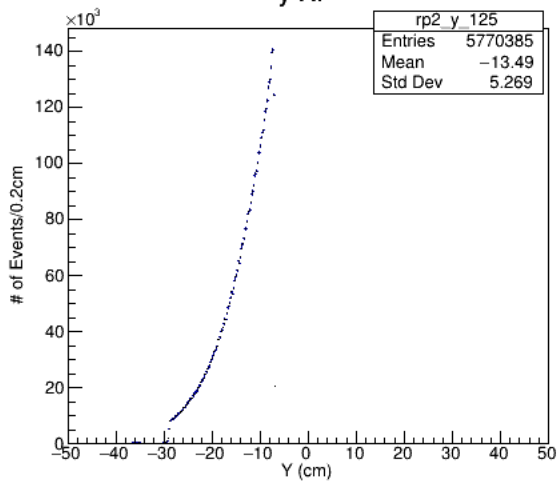
y vs x RP



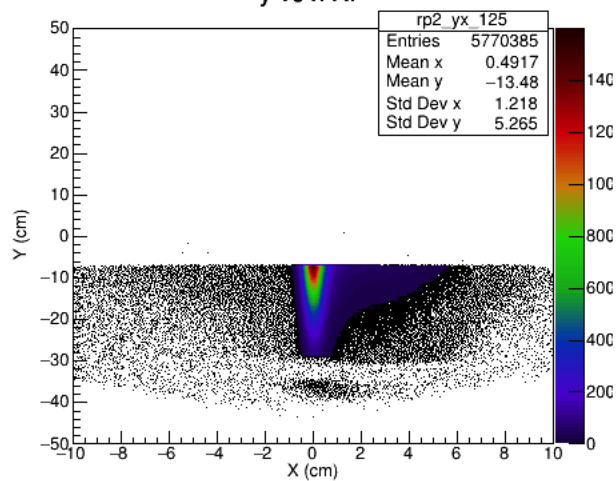
x RP



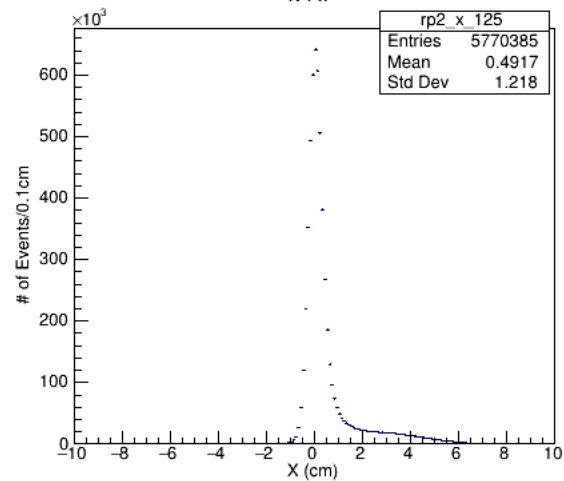
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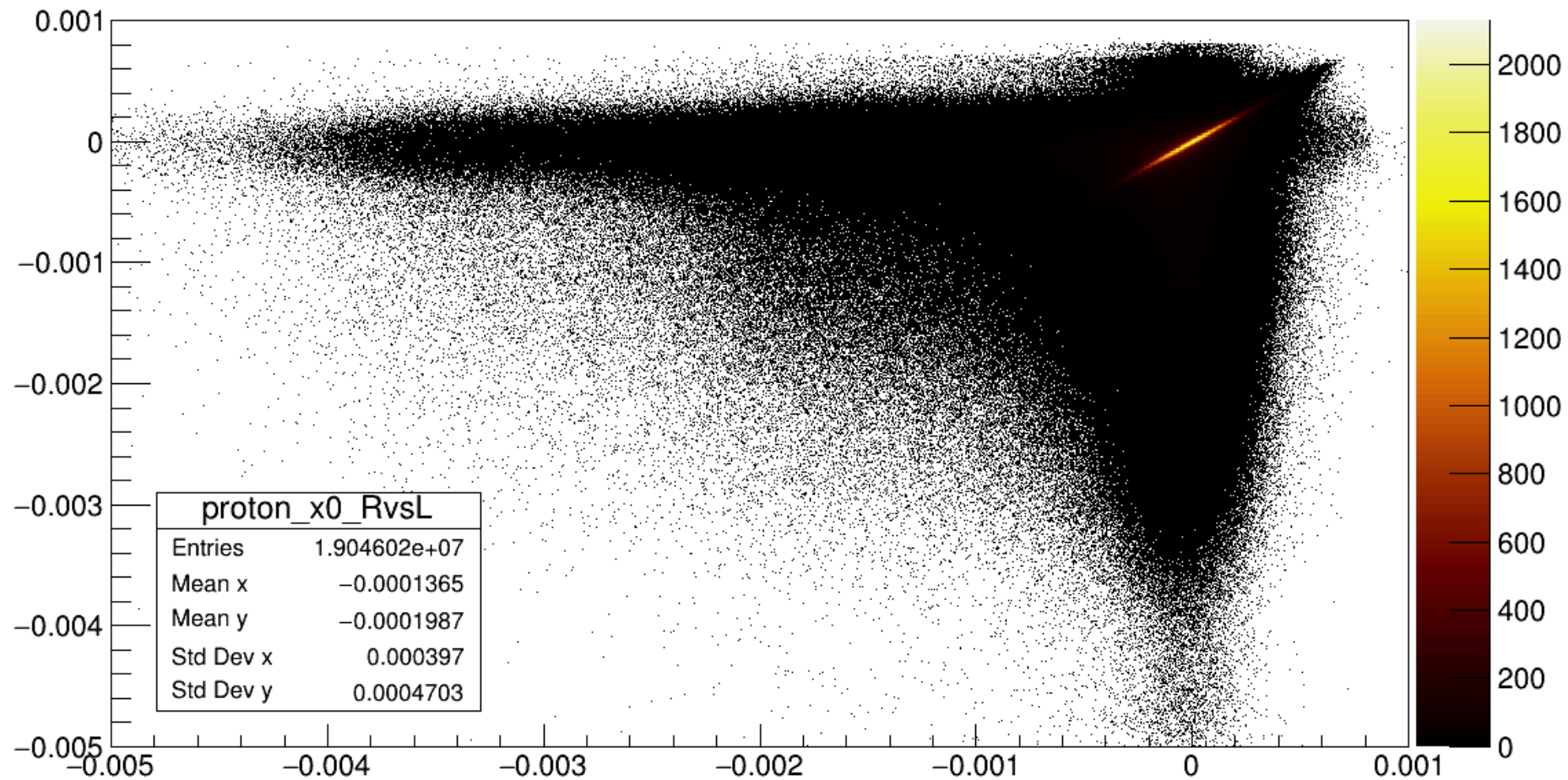
y vs x RP

