

NEON(R&D)

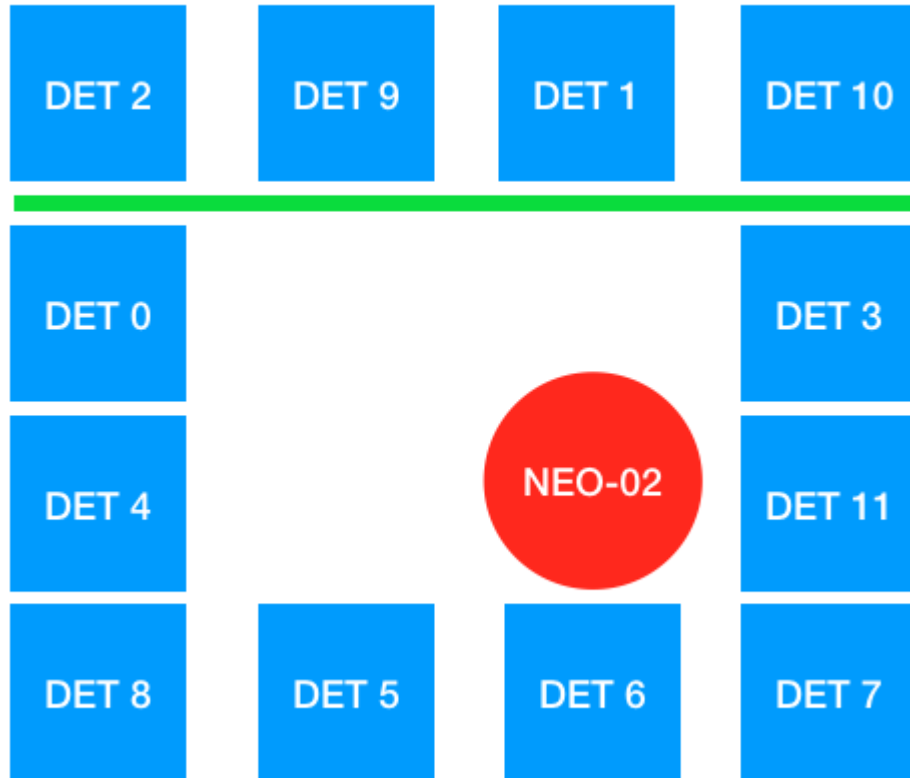
2020/01/22
Jae Jin Choi



NEO2 configuration

nSet16

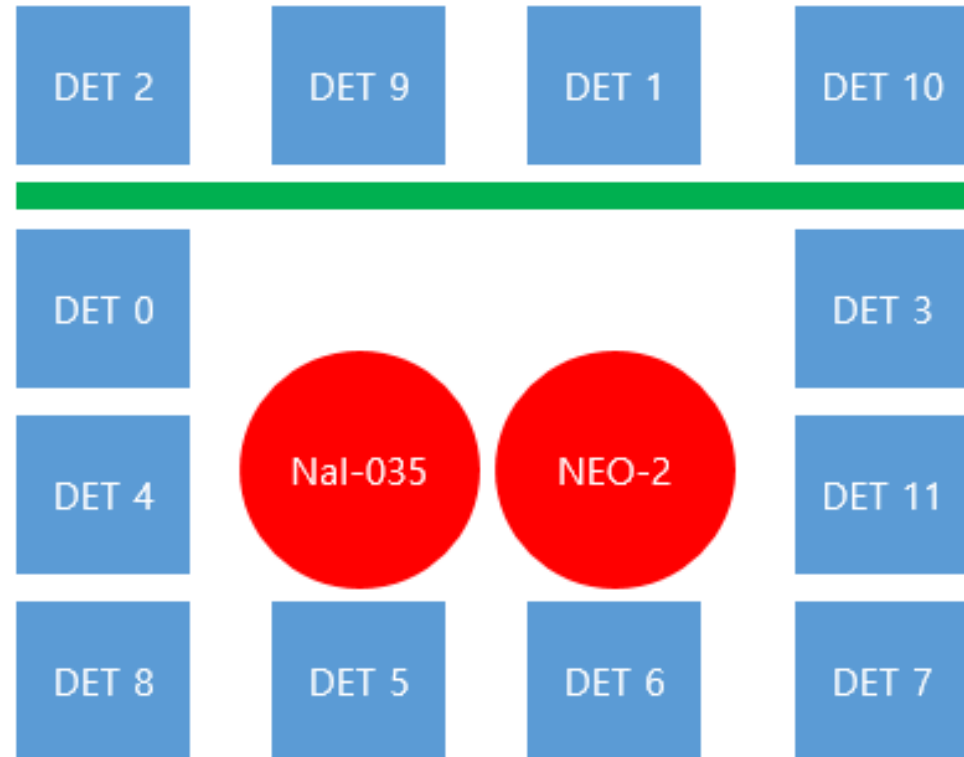
2019/08/12



Run : 606(830 hour)

