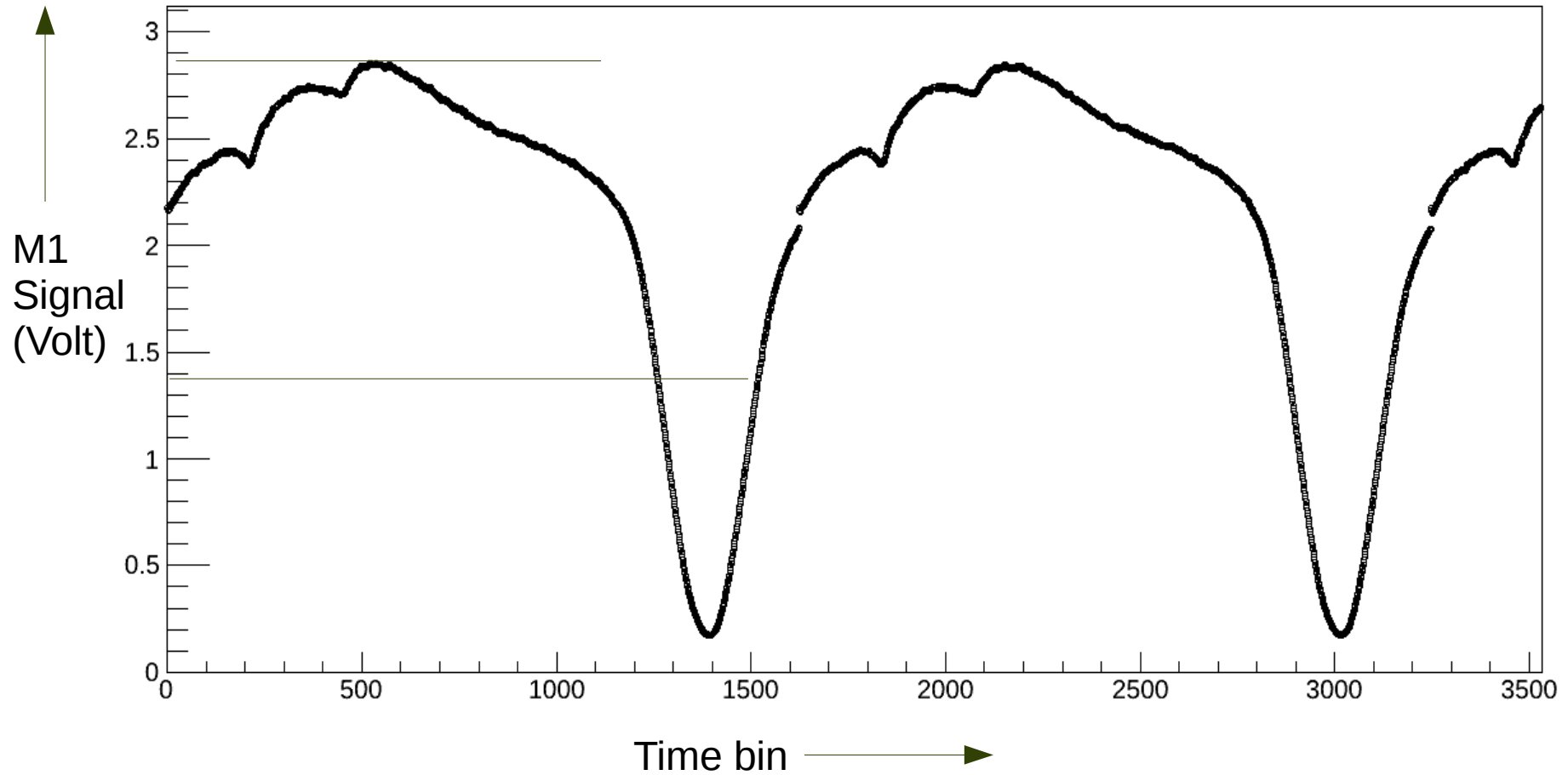


Chopper Phases and Beam intensity Cut

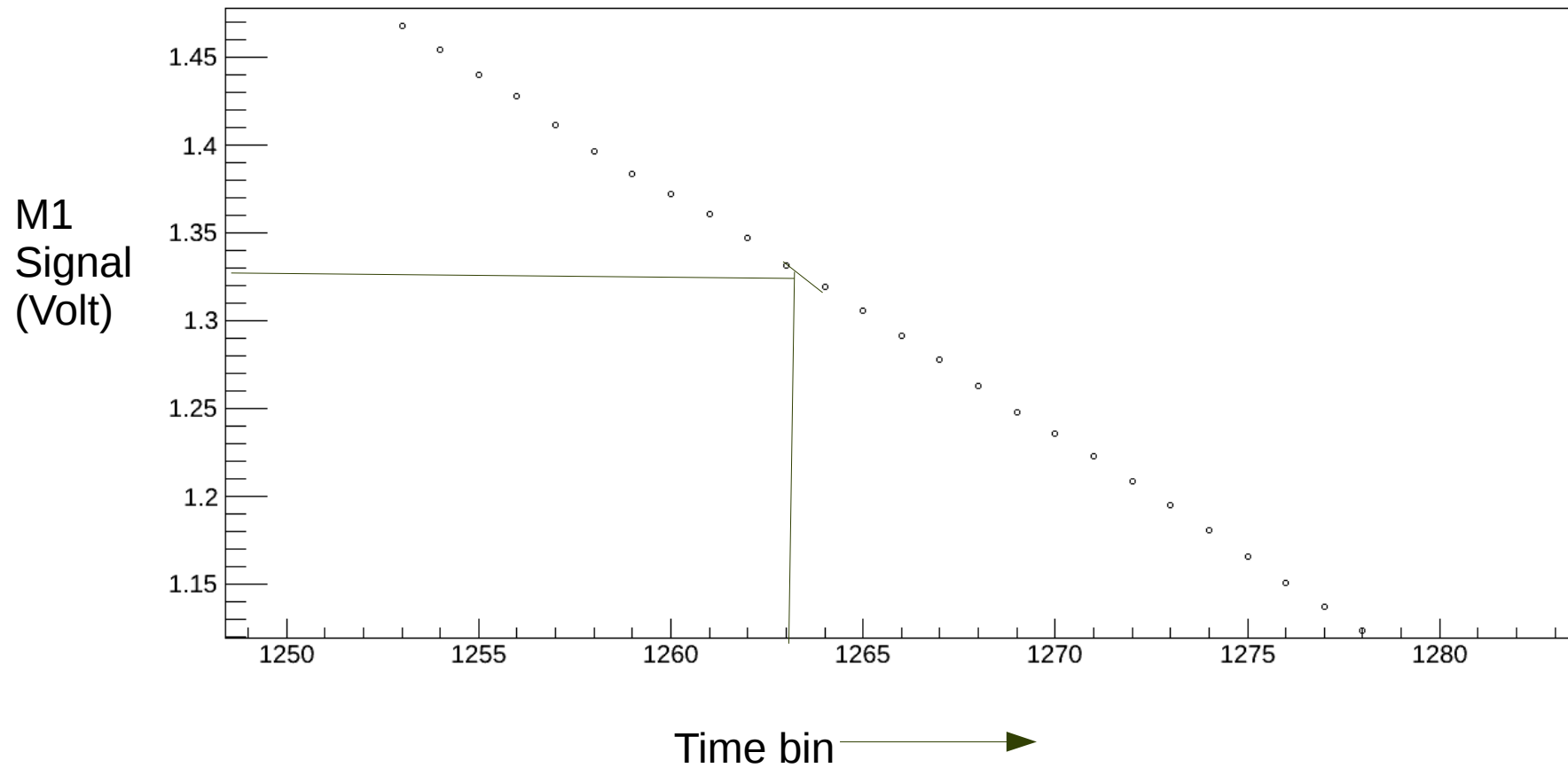
Chopper Phases :

