

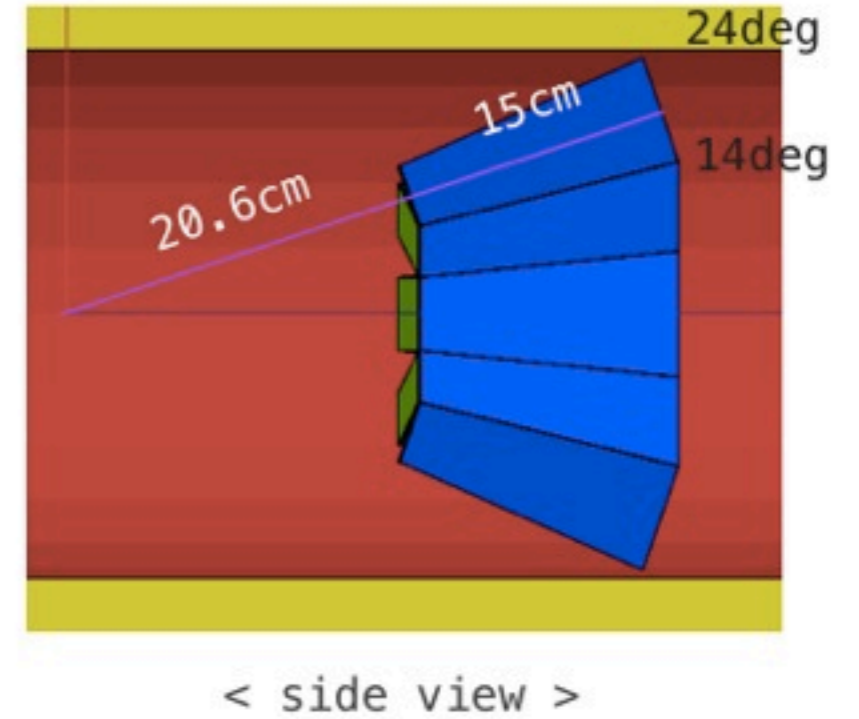
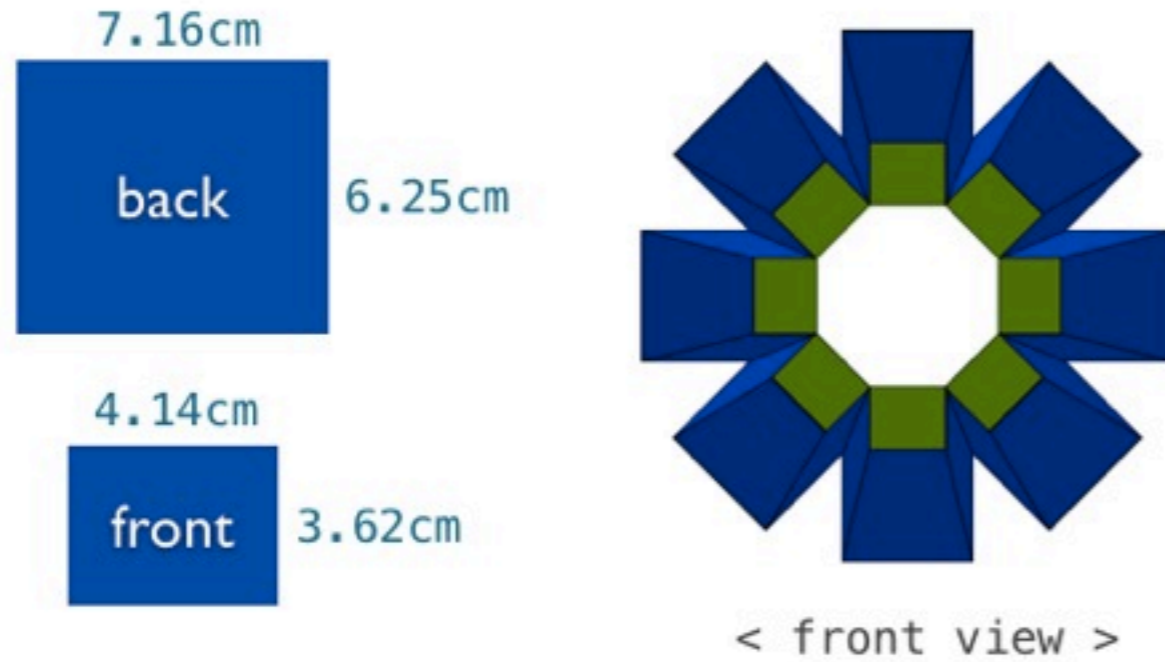
# 20121102