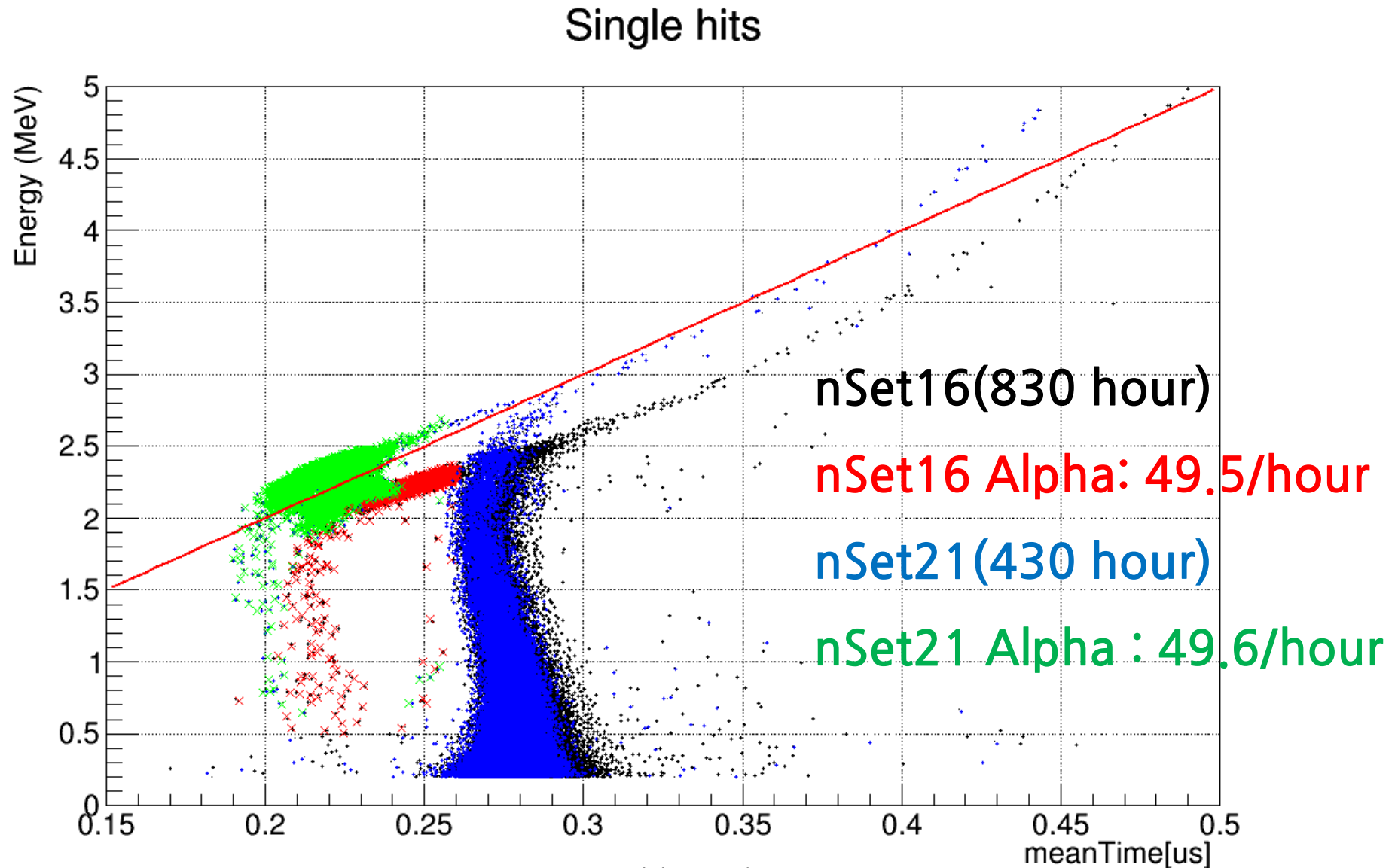
nSet21

2019/12/18

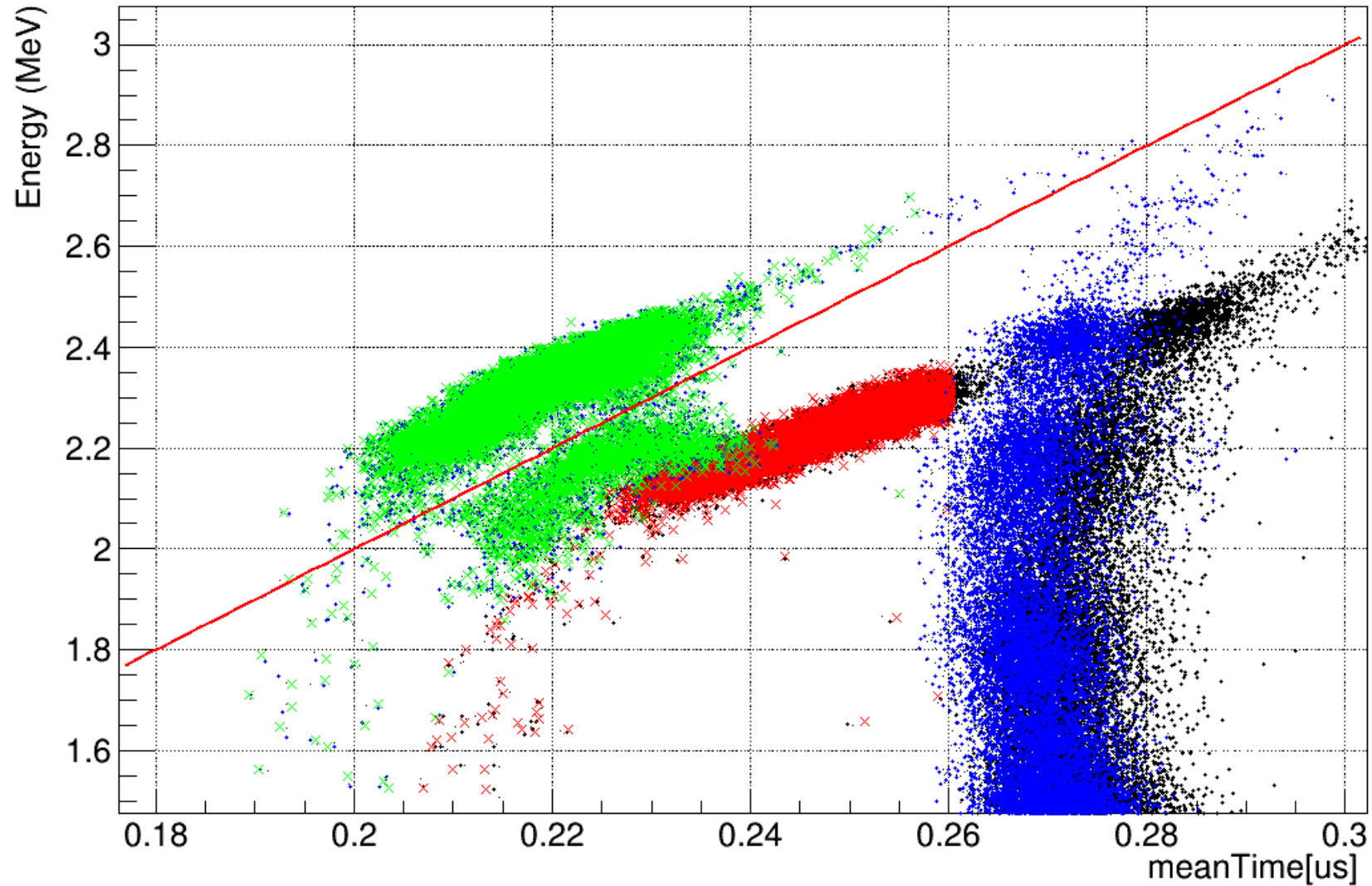


