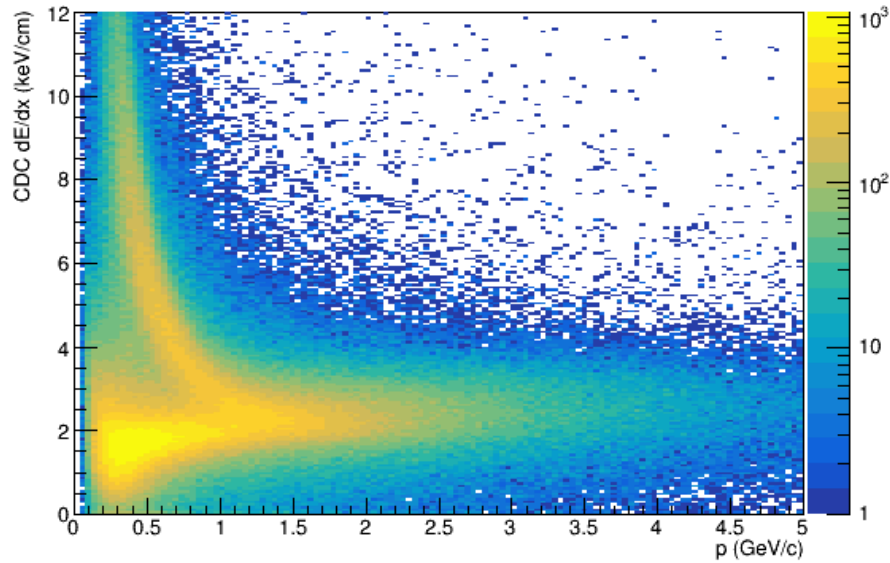


## CDC dE/dx with 20% truncation

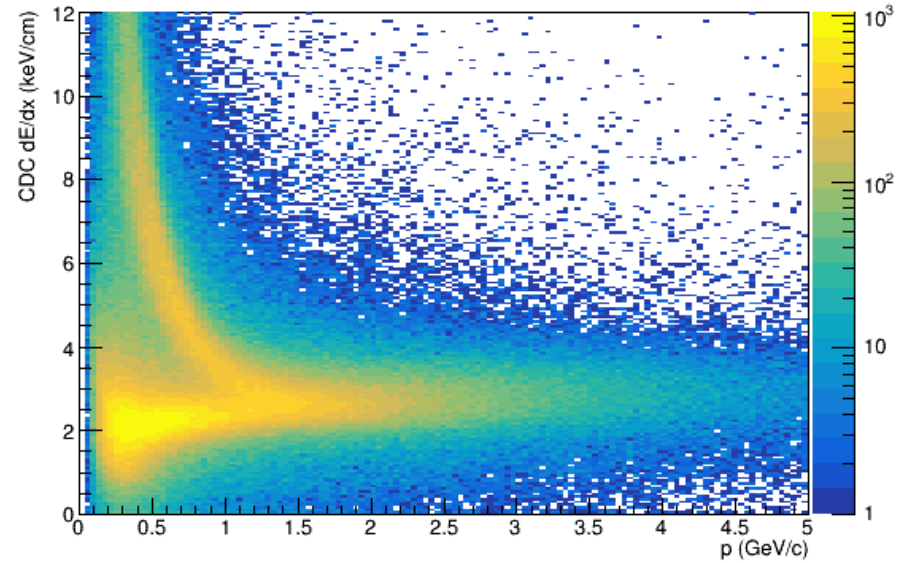
dE/dx uses 50% of hits with lowest dE/dx, change this to 80%  
(from Nacer's studies)