## KYO

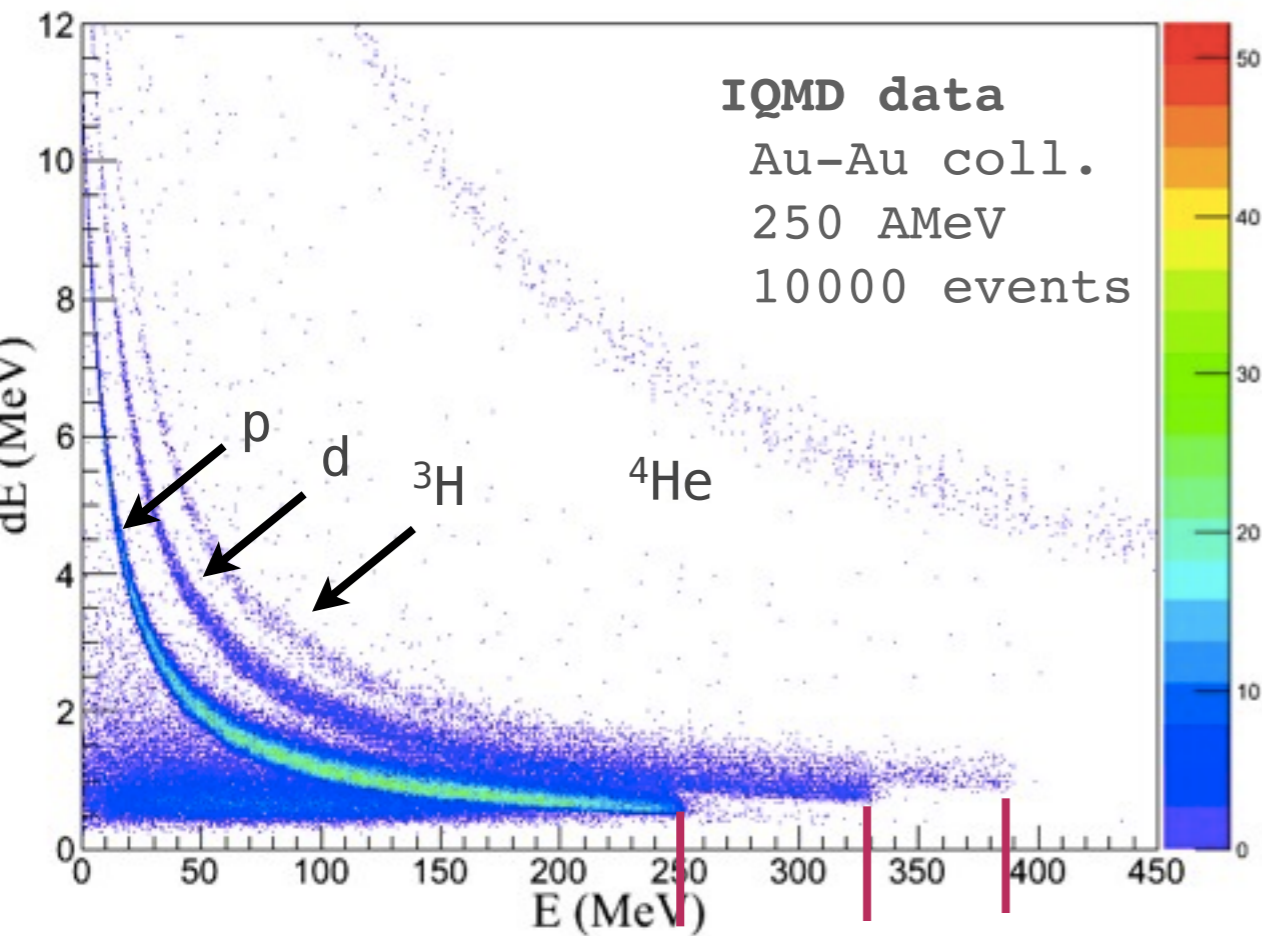
### [01\_LAMPS,14,15]