Run : 676(448 hour)

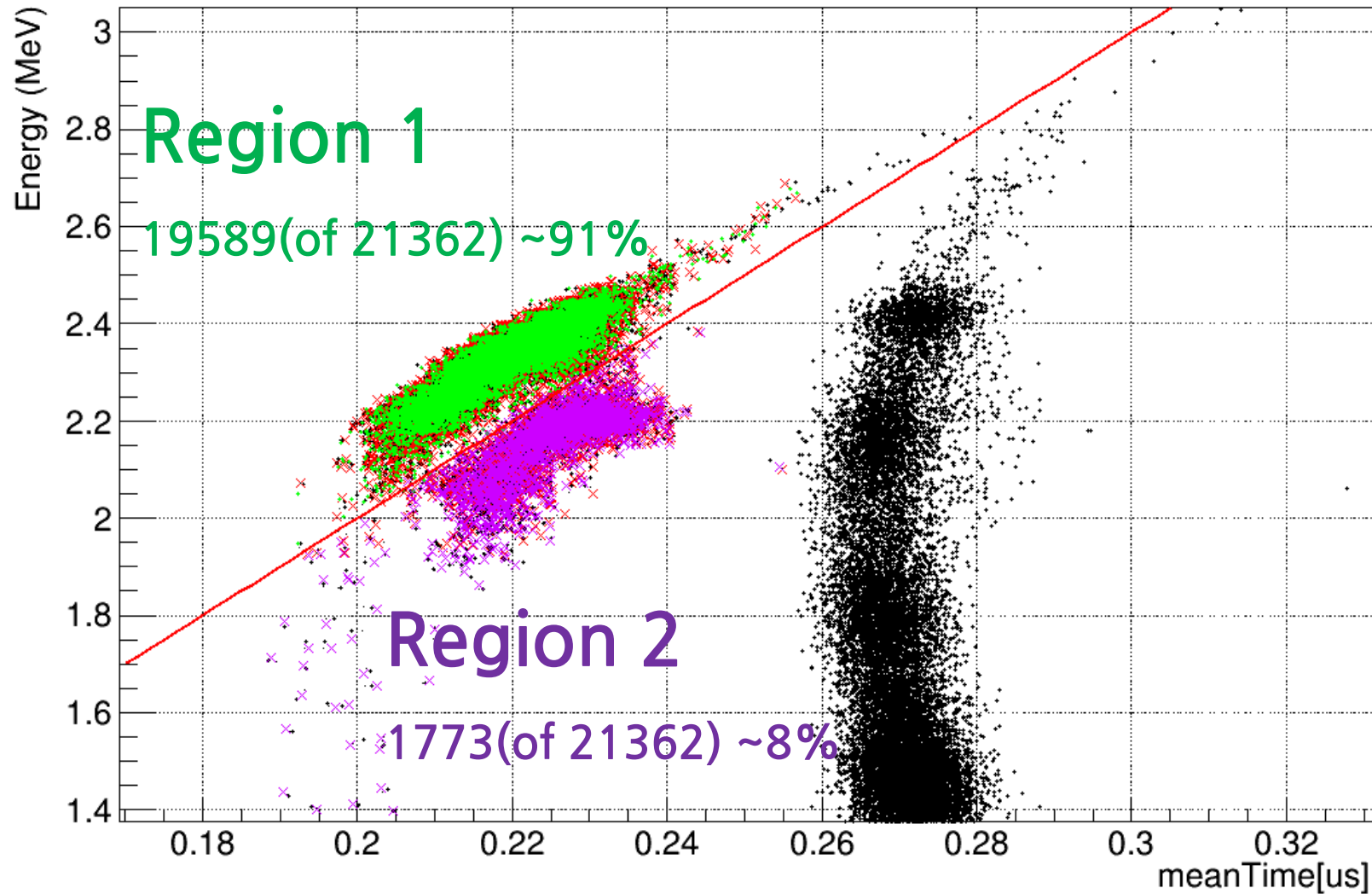
NEO2 alpha(two peak appeared)