Run 30570

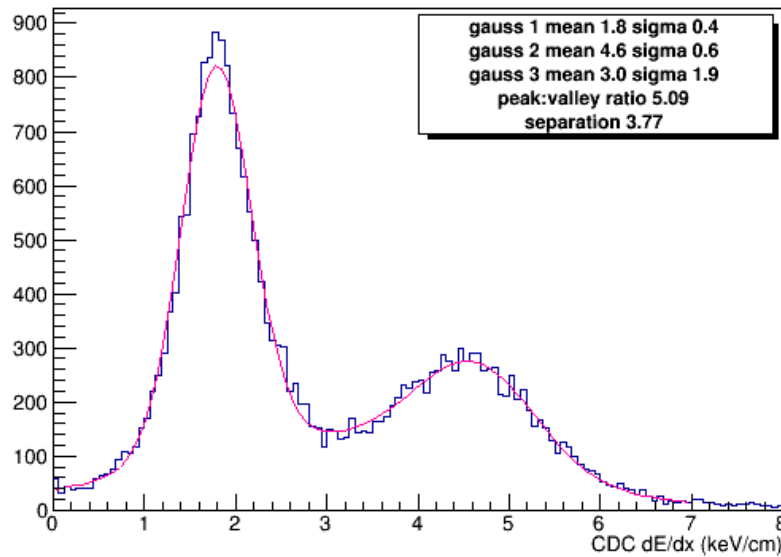
$q^+$  Original dE/dx code



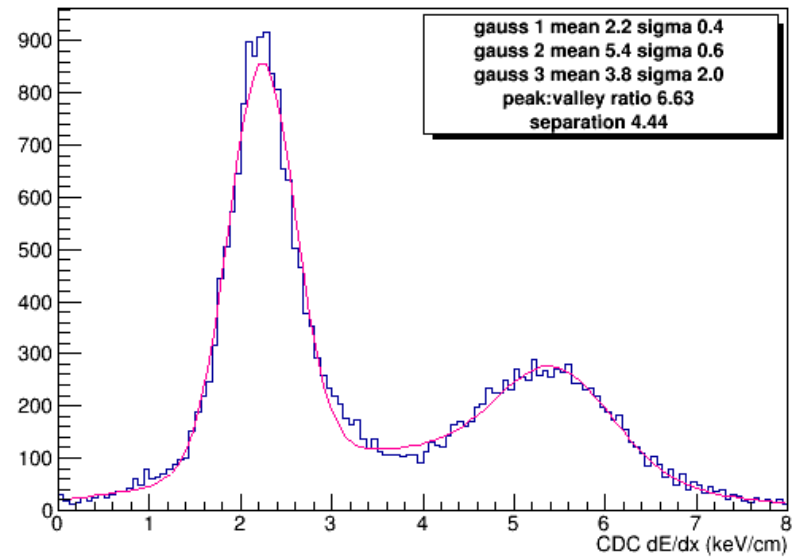
$q^+$  dE/dx truncation 20%



Projection for  $p=0.60$  to  $0.64$  GeV/c

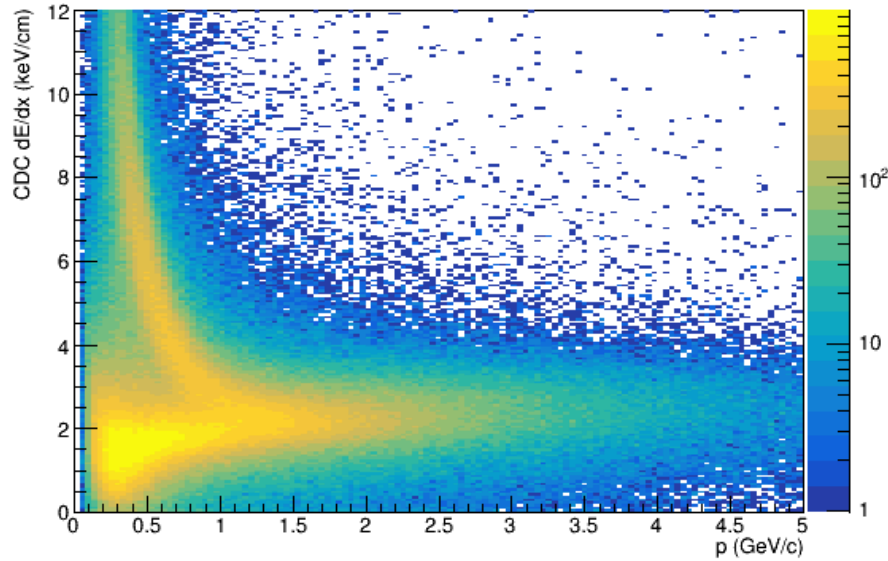


Projection for  $p=0.60$  to  $0.64$  GeV/c

