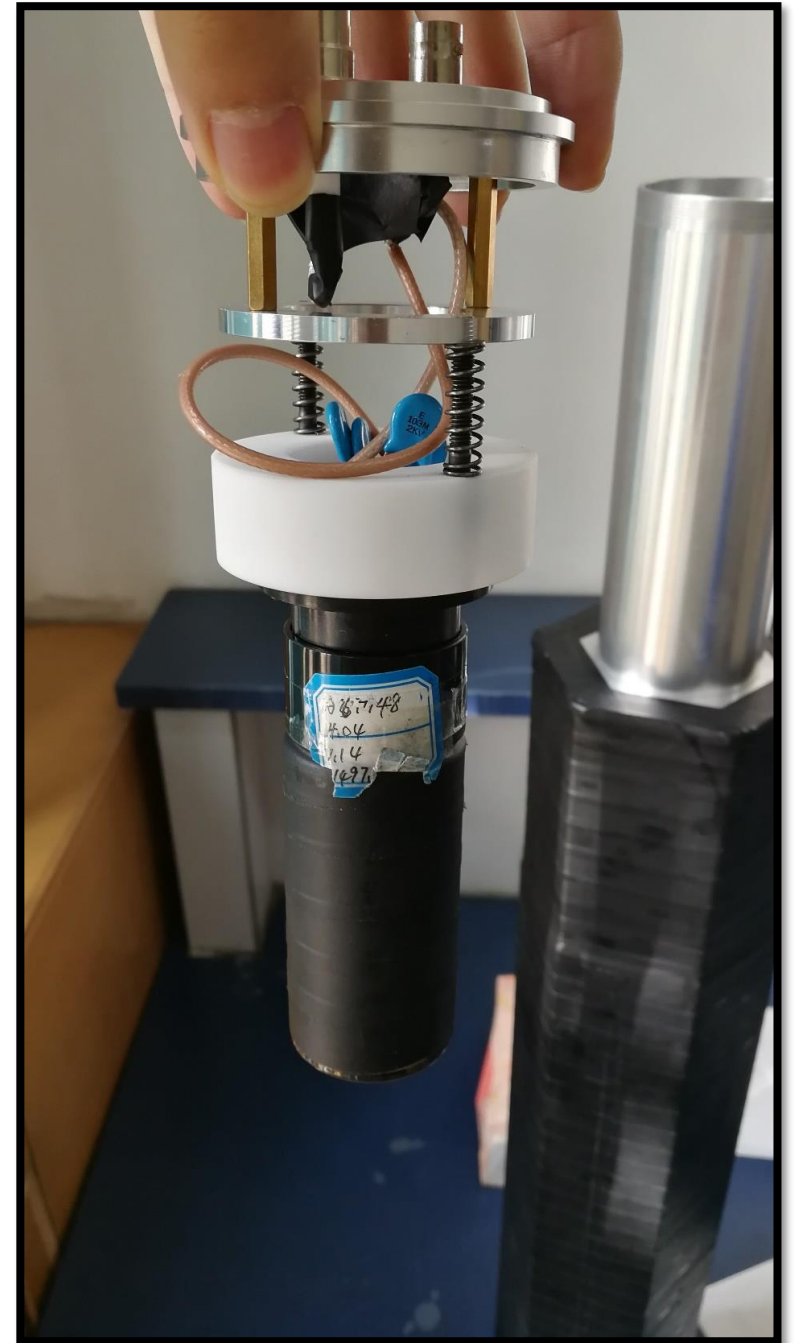