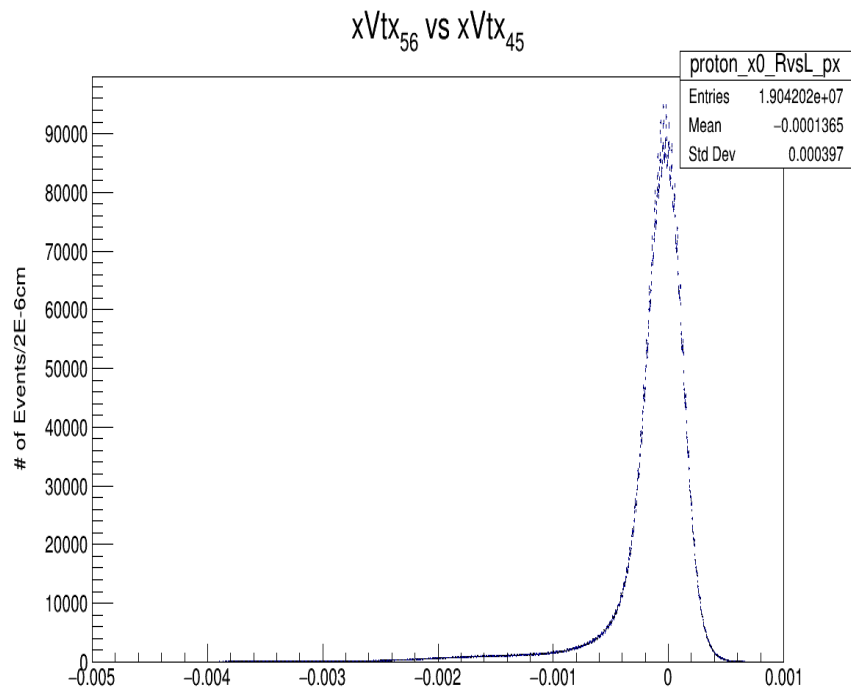
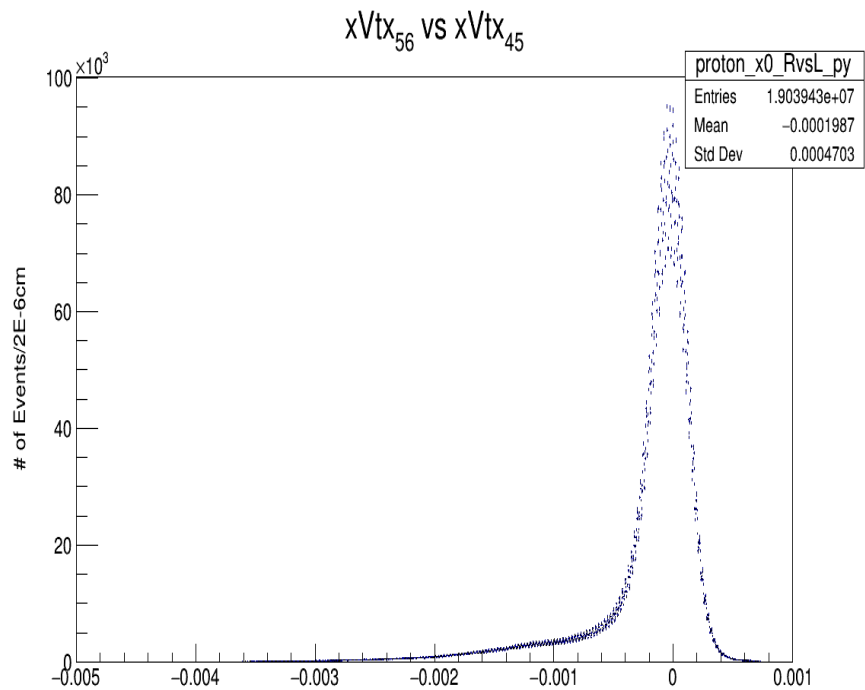