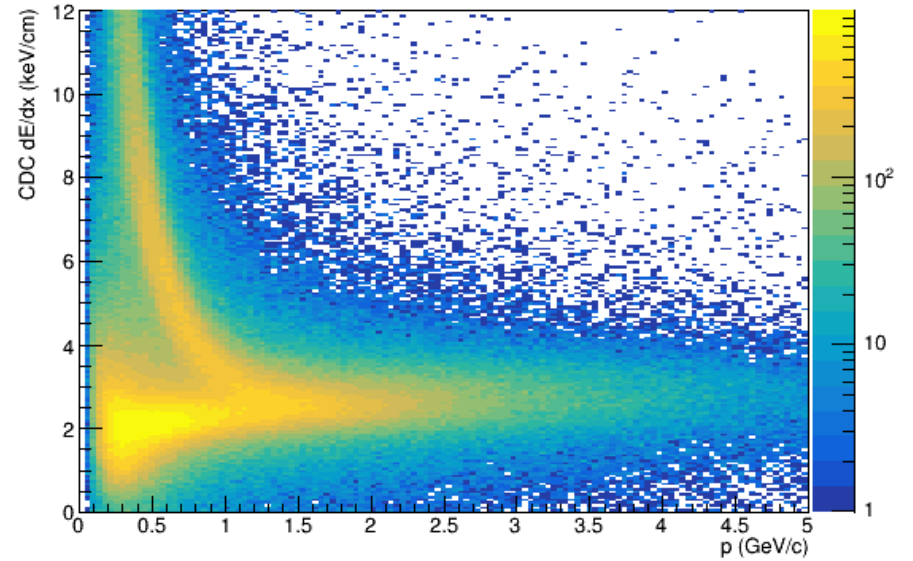


Run 31001

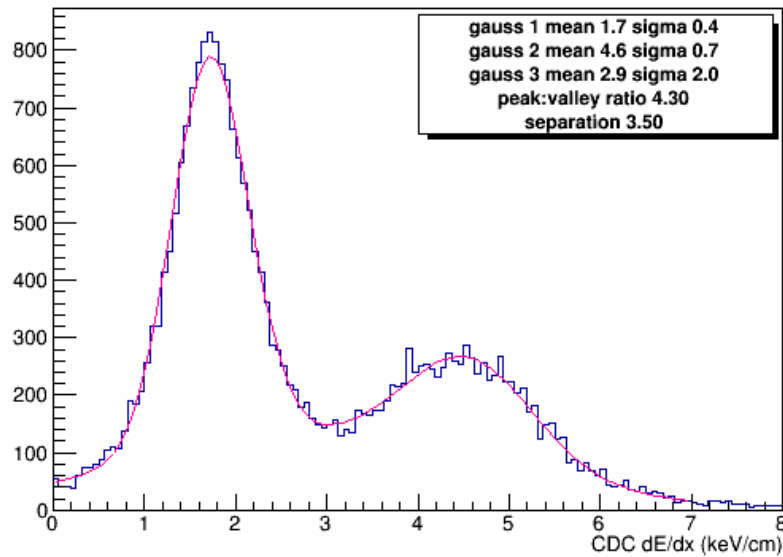
q<sup>+</sup> Original dE/dx code



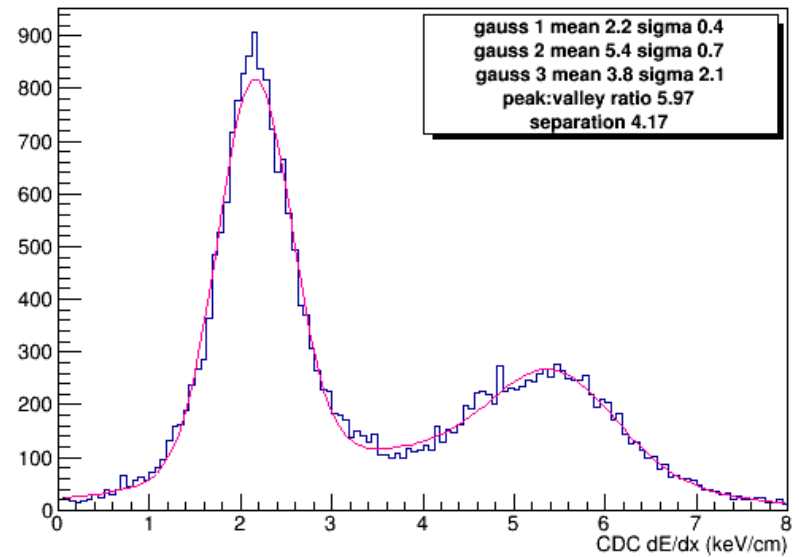
q<sup>+</sup> dE/dx truncation 20%



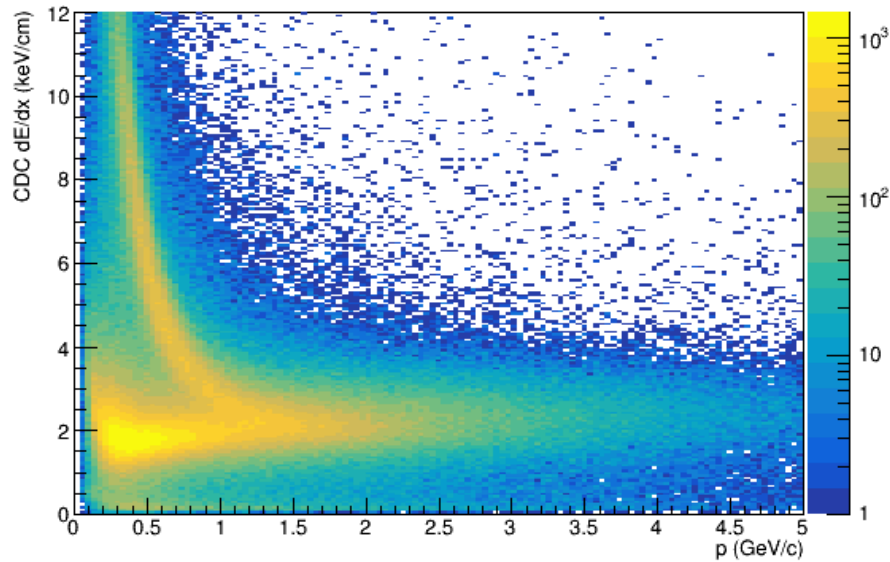
Projection for p=0.60 to 0.64 GeV/c



