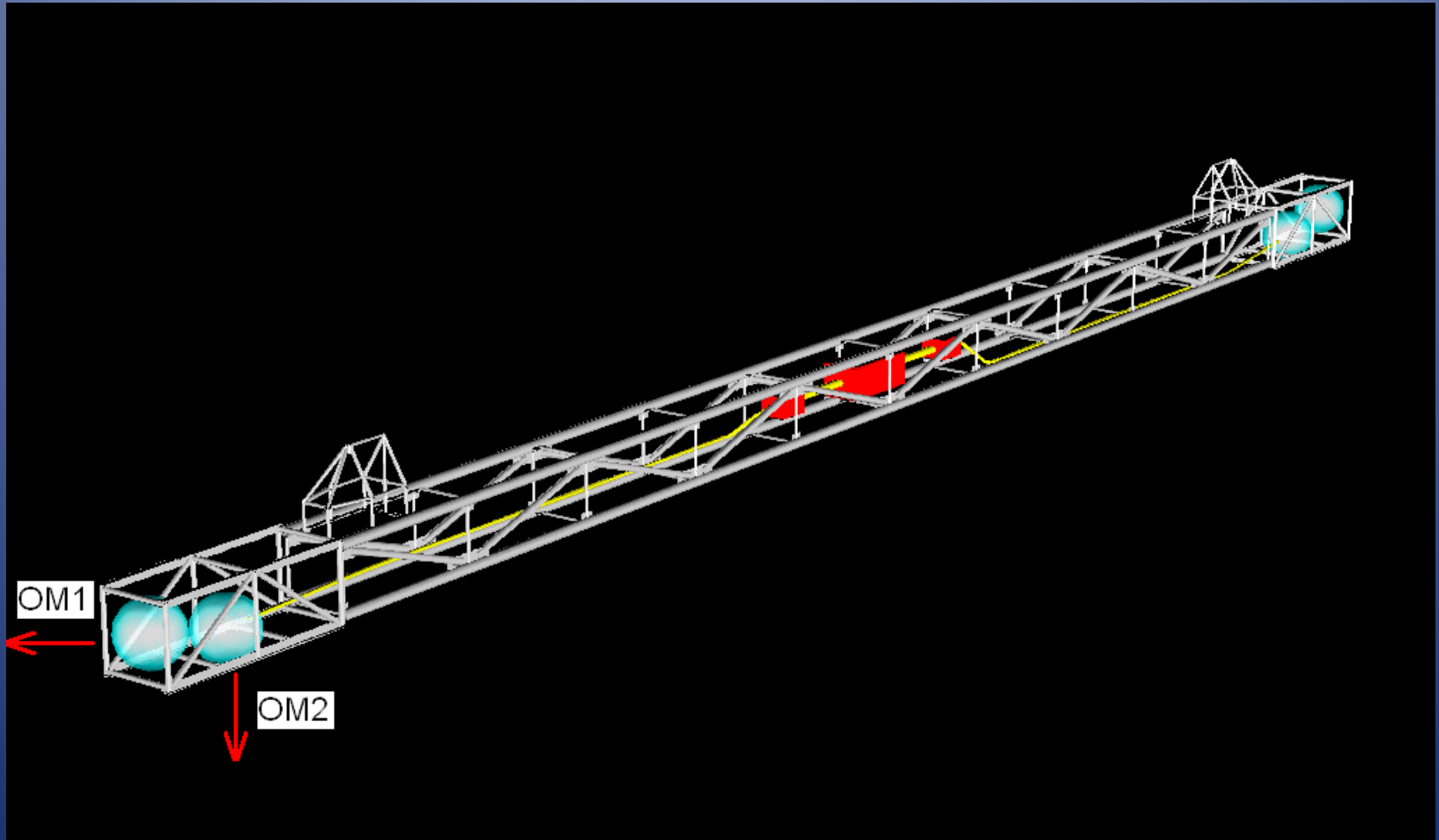
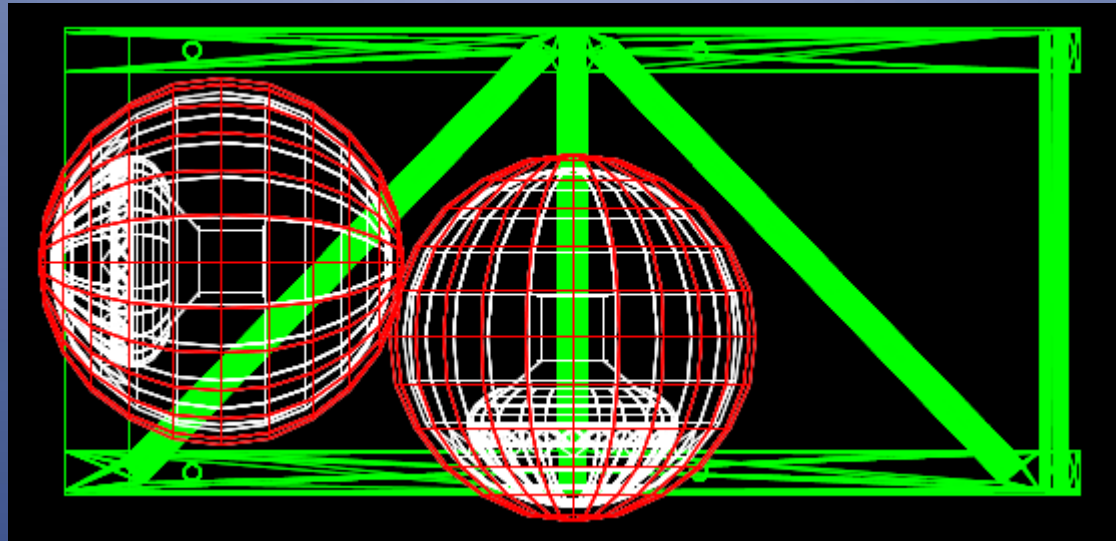