1. For a given pulse, find the maximum intensity Max using M1 signal.
2. Both for rising and falling edge of the pulse, solve for the time when $\text{M1 intensity} = \text{Max}/2$

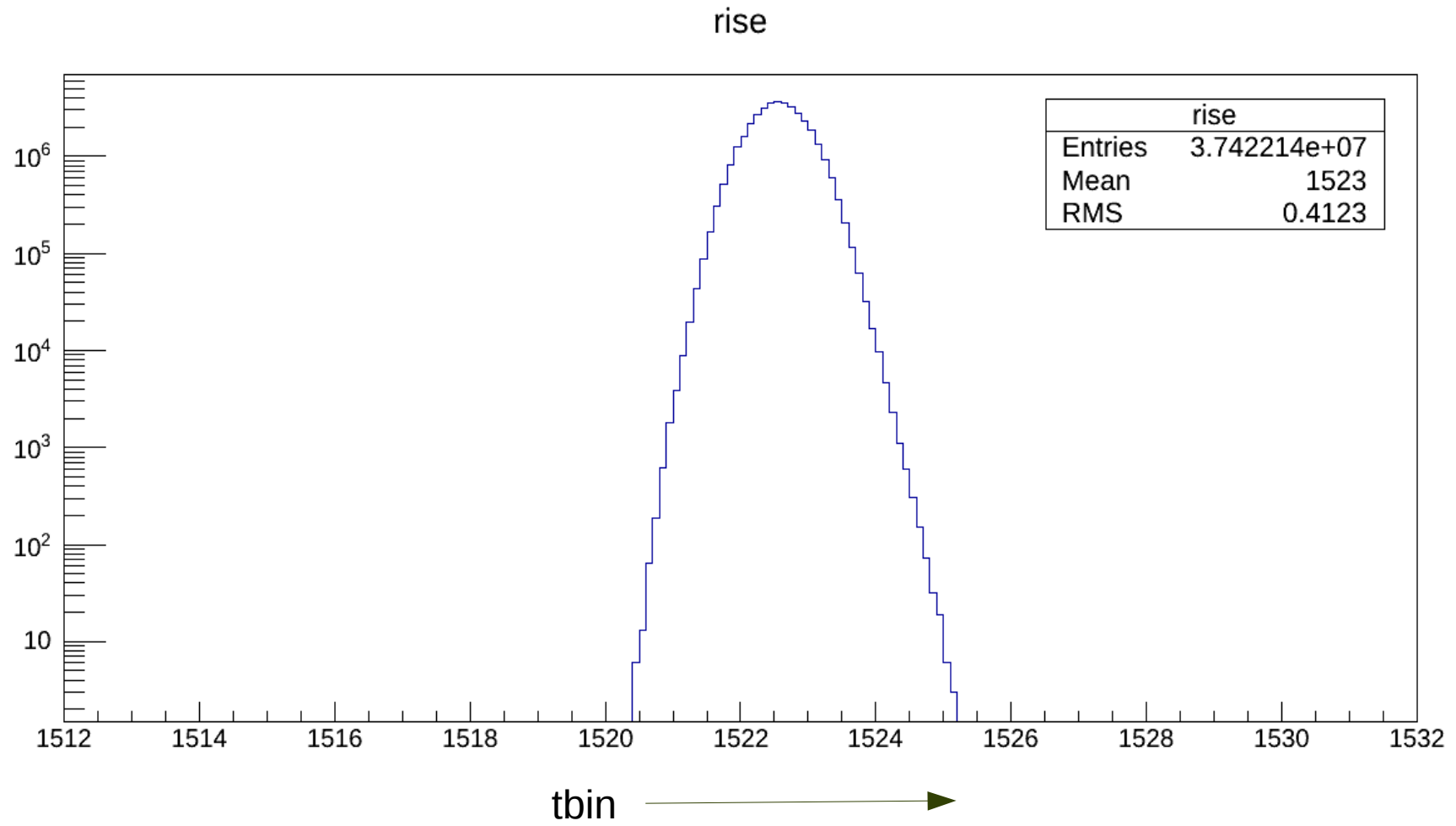
Solving for time at Max/2



Solving for time at Max/2

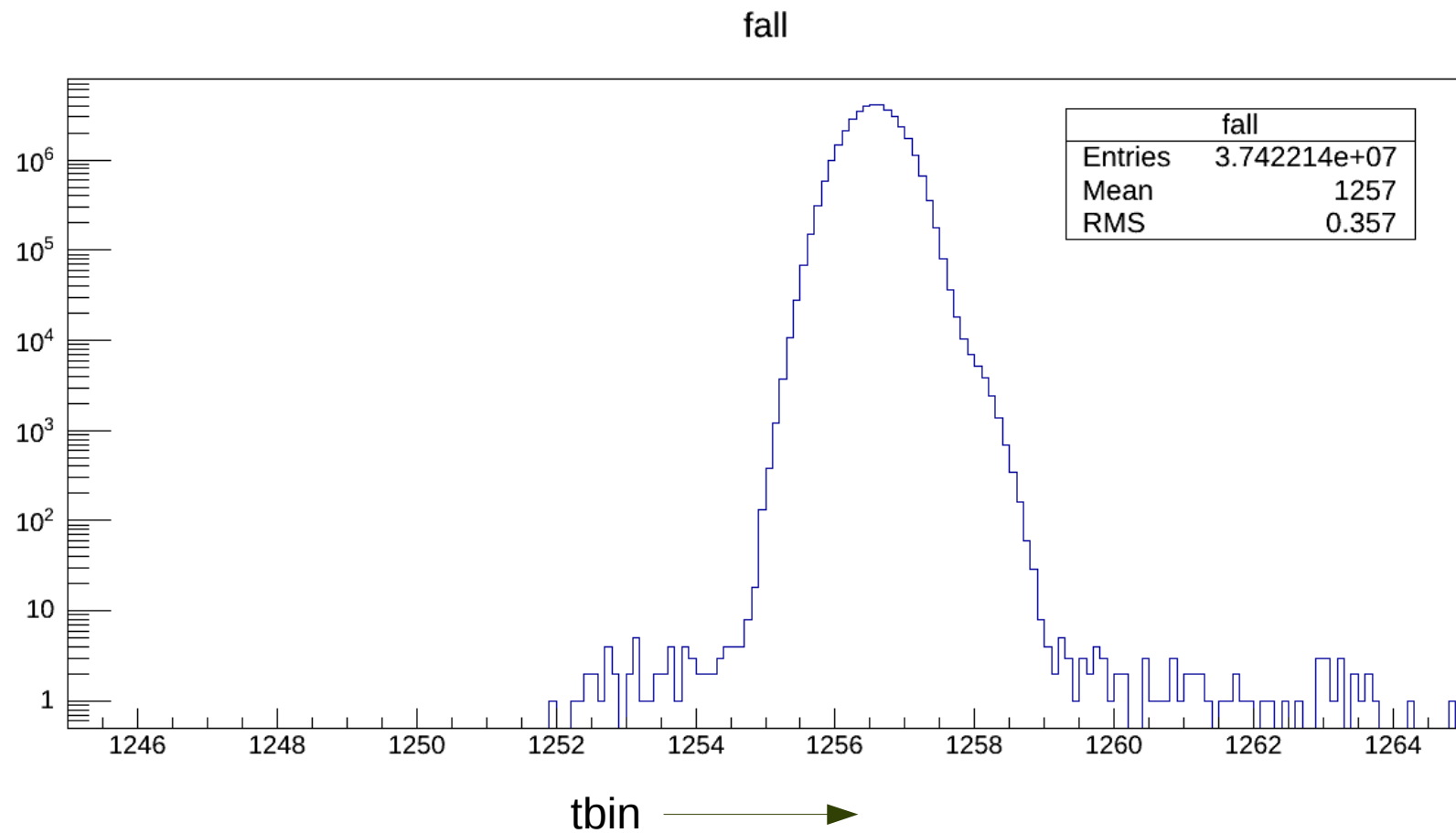