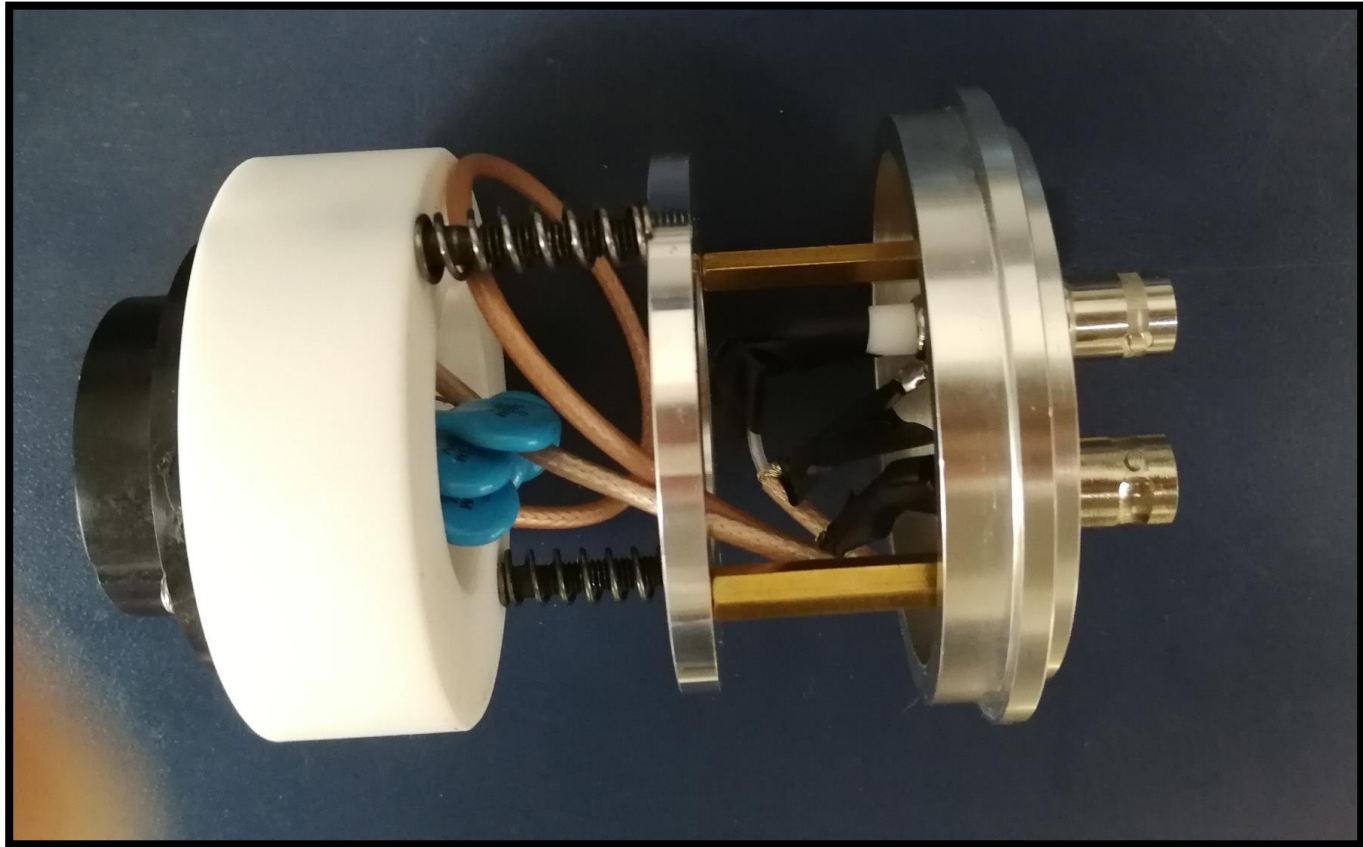