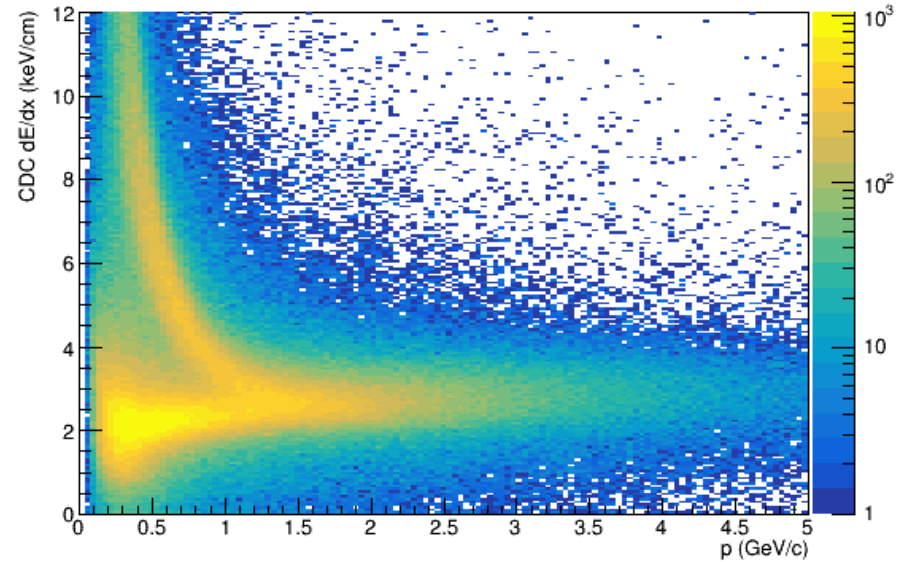
Projection for p=0.60 to 0.64 GeV/c



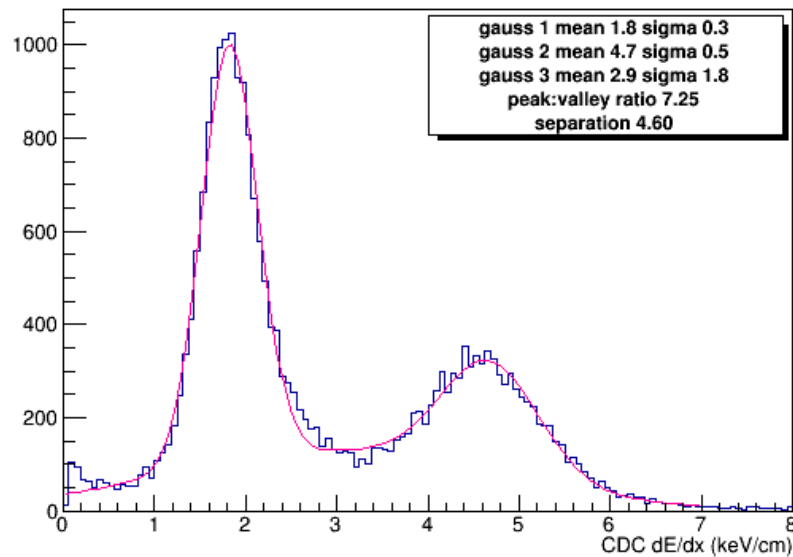
Run 30570  $q^+$  dE/dx using peak height instead of integral



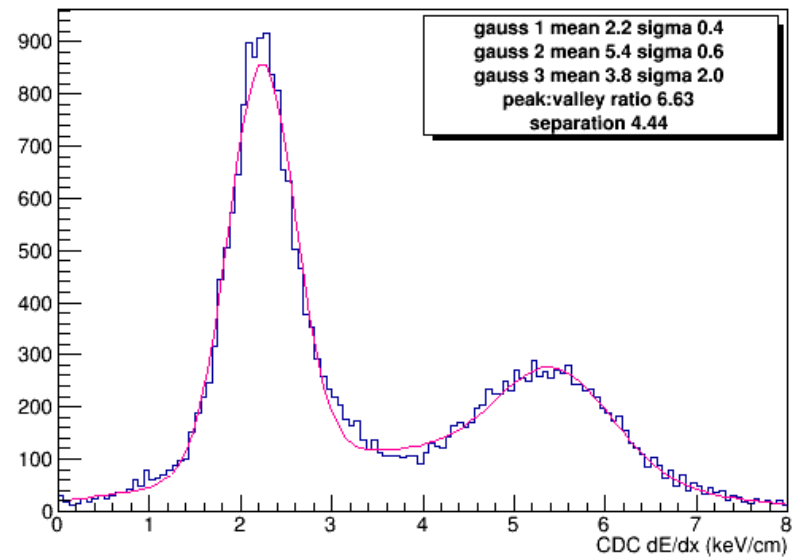
$q^+$  dE/dx using integral, truncation 20%



