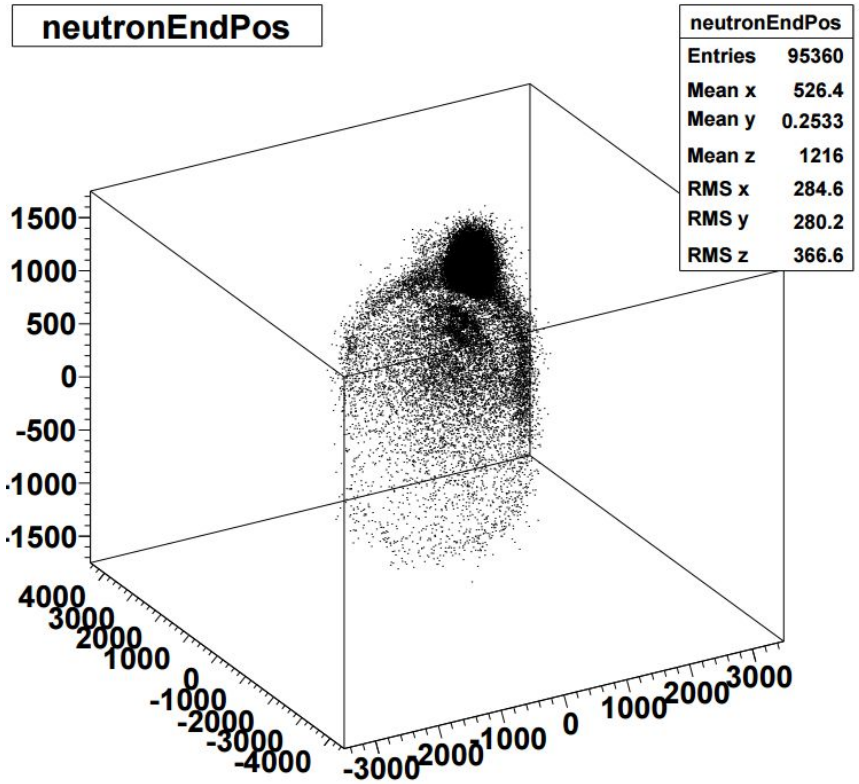
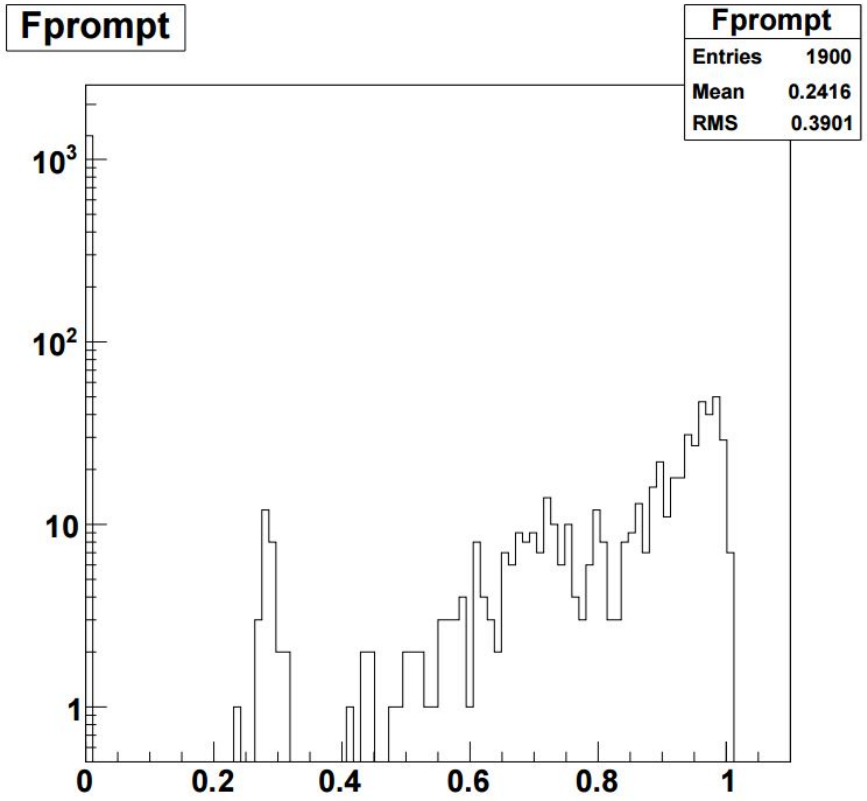
