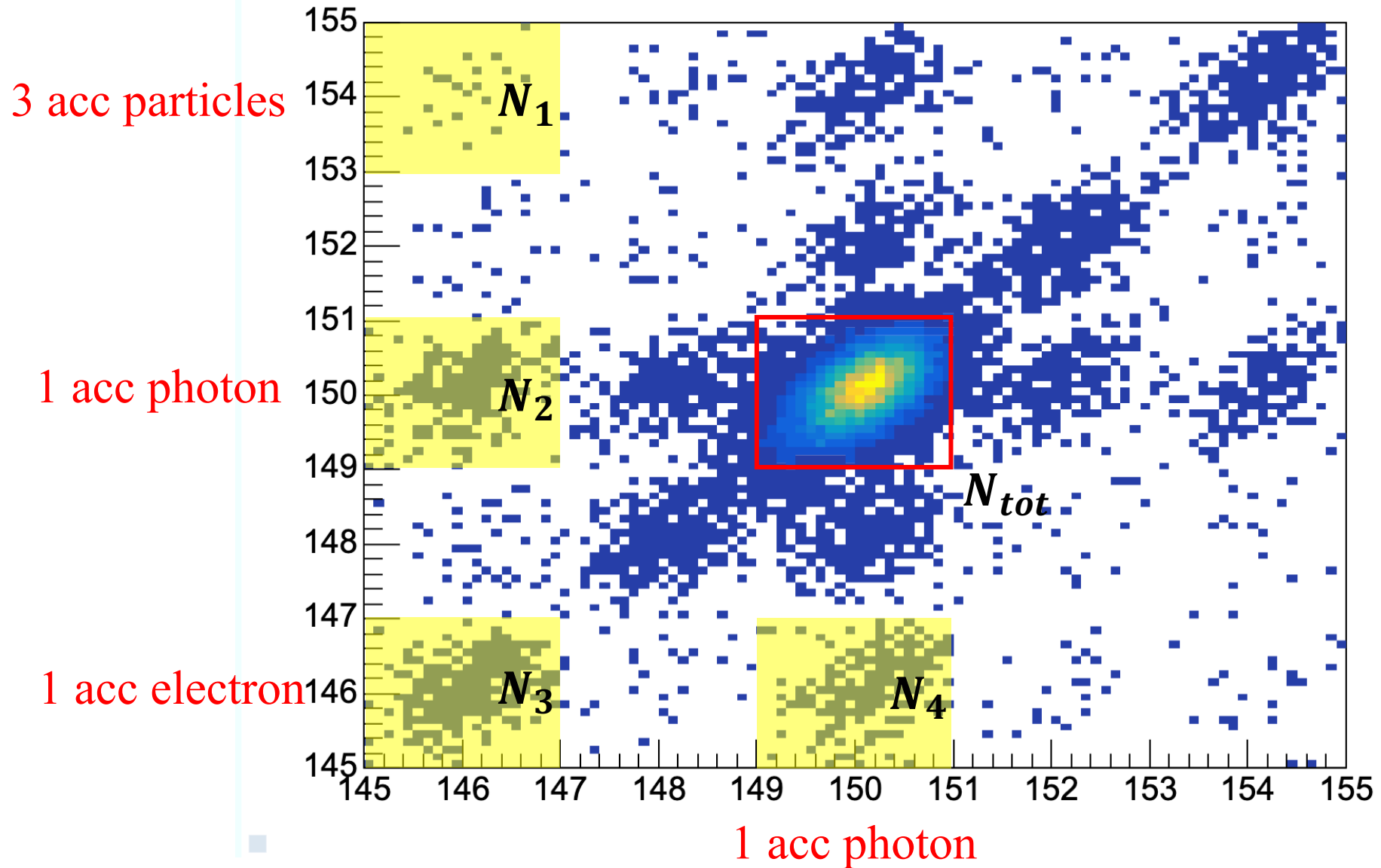


Outline

1. Charge normalized π^0 yield results
2. Charge normalized DVCS yield results
3. A summary about the previous barriers

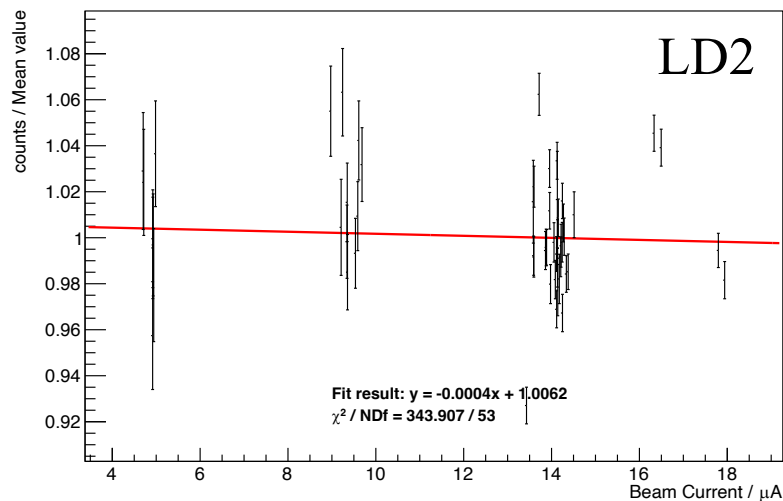
1. π^0 *clusT*₁ vs. *clusT*₂

clusT1 vs. clusT2 for run 2731



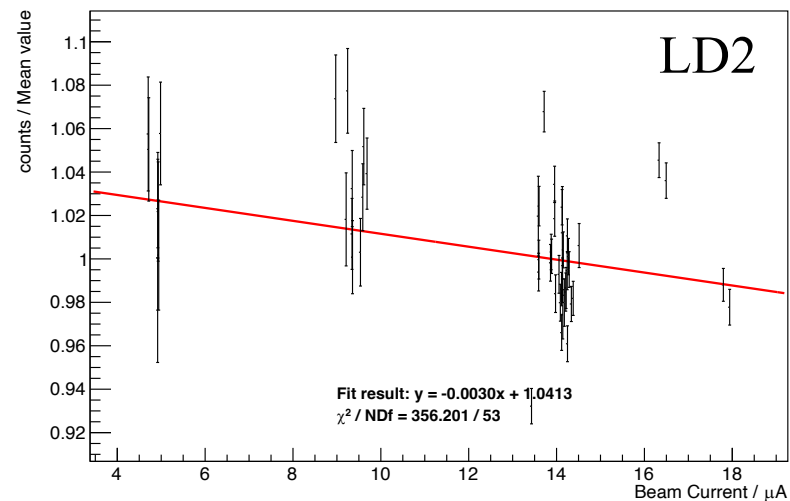
N_{tot} (raw)

