

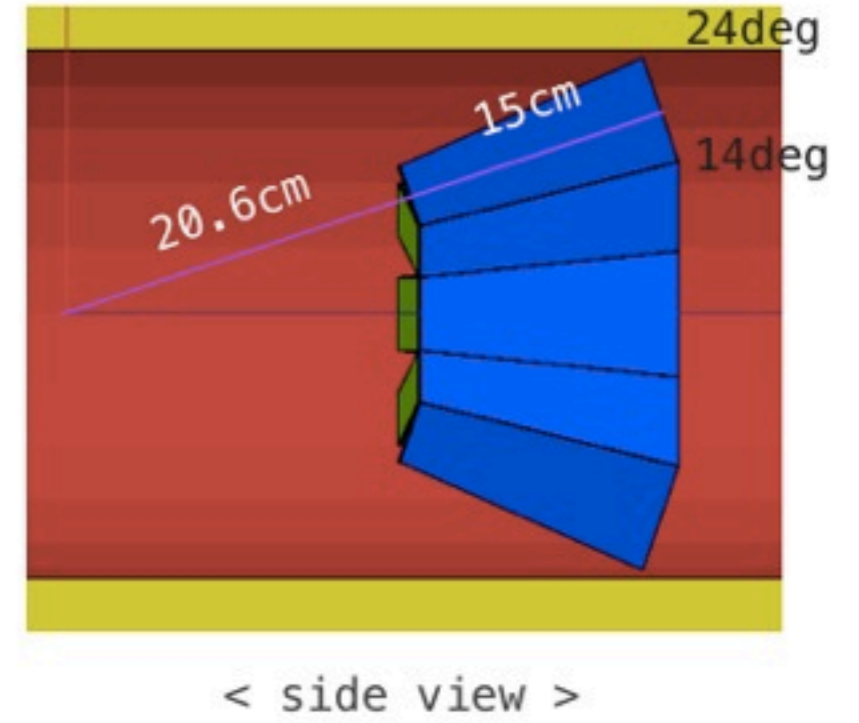
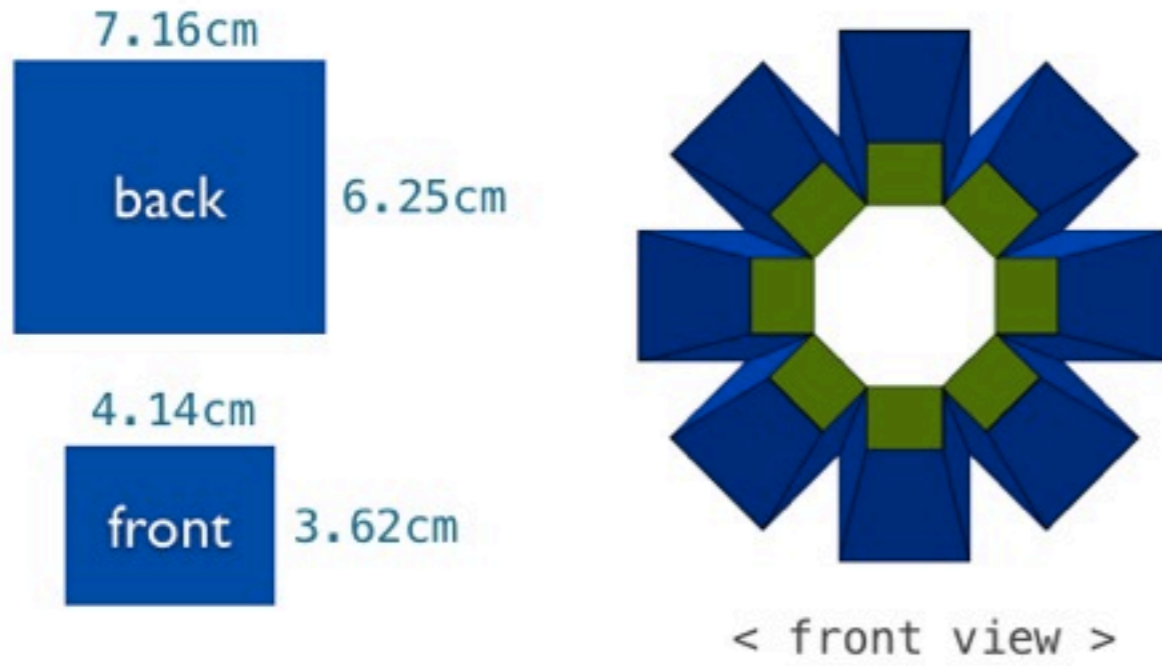
20121019