NEMO

Mini-Tower Floor



Simulation construction



Normalized Value

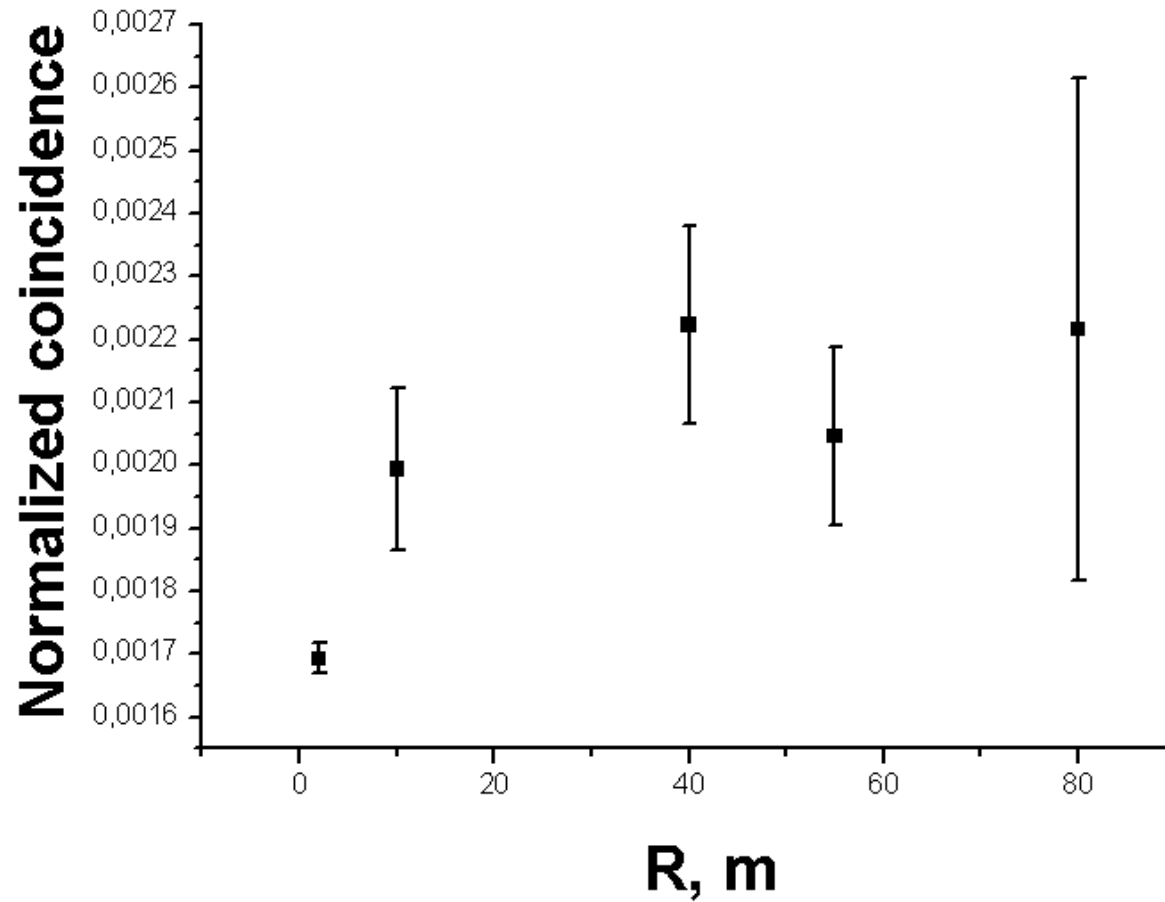
$$X = \frac{X' \cdot V}{N}$$

V – volume

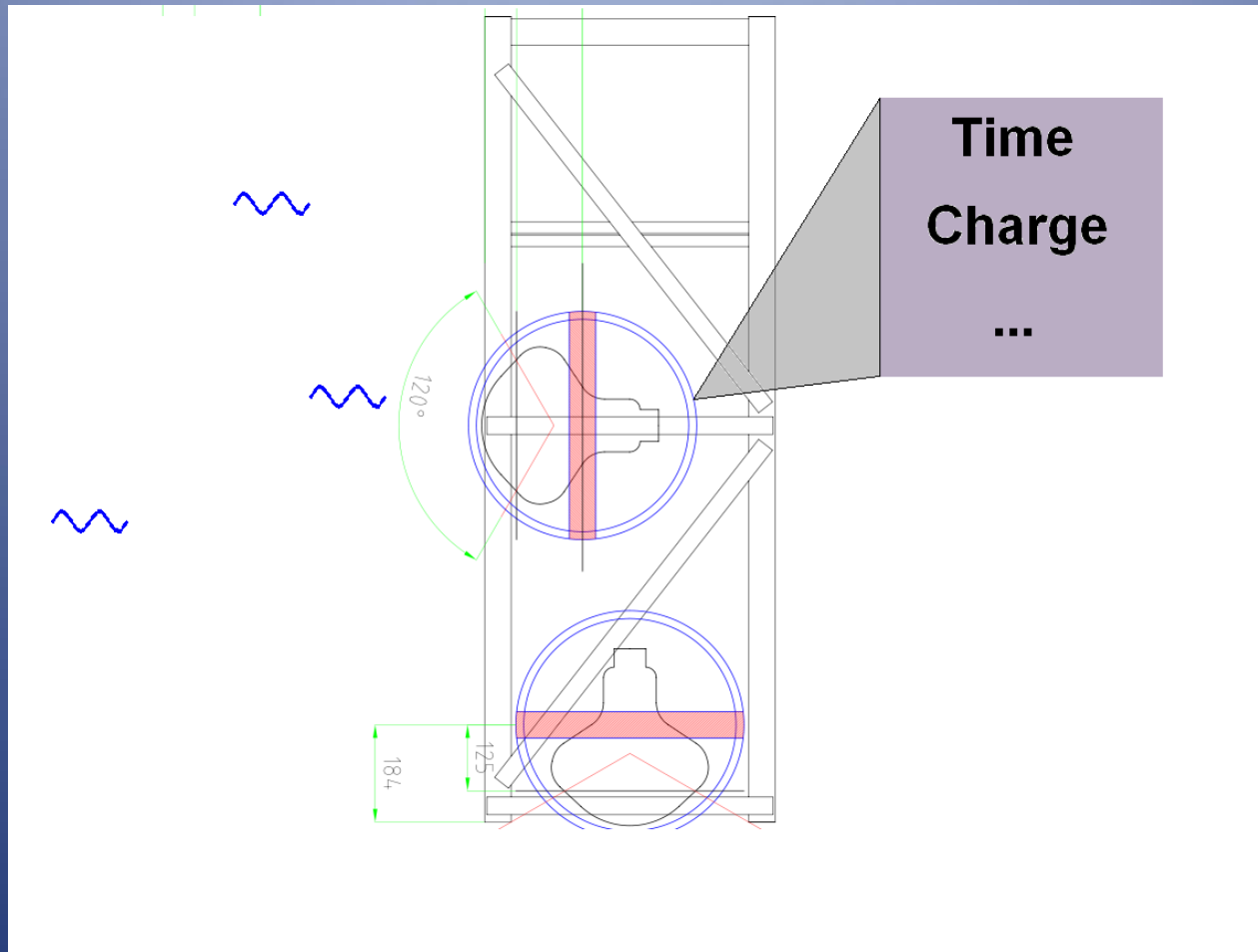
N – number of decays

X' – number of coincidence

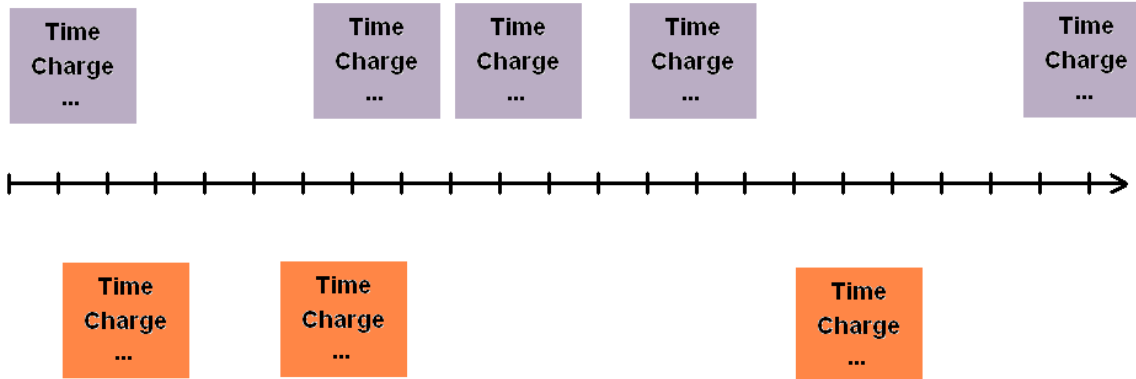
Simulation results



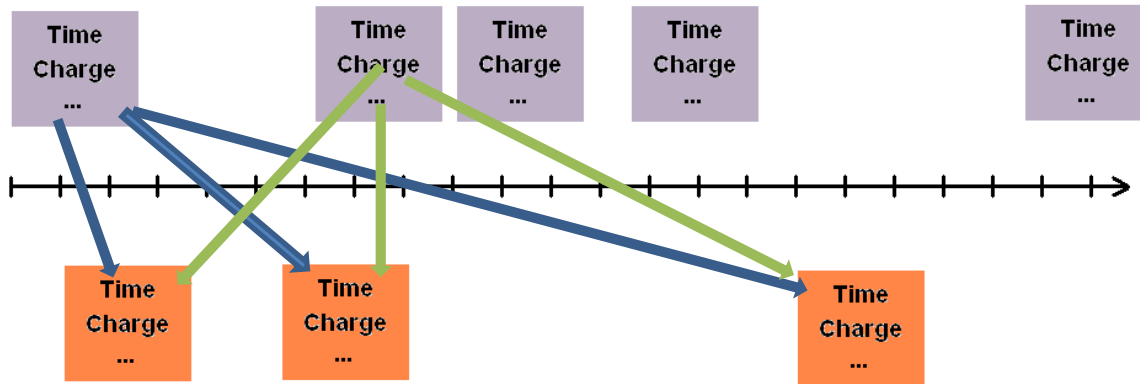
Data packet



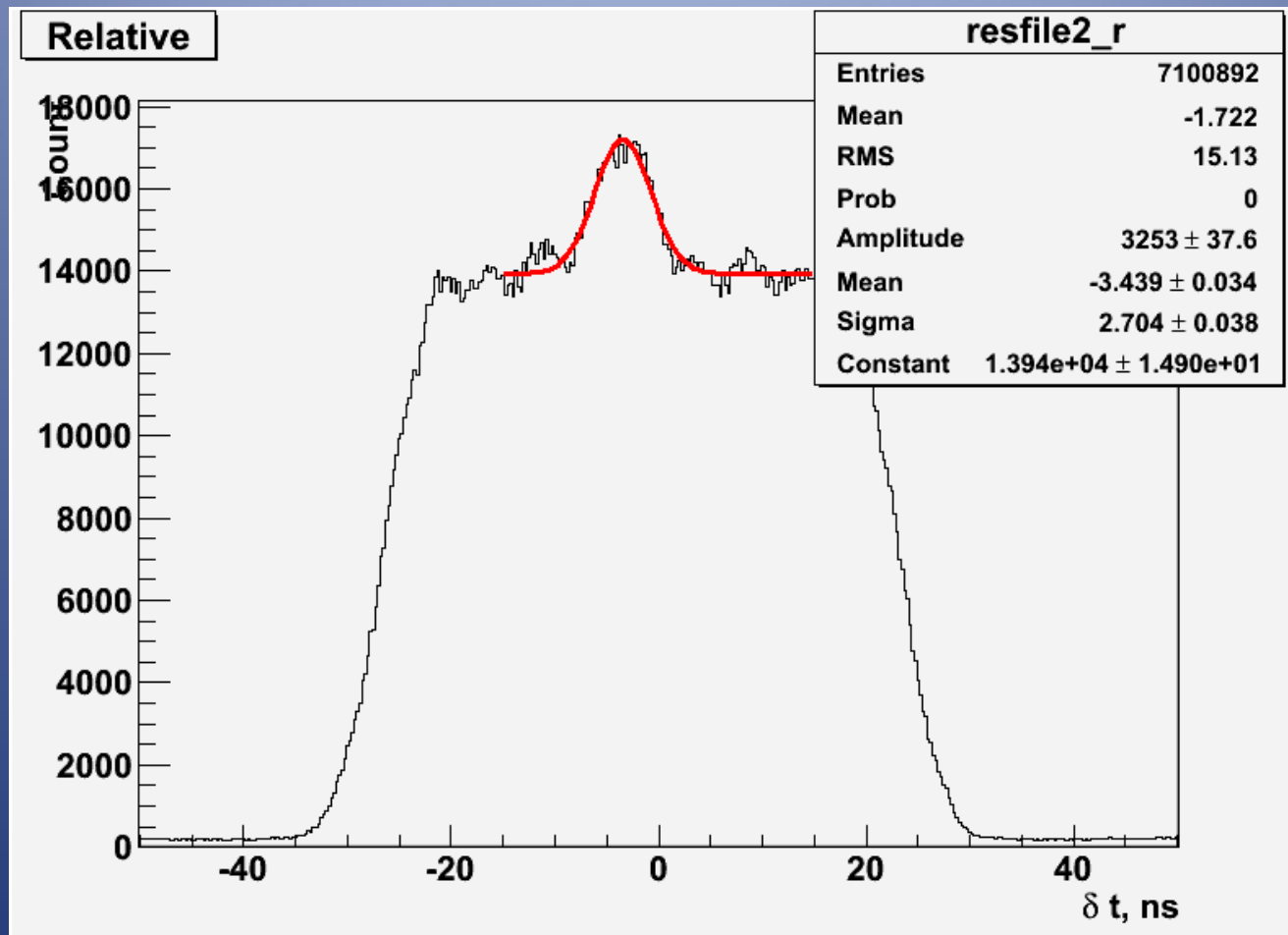
Packets row



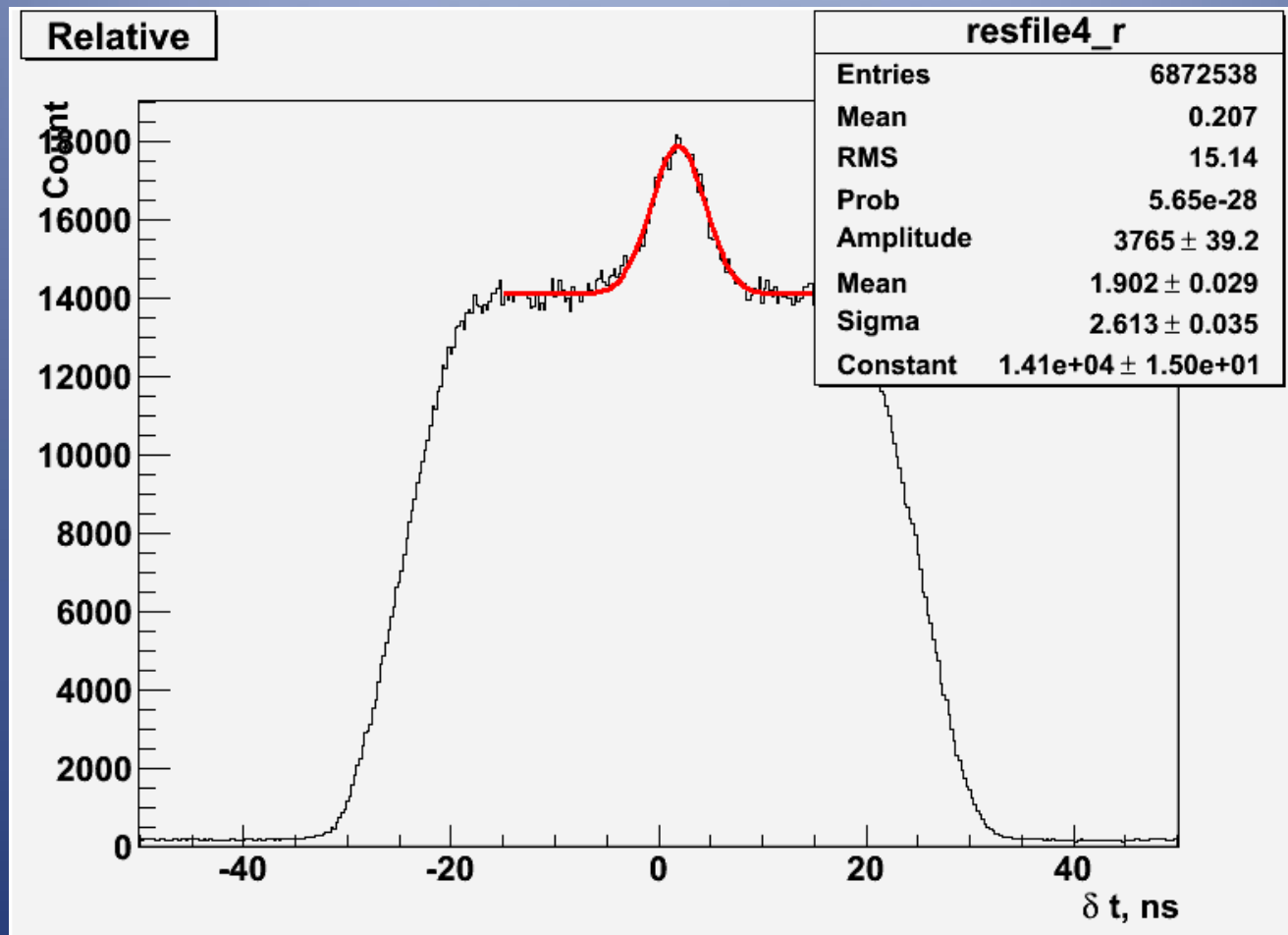