x RP

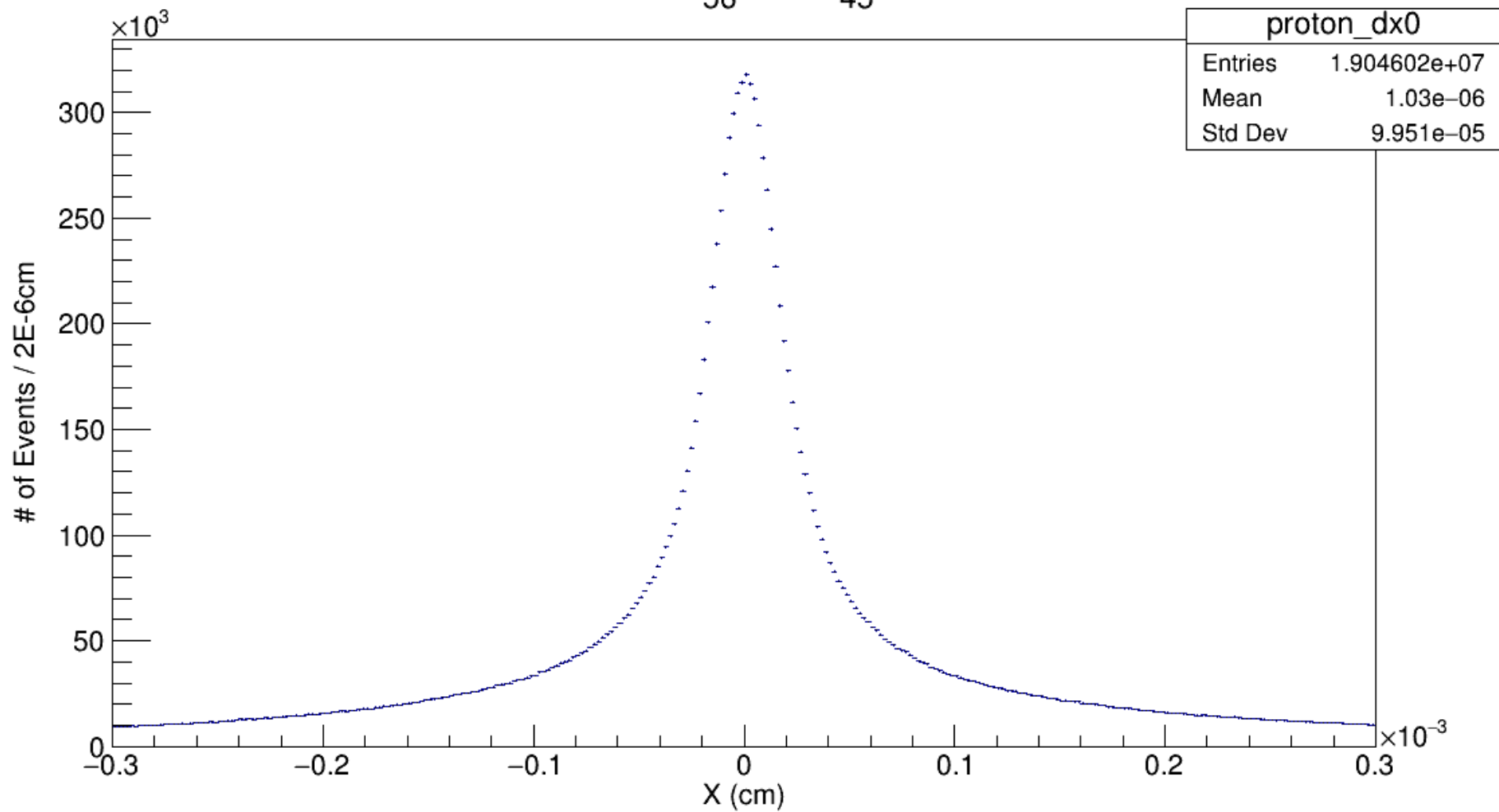


$xVtx_{56}$ vs $xVtx_{45}$