Charge normalized pi0 events(LD2) / Mean value

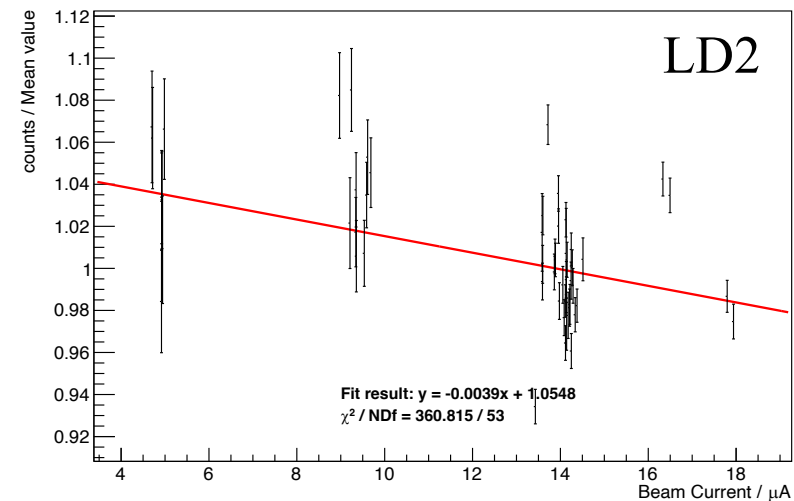
 $N_{tot} - N_3 - N_4 + N_1$

Mongi's thesis

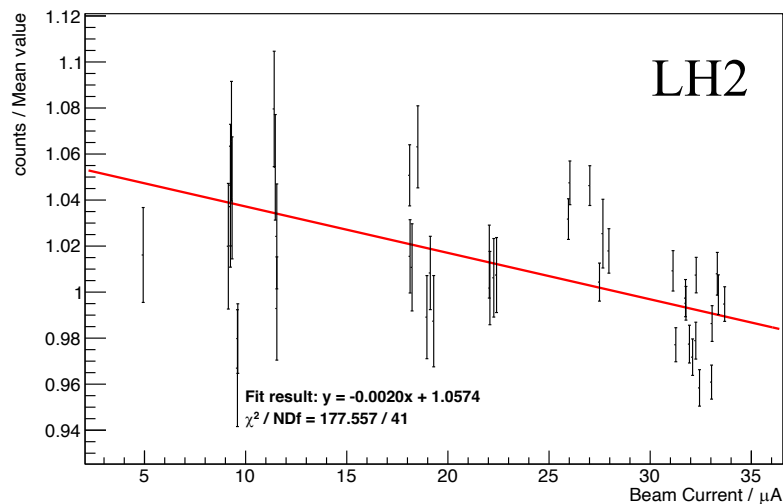
Charge normalized pi0 events(LD2) / Mean value

 $N_{tot} - N_2 - N_3 - N_4 + 2N_1$

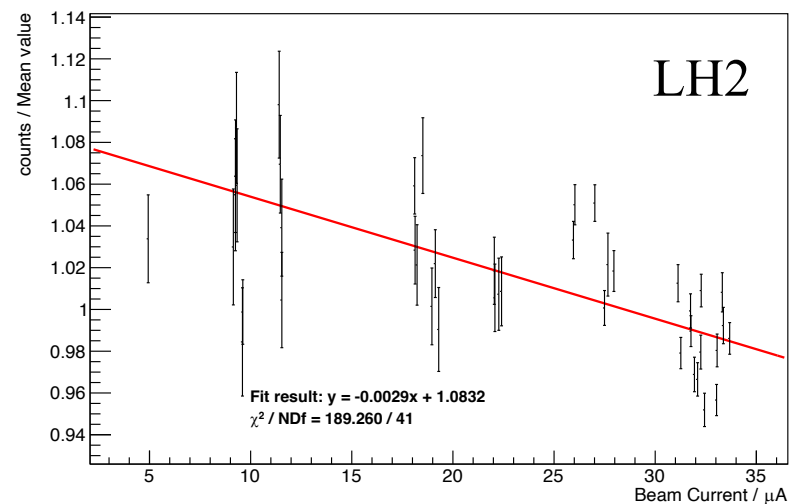
Charge normalized pi0 events(LD2) / Mean value



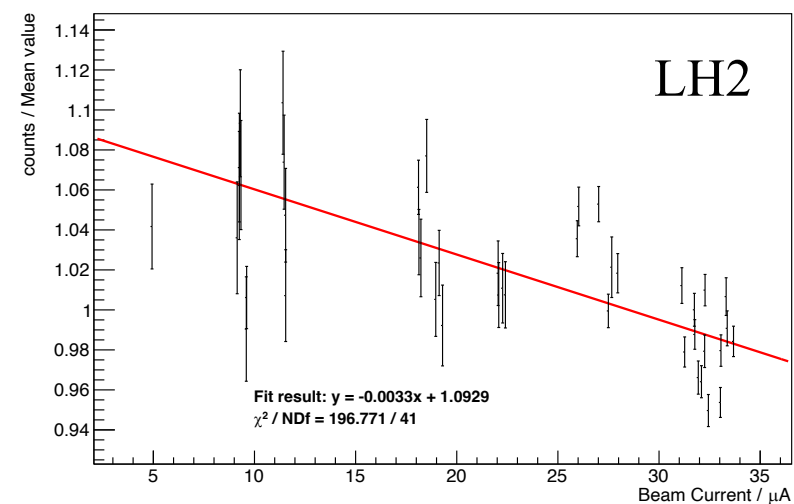
Charge normalized pi0 events(LH2) / Mean value