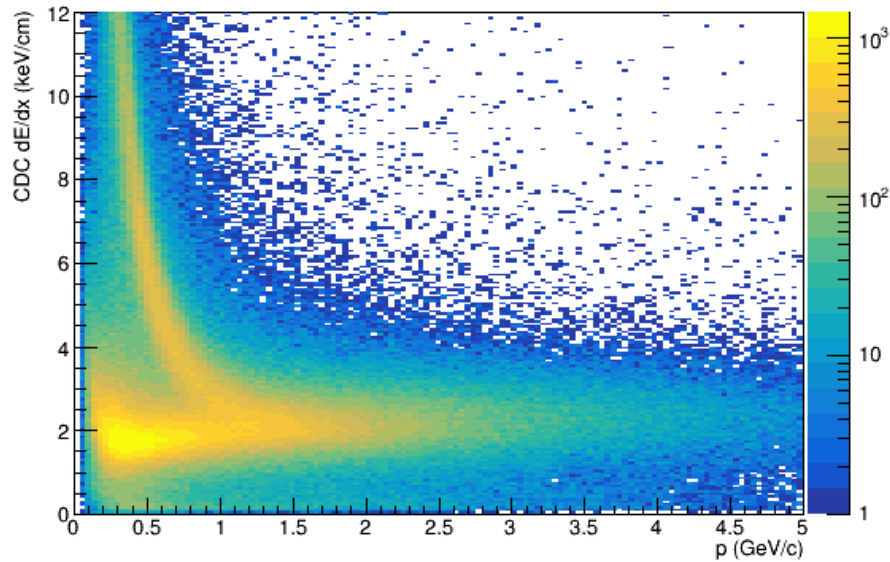
Projection for  $p=0.60$  to  $0.64$  GeV/c



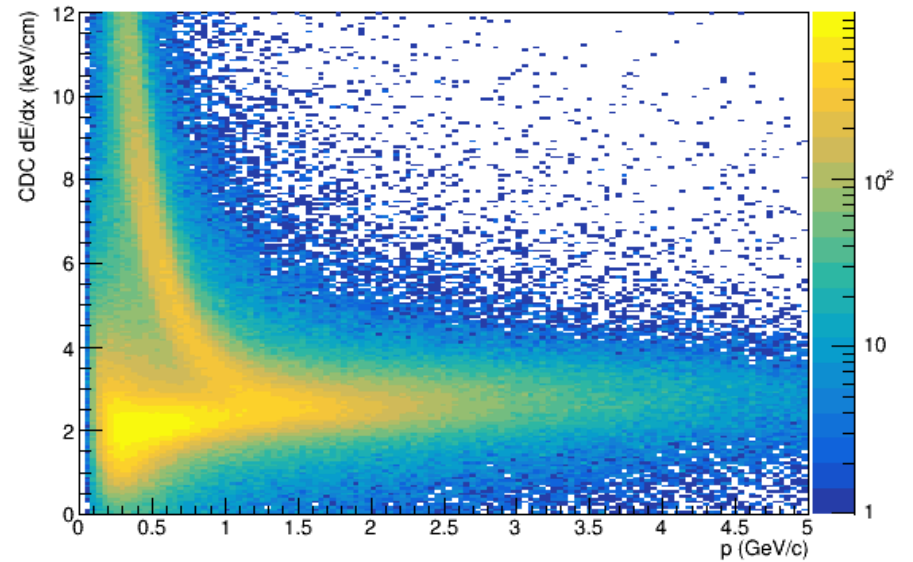
Projection for  $p=0.60$  to  $0.64$  GeV/c



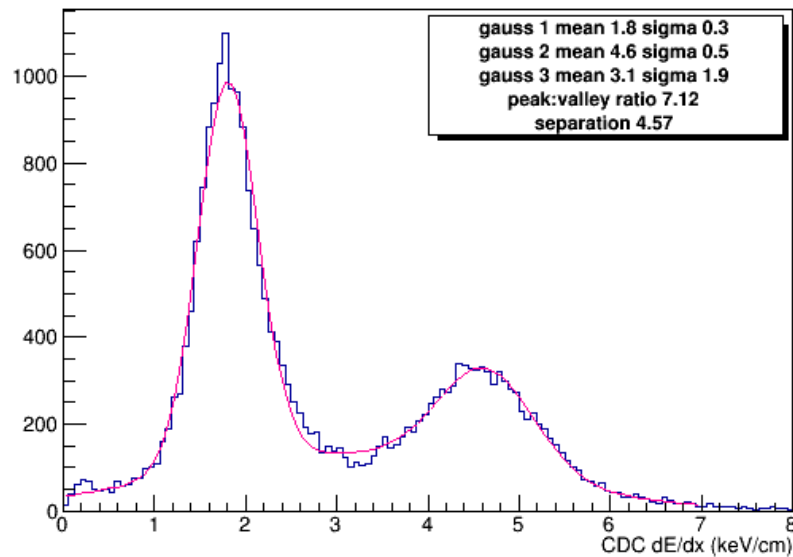
Run 31001  $q^+$  dE/dx using peak height instead of integral