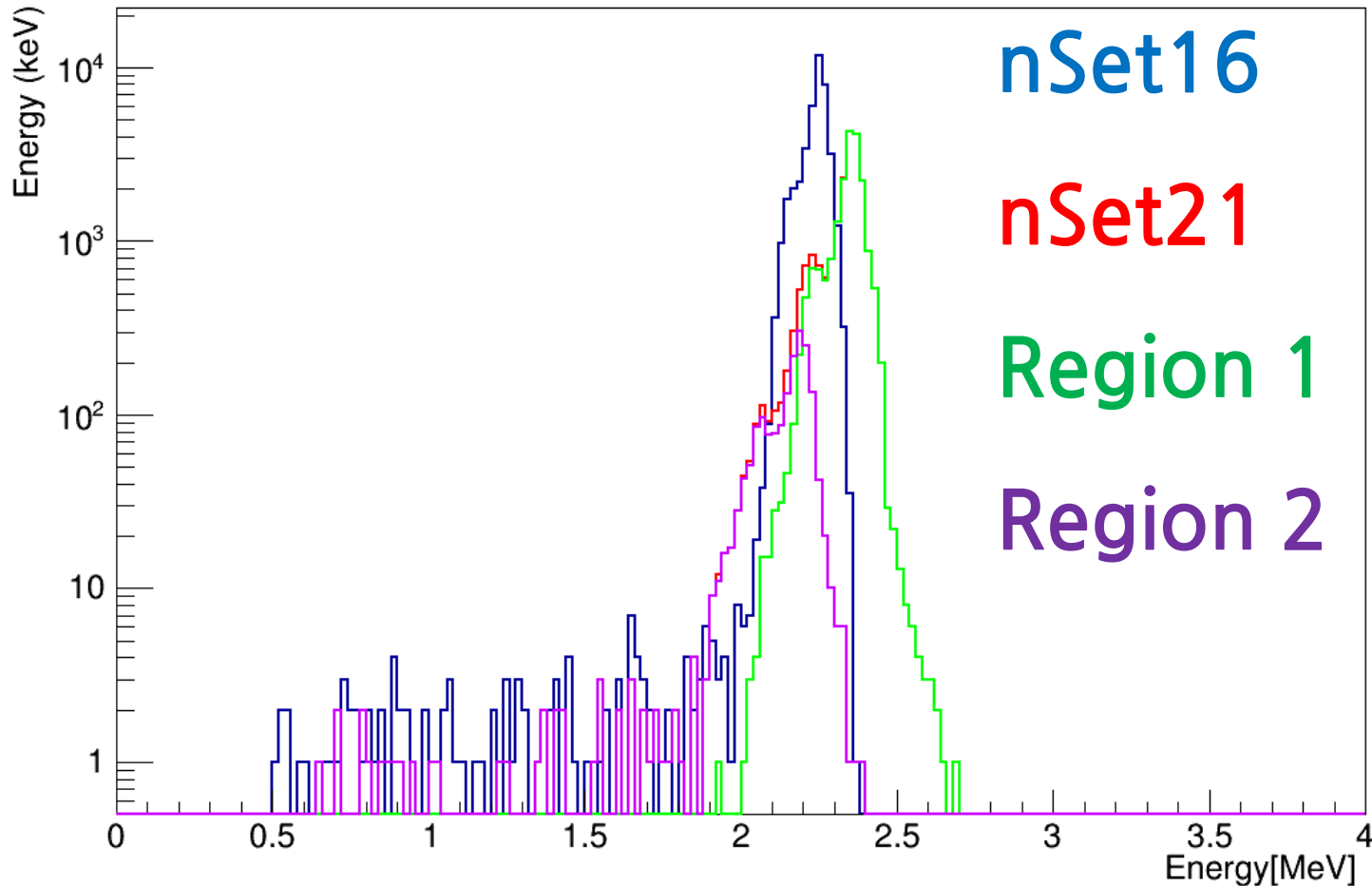
NEO2 alpha(two peak appeared)



NEO2 alpha(two peak appeared)