KYO

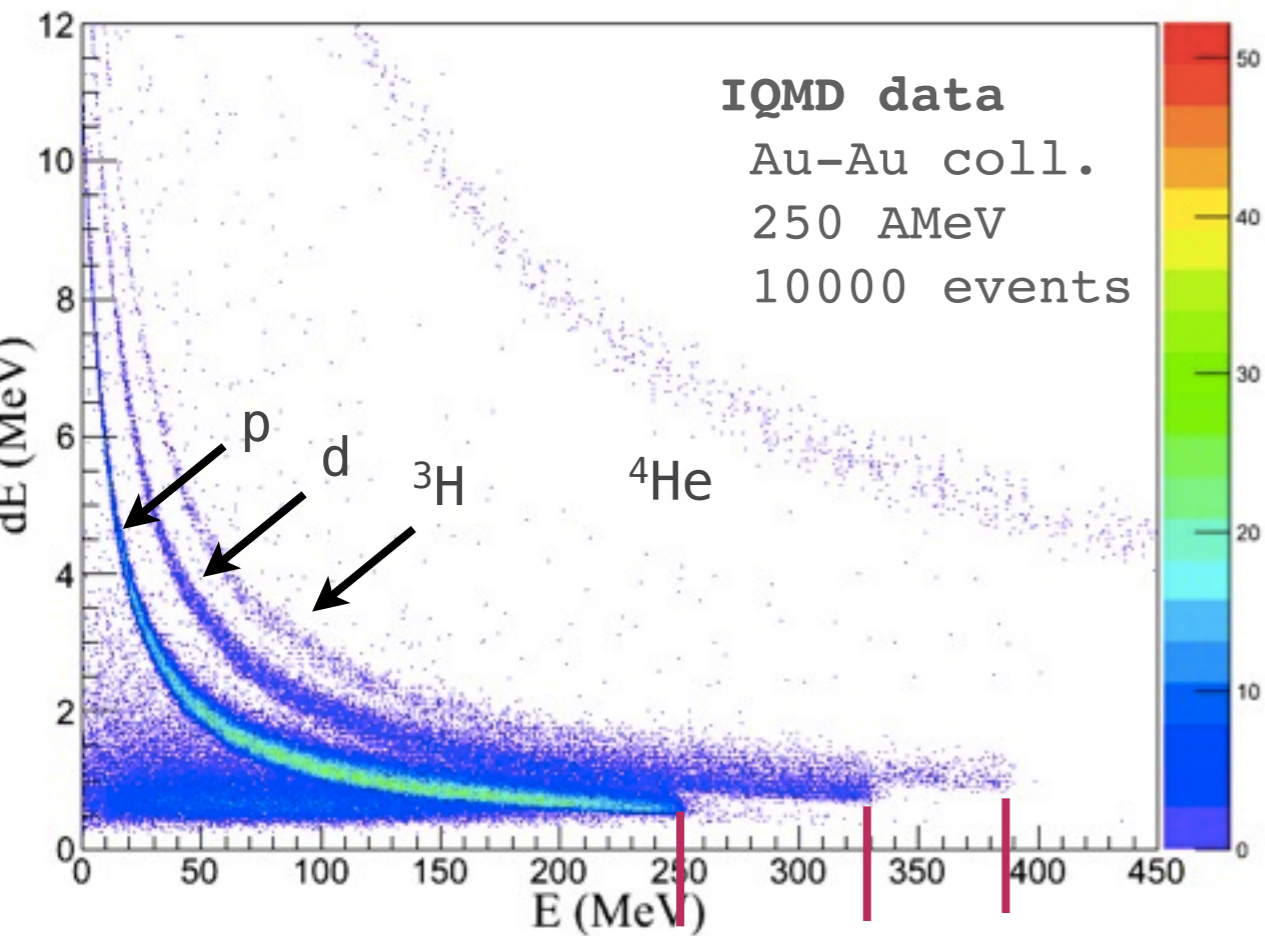
[01_LAMPS,14,15]

- 14 : previous one-layer w/ veto counter
 - 15_01 : square surface
- 15_03 : square surface w/ 128channels [CsI]
- 15_05 : square surface w/ 128channels [LaBr3]
 - Gap Size b/w detectors

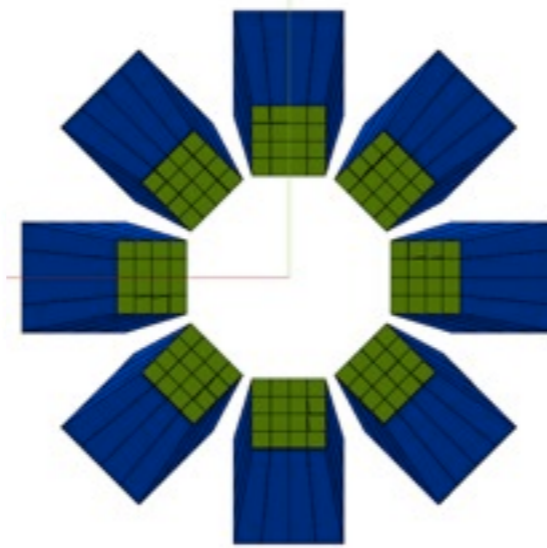
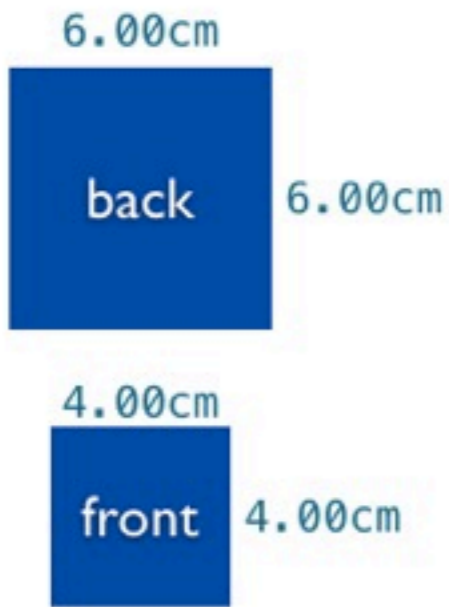
[previous design]