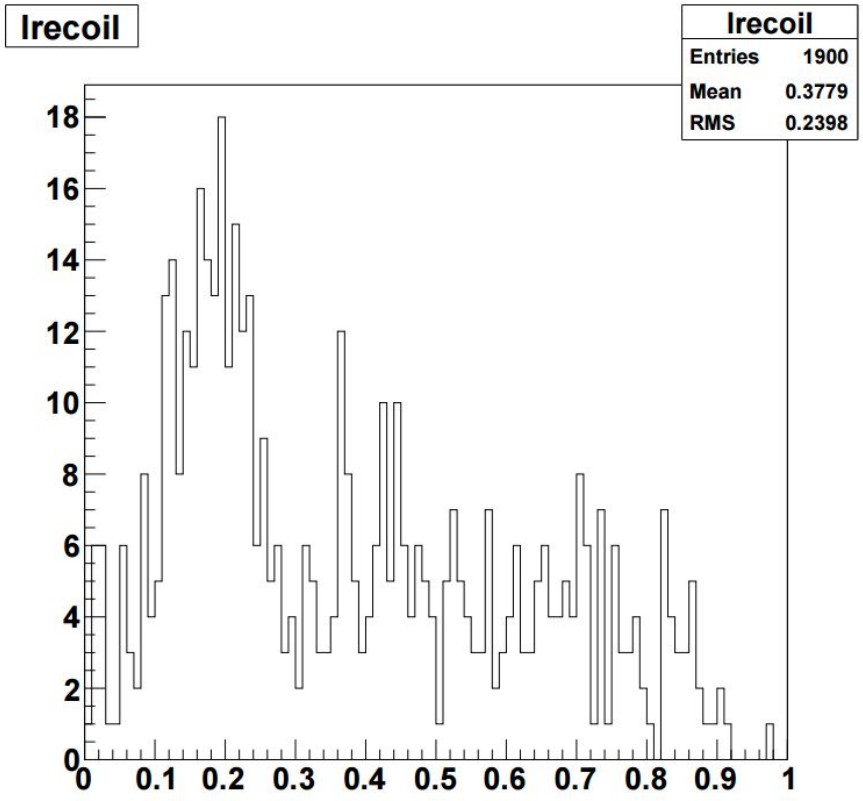
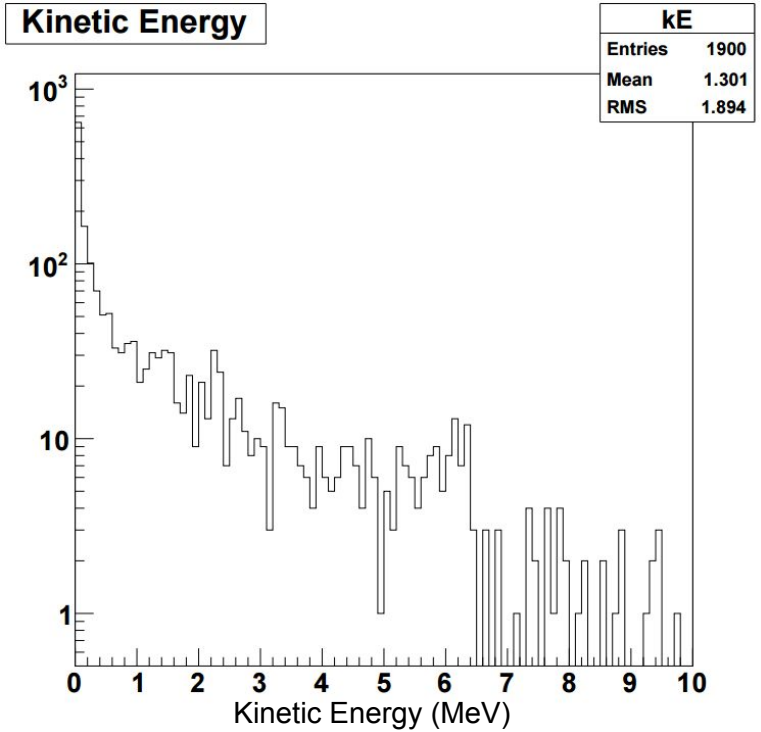
Neutron Calibration Sim Update