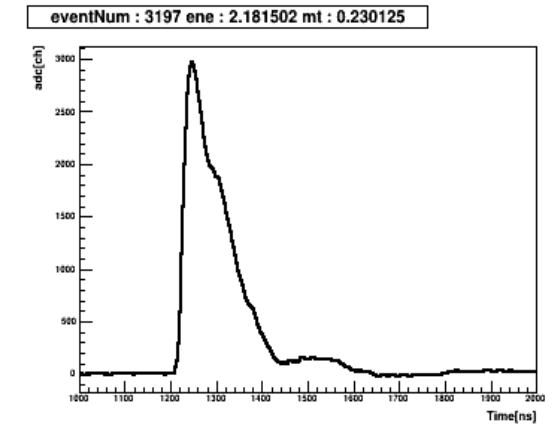
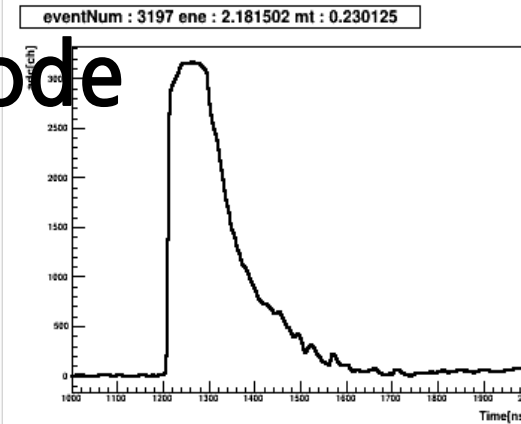
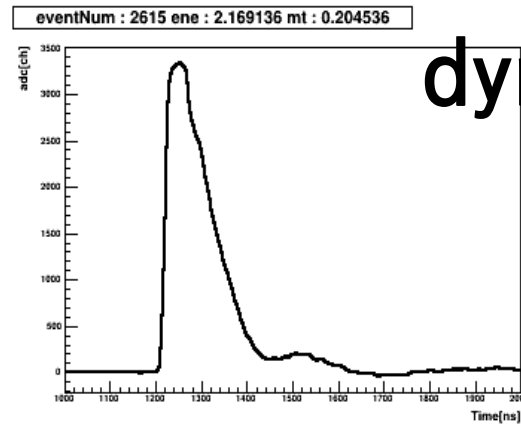
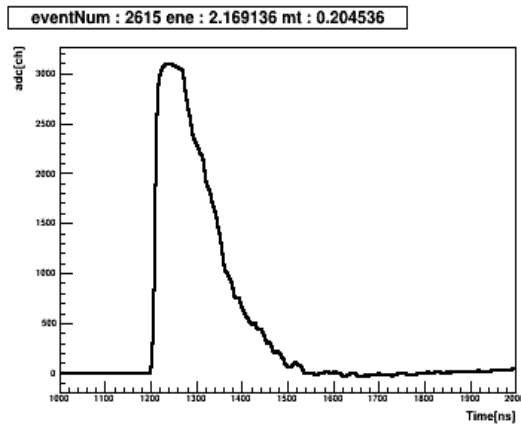
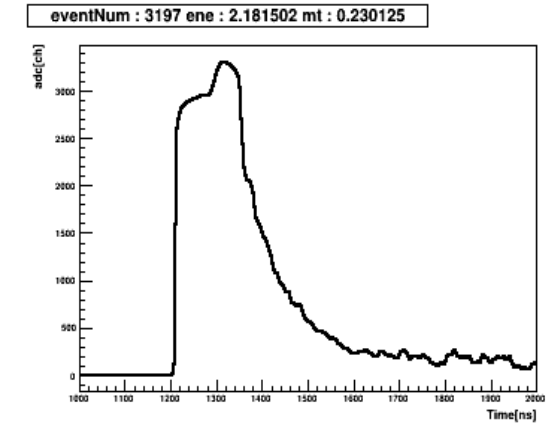
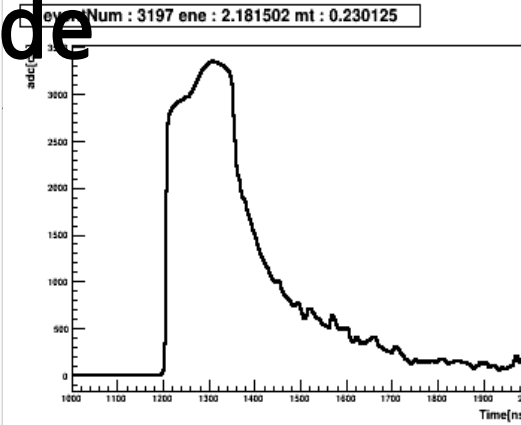
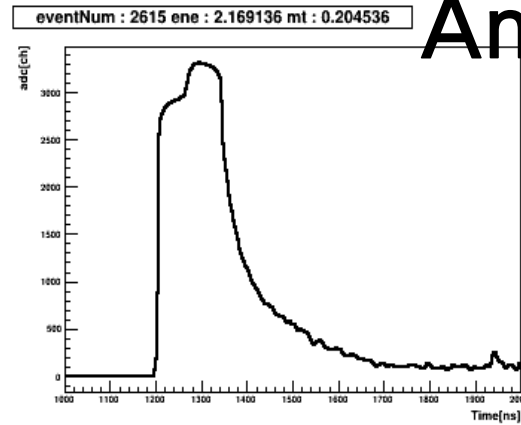
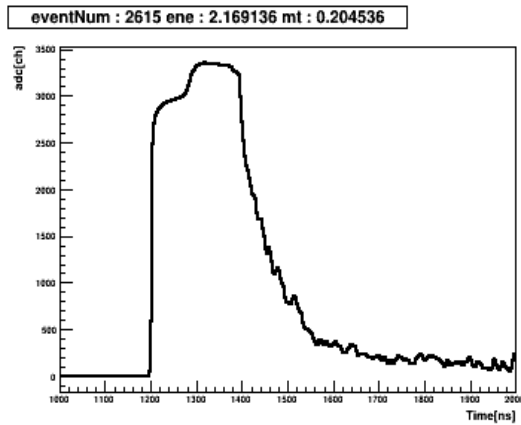
NEO2 alpha(two peak appeared)



NEO2 alpha waveform(two peak appeared)

