TDIS proton rate

Aruni Nadeeshani

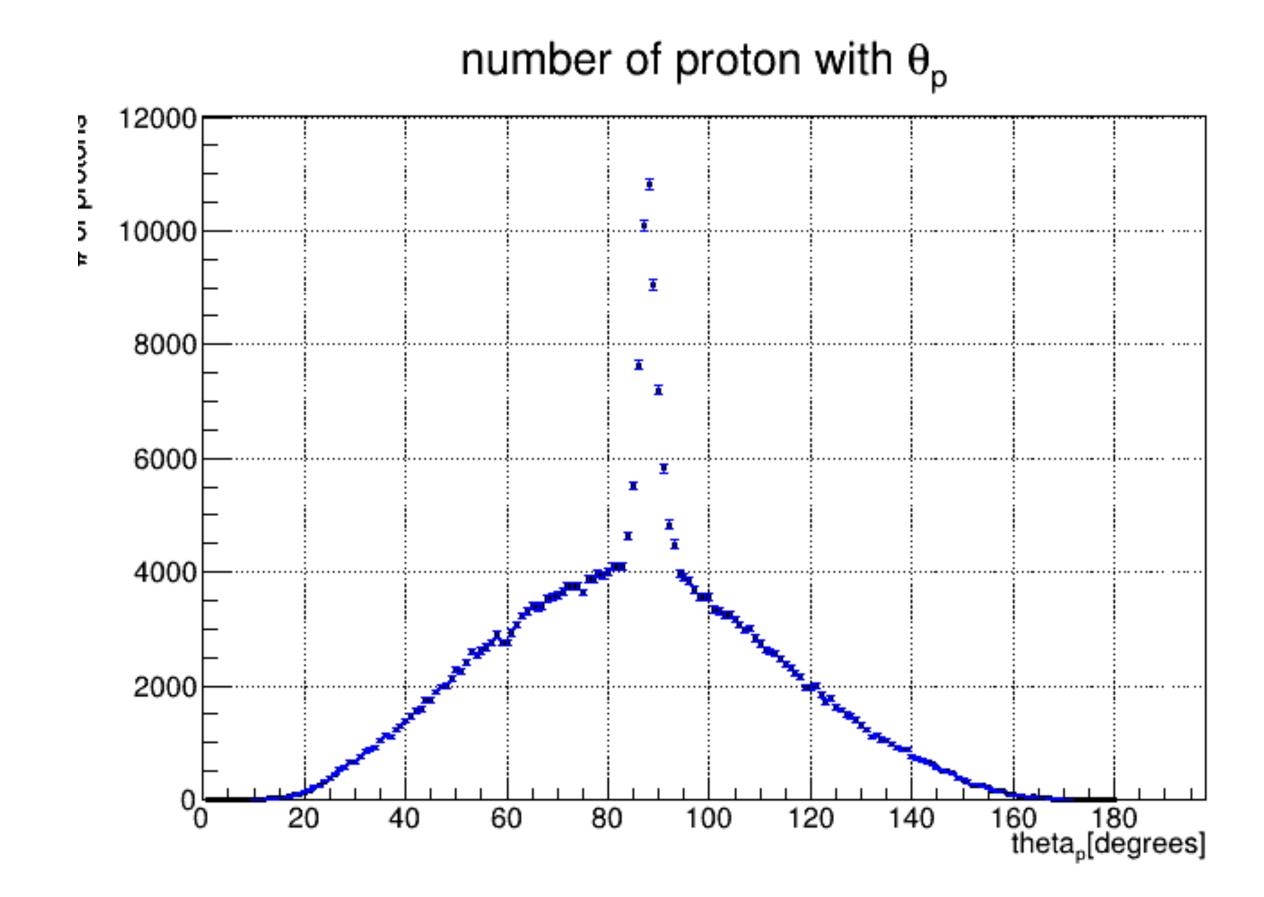
BONuS12 # of protons with more runs

- Run #s used:12620,12627,12628,12629
- Total run time: 5 hr 11 min =18660 s
- Current =100 nA
- Trigger rate: 1.5 kHz