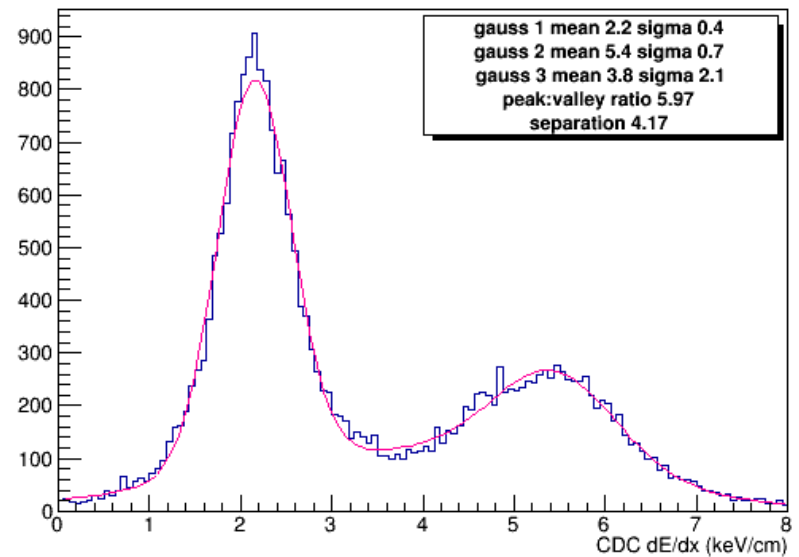
$q^+$  dE/dx using integral, truncation 20%



