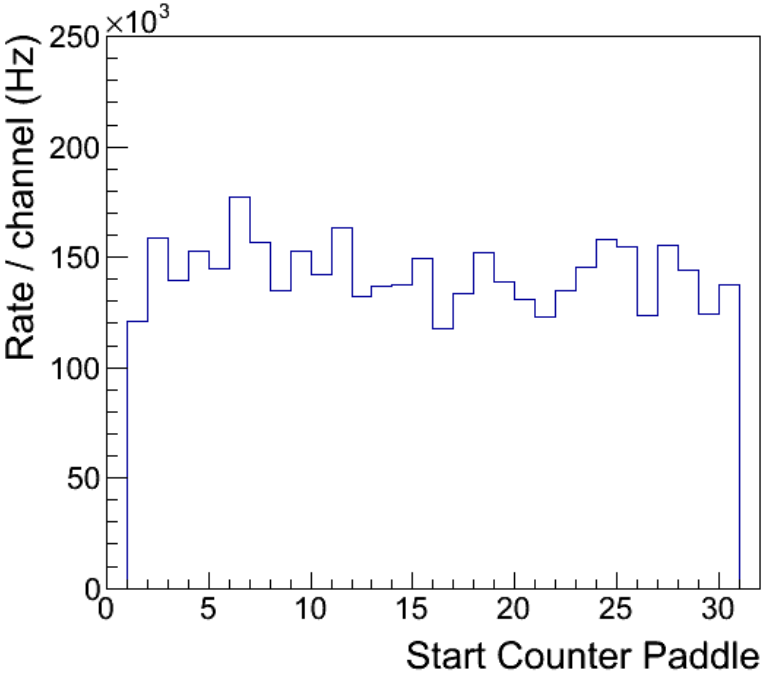
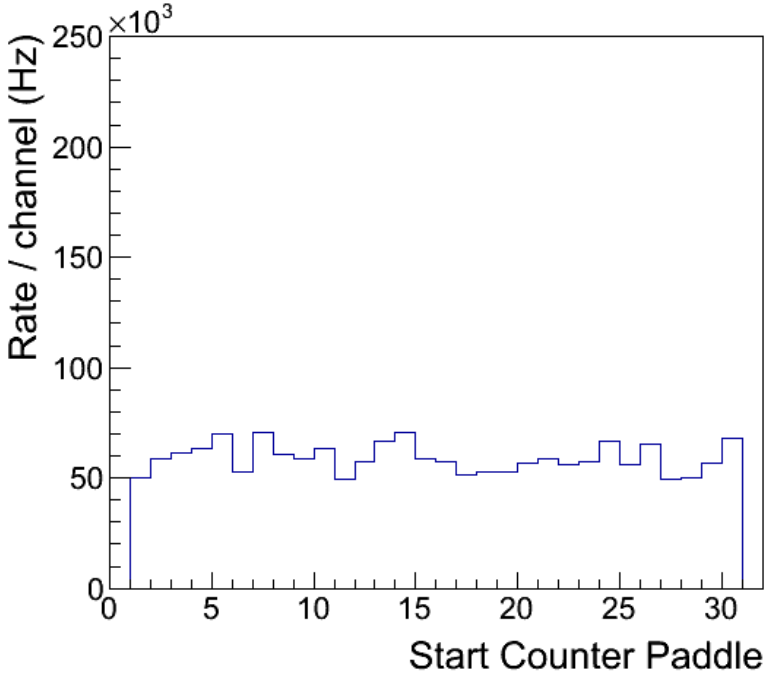
Preliminary Rate Estimates

- Generated 5 billion beam photons in HDGeant for 1200 A (run 9104) and no field (run 9105) solenoid configurations
  - Assumed 100 nA beam current, 10 um Al radiator
    - BEAM card: 10. 10.5 0.0012 75.00 0.005
  - Normalized to 4.65 x 10^9 photons/sec calculated by Richard Jones (to be documented on wiki)
  - ~10% job failure rate (due to EVIO crashes?)
- Extracted rate estimates per channel for subdetectors from mcsmear output
  - Thresholds for SC and TOF: > 0.5, 1.5 MeV