Distribution for rising edge



1 tbin = 10 micro sec

Distribution for falling edge

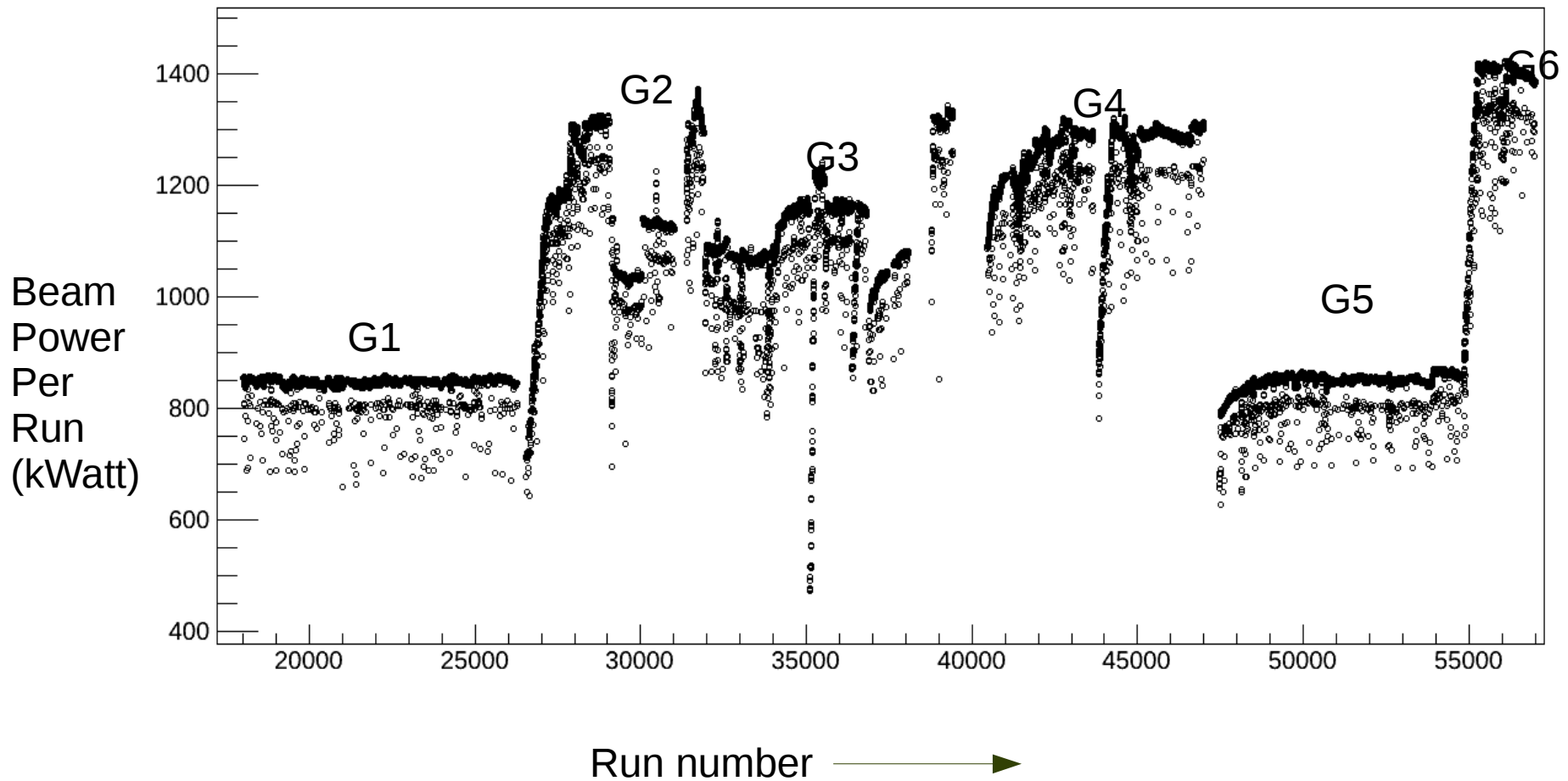


1 tbin = 10 micro sec

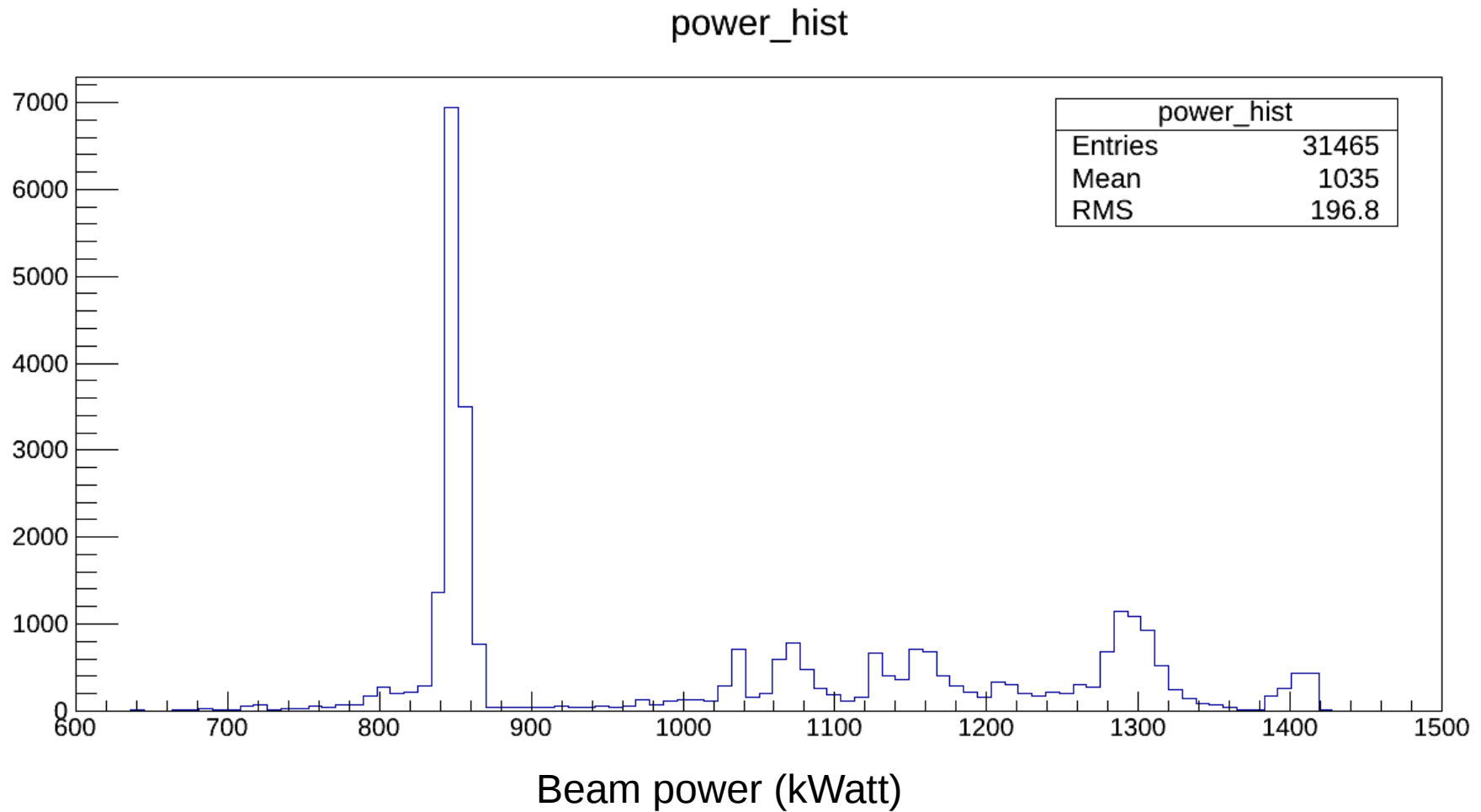
Beam Intensity Cut

1. Divide the entire data set in sub sets based on stable run condition.
2. For each sub set determine optimal cut based on M1 intensity