- 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 ]

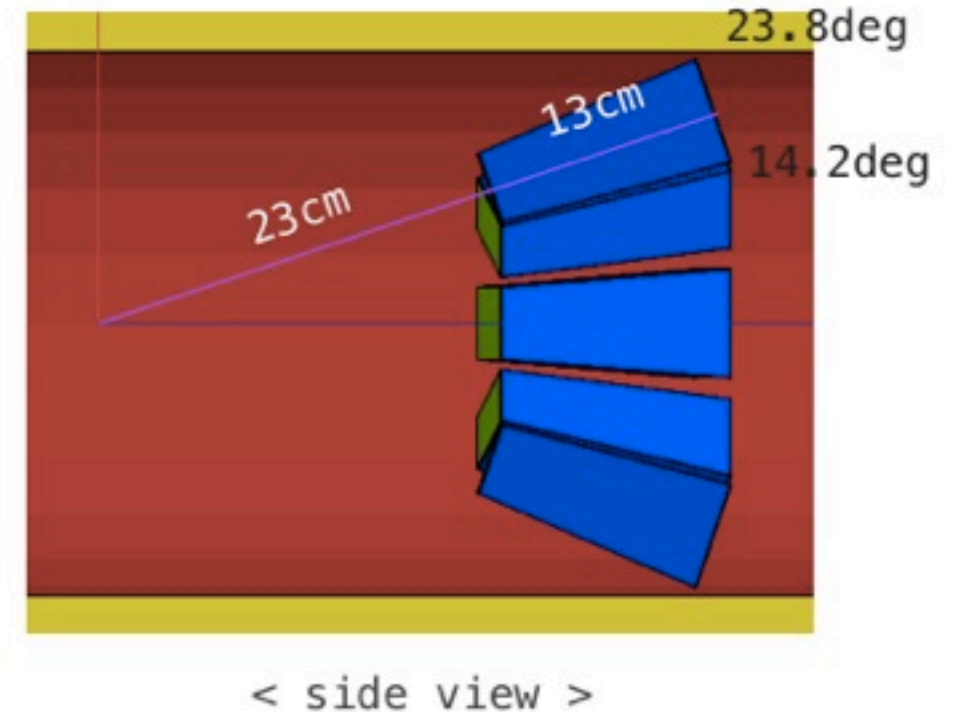
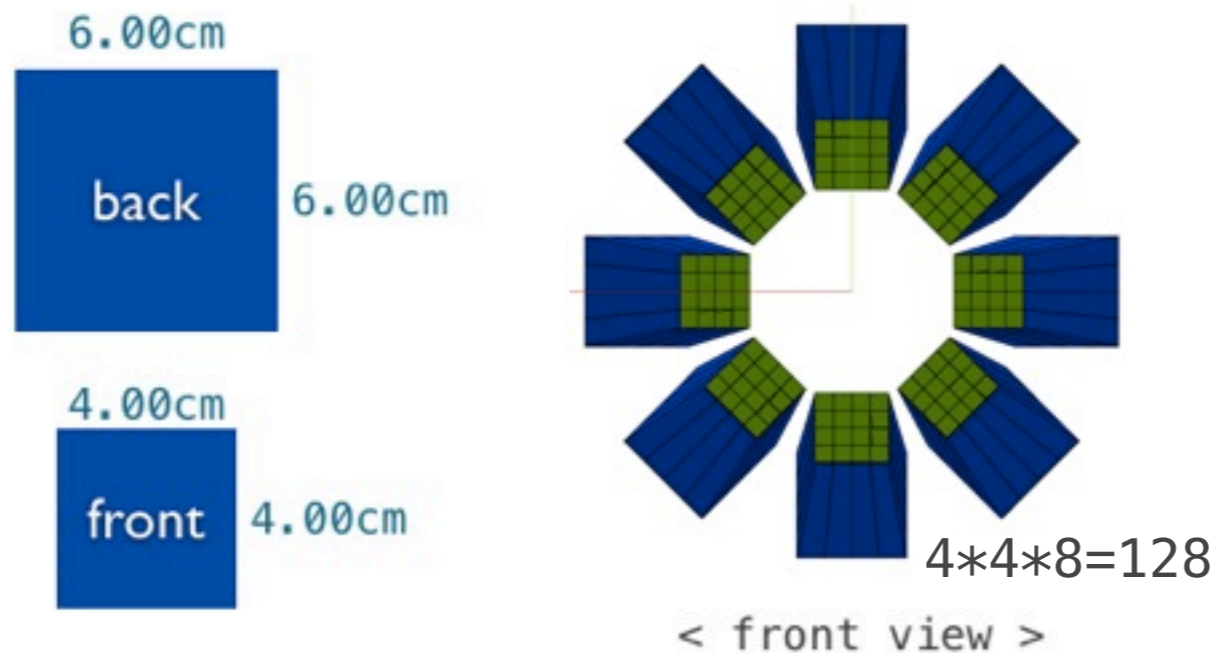