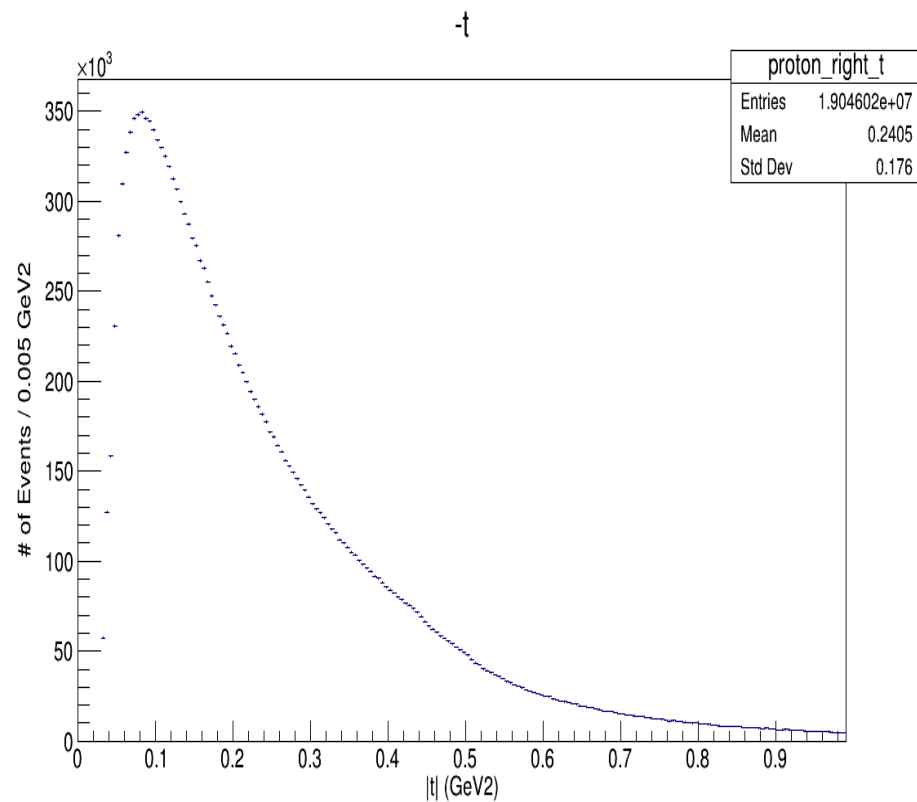
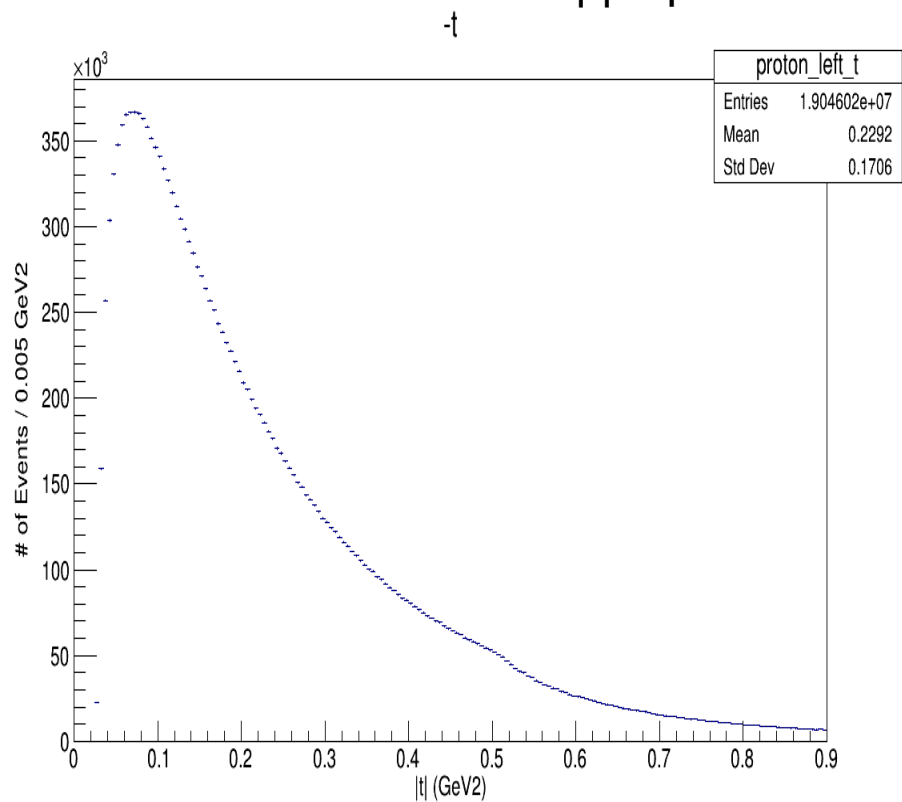