Charge normalized pi0 events(LH2) / Mean value



Charge normalized pi0 events(LH2) / Mean value

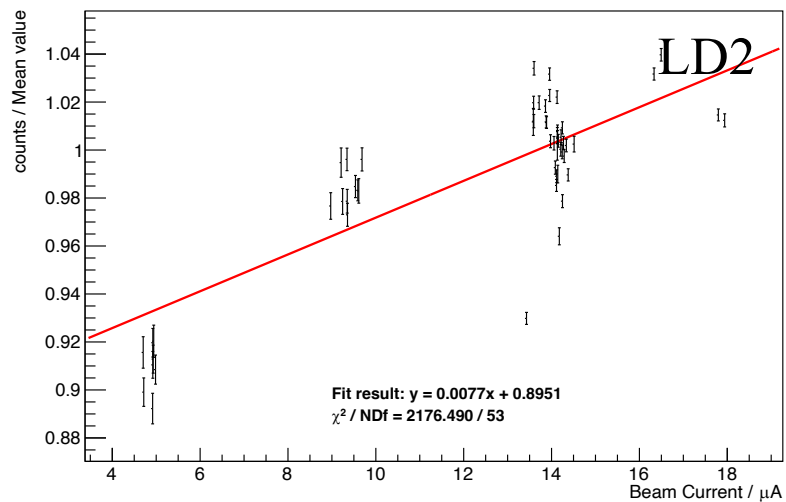


2. DVCS charge normalized yield

- Only ps6 production good runs (KinC_x50_4)
- Cluster time window: $145 < clusT < 155$
- DVCS event selection: Good timing & $E_{max} > 1.2 / 1.5 / 2.0$
- Using the correct clusters:
 - First “nclust” values in the array
 - Ignore nclust=0 events (The main barrier in previous analysis)