 $0<\delta$ vz<60 mm difference of electron vertex and proton vertex

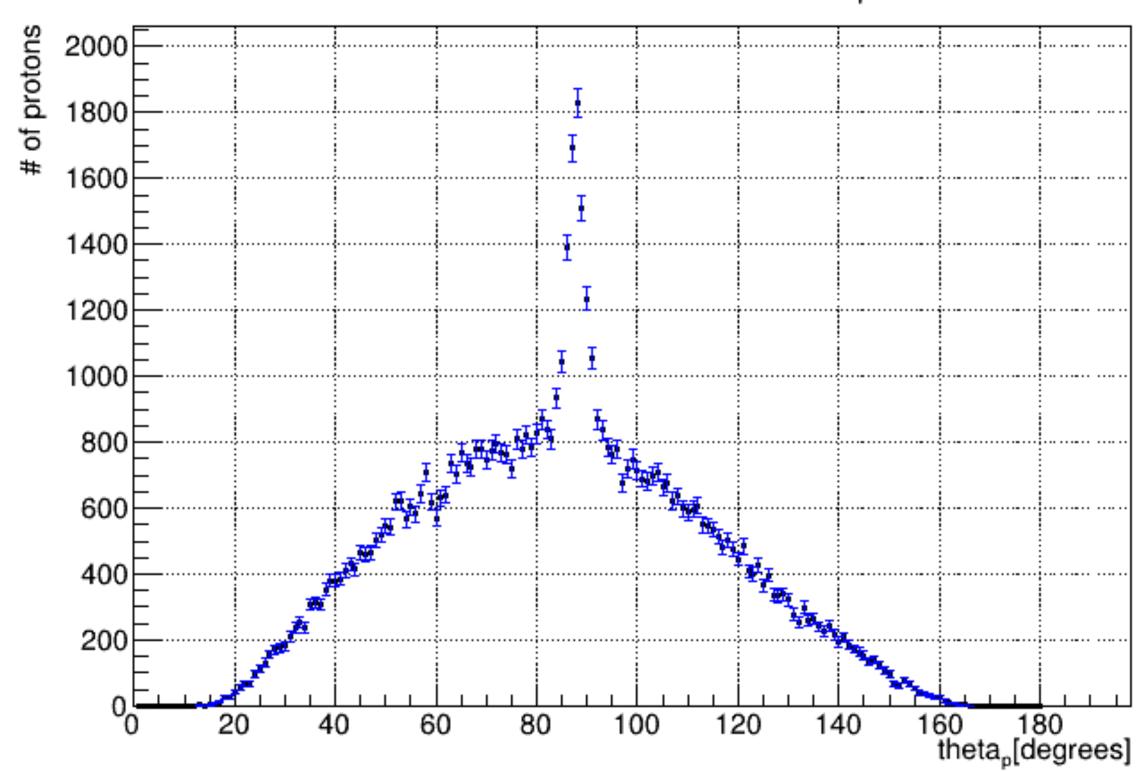
-18<Vz_e<12. Electron vertex cut

	# of protons	Rate
for bonus range $0.05 < 0 < 0.5 GeV$ $0 < \theta_p < 180$	327998	17.58
for bonus range with vertex cut	70290	3.77
for TDIS range $0.05 < 0 < 0.5 GeV$ $30 < \theta_p < 70$	84728	4.54
for TDIS range with vertex cut	20069	1.076



Number of entries with out vertex cut =327998





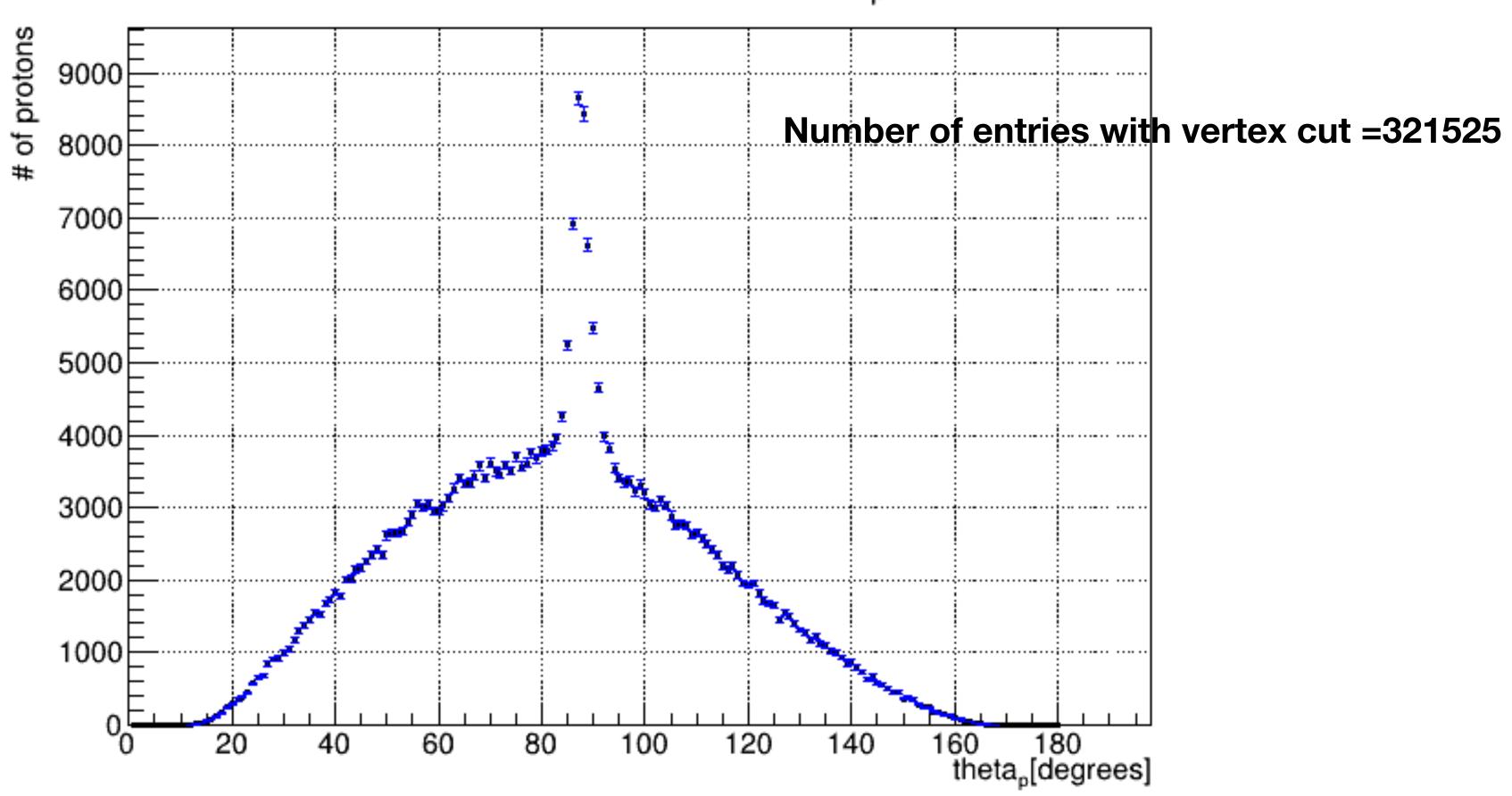
Number of entries with vertex cut =70290