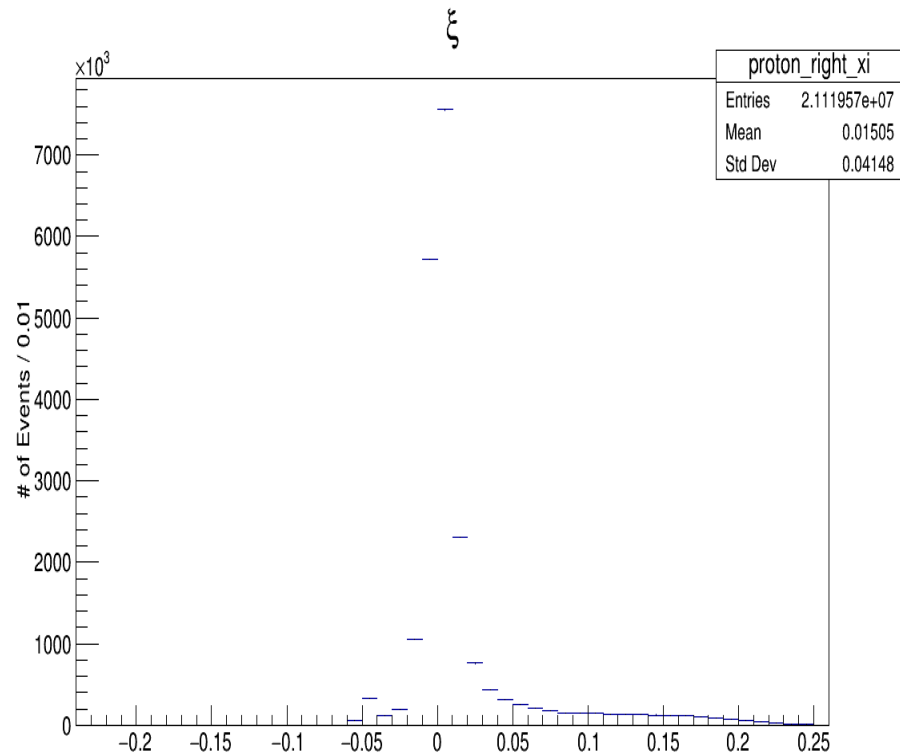
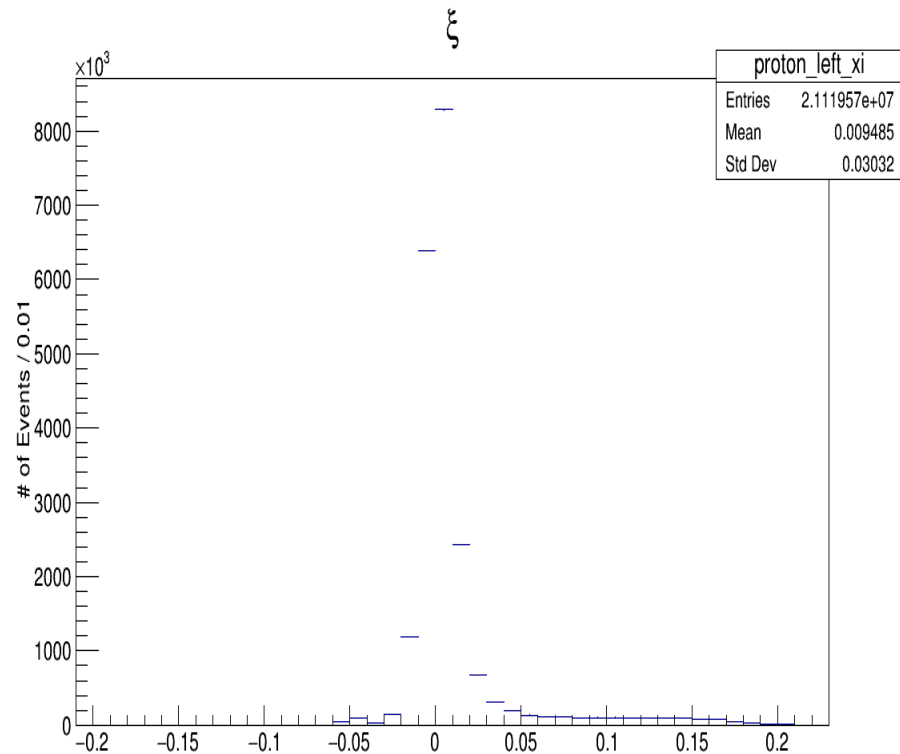
$$xVtx_{56} - xVtx_{45}$$