Start Counter

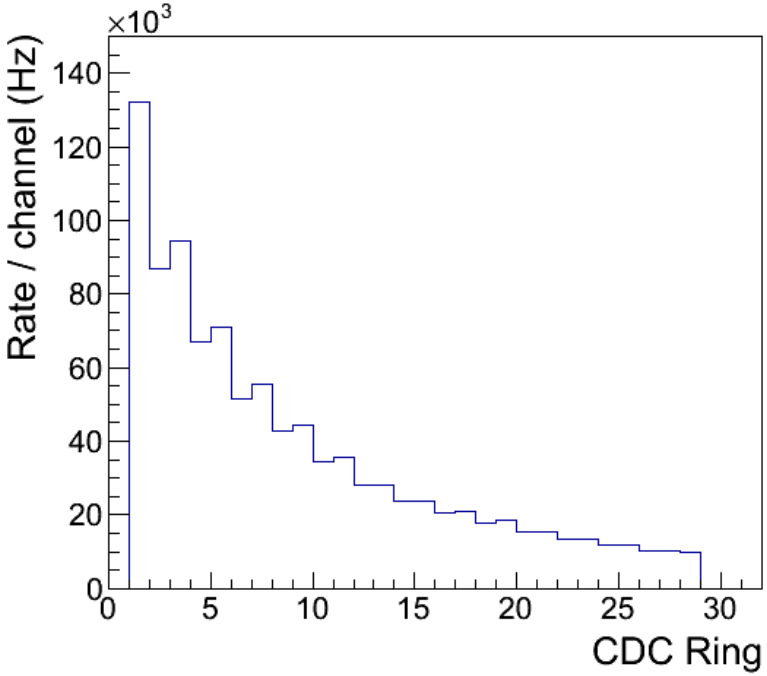


No Solenoid Field

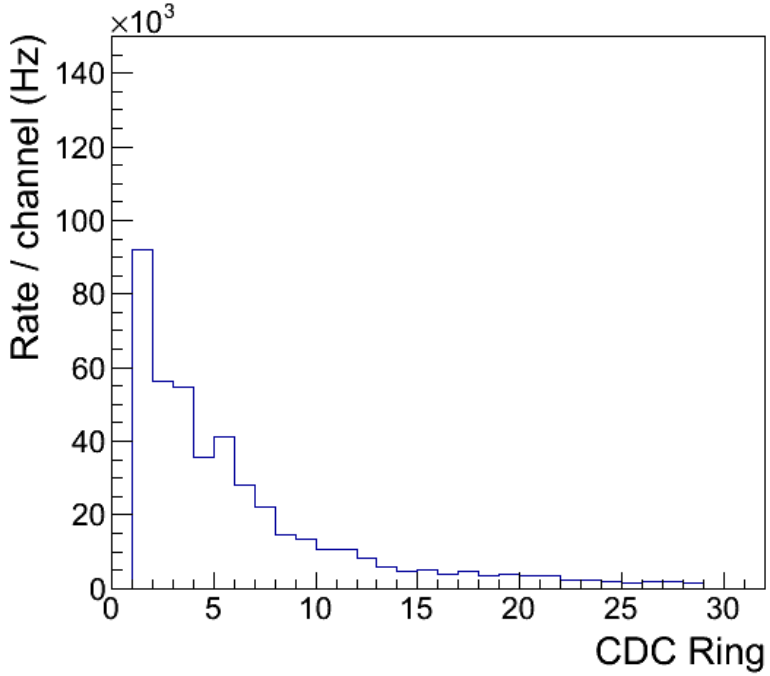


Solenoid @ 1200A

CDC

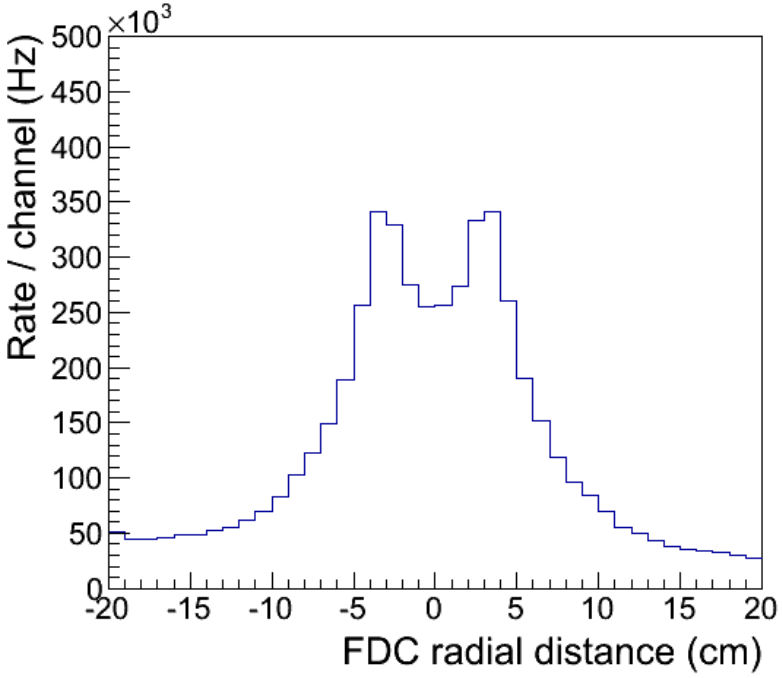


No Solenoid Field

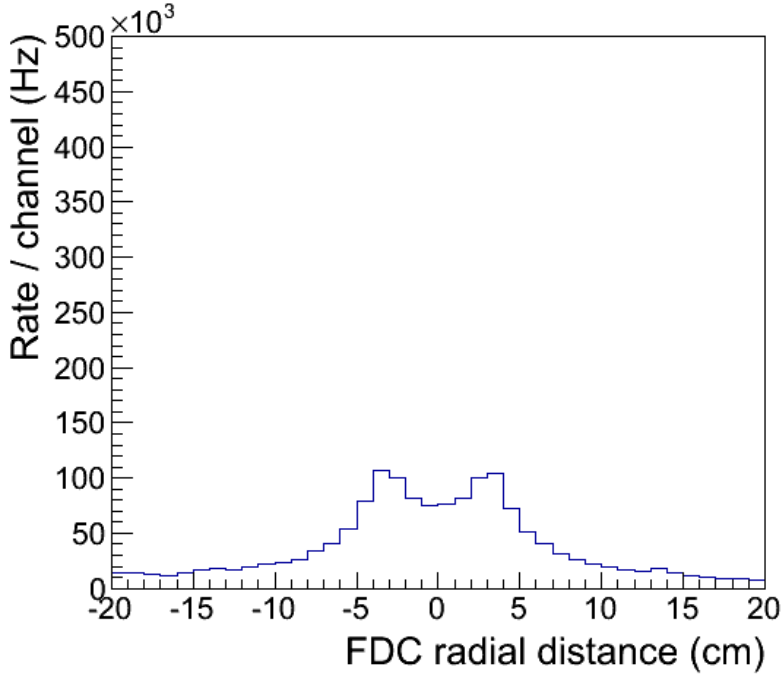