## [ CsI ]

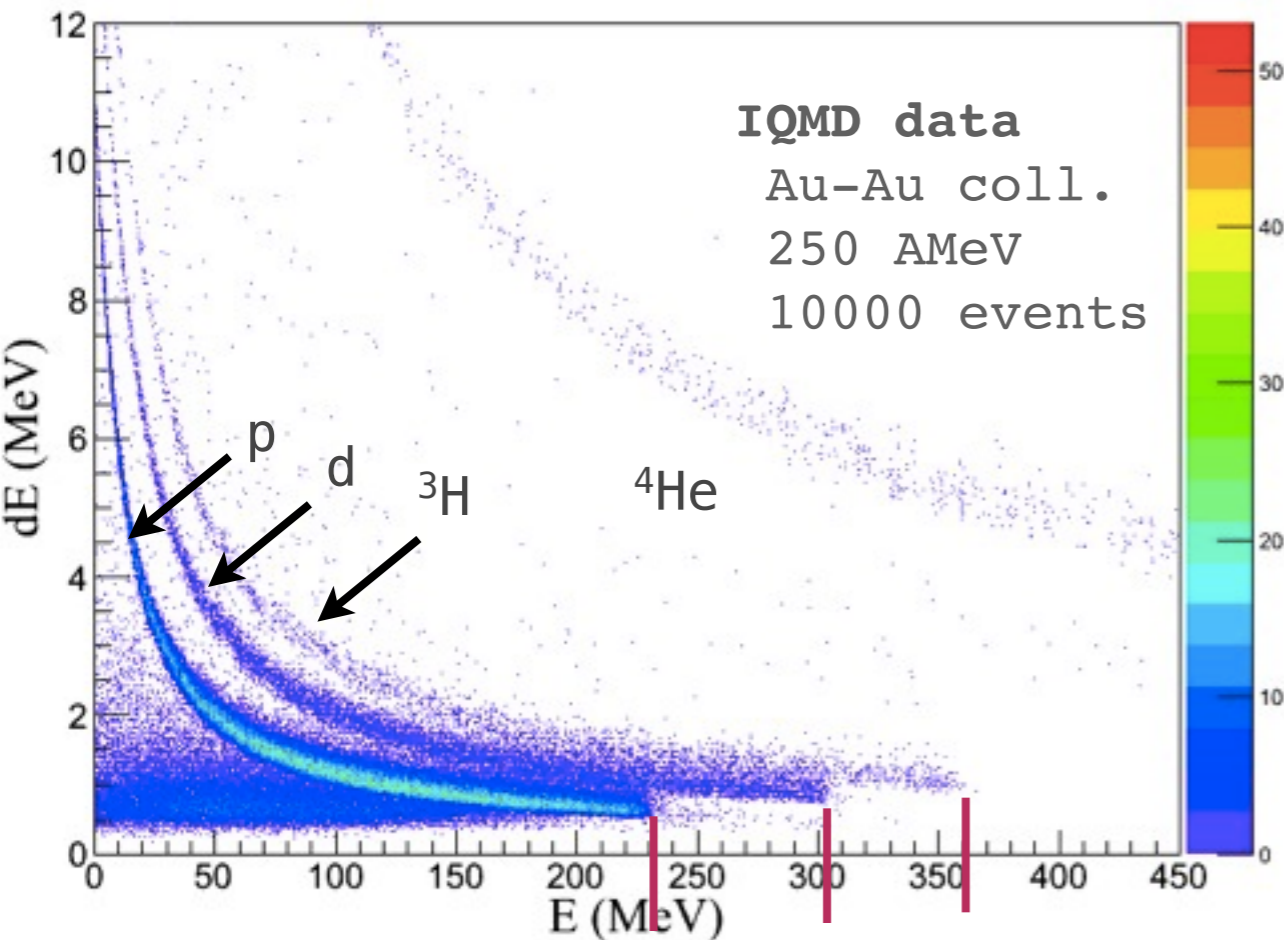


(with veto counter)