THU2 Cosmic test with SDU PMT

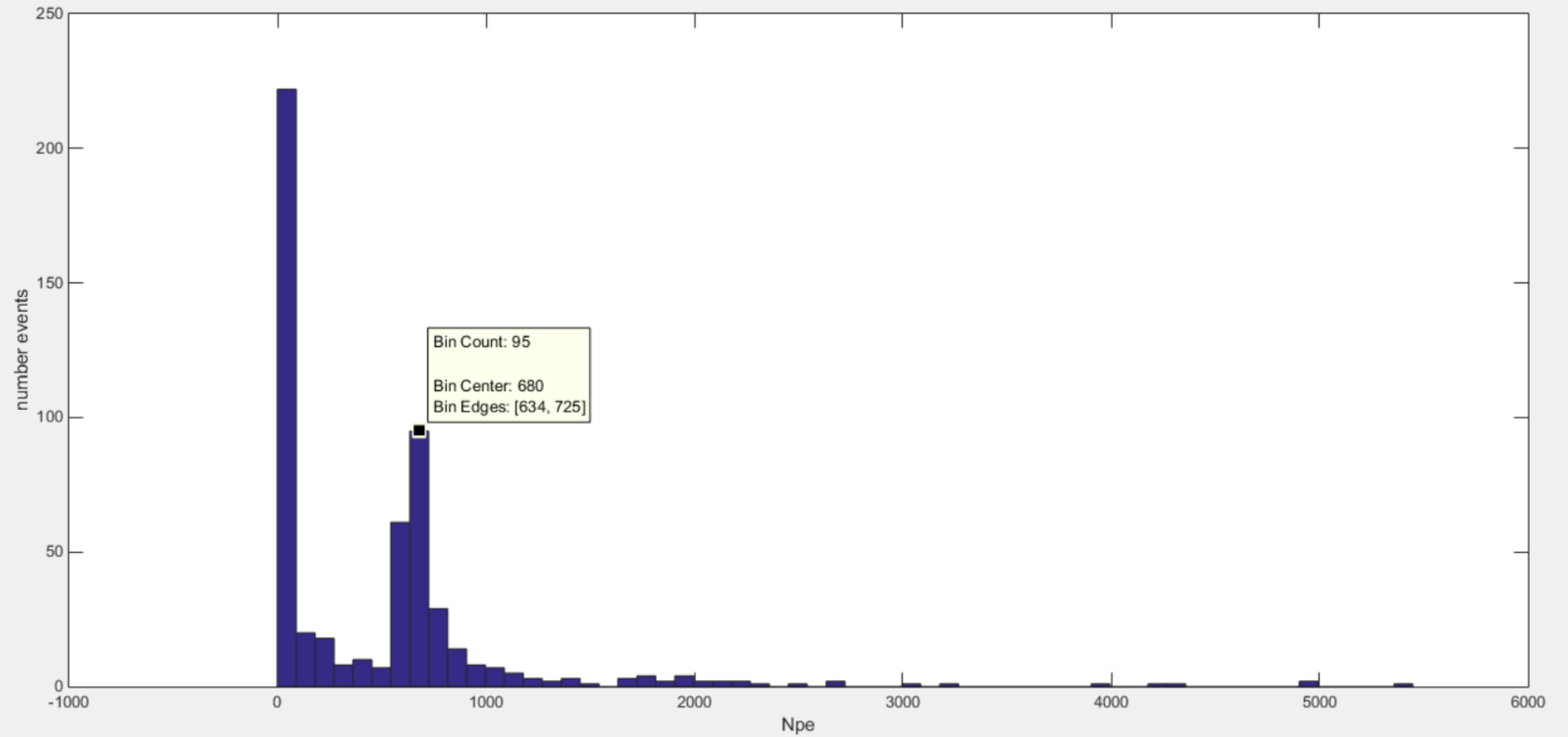
Chendi Shen

2017.11.16

SDU PMT and SDU base

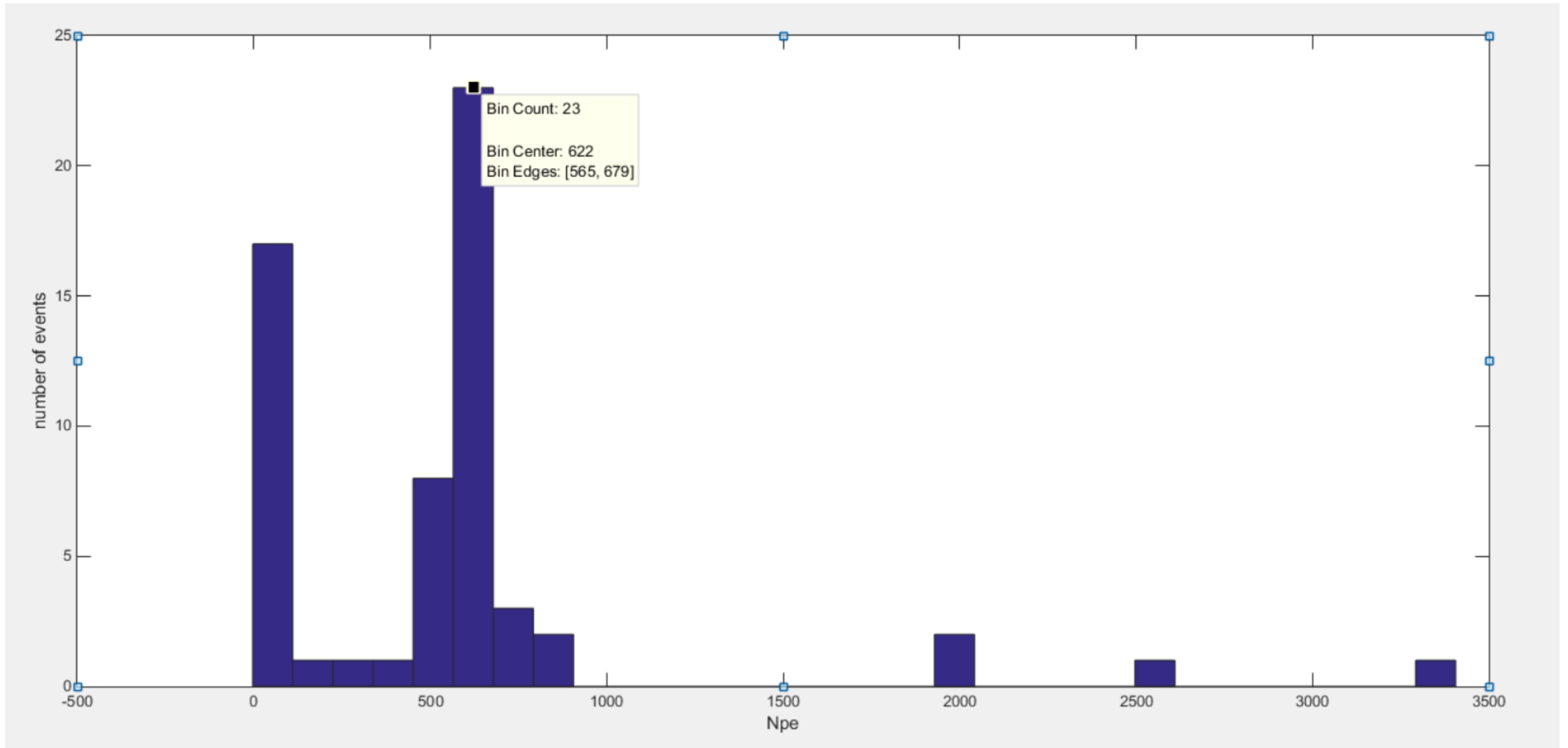


1050V (total number of events: 550)
npe=680



1100V (total number of events: 50)
Npe=622