Solenoid @ 1200A

FDC Strips – Package 1

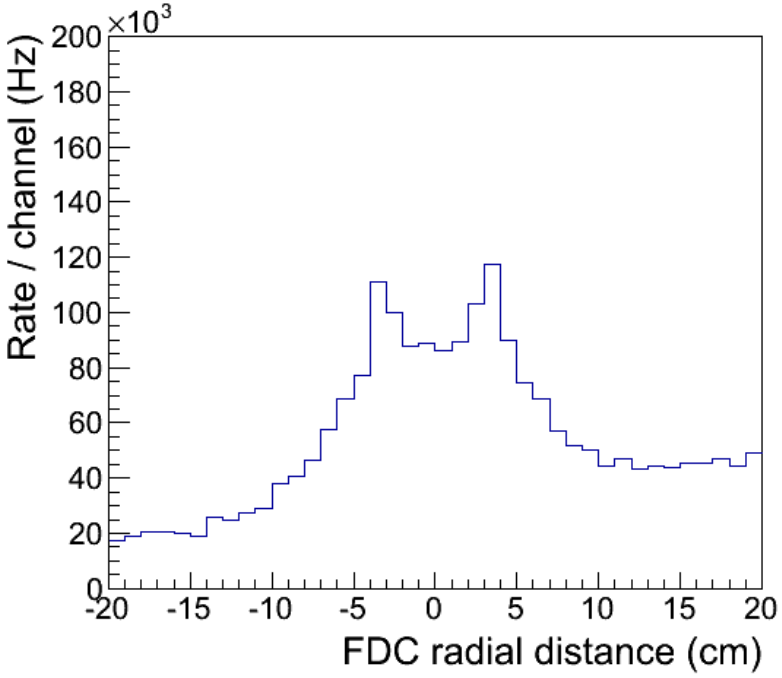


No Solenoid Field

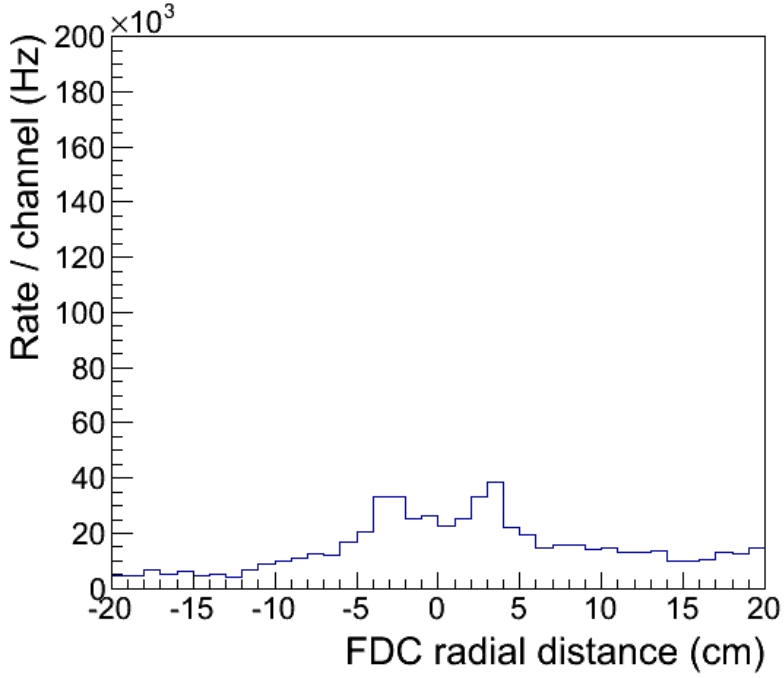


Solenoid @ 1200A

FDC Wires – Package 1

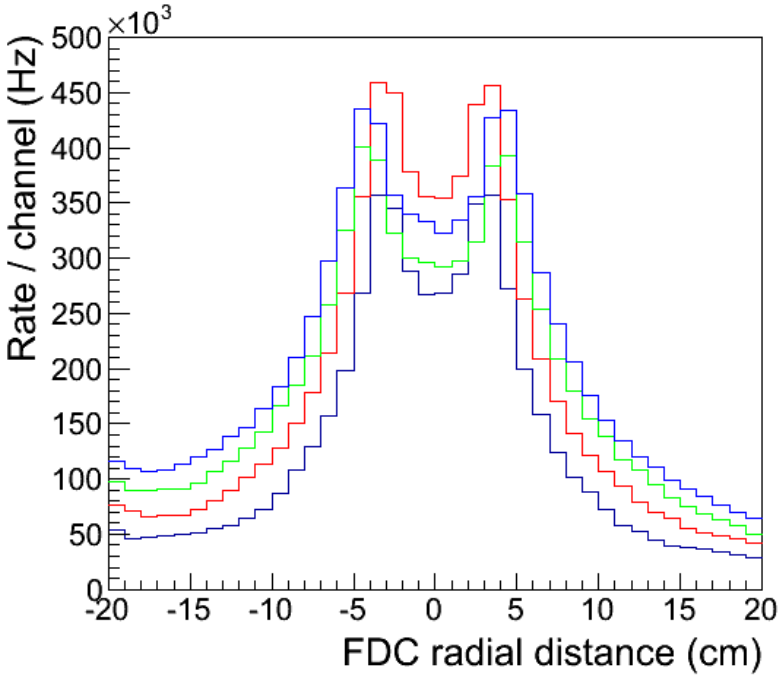