Packets row



Experimental data processing



Experimental data processing



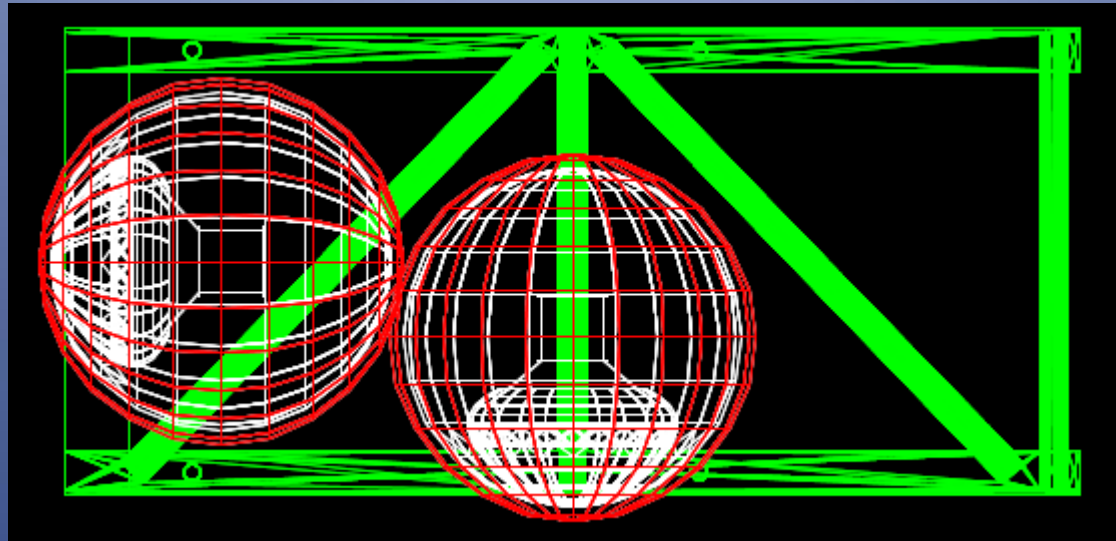
Coincidence rate

PMT_IDs	Coincidence rate (Hz)	Sigma (ns)
1-2	6.78259+-0.124	2.70358+-0.0380
3-4	7.58867+-0.128	2.61346+-0.0347
5-6	6.17965+-0.122	2.69272+-0.0414
7-8	6.13079+-0.133	2.78713+-0.0478
9-10	6.30453+-0.122	2.80612+-0.0419
11-12	6.60216+-0.120	2.55773+-0.0369
13-14	2.33366+-0.059	3.31696+-0.0662
15-16	3.61095+-0.056	2.5555+-0.0304