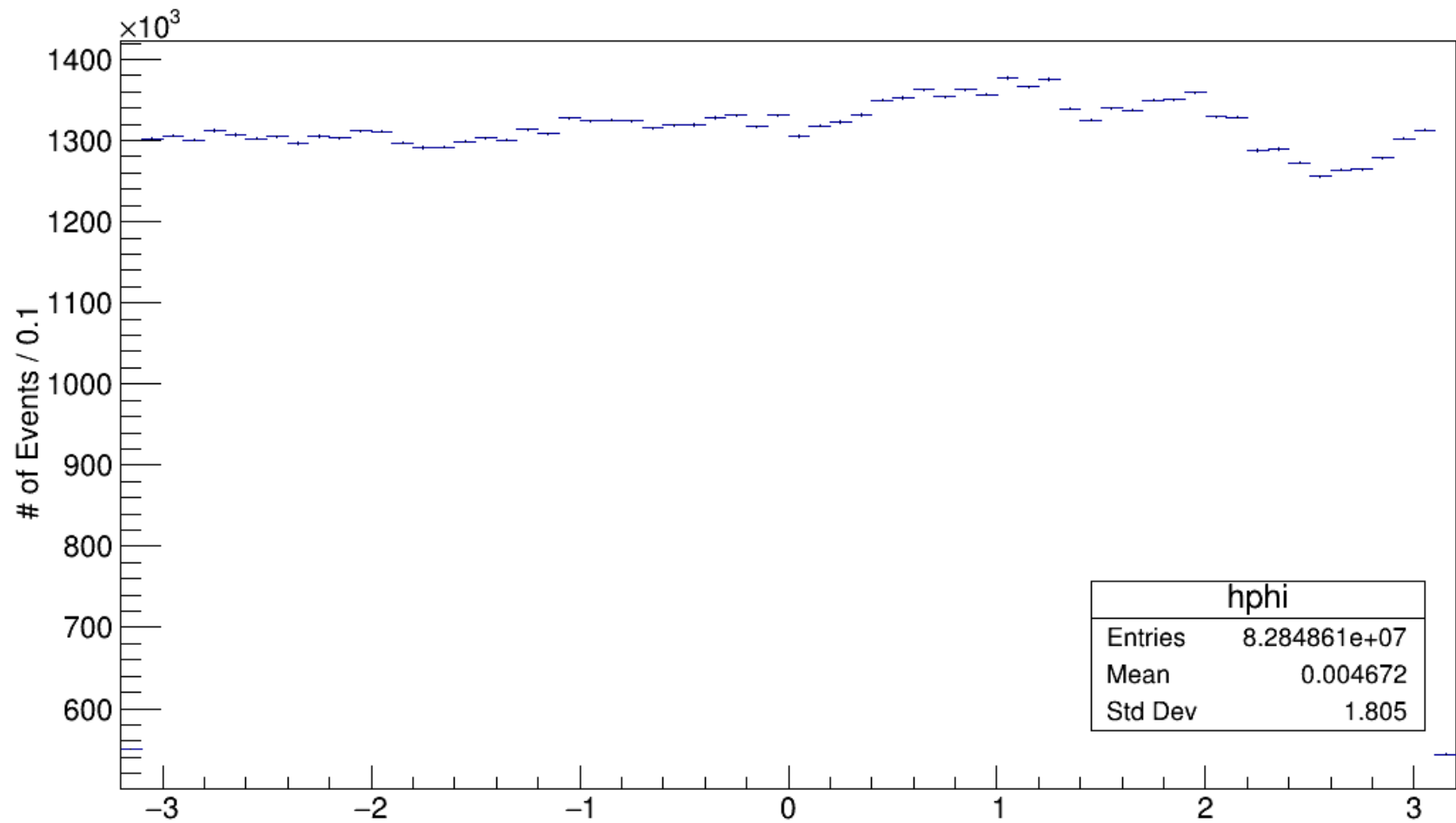


$|t|$ squared four momentum transfer

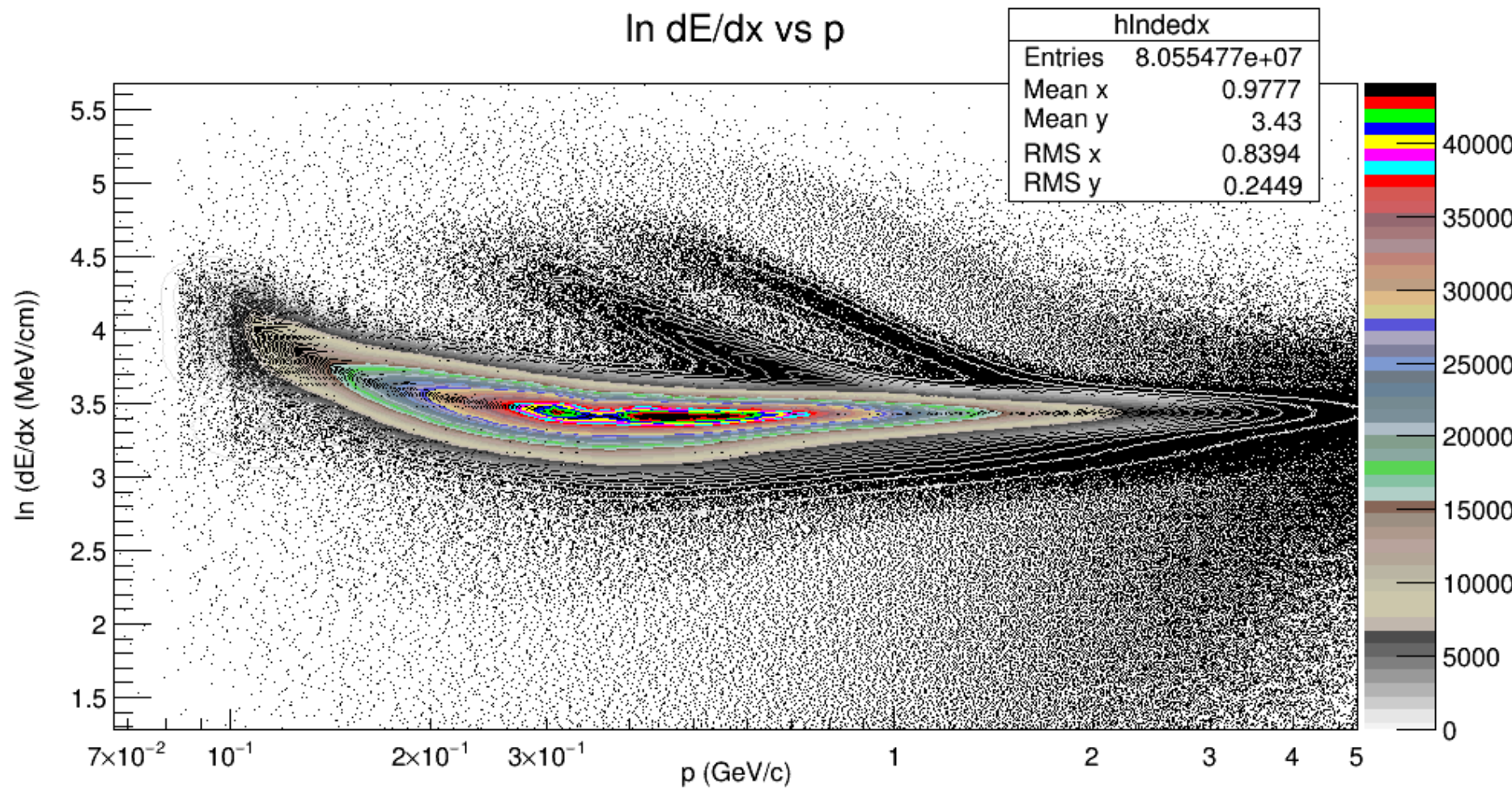