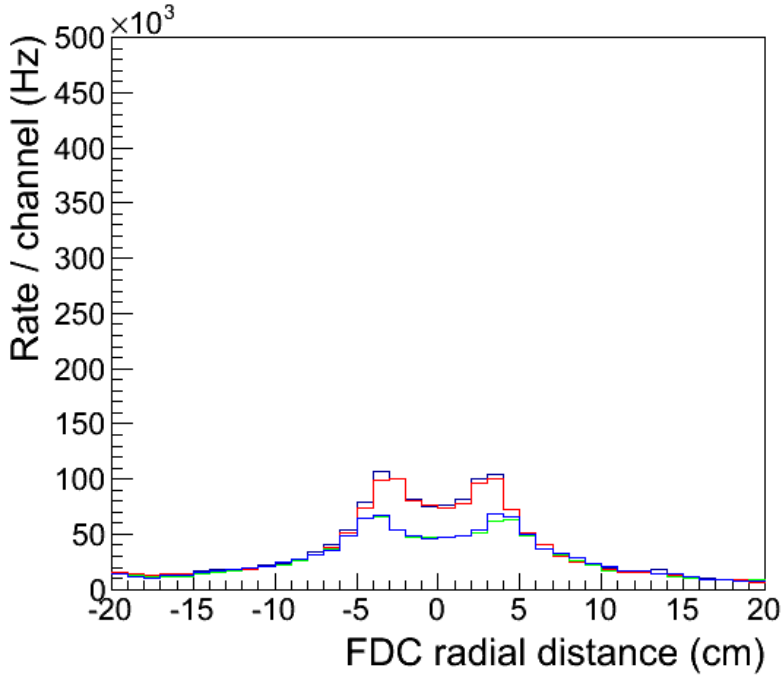
No Solenoid Field



Solenoid @ 1200A

FDC Strips



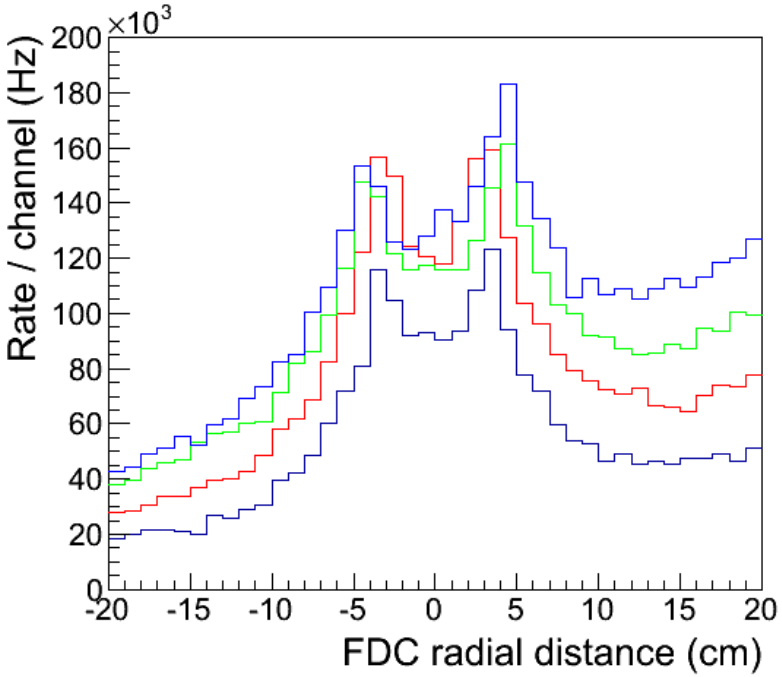


No Solenoid Field

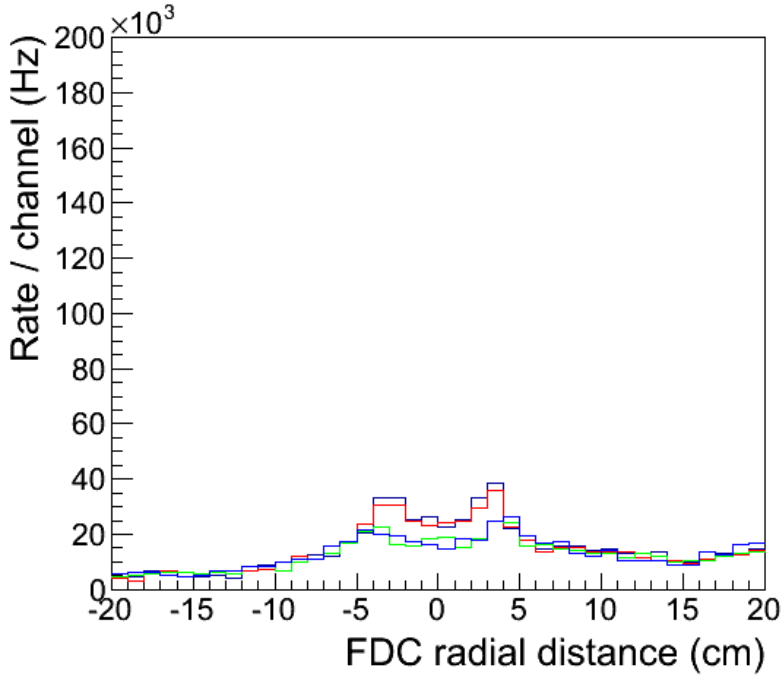
Solenoid @ 1200A