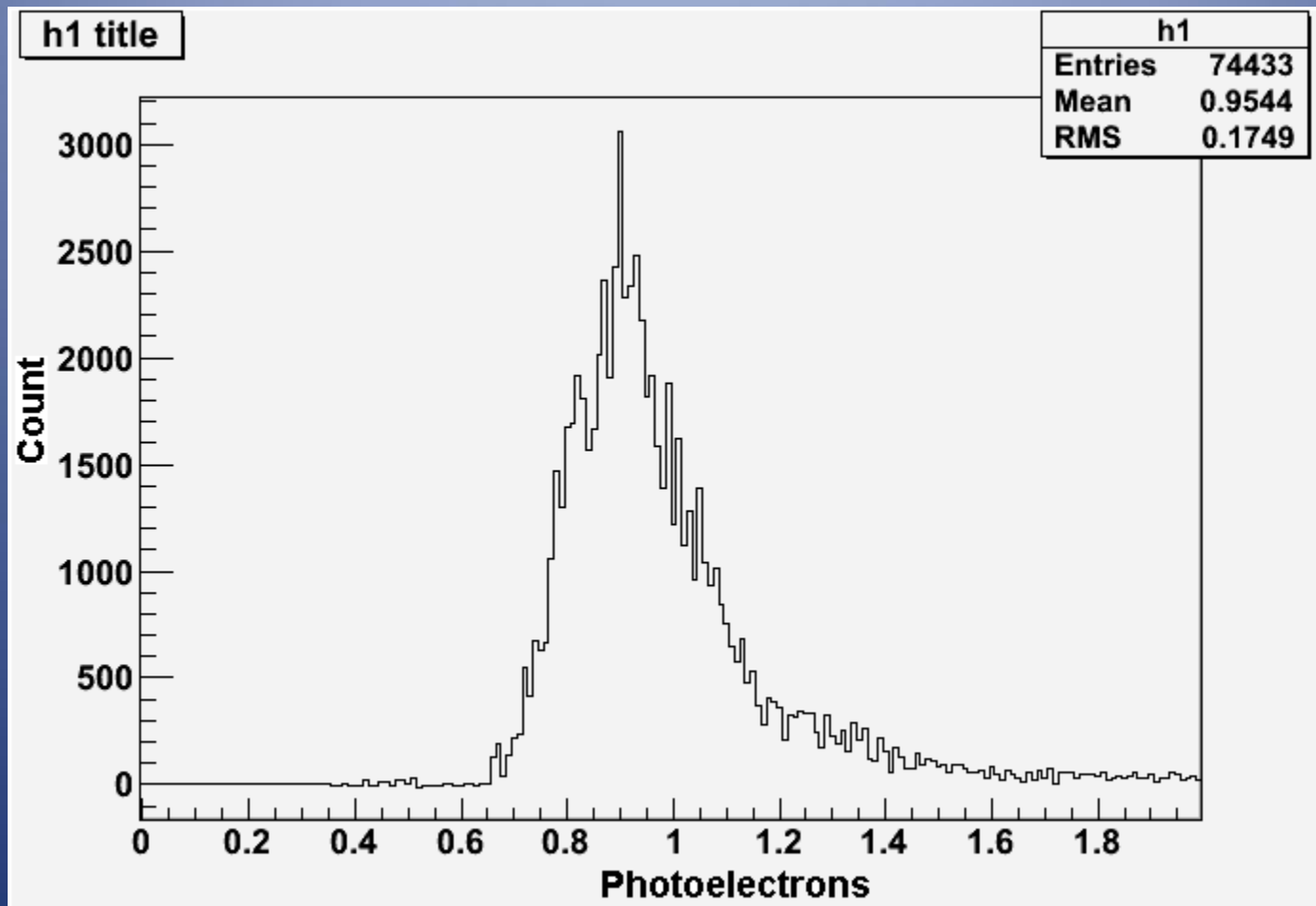
Compare with simulation

- Radius = 10 m
- Coincidence rate (Hz) = 16.7589 ± 0.368
- Sigma (ns) = 1.07328 ± 0.024