Anode

dynode



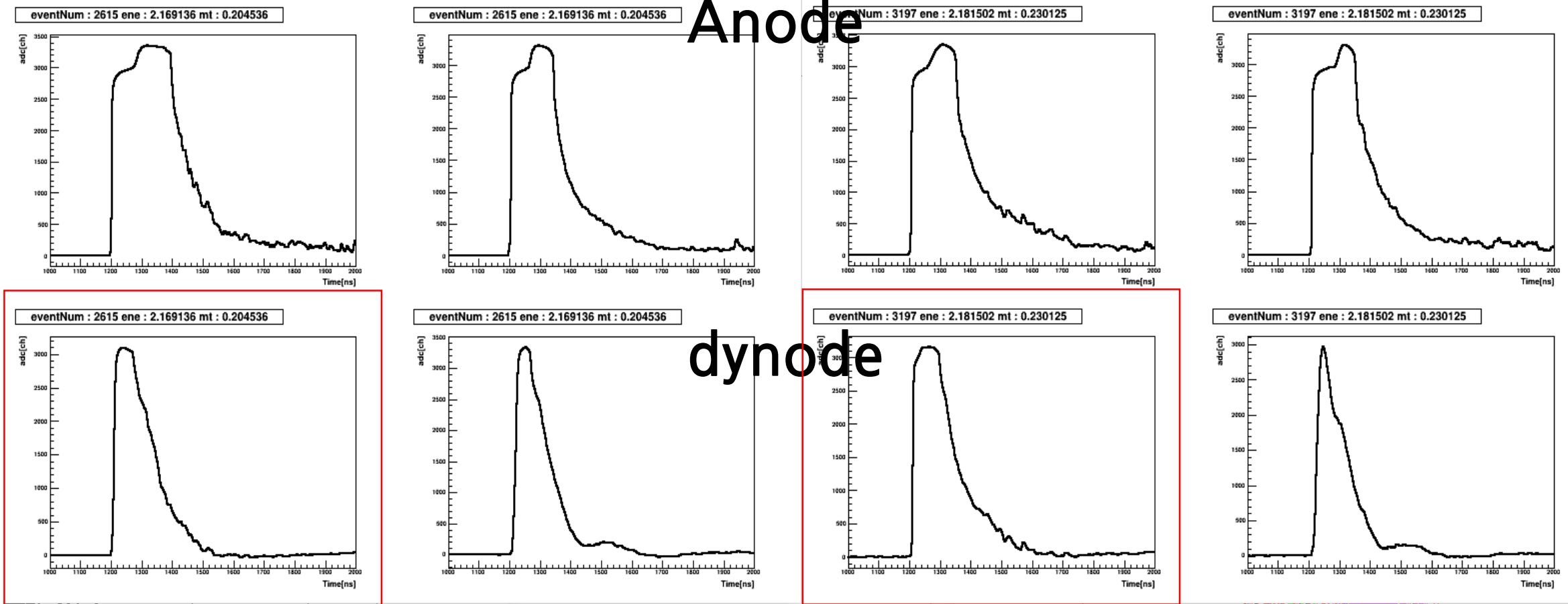
Region 1

Region 2

NEO2 alpha waveform(two peak appeared)

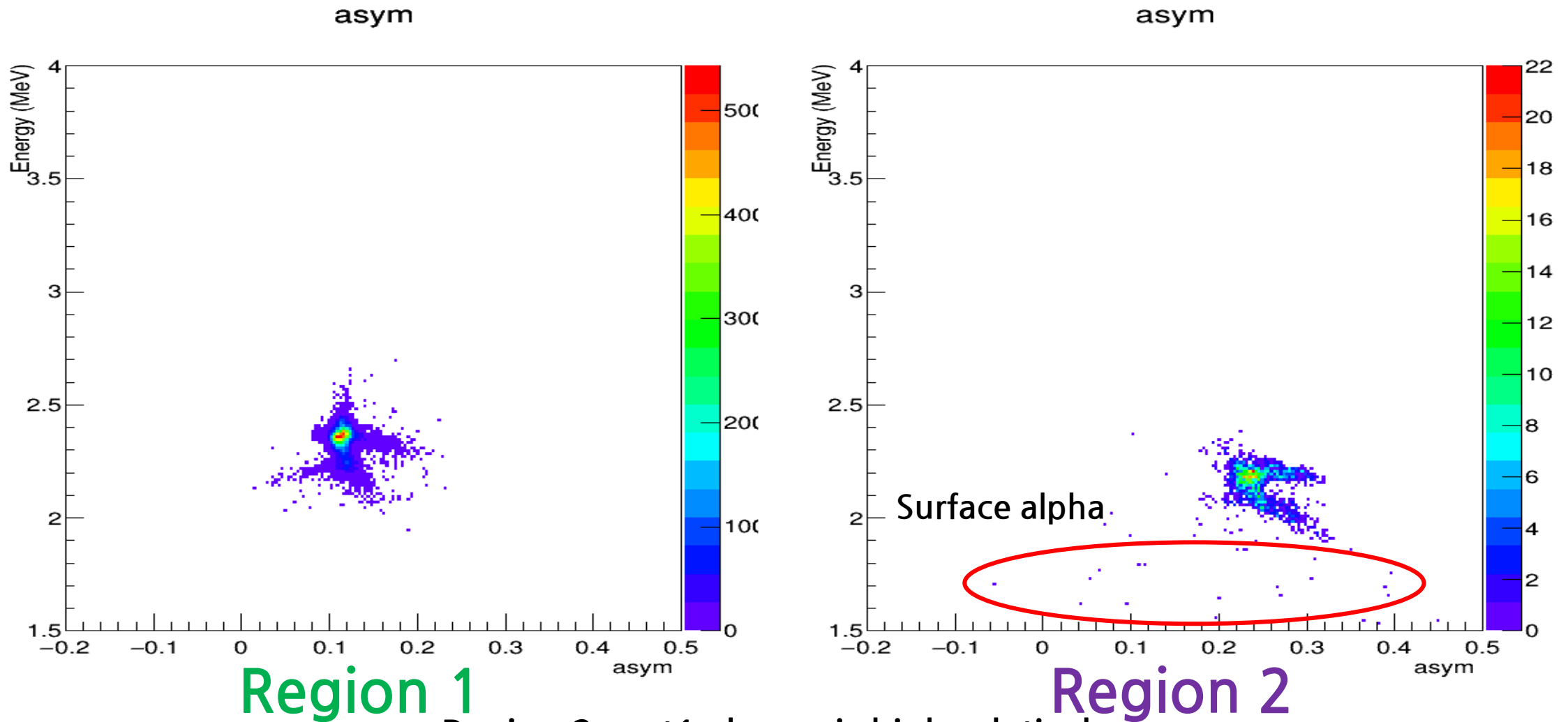
Anode

dynode



Region 1(1.mtD1_5 : 0.198) Region 2(1.mtD1_5 : 0.252)