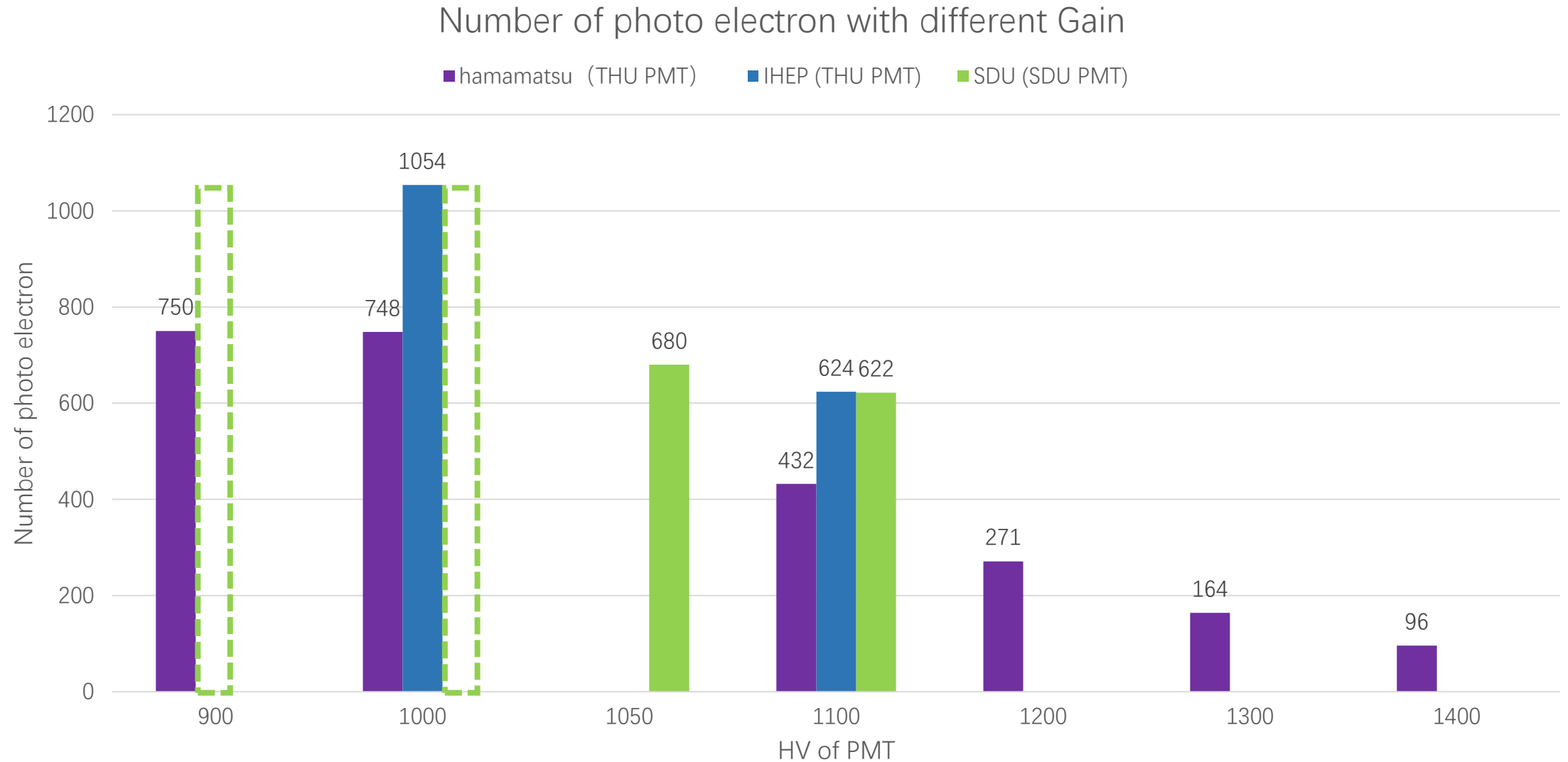
The speed of data taking is very slow (2 events/hour)
I will use one week to get 500 events



Gain of PMT

	THU PMT		SDU PMT
HV	hamamatsu	IHEP	SDU
900	1.3×10^6		
1000	3.1×10^6	2.2×10^6	
1050			4.11×10^6
1100	6.5×10^6	4.5×10^6	5.997×10^6
1200	13.3×10^6		11.227×10^6
1300	26.1×10^6		

Test results



- The SDU PMT is saturated at 1100V, we don't know whether it is also saturated at 1050V
- We need to get Gain of the SDU PMT under 1000V and 900V to compare with the results what we have got.