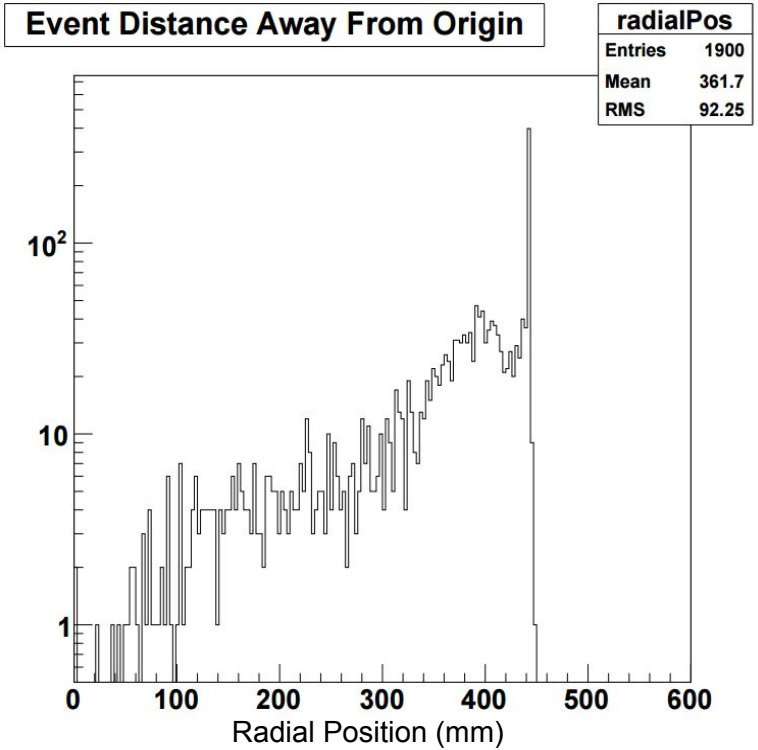


Z is the vertical axis and all axes in mm


Fprompt
Fprompt
Entries 1900
Mean 0.2416
RMS 0.3901
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1


Irecoil
Irecoil
Entries 1900
Mean 0.3779
RMS 0.2398
18
16
14
12
10
8
6
4
2
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1



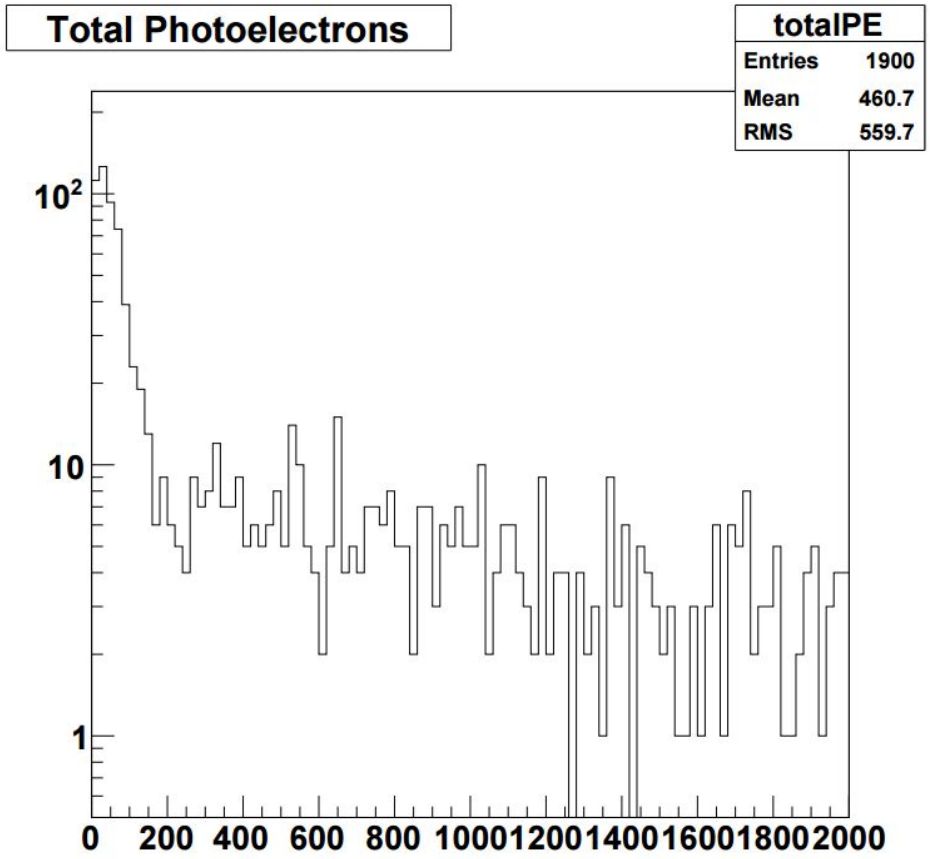


Used flat spectrum in order to use gun2 generator with an output angle of 50 degrees.

Understand why we are seeing so many low energy events? Could it be caused by the flat spectrum?

Why are there so many events with high total photoelectrons?

Overflow bin had 950 events (out of 1900)



Cuts

- PE between 75-150
- Lrecoil > 0.373
- Fprompt > 0.681
- Radius < 295.0 mm

Number of Events	Number of Triggered Events	Pass PE Cuts	Pass Lrecoil Cuts	Pass Radial Cuts	Pass Fprompt Cuts
100000	1900	104	231	346	475