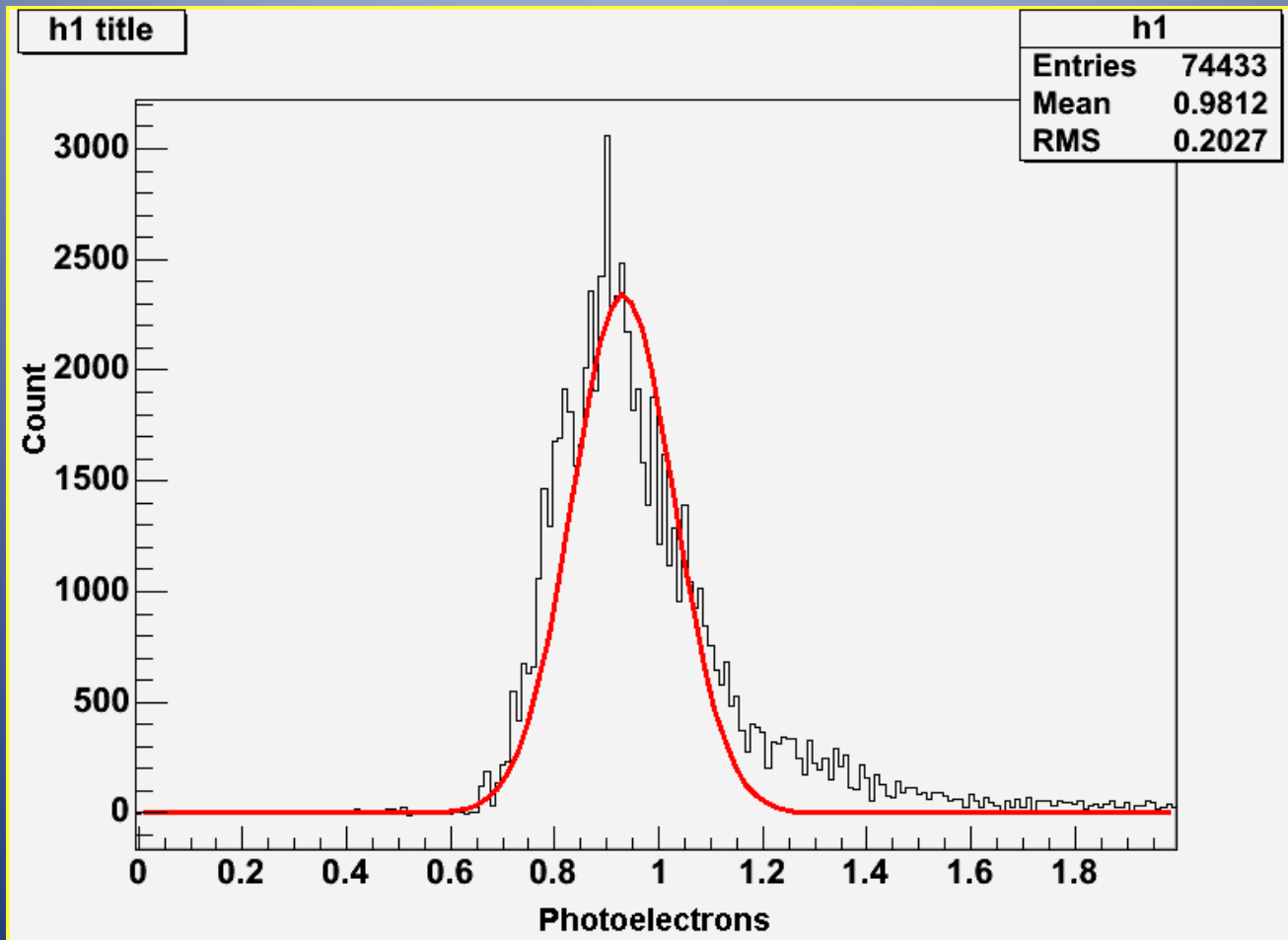
Simulation construction



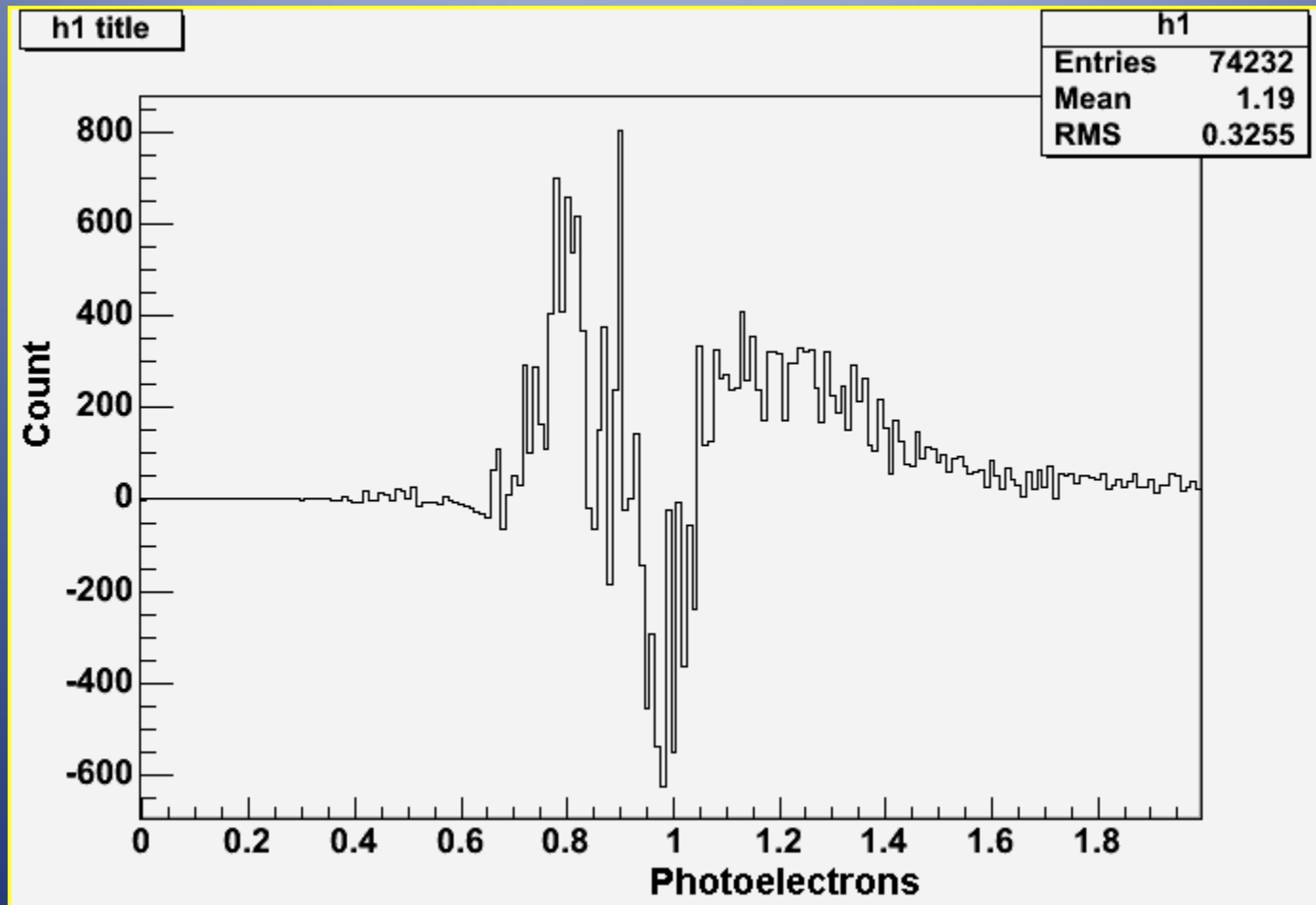
Charge distribution



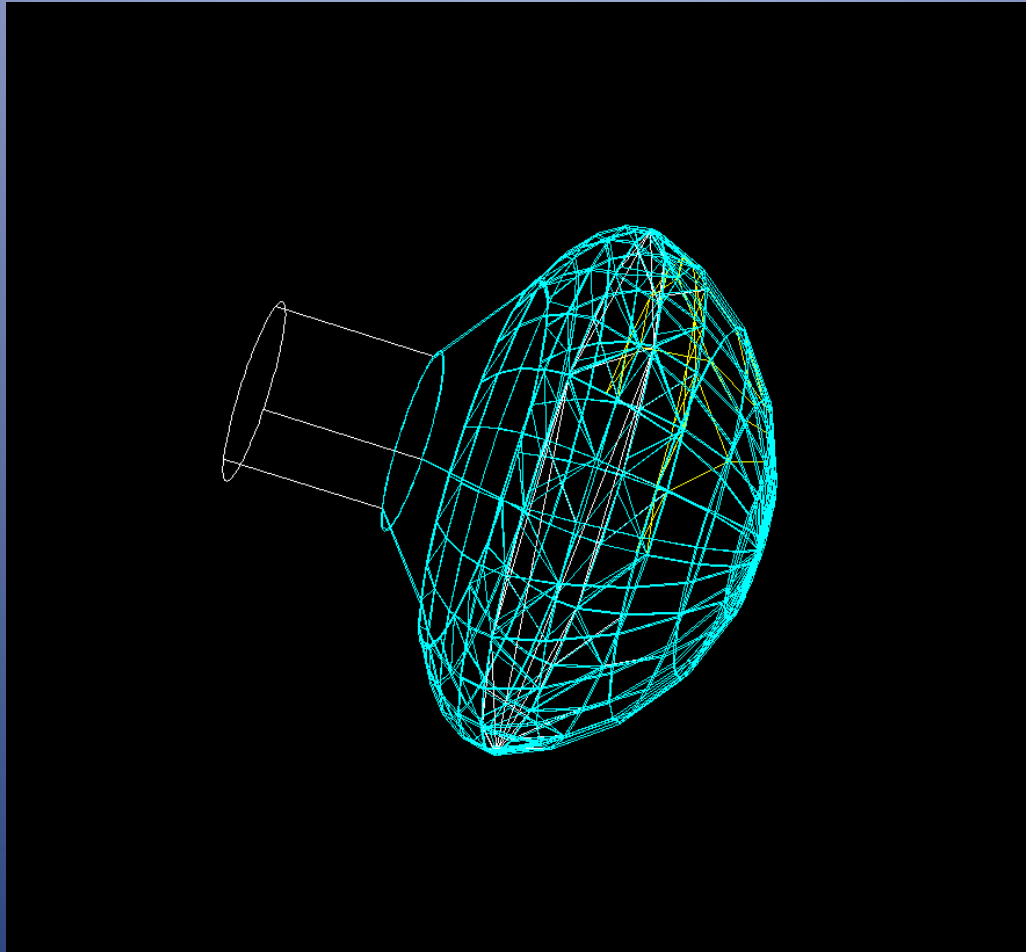
Charge distribution



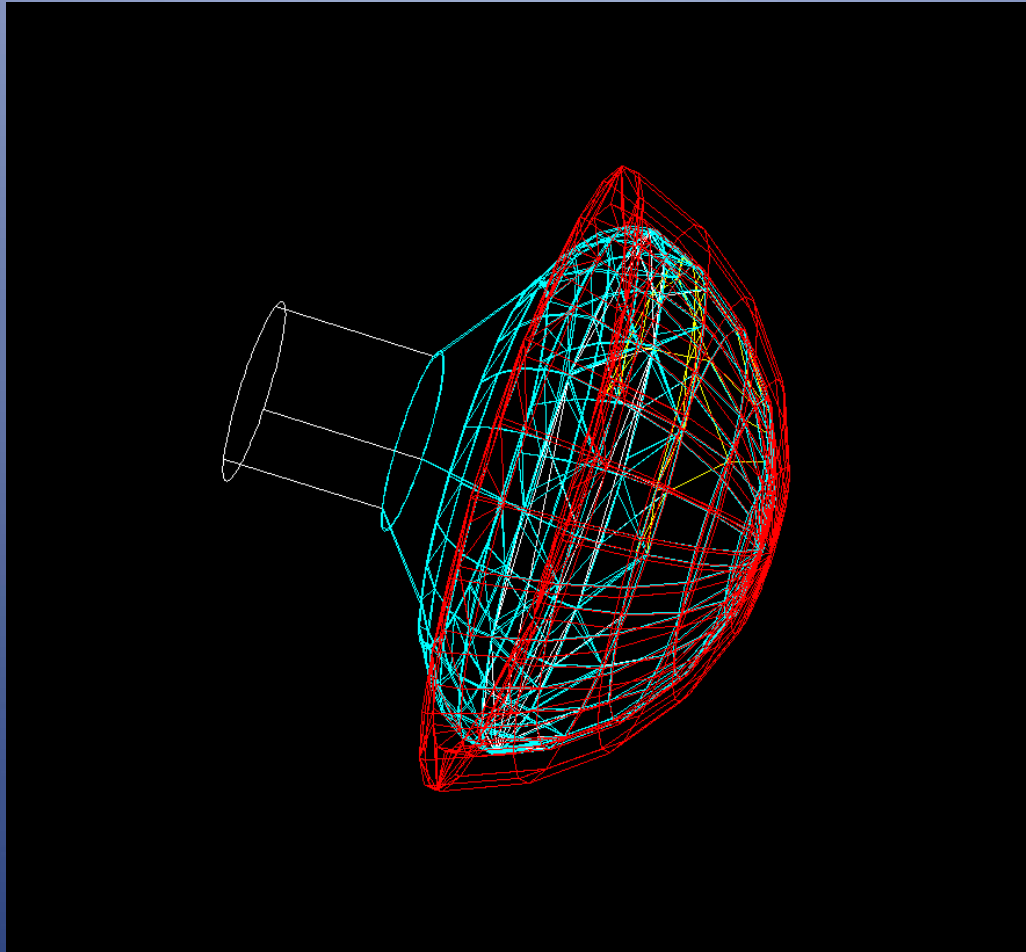
Charge distribution (subtraction)