BONuS12 # of protons with more runs

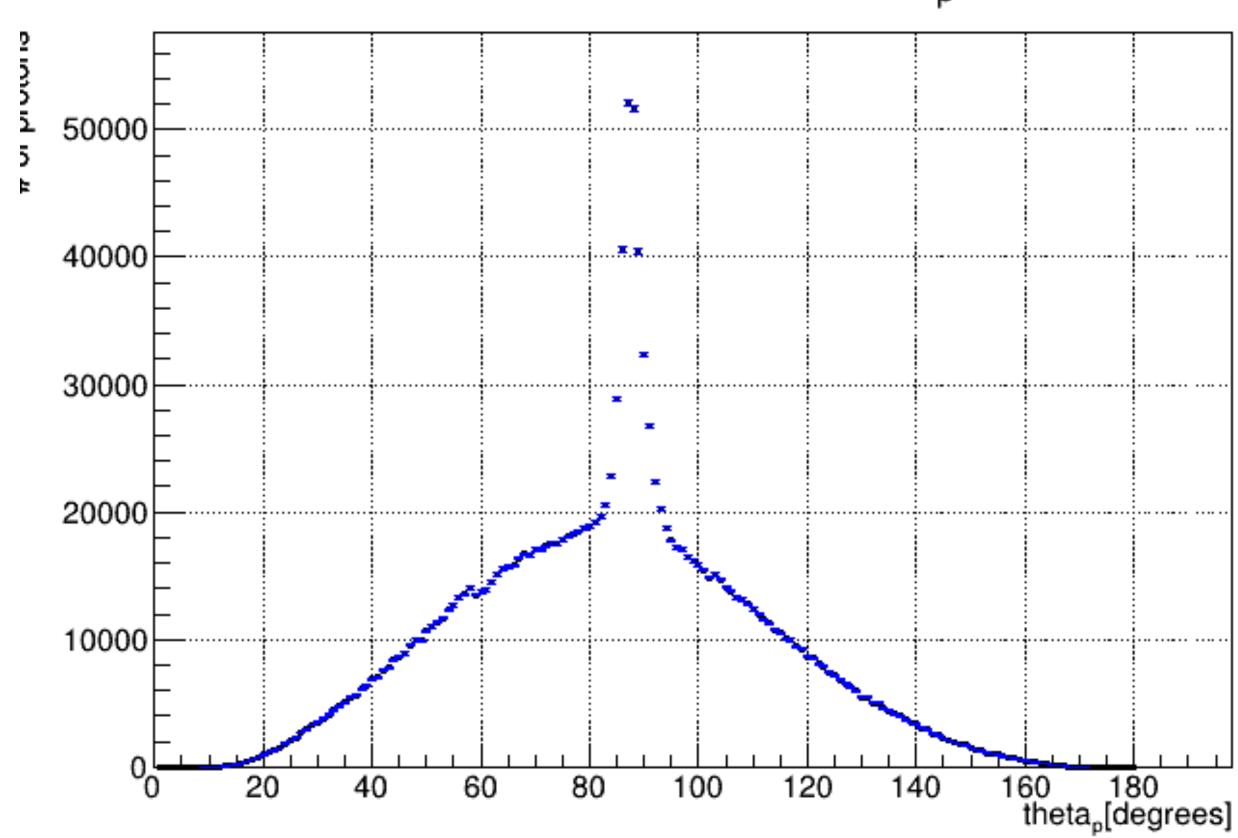
- Run #s used
 :12450,12451,1245
 2,12453,12454,124
 55,12456,12457,12
 459
- Total run time : 698 min =41880 s
- Current =200 nA