Projection for  $p=0.60$  to  $0.64$  GeV/c

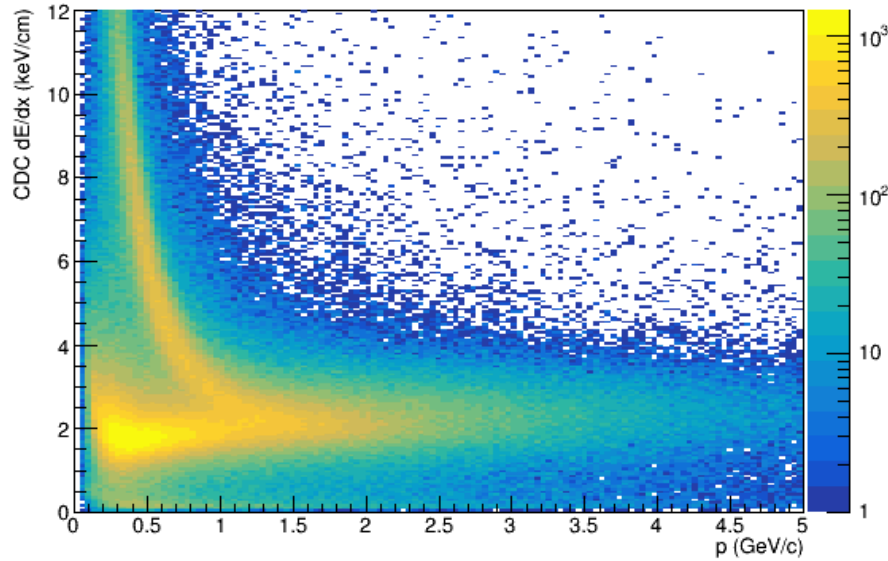


Projection for  $p=0.60$  to  $0.64$  GeV/c

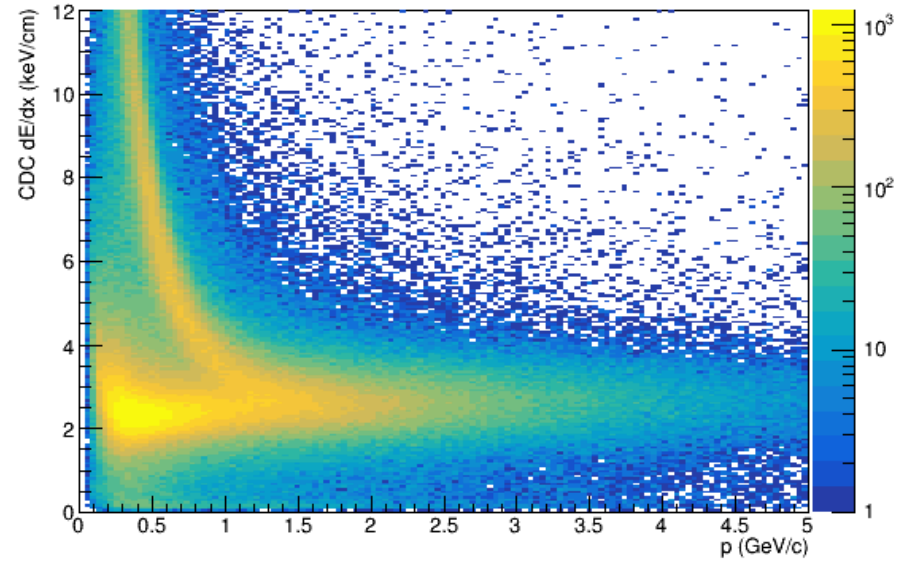


Run 30570

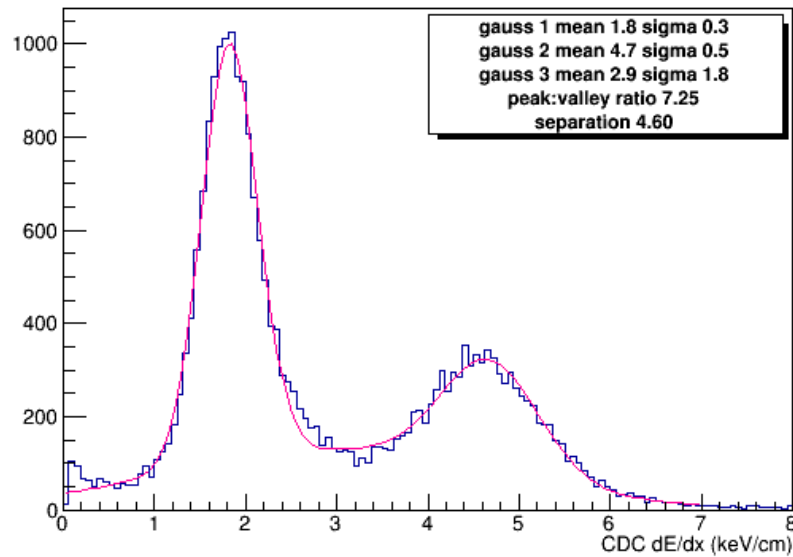
$q^+$  dE/dx using peak height



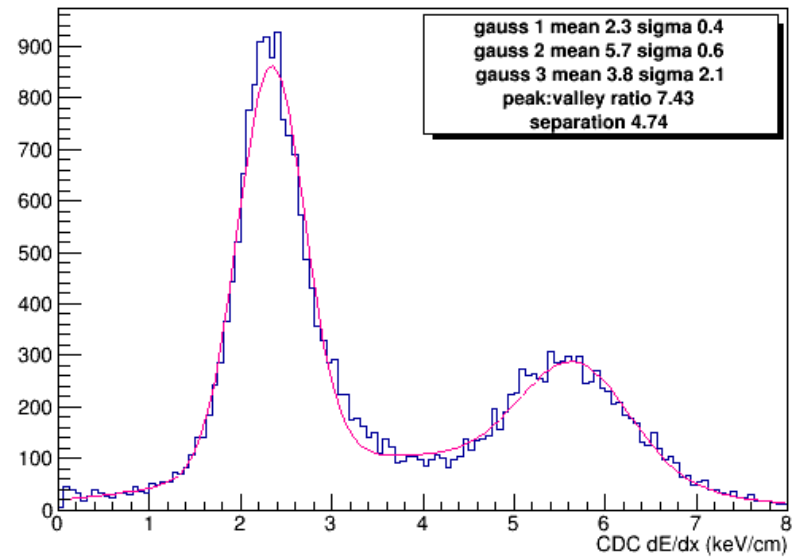
$q^+$  dE/dx using peak height, truncation 20%