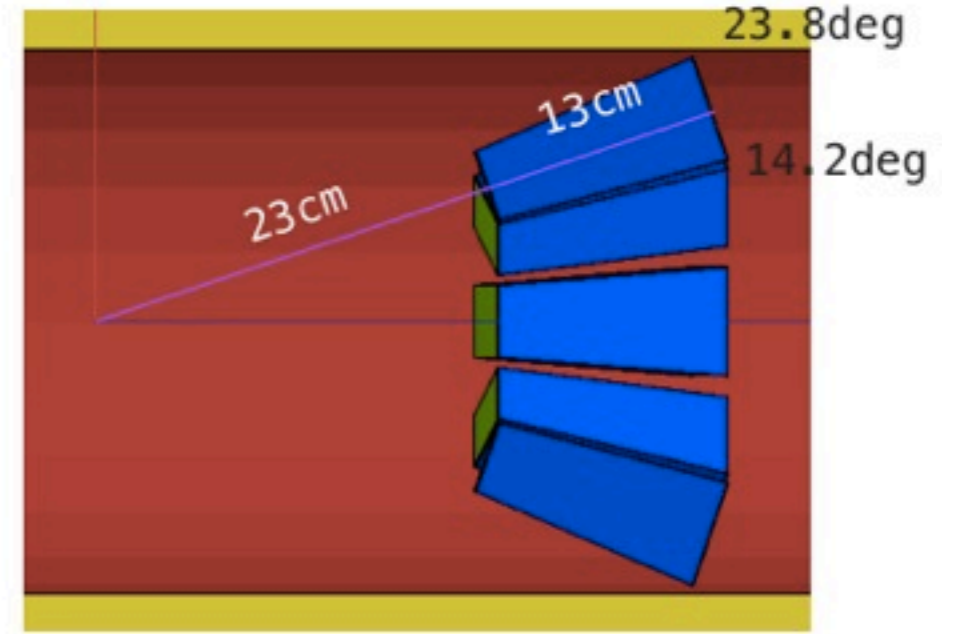
[CsI]



[Square surface with channels divided]