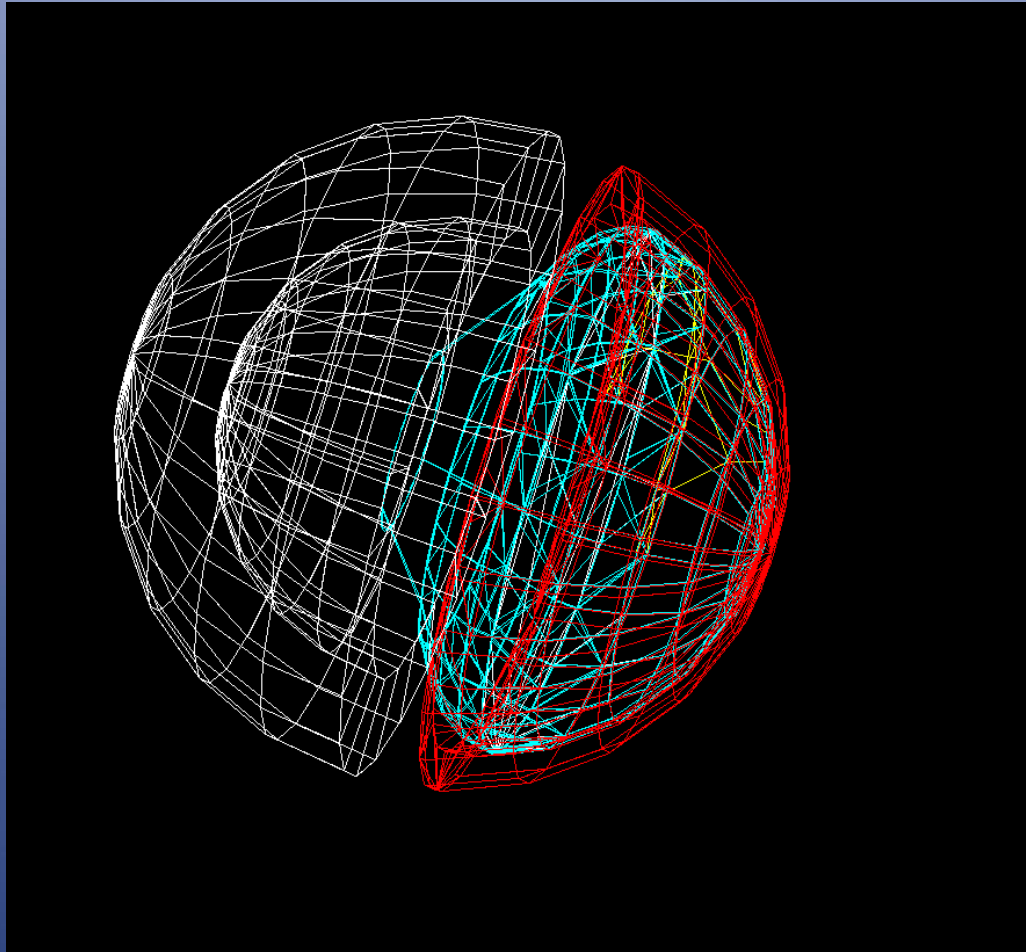
Optical Module



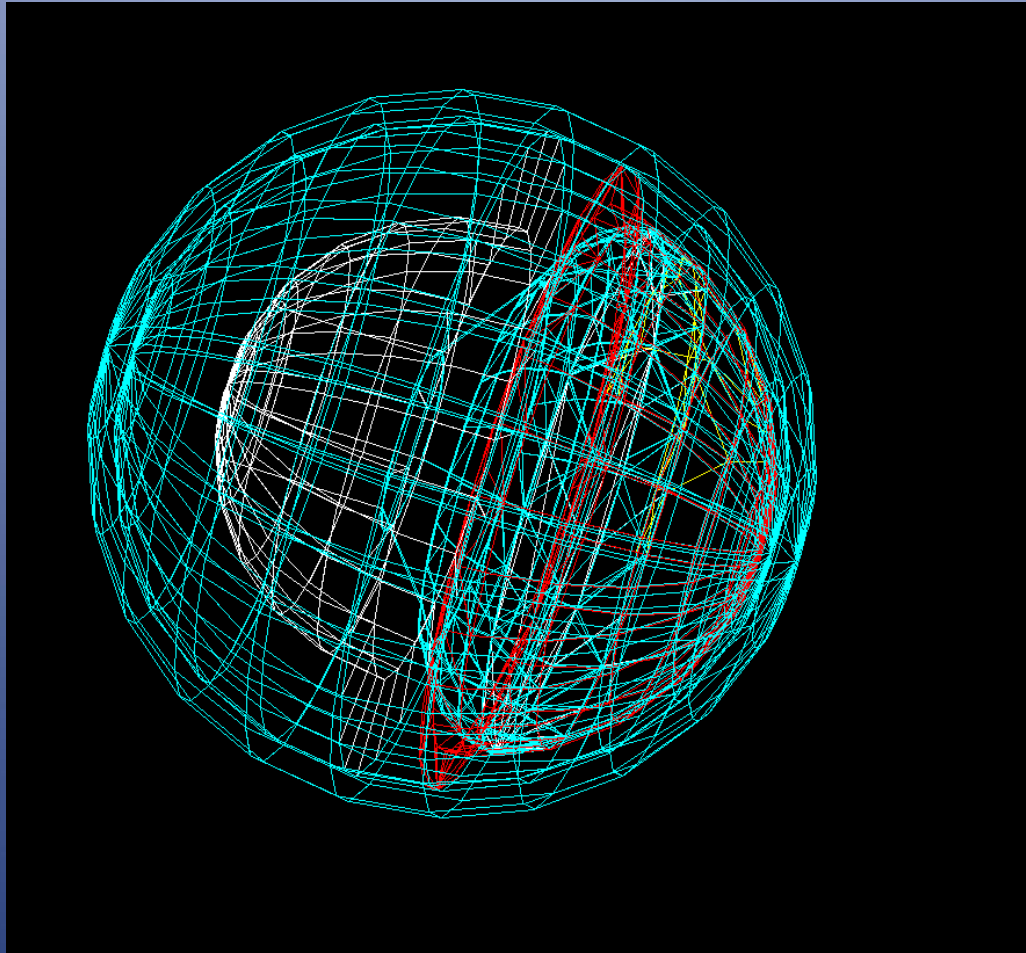
Optical Module



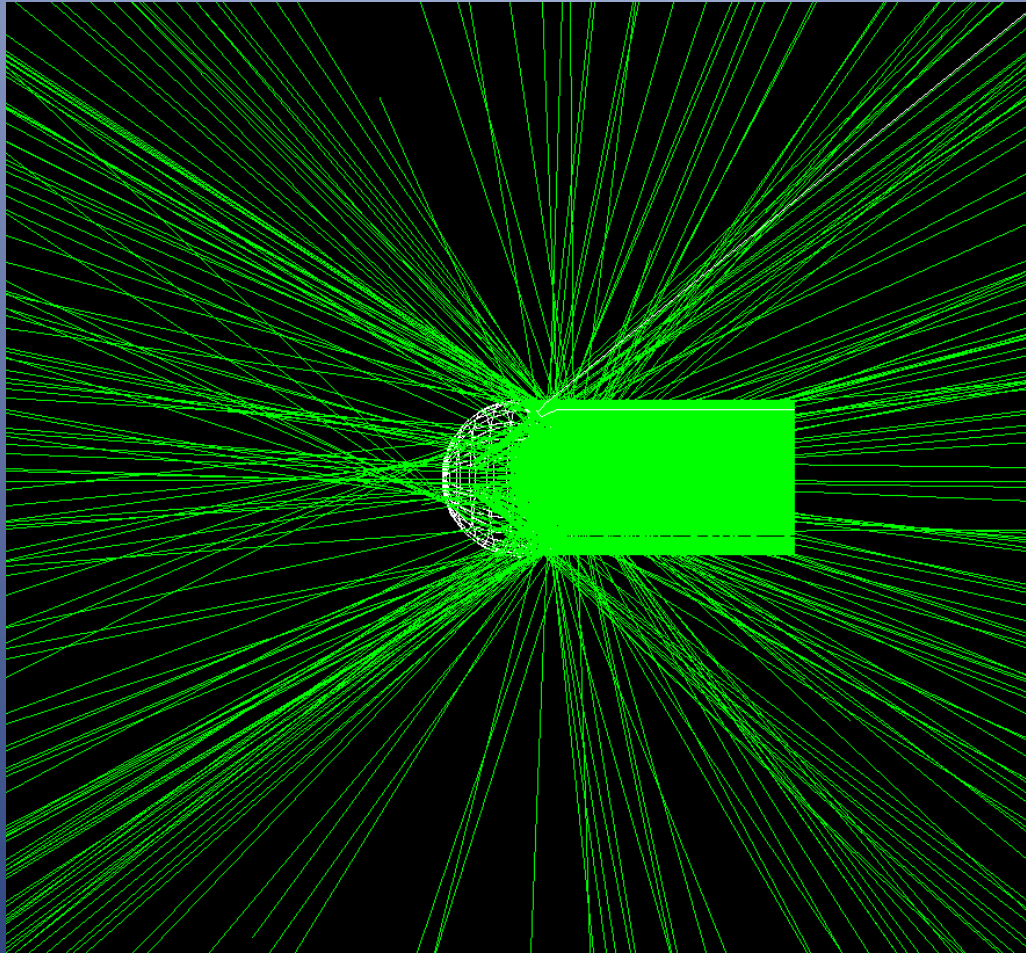