NEO2 alpha asymmetry



Region 2 pmt1 charge is high relatively

Region 2 alpha events are from A side



NEO2 alpha asymmetry



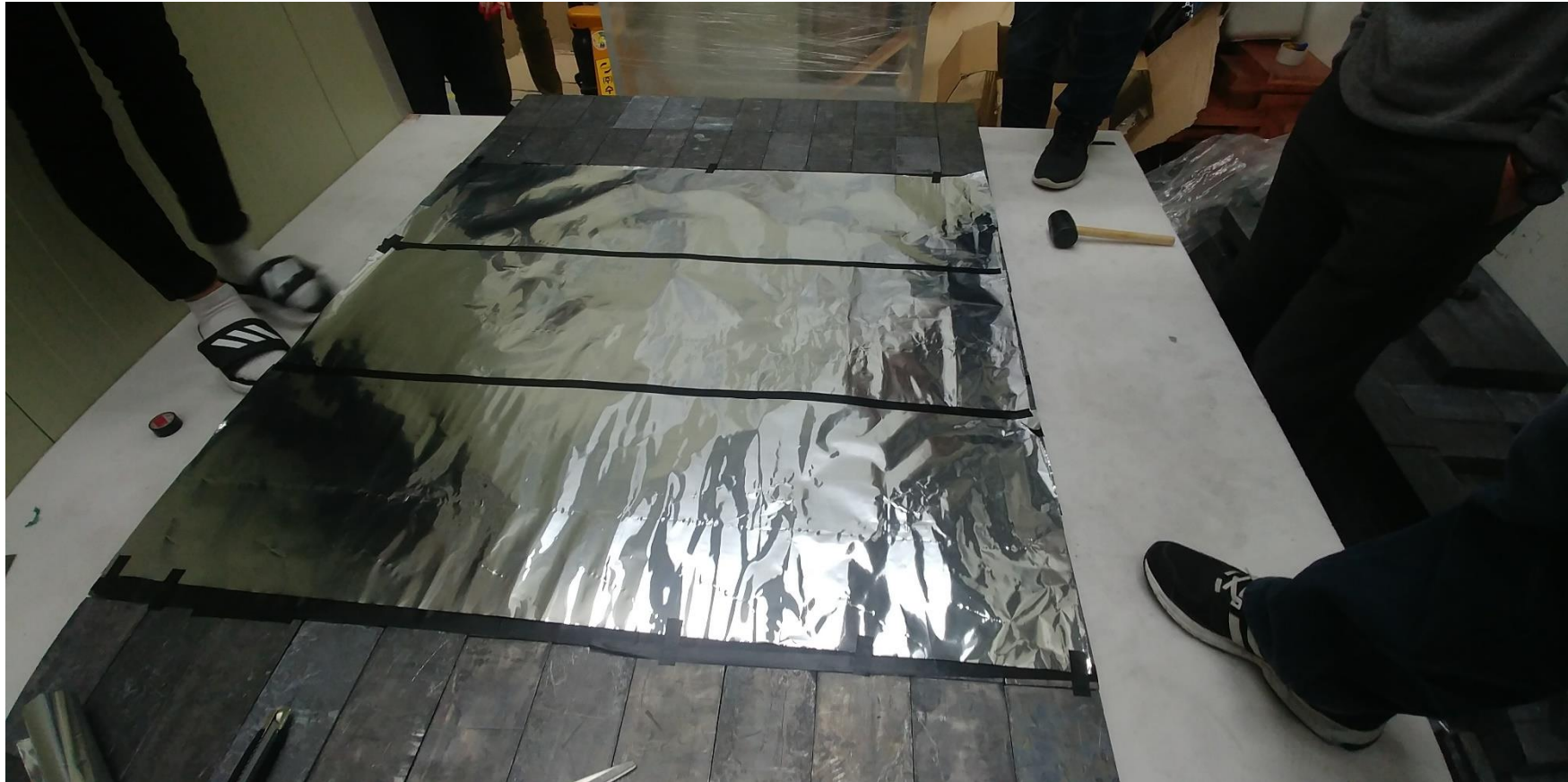
After disassembling, side A

Assumption : disassembling aggravated NEO2 crack

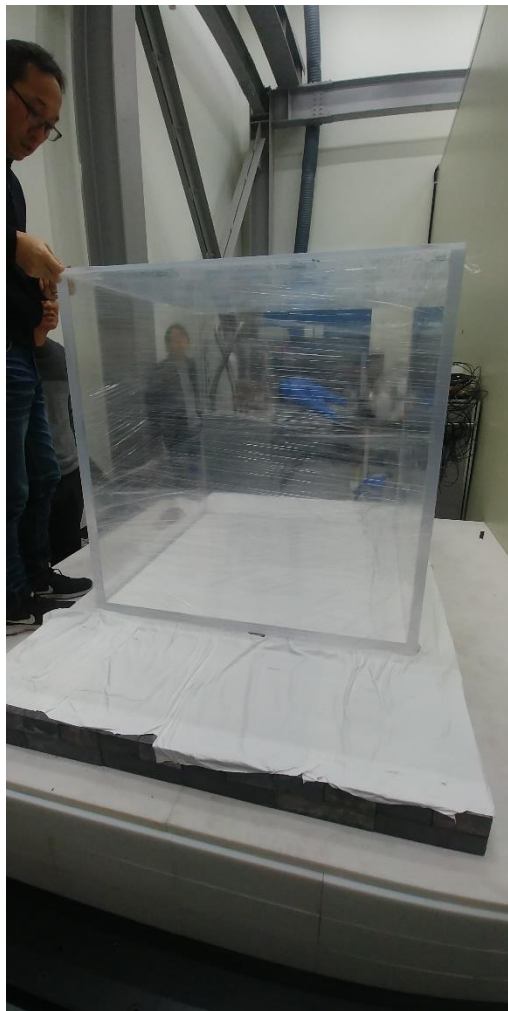
Region 2 alpha events are from crack