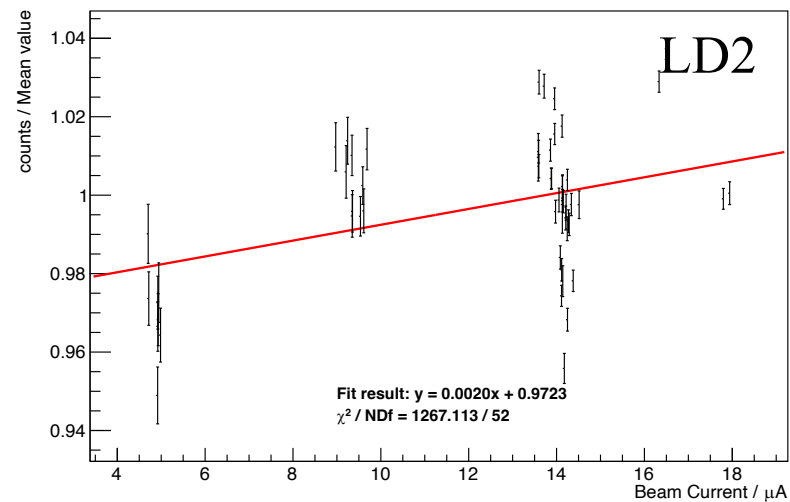
$E_{max} > 1.2$

Charge normalized DVCS events(LD2) / Mean value



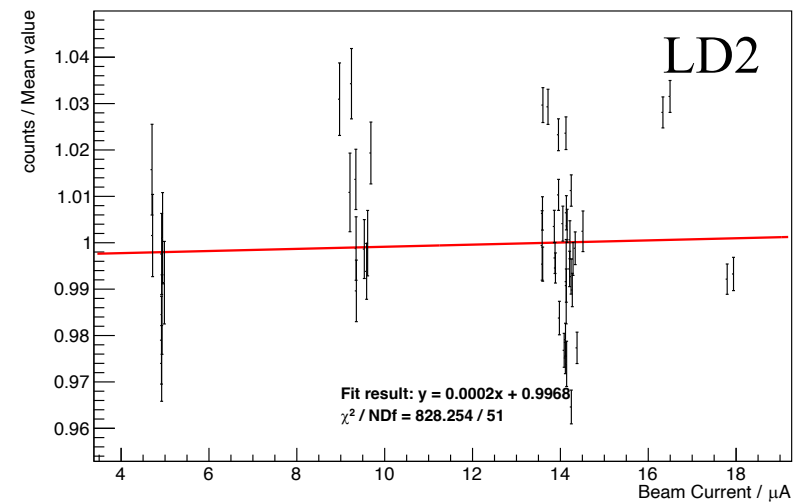
$E_{max} > 1.5$

Charge normalized DVCS events(LD2) / Mean value

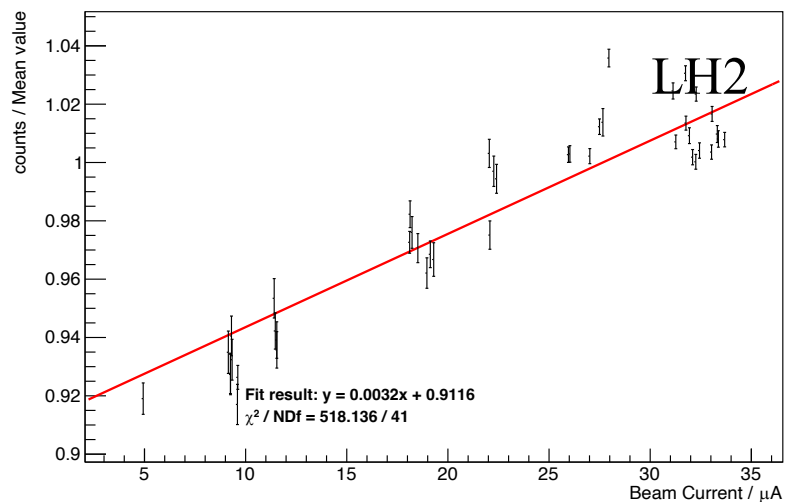


$E_{max} > 2.0$

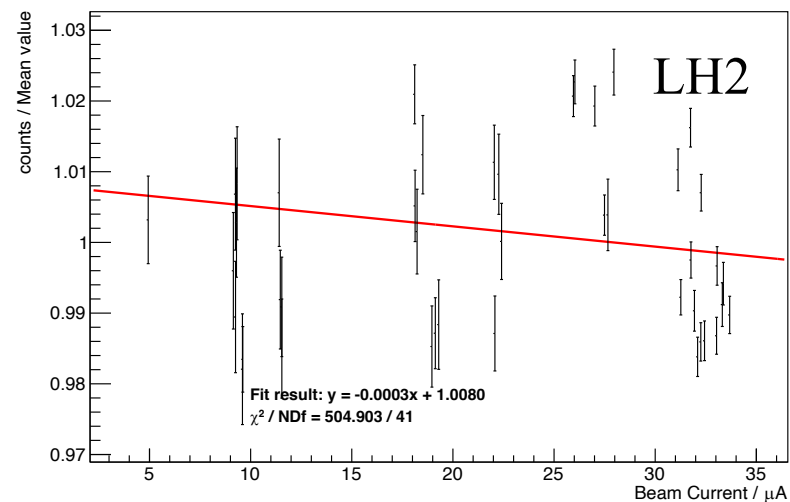
Charge normalized DVCS events(LD2) / Mean value