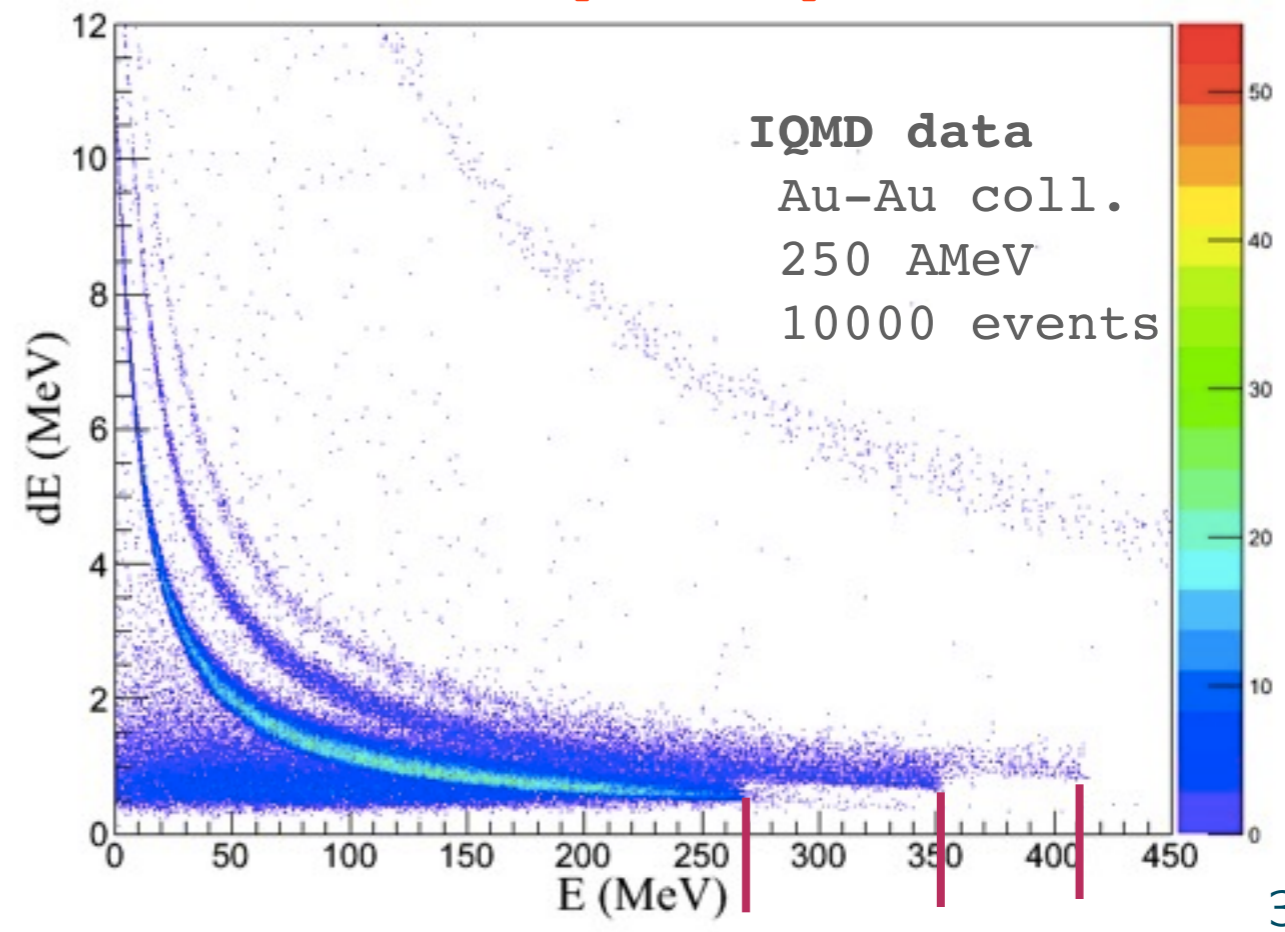
# [ Square surface with channels divided ]