Basement setup



Basement setup



Basement setup

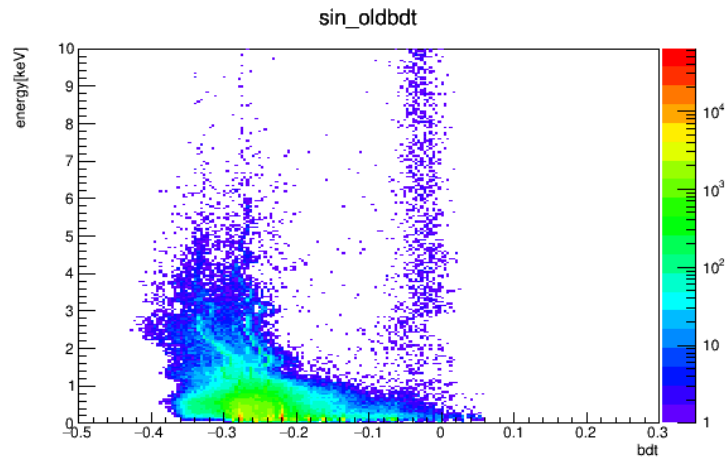


Backup

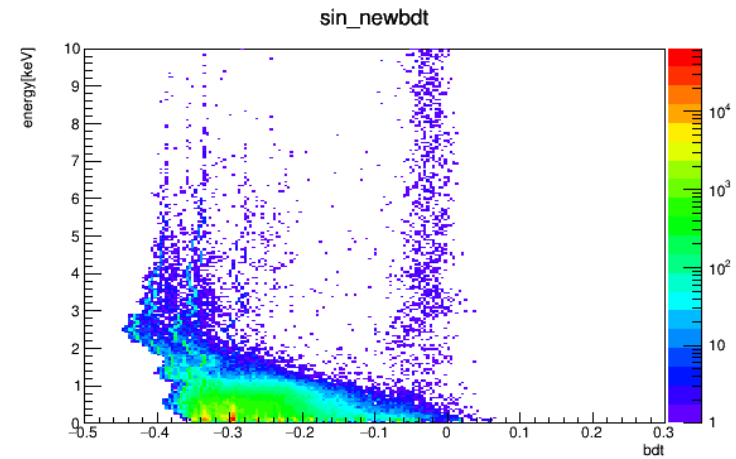
NEO3 BDT

single

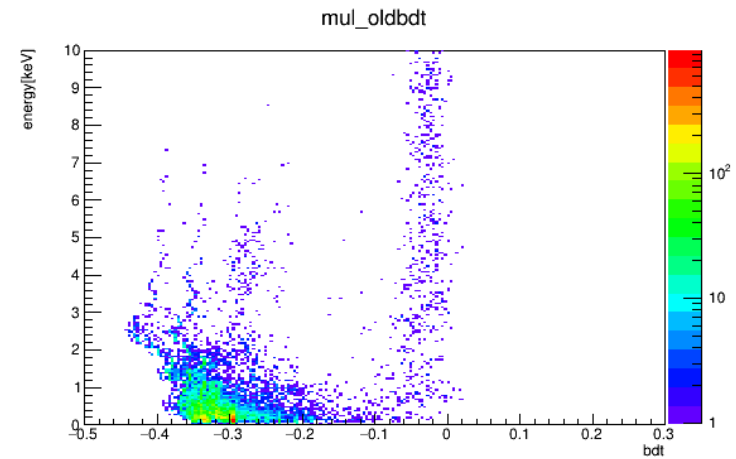
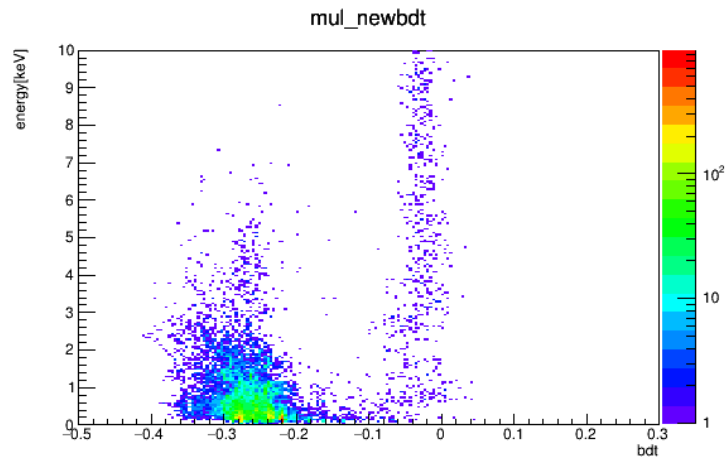
Old BDT



New BDT



multiple



NEO3 BDT

single_spectrum