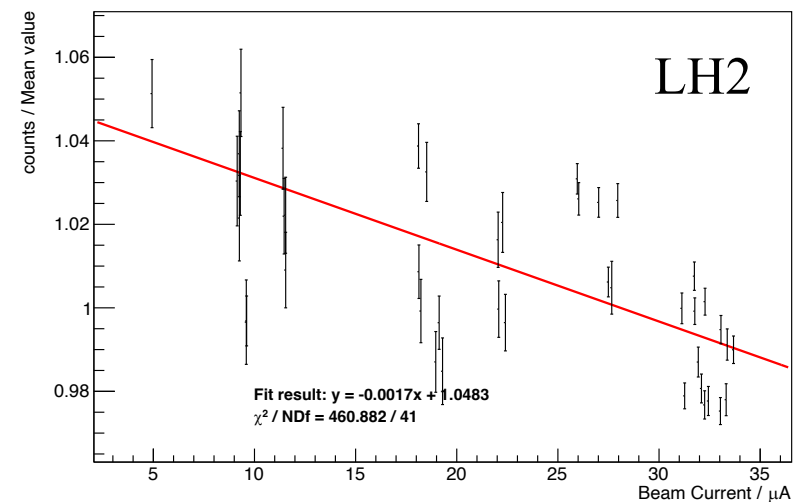
Charge normalized DVCS events(LH2) / Mean value