Projection for  $p=0.60$  to  $0.64$  GeV/c

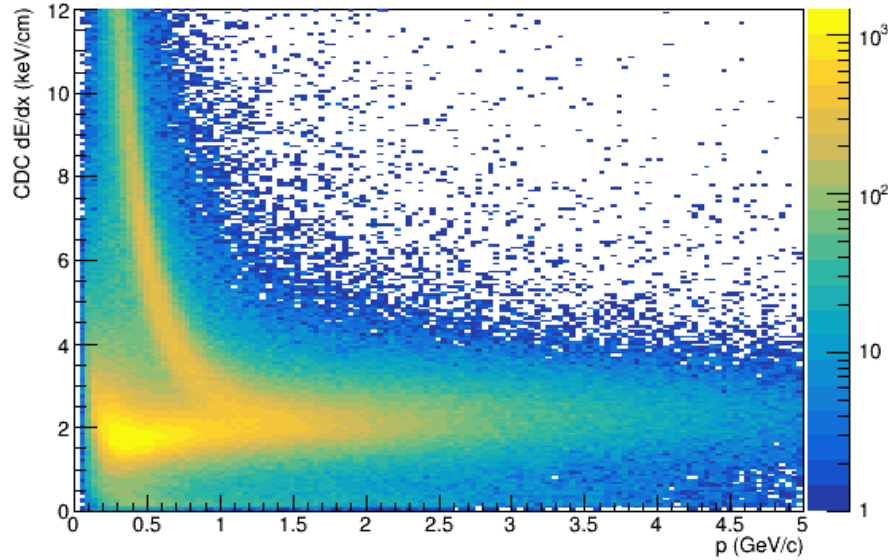


Projection for  $p=0.60$  to  $0.64$  GeV/c

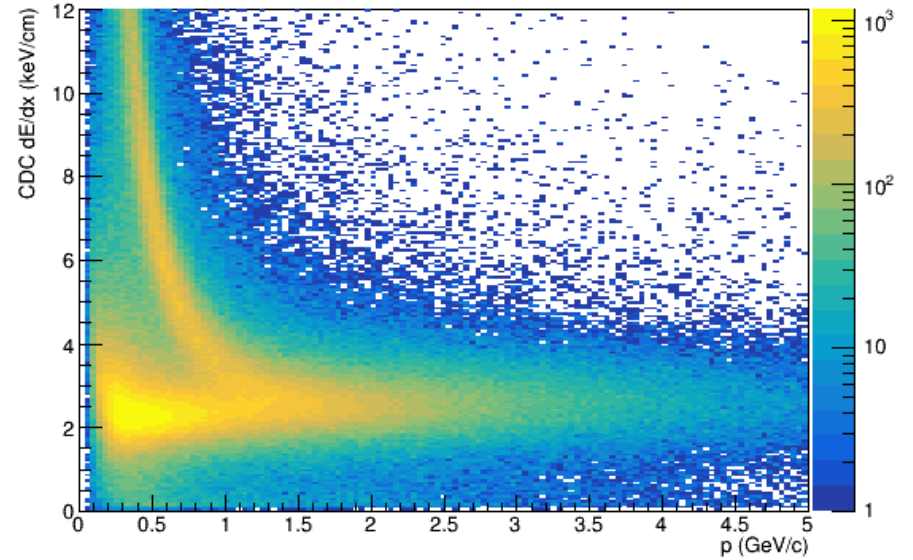


Run 31001

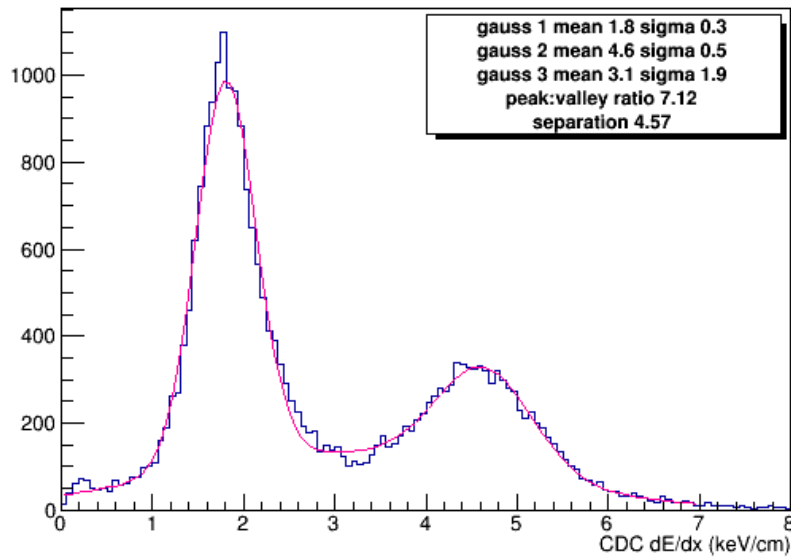
$q^+$  dE/dx using peak height



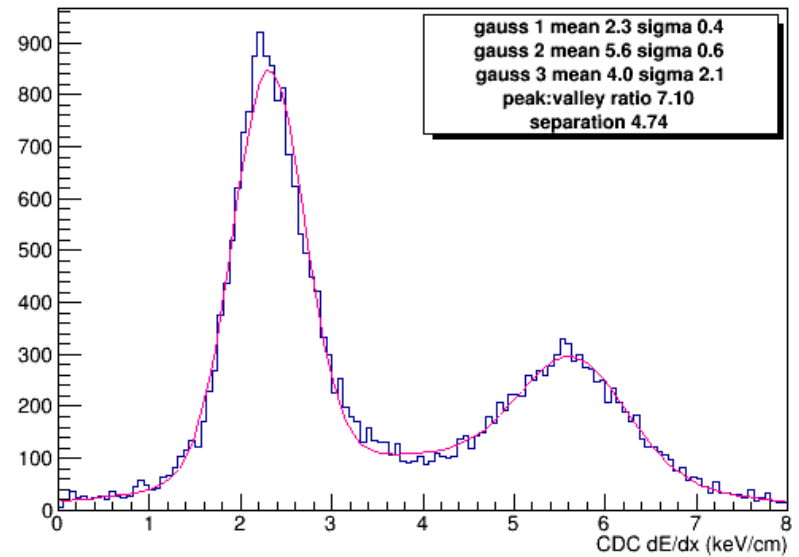
$q^+$  dE/dx using peak height, truncation 20%



Projection for  $p=0.60$  to  $0.64$  GeV/c



Projection for  $p=0.60$  to  $0.64$  GeV/c



Compare the two later runs with similar conditions:  
5mm collimator, 58um diamond 1350A solenoid

<b>Run</b>	<b>Event rate</b>	<b>dE/dx from integral, 50% trunc, Separation</b>	<b>dE/dx from integral, 20% trunc, Separation</b>	<b>dE/dx from amplitude, 50% trunc, Separation</b>	<b>dE/dx from amplitude, 20% trunc, Separation</b>
30570	33kHz	3.8	4.4	4.6	4.7
31001	50kHz	3.5	4.2	4.6	4.7