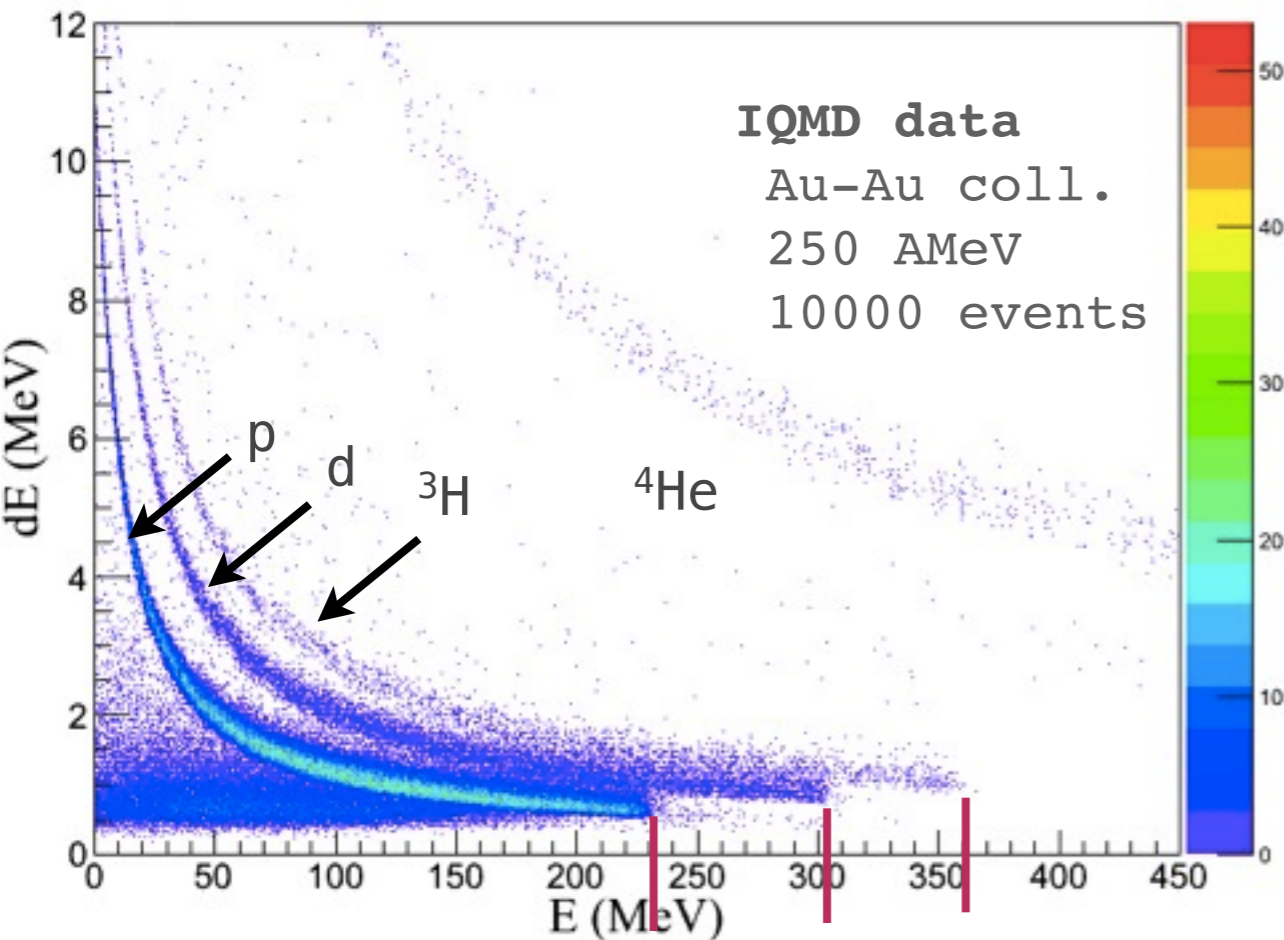


< front view >

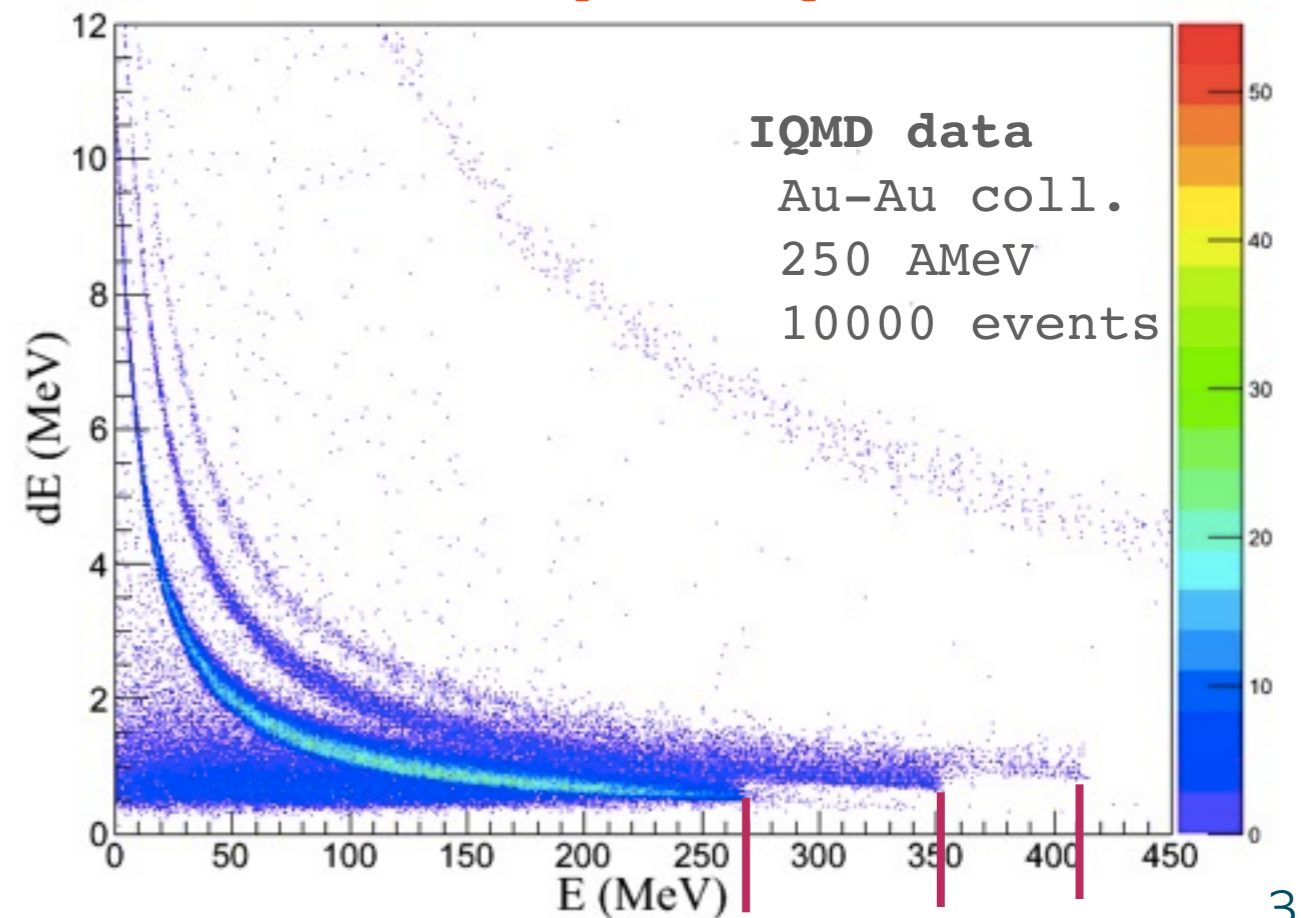


< side view >

[CsI]



[LaBr3]




[Multiplicity]

- IQMD data simulation
- Au-Au collision at 250 AMeV
- Normalized by event num. (10000 events in total)

1. All charged particles generated by simulation: **entries ~ 130**
(cf: including neutral pt1 ~ 300)

2. b/w 14–24 deg. (detector coverage range)  : **entries ~ 23** (53)

3. Particles entered into detector  :

Design 1



entries ~ 21 (34)

Design 2





entries ~ 17

[Multiplicity]

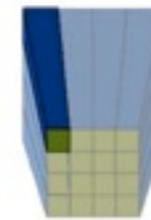
4. Particles entered into one detector



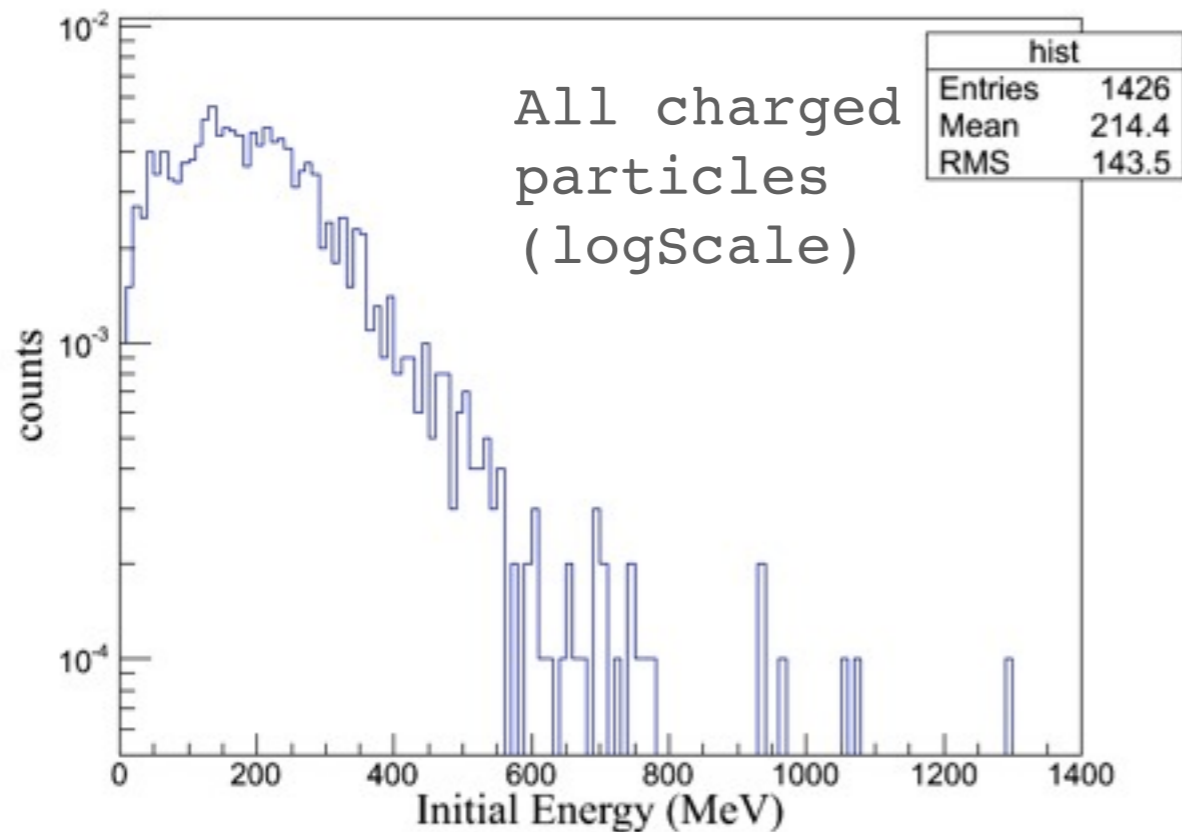
:

Design 1	Design 2
	
entries ~ 3 (4)	entries ~ 2

5. Particles entered into one channel

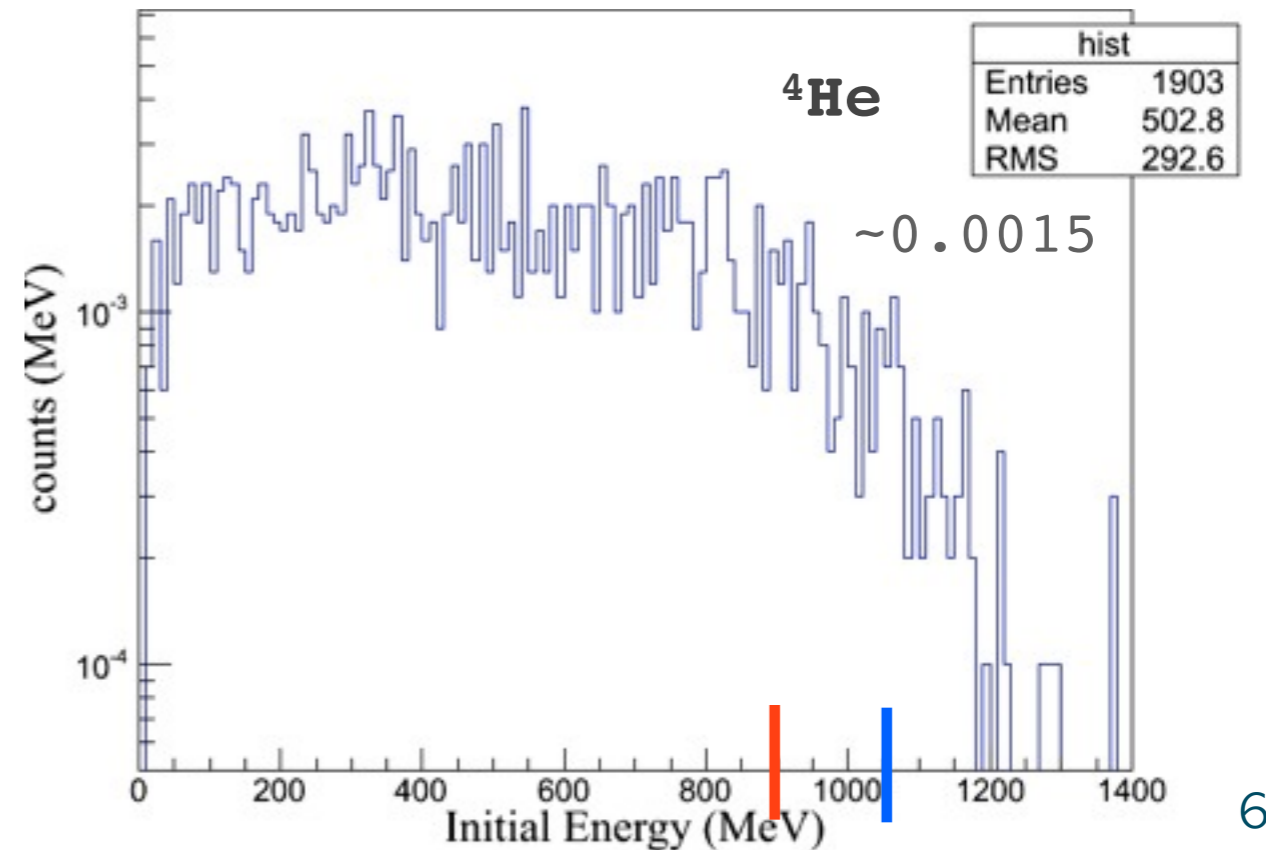