	# of protons	Rate
for bonus range	1539443	36.75
for bonus range with vertex cut	321525	7.68
for TDIS range	413587	9.86
for TDIS range with vertex cut	96508	2.30

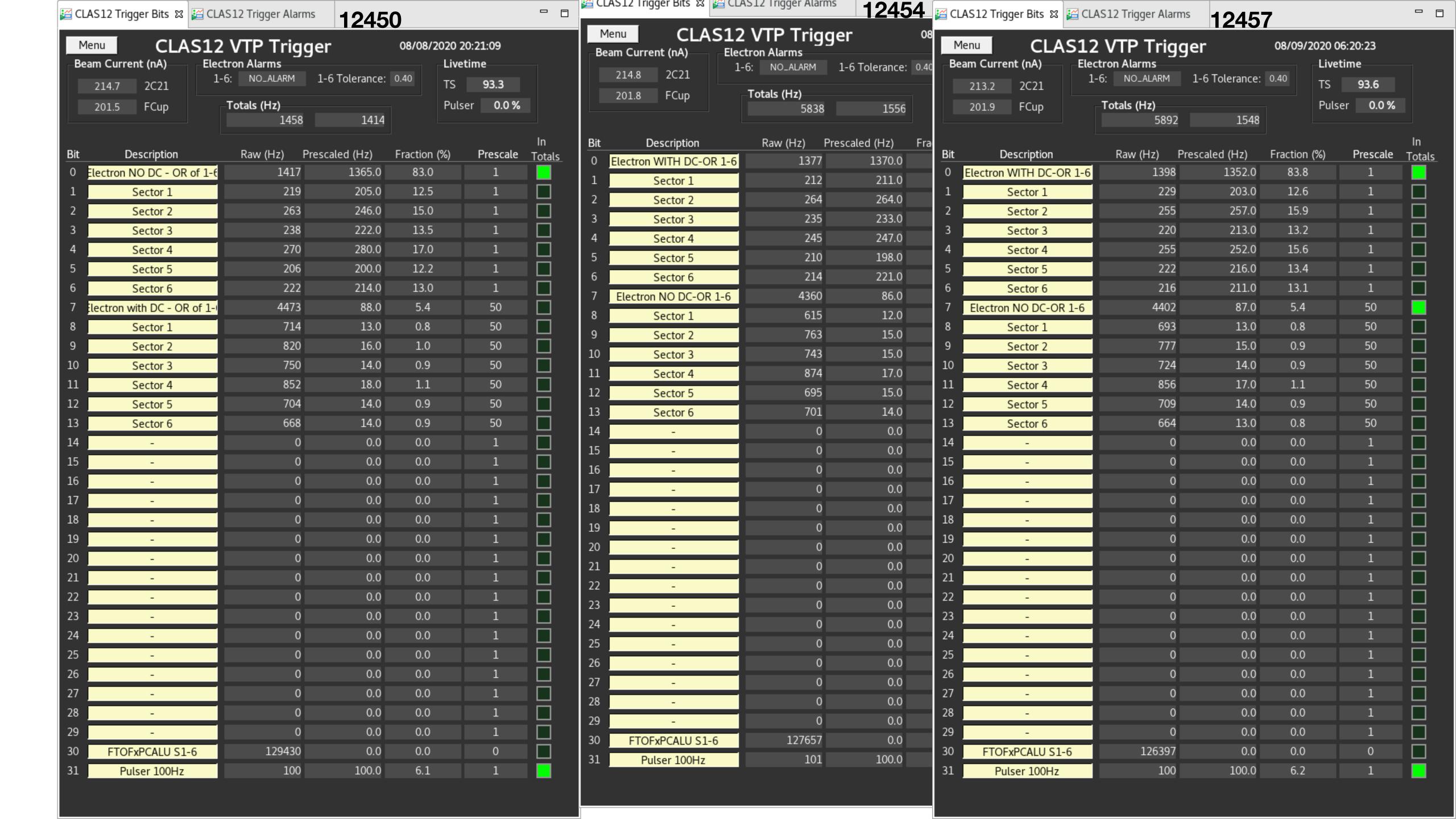
number of proton with θ_p







Number of protons with vertex cut =1539443



Target pressure