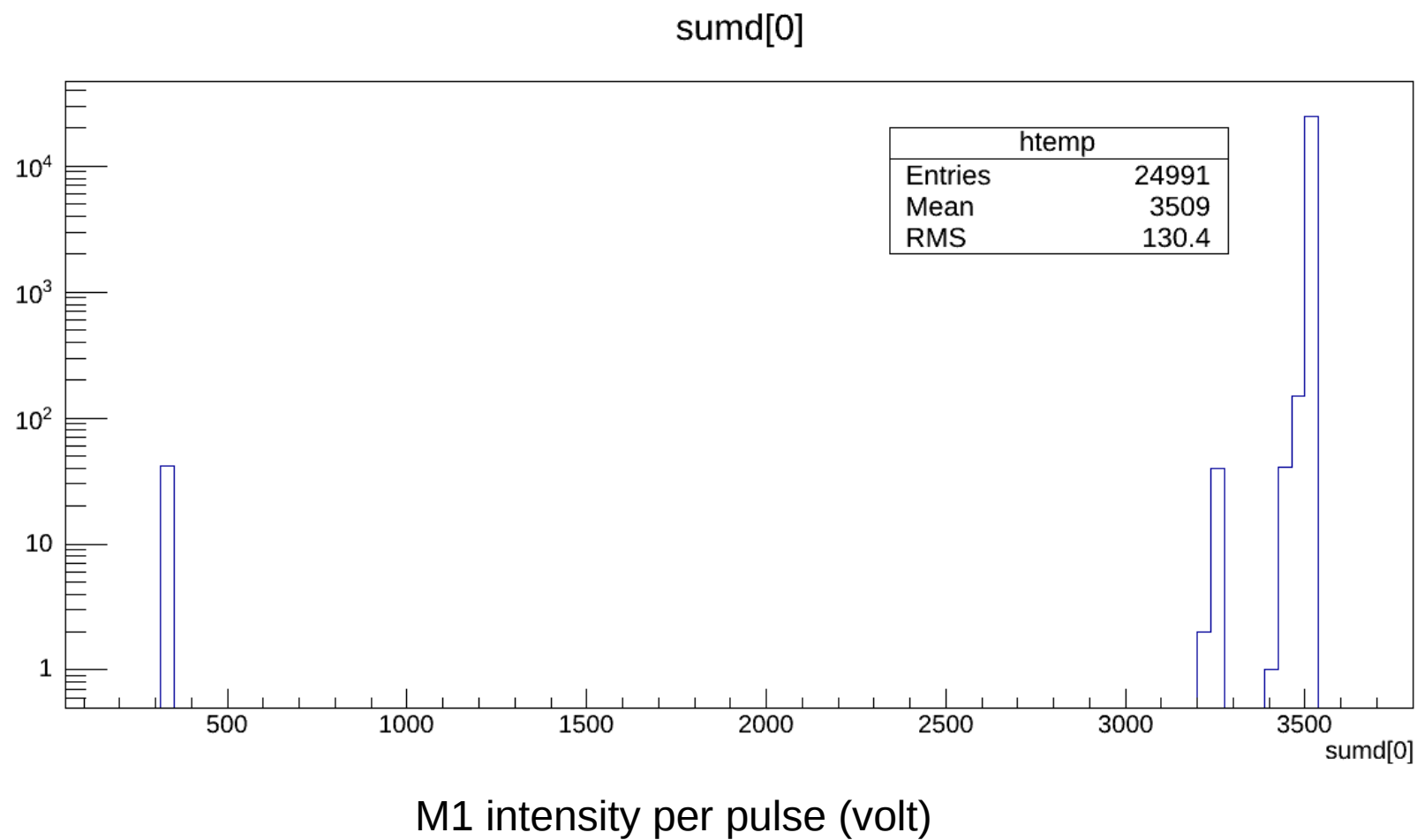
Beam Power for all UD runs



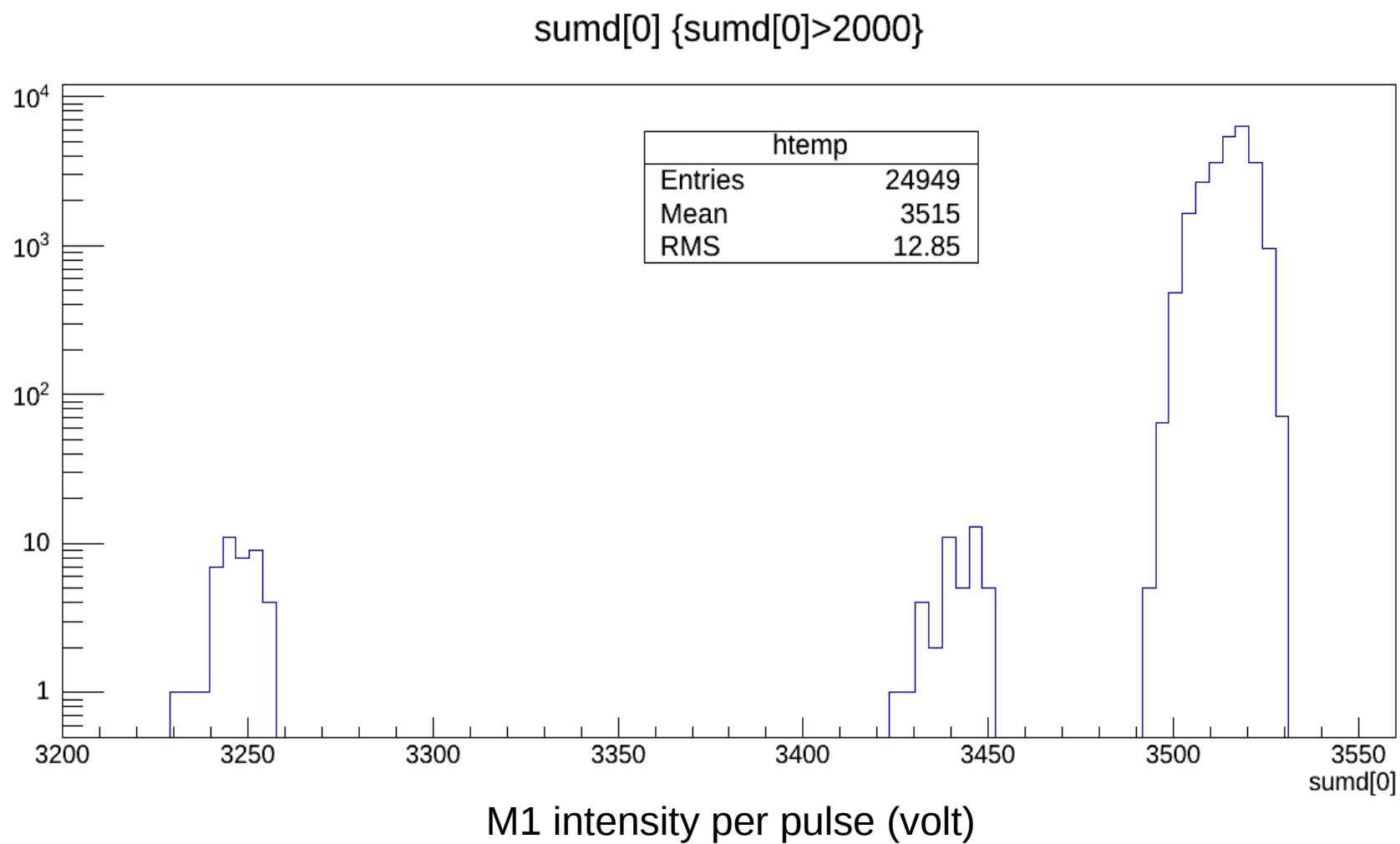
Beam Power for all UD runs



M1 distribution For Run#20100