fractional momentum



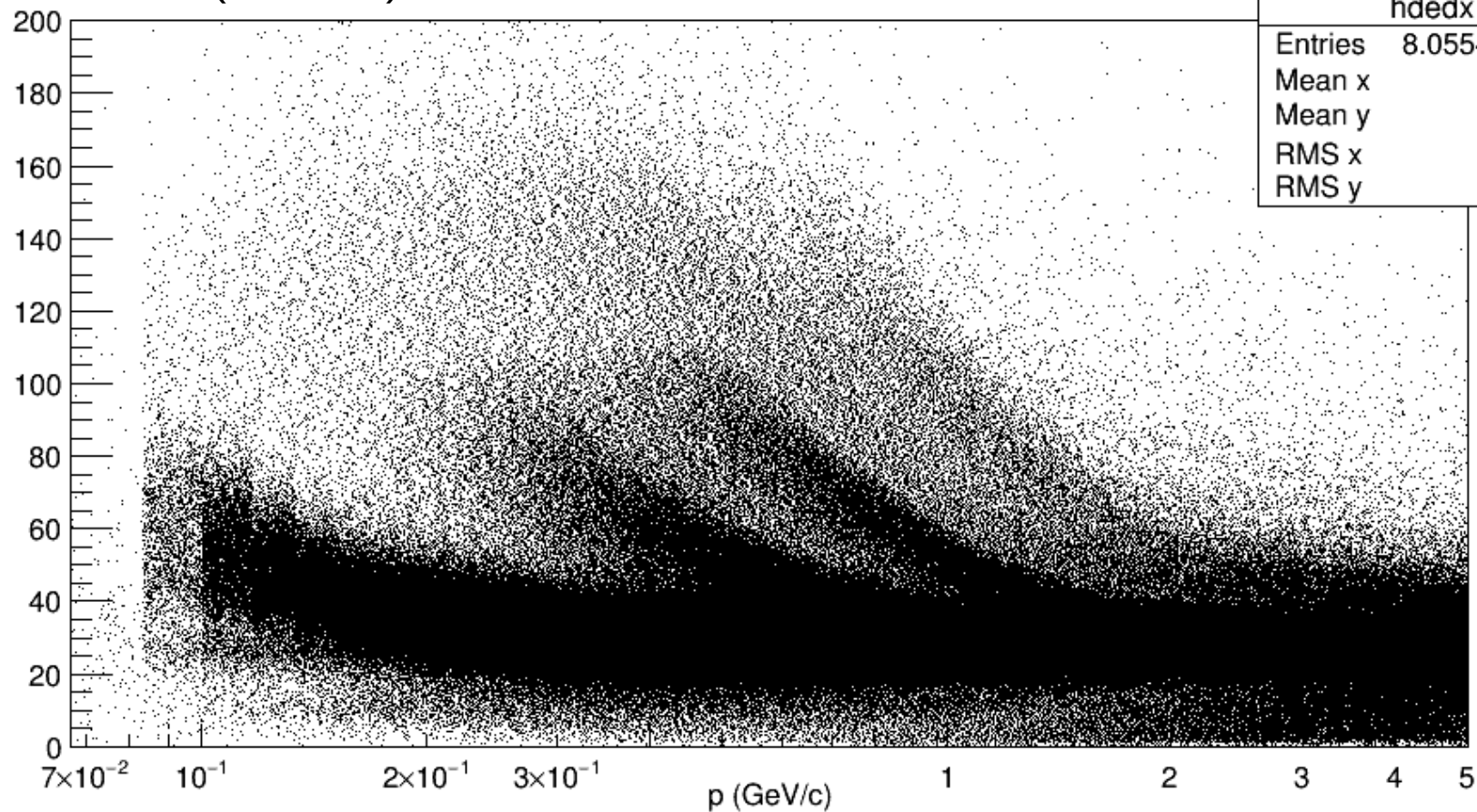
ϕ 

ln dE/dx vs p



dE/dx (MeV/cm)

dE/dx vs p



hdedx	
Entries	8.055477e+07
Mean x	0.9778
Mean y	31.88
RMS x	0.8396
RMS y	9.327

Conclusion:

- let's move to 2018 data analysis

Thank you