Black – Package 1, Red – Package 2,
Green – Package 3, Blue – Package 4

FDC Wires



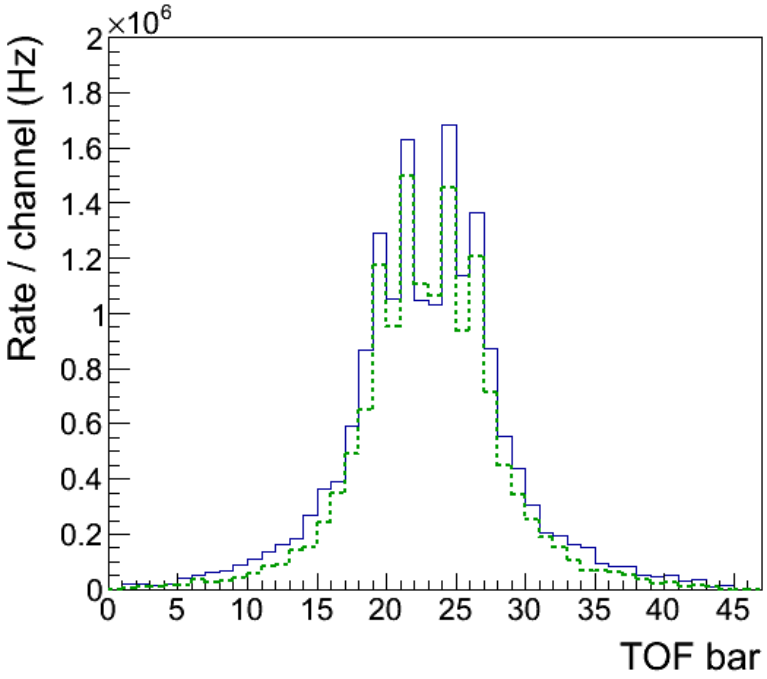
No Solenoid Field

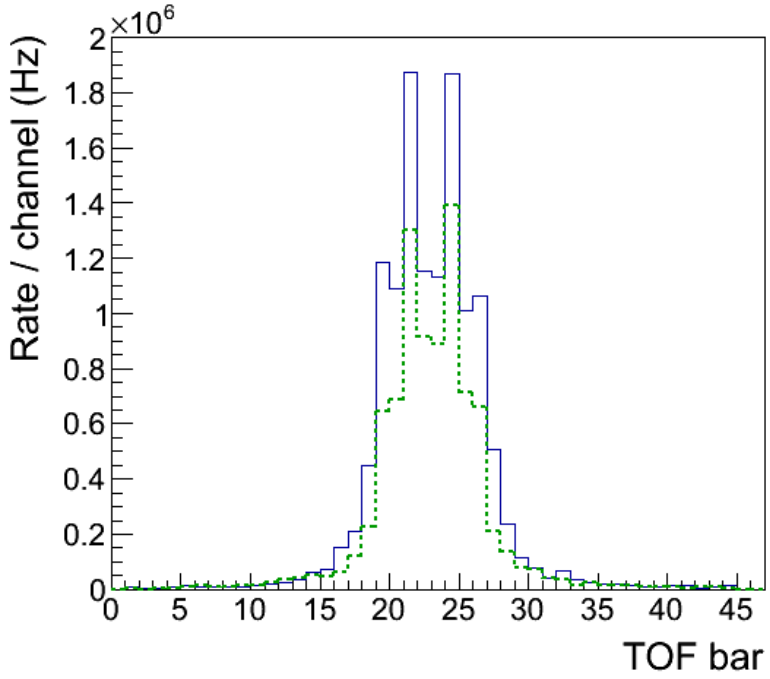


Solenoid @ 1200A

Black – Package 1, Red – Package 2,