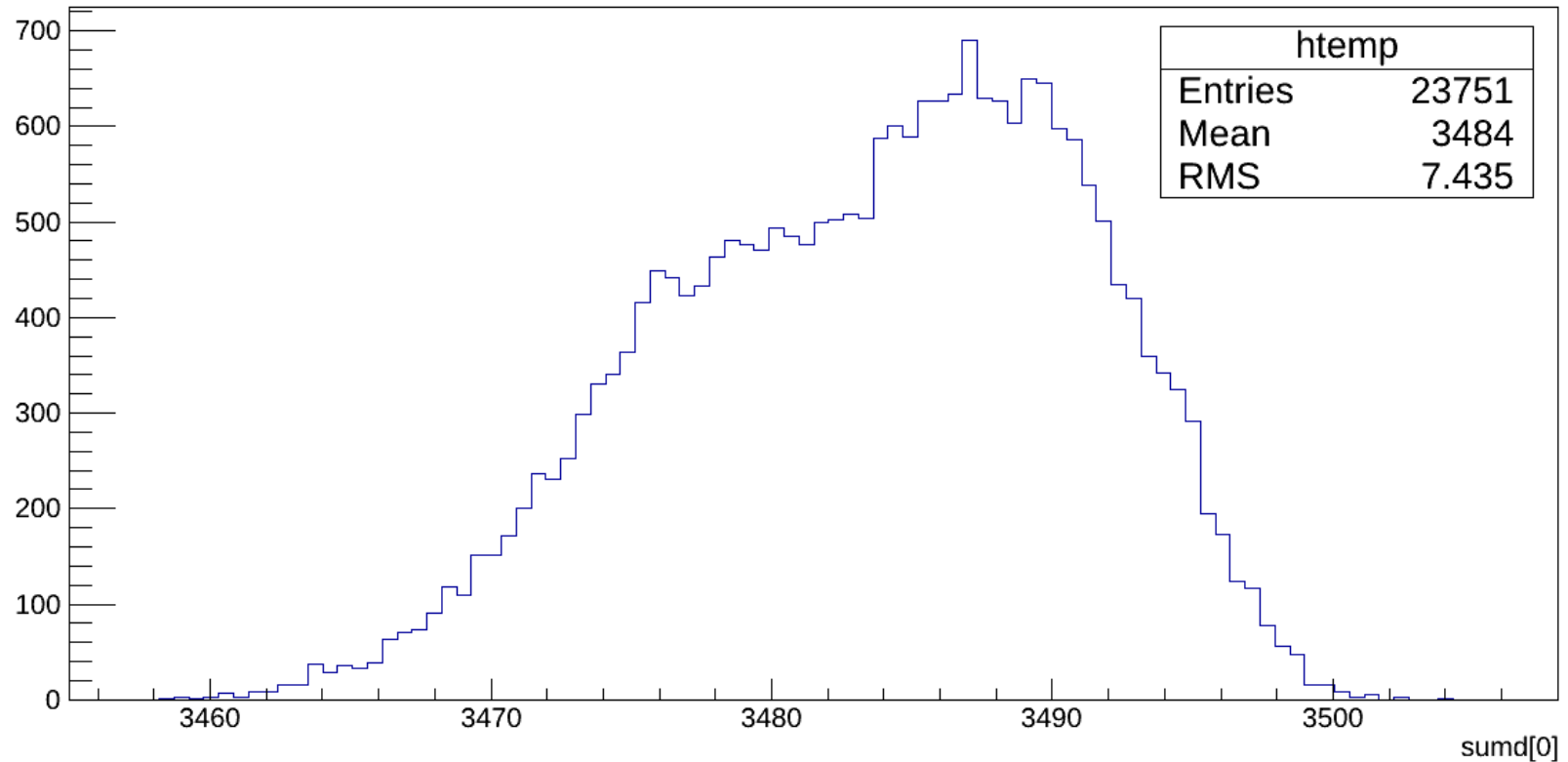


Run 20100 with cut1



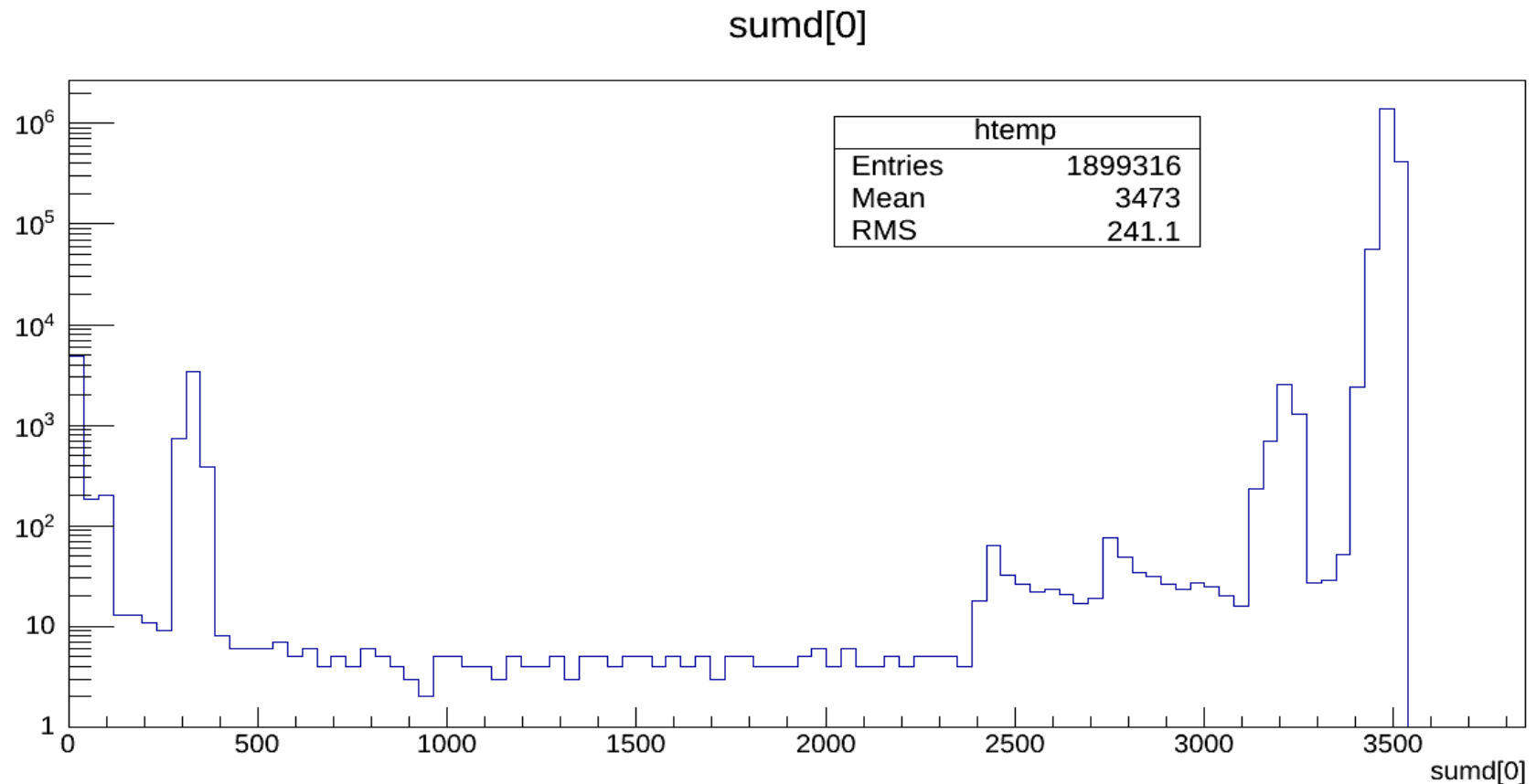
Run 20100 with cut2

sumd[0] {(Entry\$-317)%600>20 && (Entry\$-317)%600!=599}