Charge normalized DVCS events(LH2) / Mean value

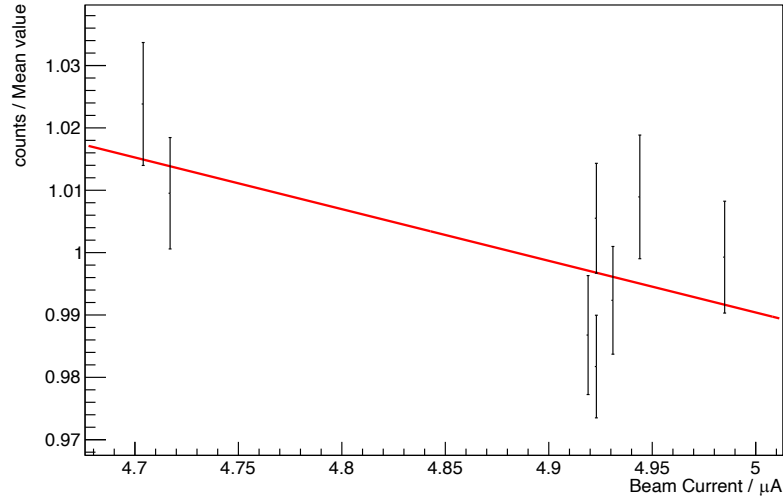


Charge normalized DVCS events(LH2) / Mean value



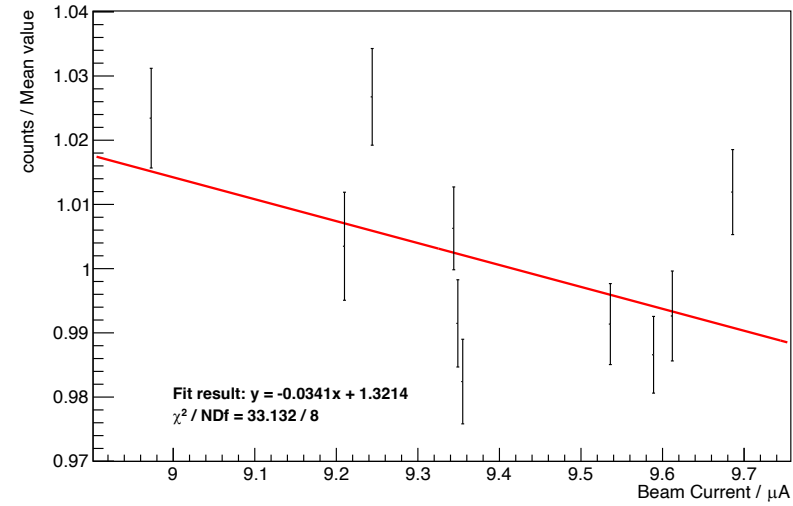
$5\mu A$

Charge normalized DVCS events(LD2) / Mean value



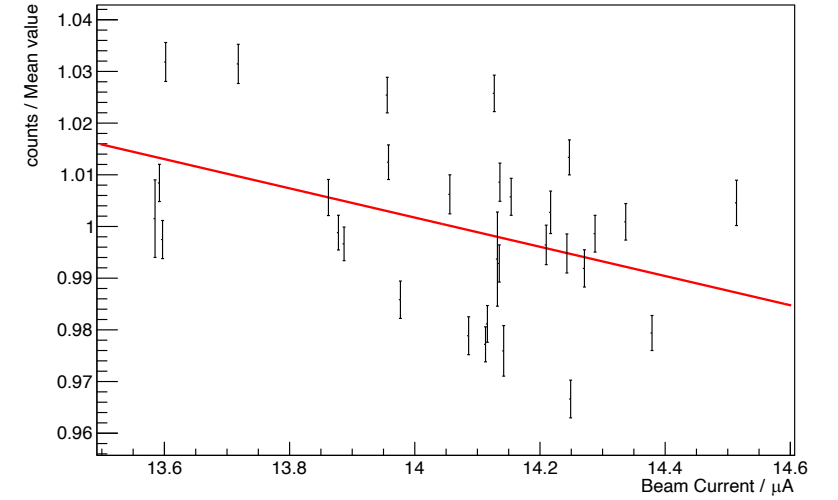
$10\mu A$