Green – Package 3, Blue – Package 4

TOF





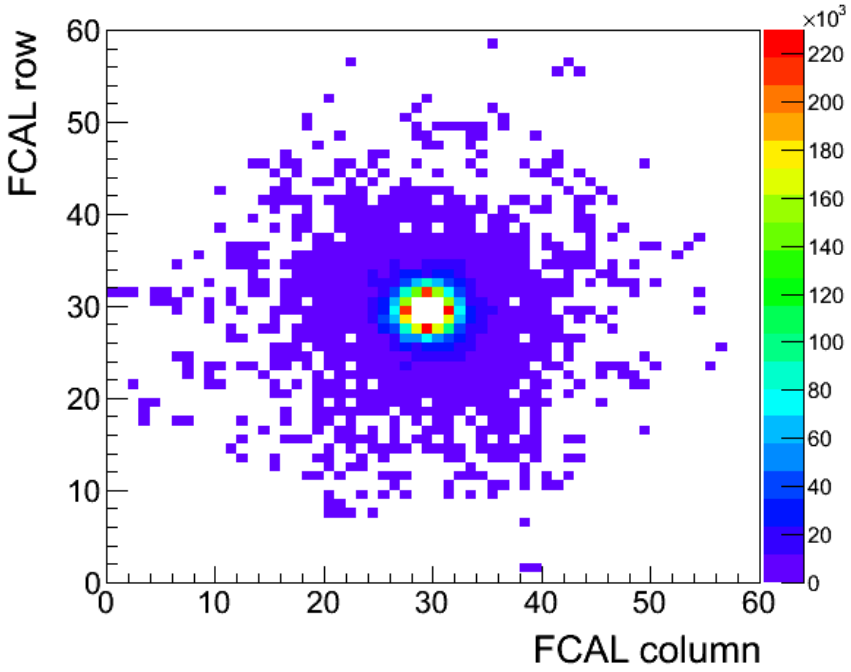
No Solenoid Field

Solenoid @ 1200A

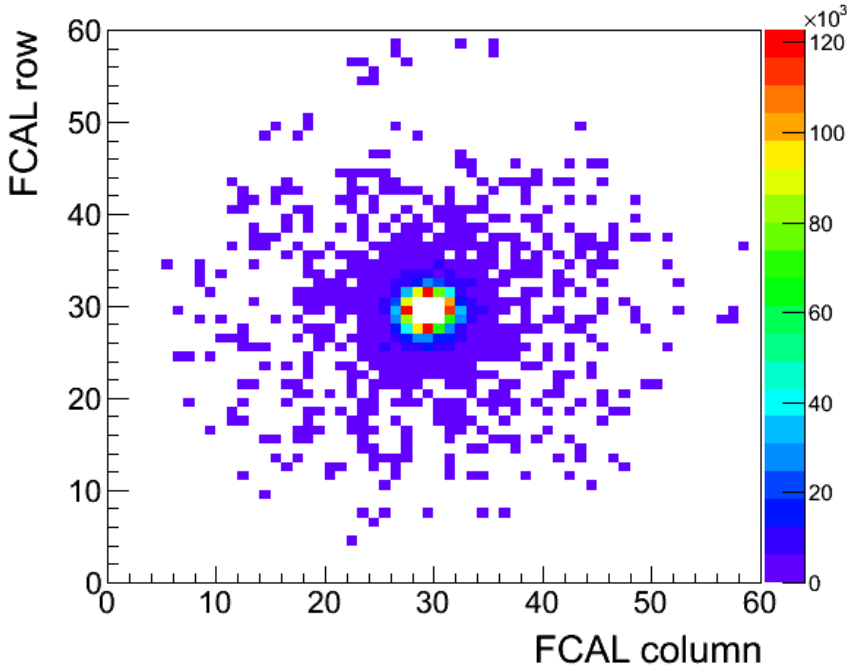
Solid line – Upstream plane

Dashed line – Downstream plane