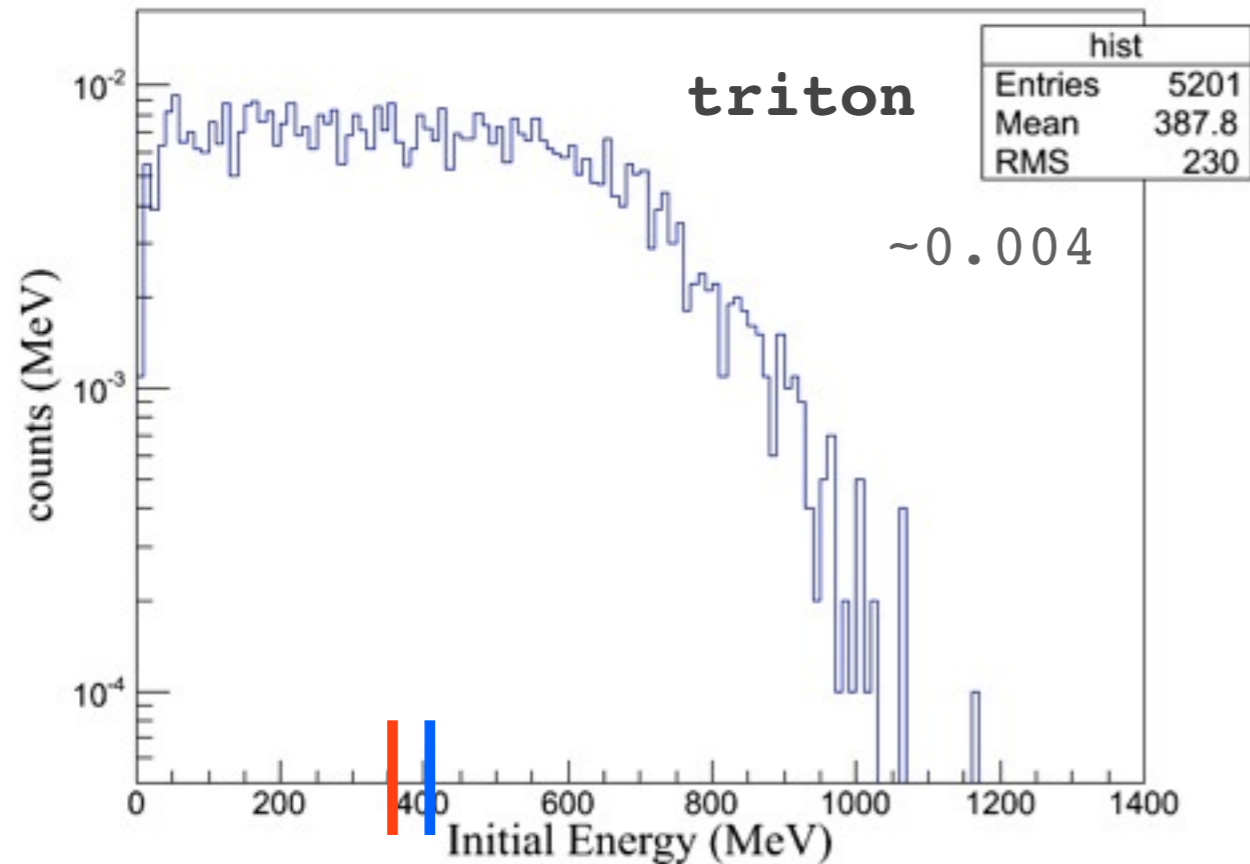
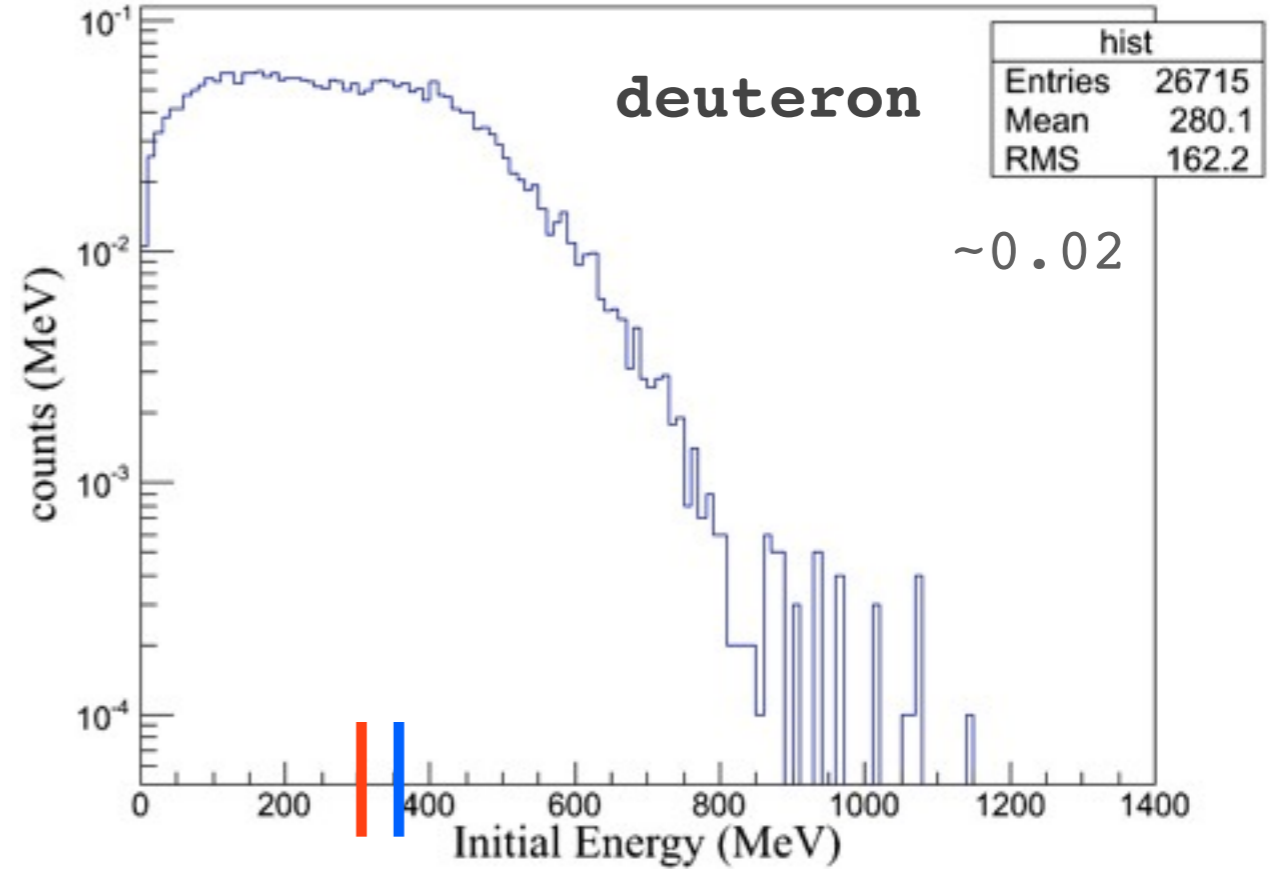
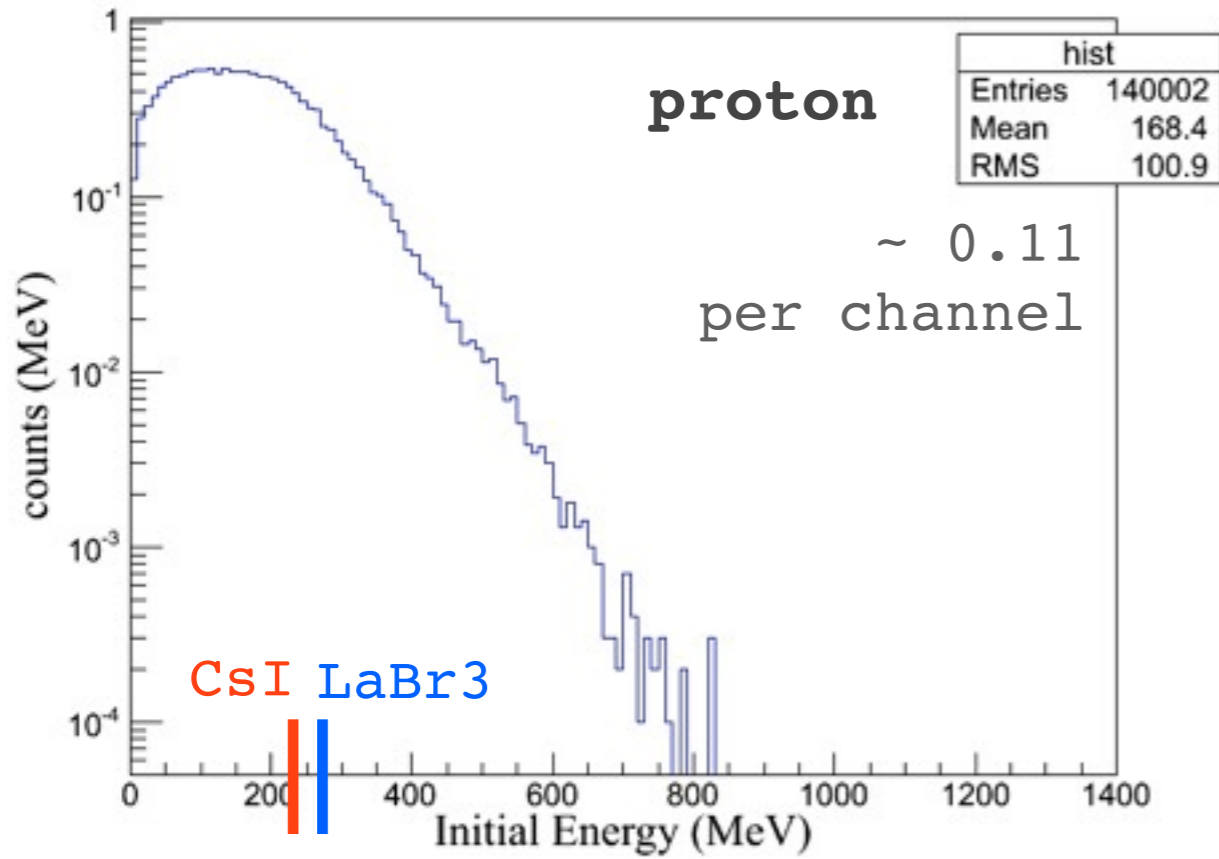