Optical Module



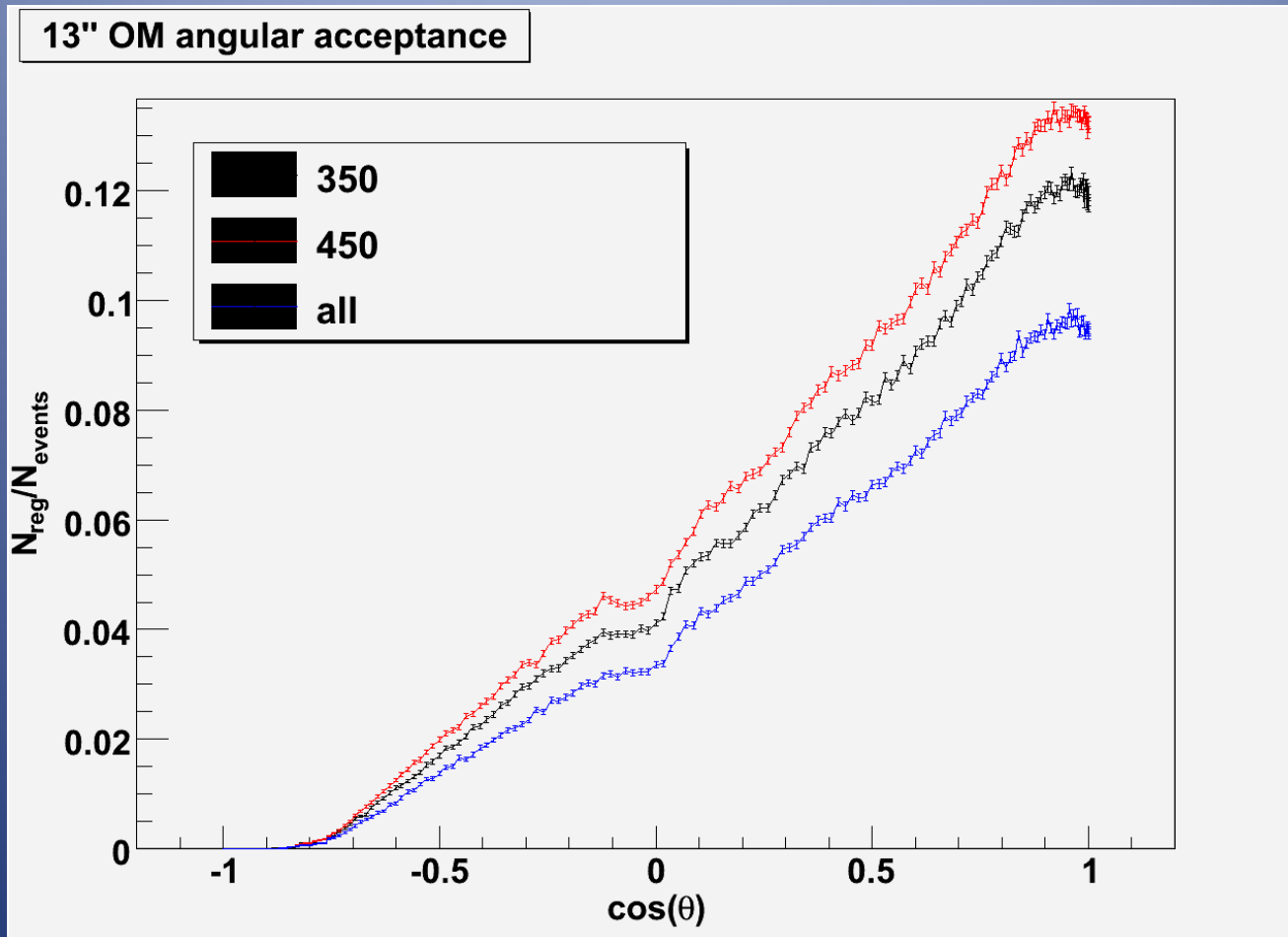
Optical Module



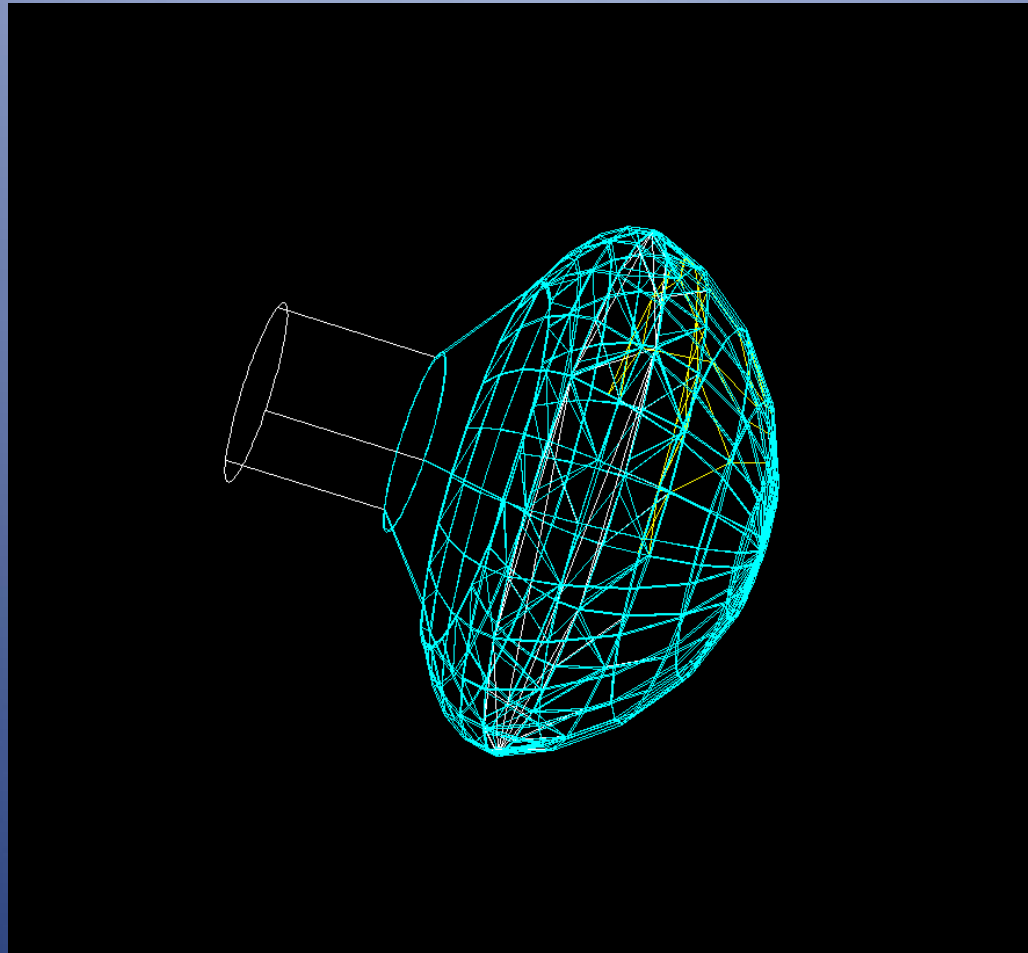
Angular Acceptance