FCAL

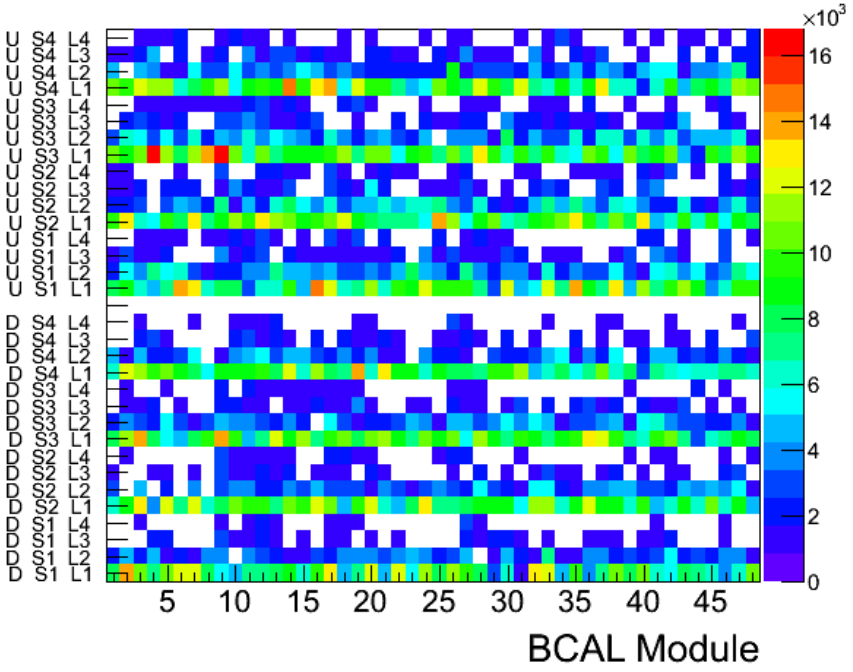


No Solenoid Field

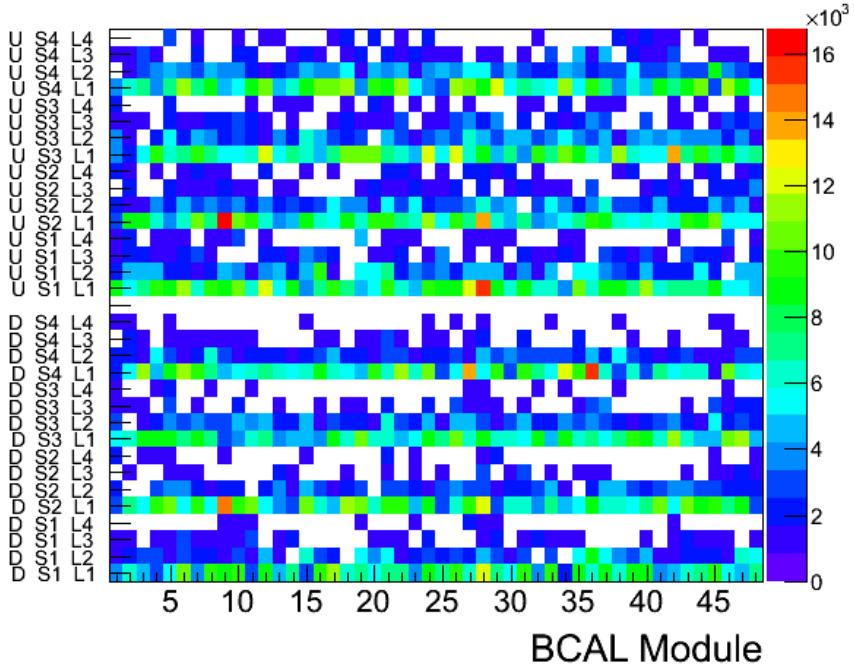


Solenoid @ 1200A

BCAL

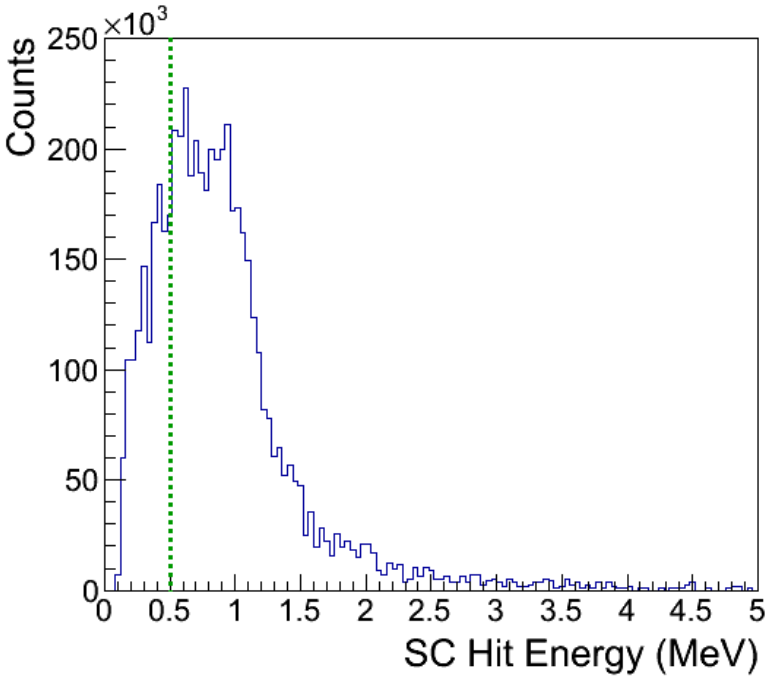


No Solenoid Field

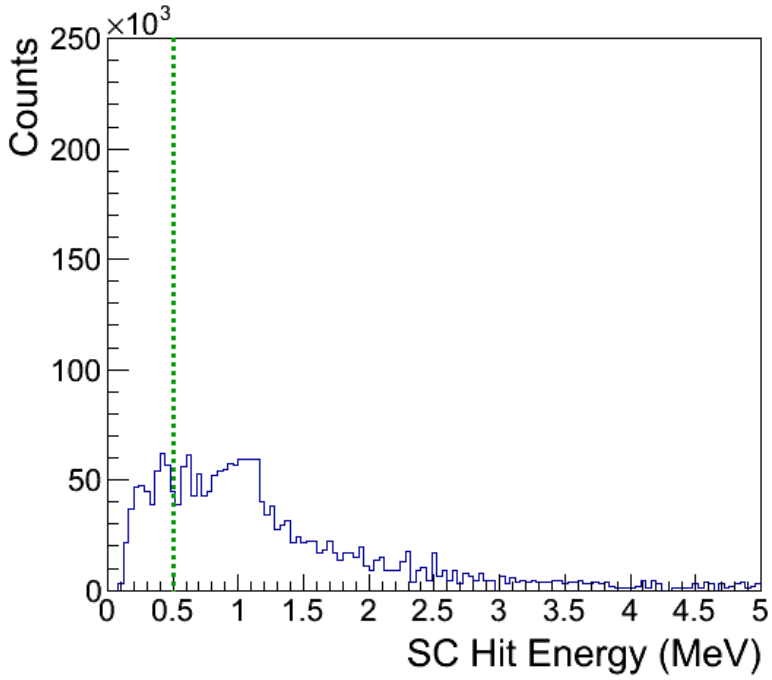