(Design 2 only) :



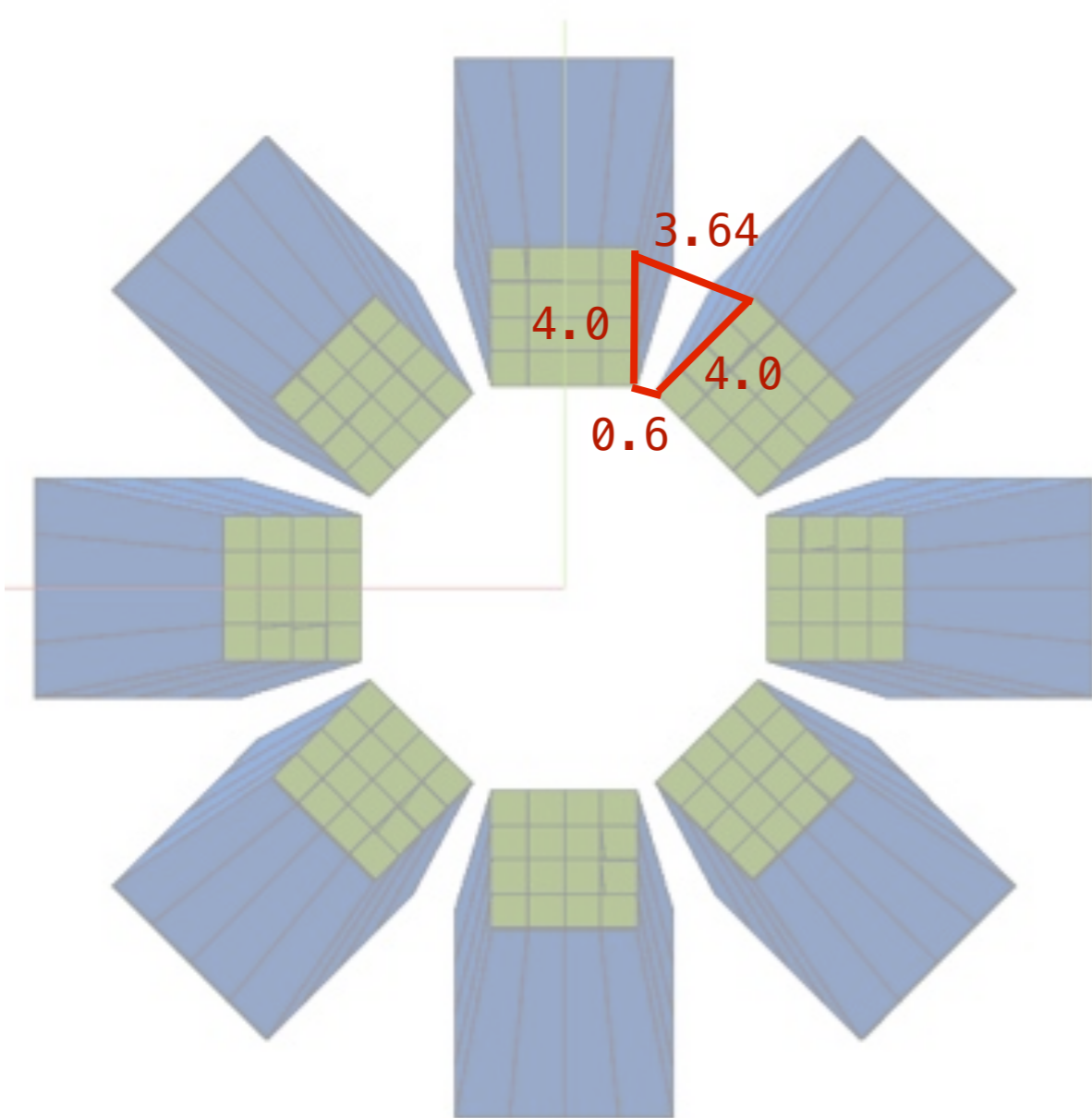
avg entries ~ 0.14
(range 0.11-0.17)