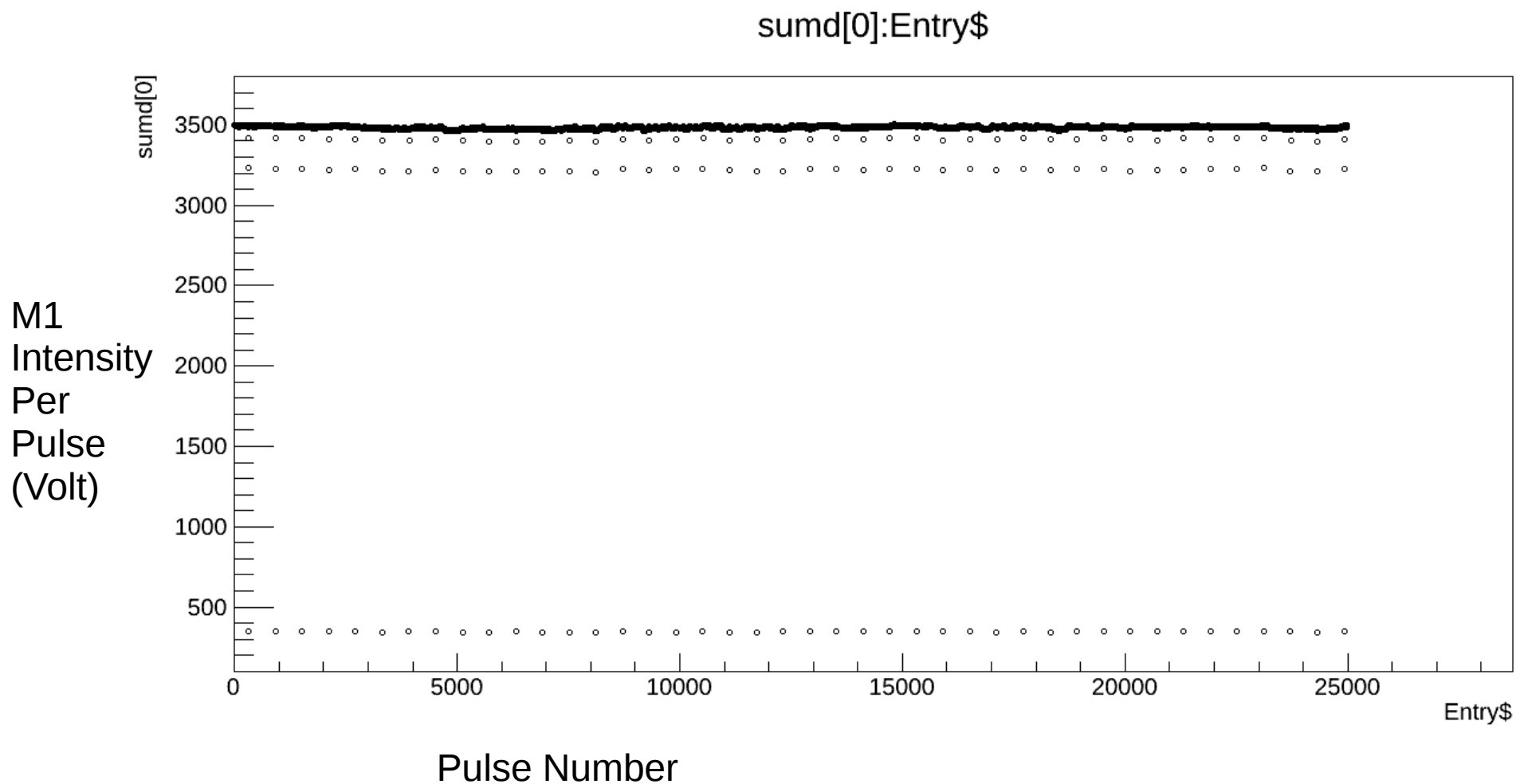
M1 intensity per pulse (volt)

M1 distribution for run range : 20100-20200

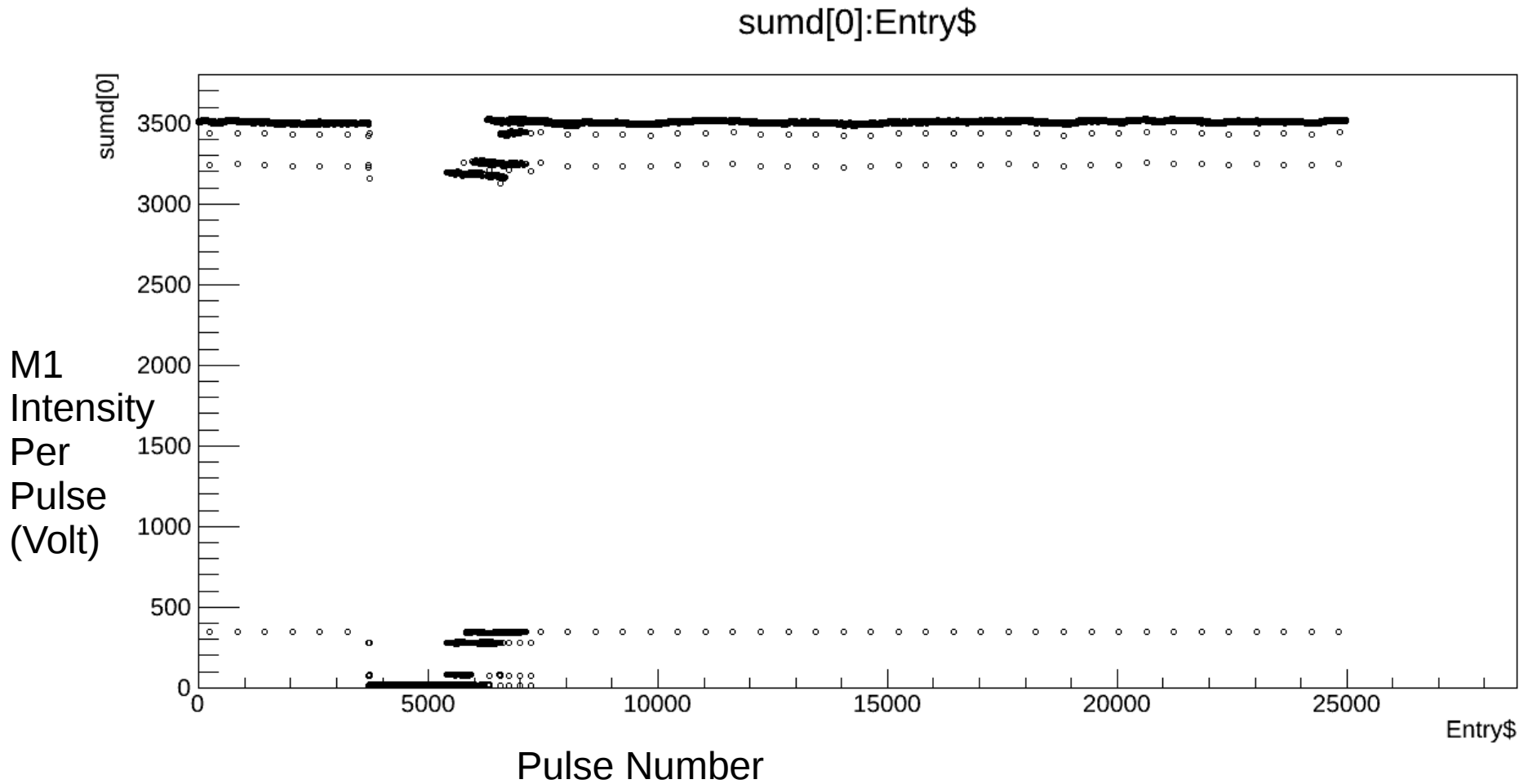


M1 intensity per pulse (volt)