Charge normalized DVCS events(LD2) / Mean value

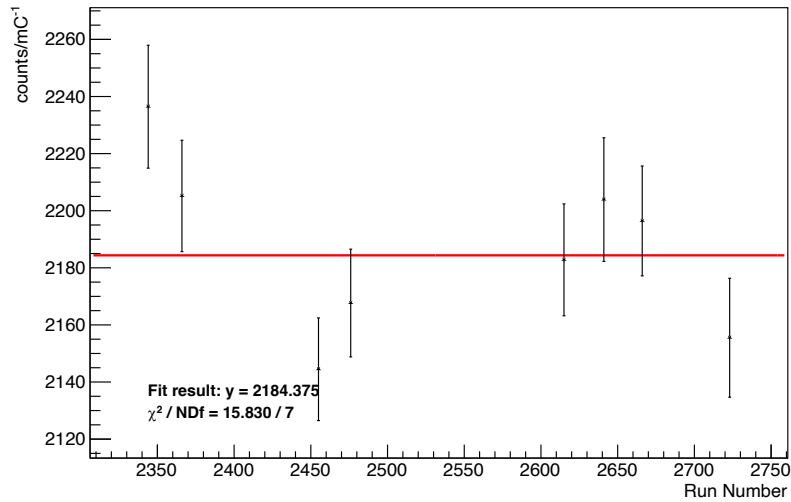


$15\mu A$

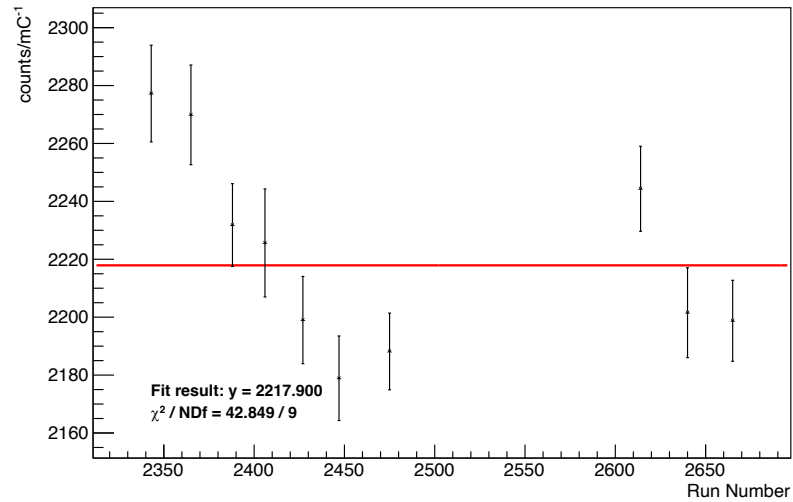
Charge normalized DVCS events(LD2) / Mean value



Charge normalized DVCS events(LD2)



Charge normalized DVCS events(LD2)



Charge normalized DVCS events(LD2)