[Multiplicity & Initial energy hist.]

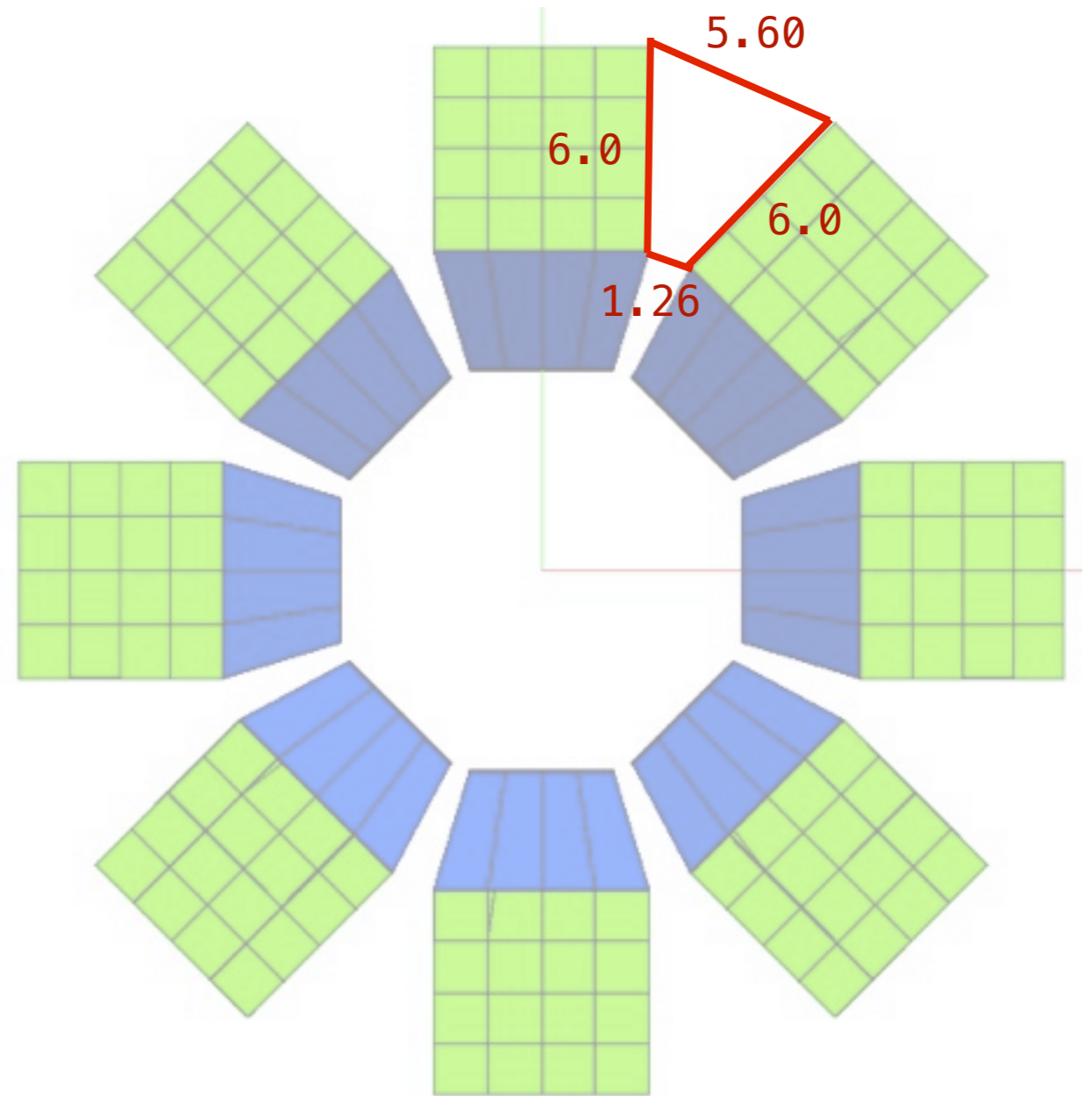


[Gap Size b/w detectors]

- in x-y plane
- Unit : cm



<front>



<back>