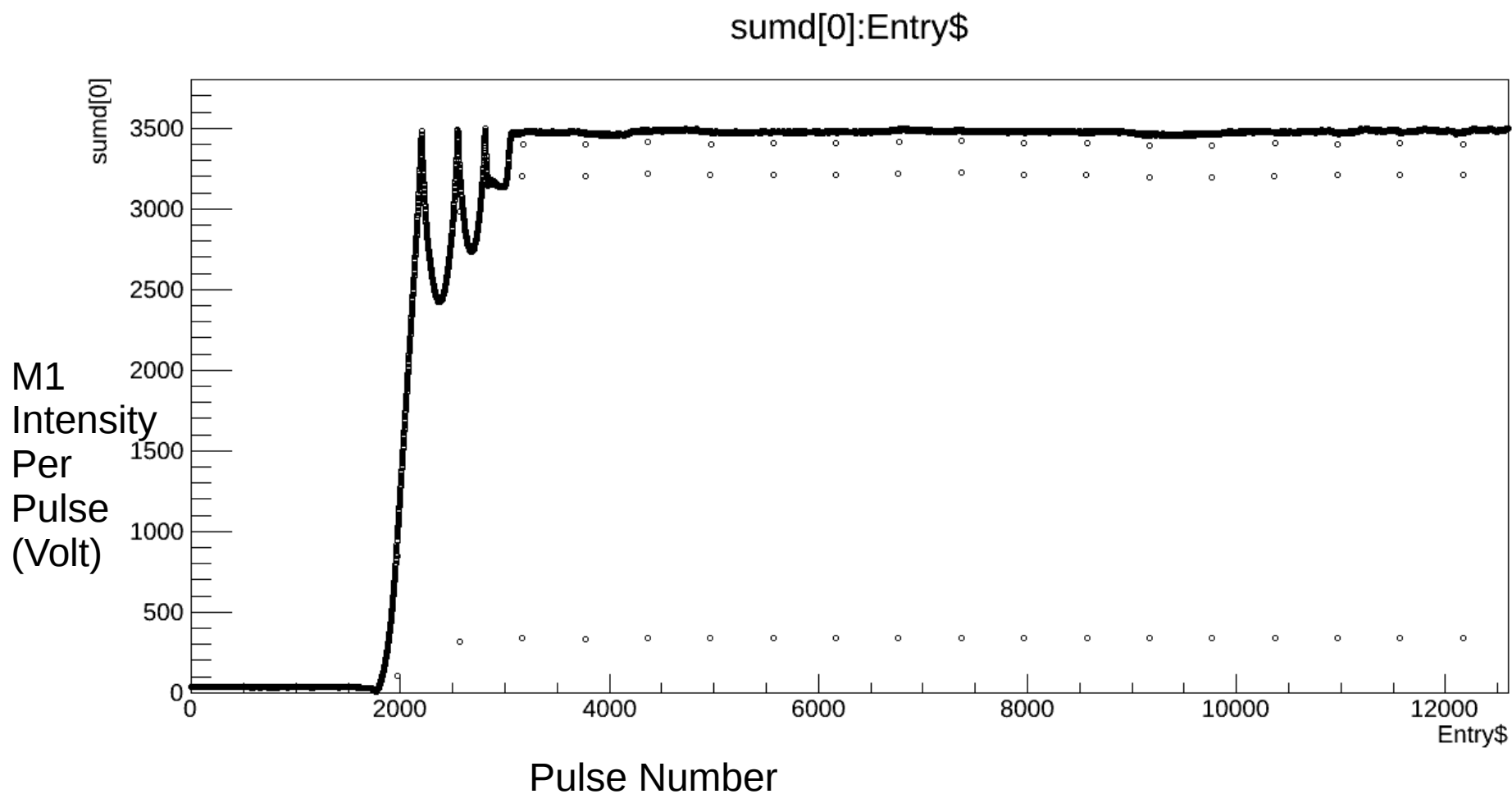
M1 intensity for run#26230



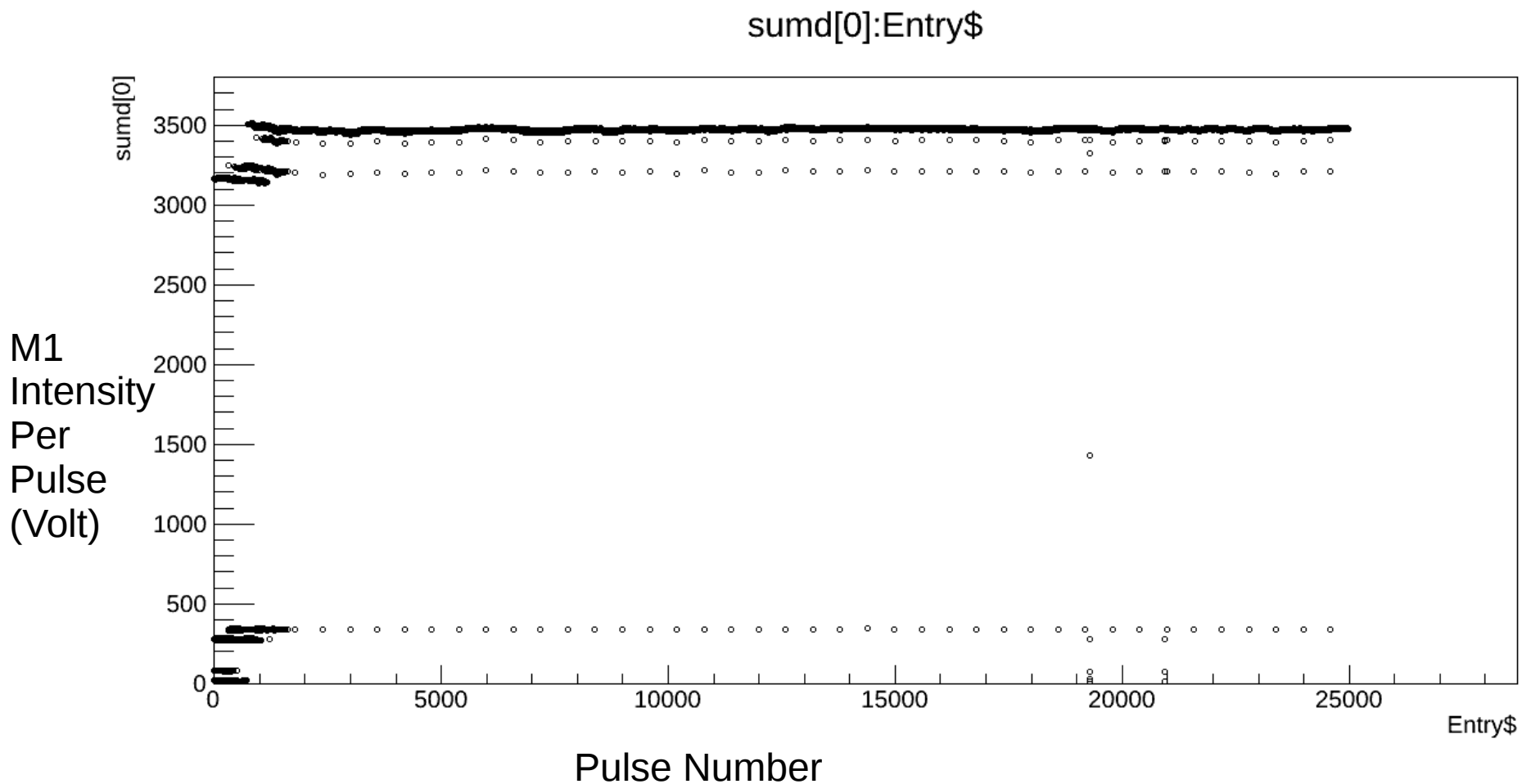
M1 intensity for run#26217



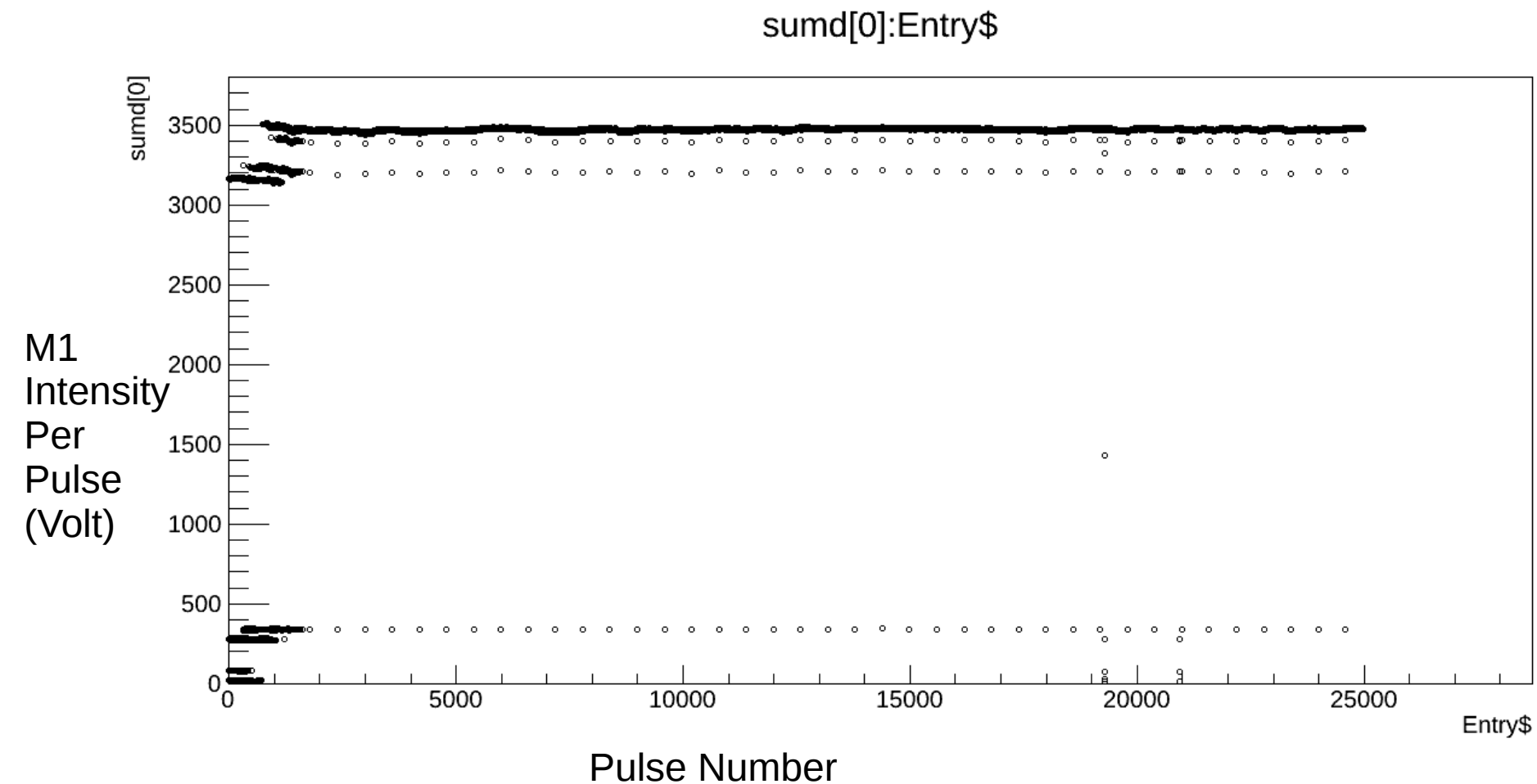