Solenoid @ 1200A

Start Counter Hit Energies

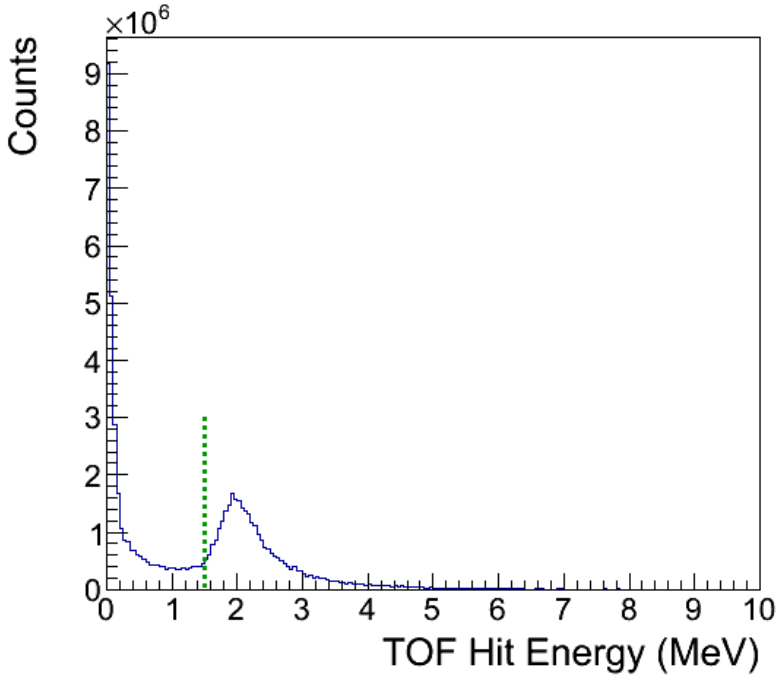


No Solenoid Field

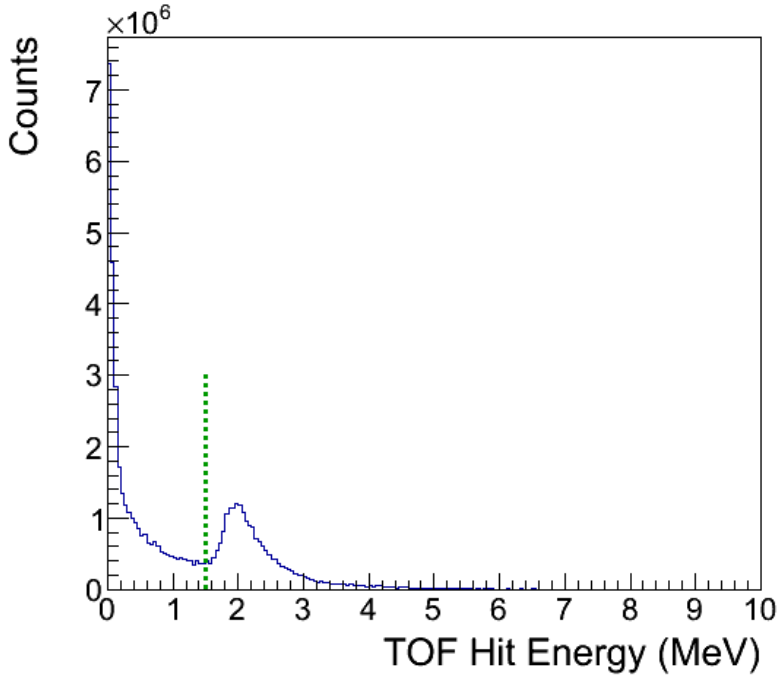


Solenoid @ 1200A

TOF Hit Energies



No Solenoid Field



Solenoid @ 1200A