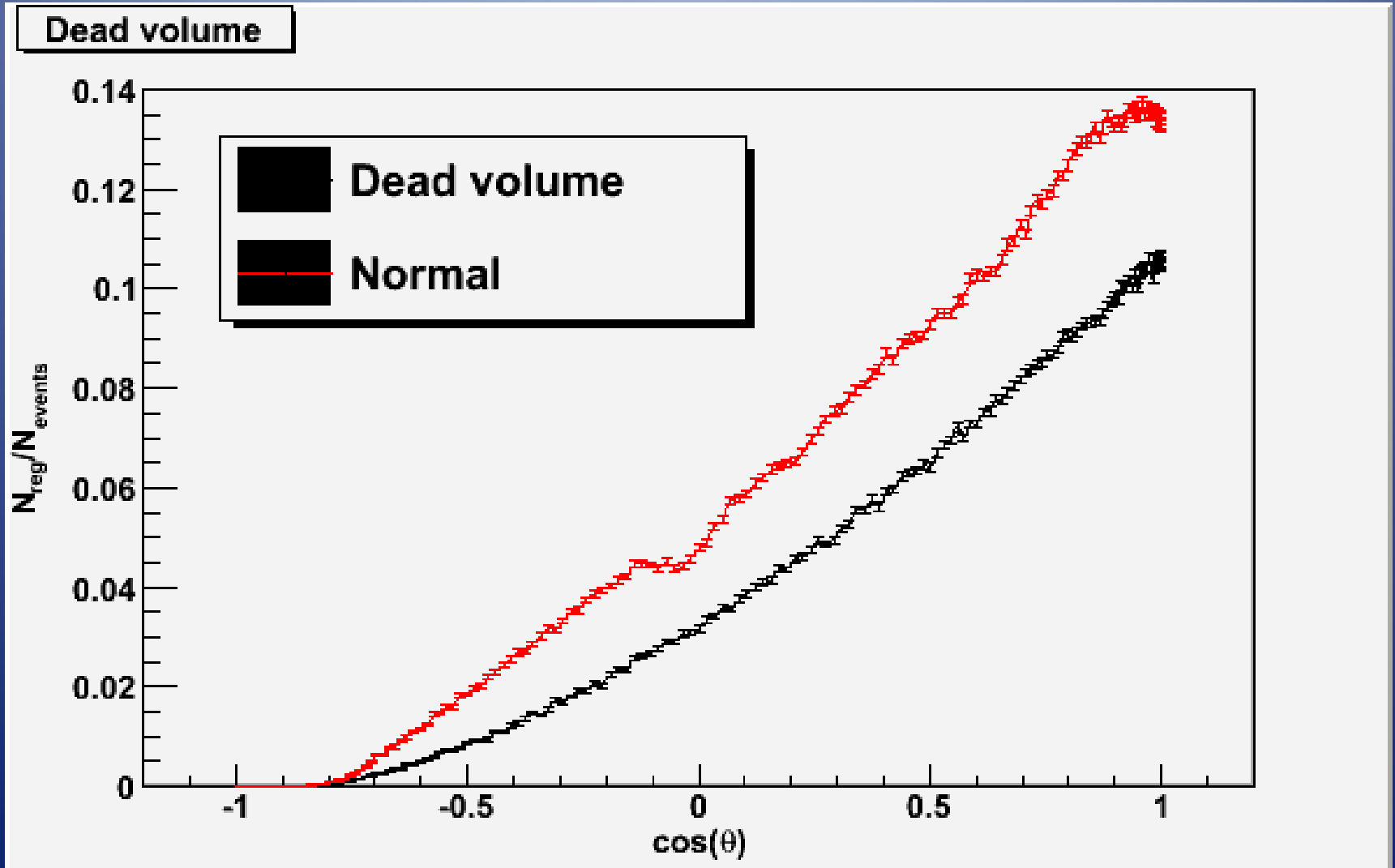
Angular Acceptance



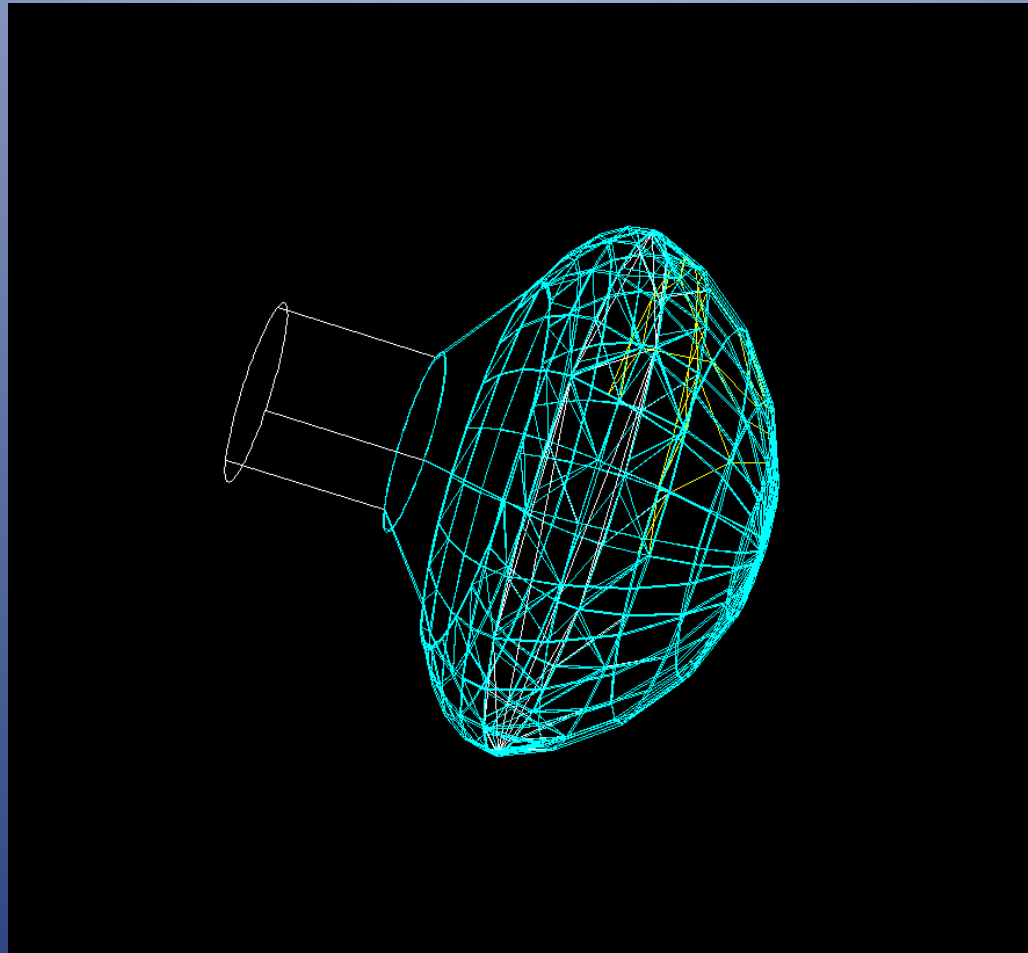
Phototube



Region around 0



Phototube



Tape



Angular Acceptance