M1 intensity for run#26214



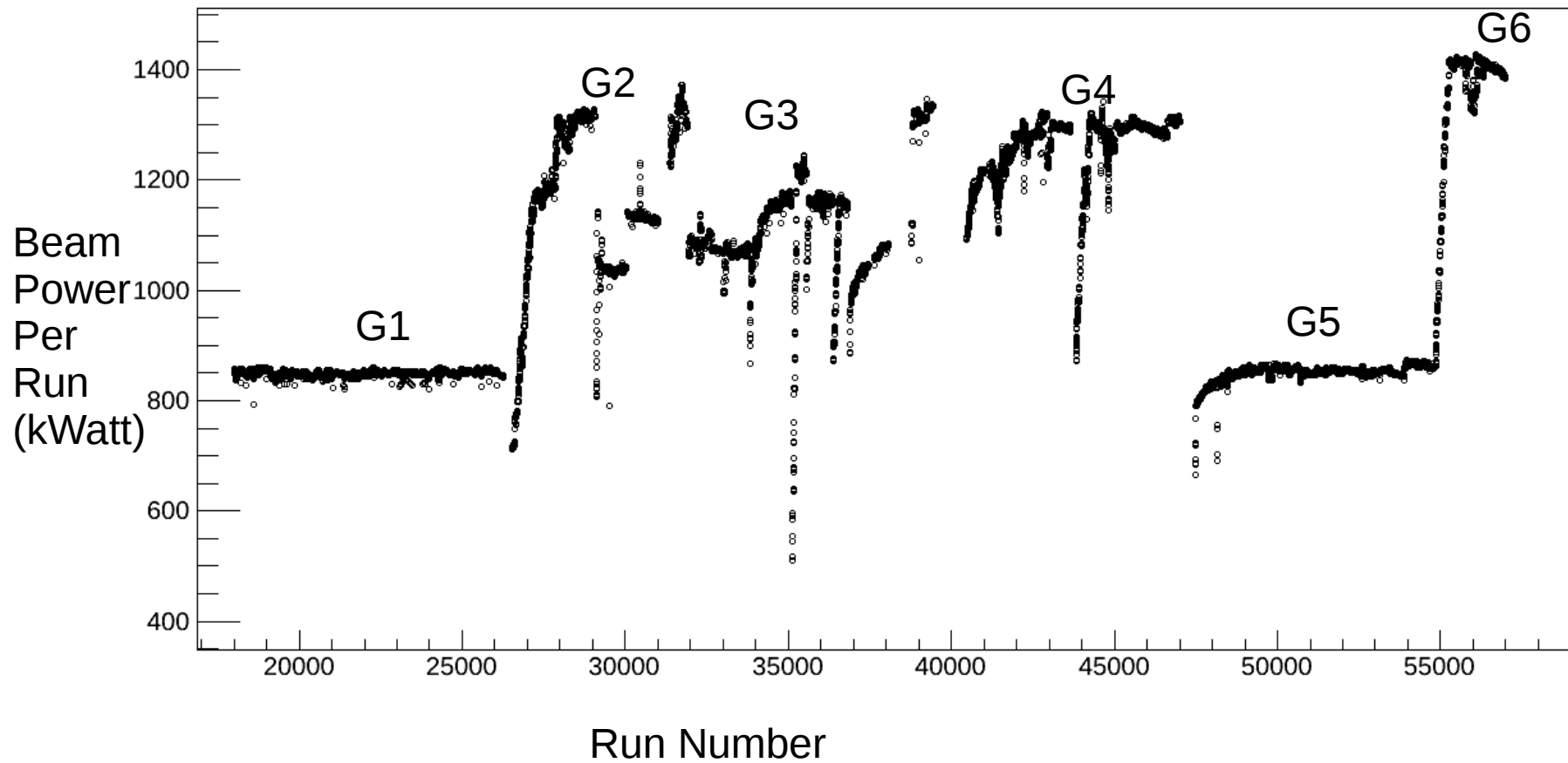
M1 intensity for run#26283



M1 intensity for run#26283



Beam Power for all UD runs with cut



Beam Power distribution for all UD runs