[CsI]

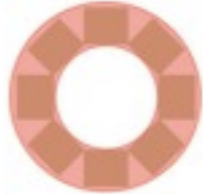





[LaBr3]



# [ 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	Design 2
 <b>entries ~ 21</b> (34)	 <b>entries ~ 17</b>





# [ Multiplicity ]

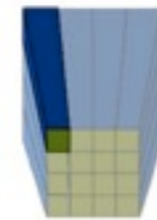
4. Particles entered into one detector



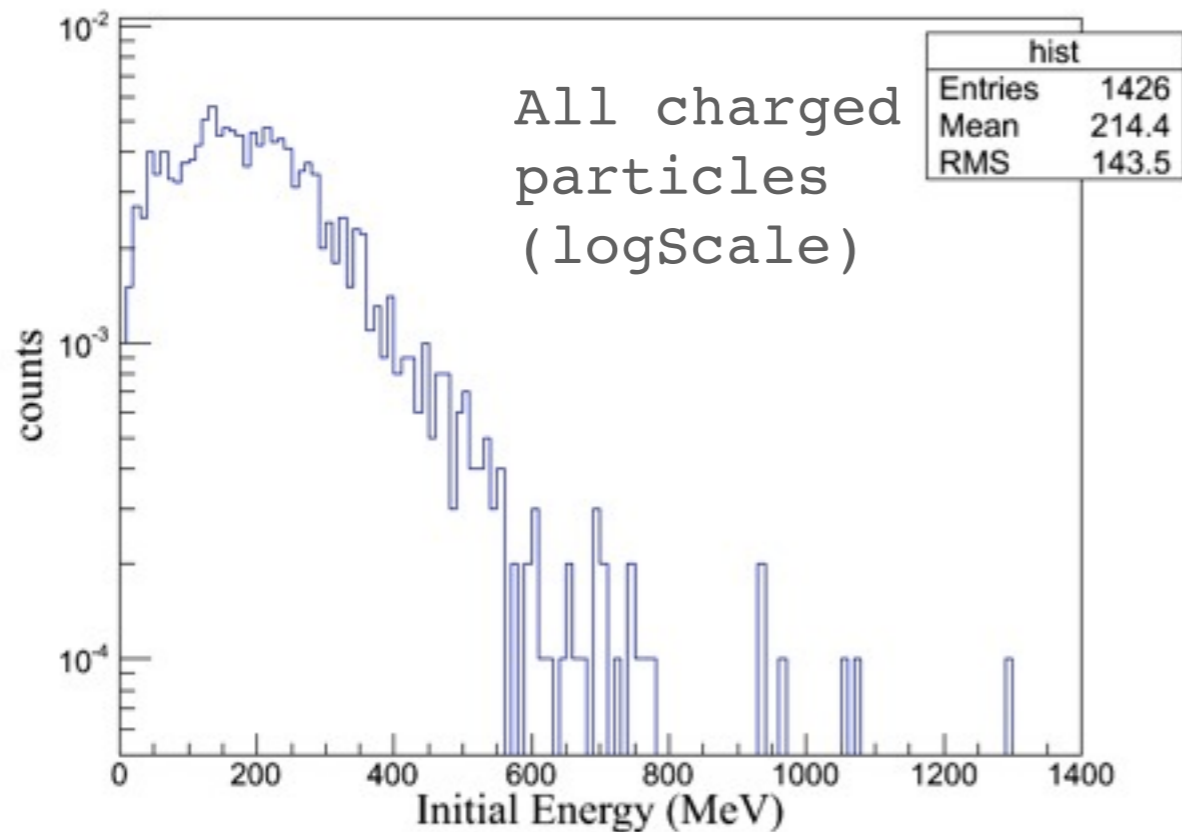
:

Design 1	Design 2
	
<b>entries ~ 3 (4)</b>	<b>entries ~ 2</b>

5. Particles entered into one channel



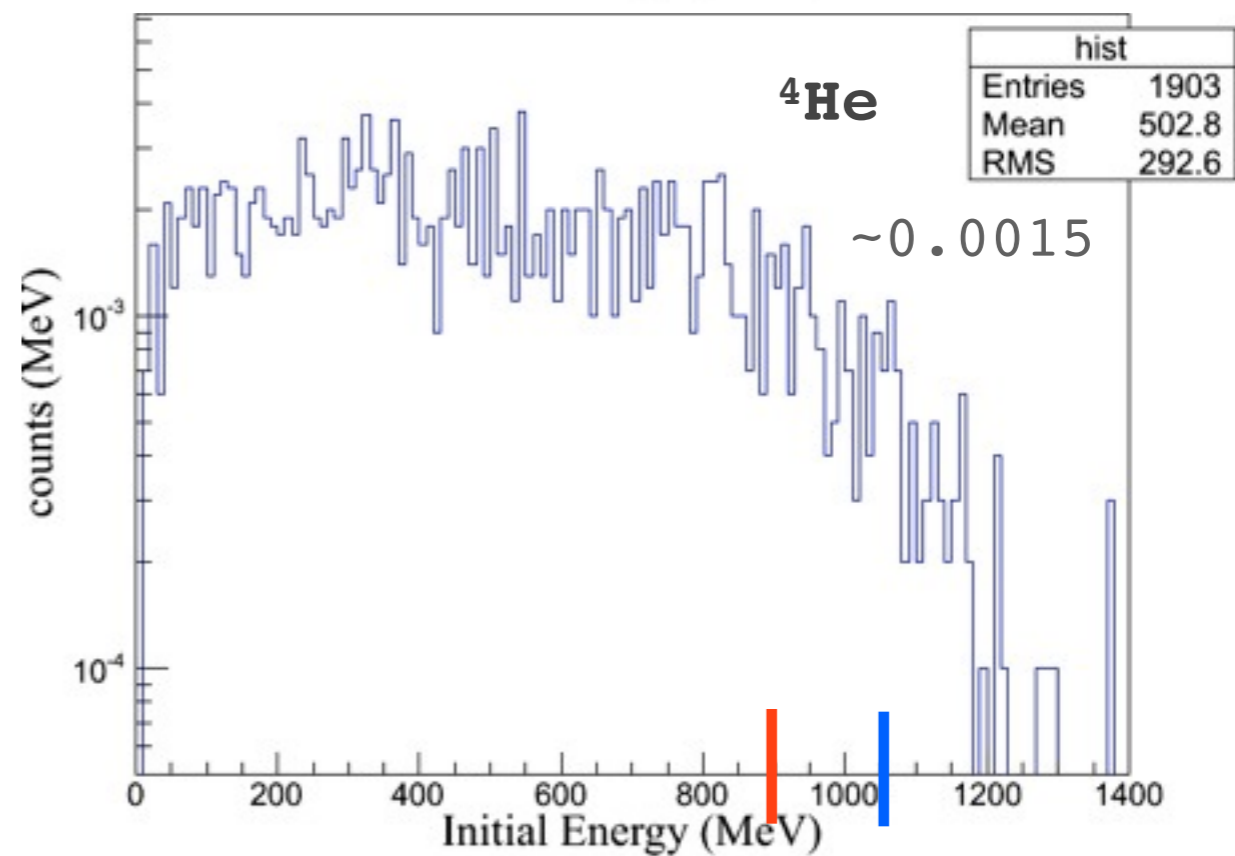
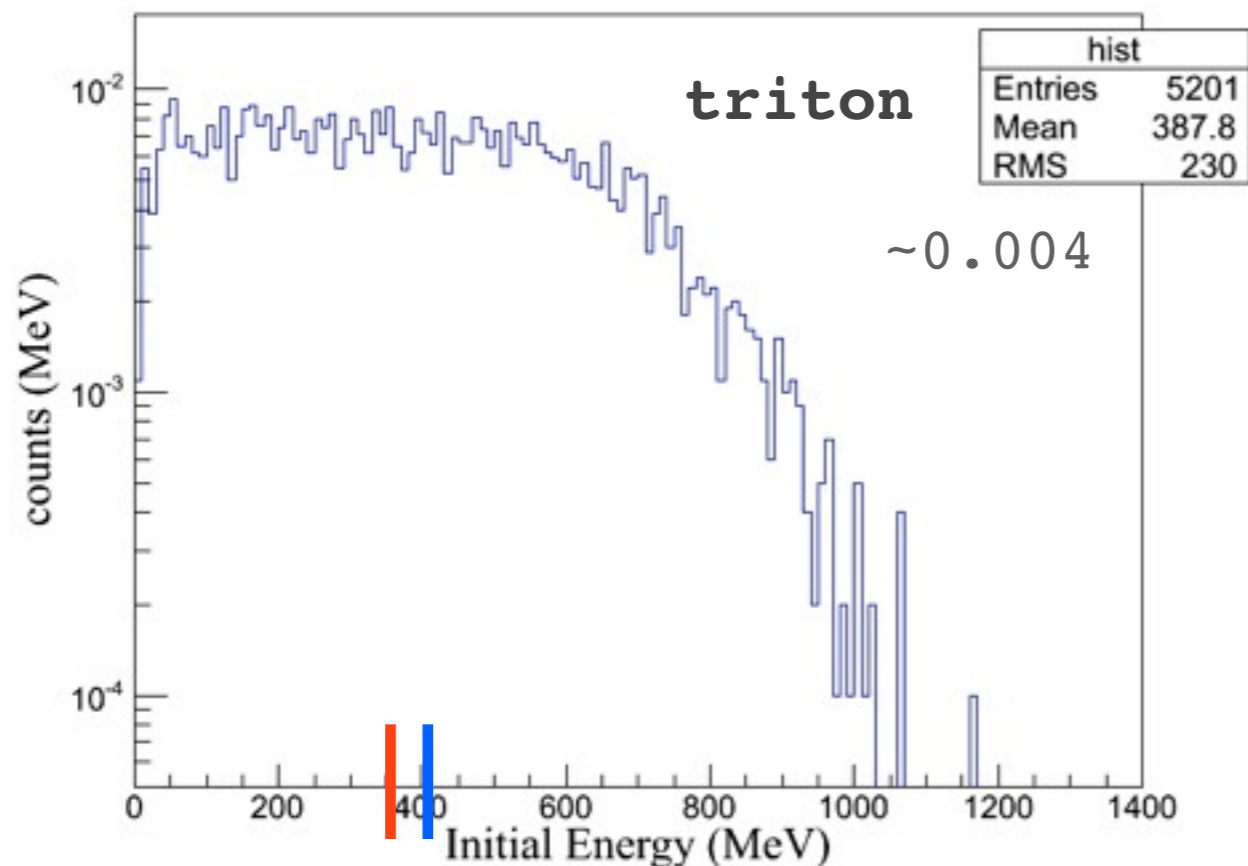
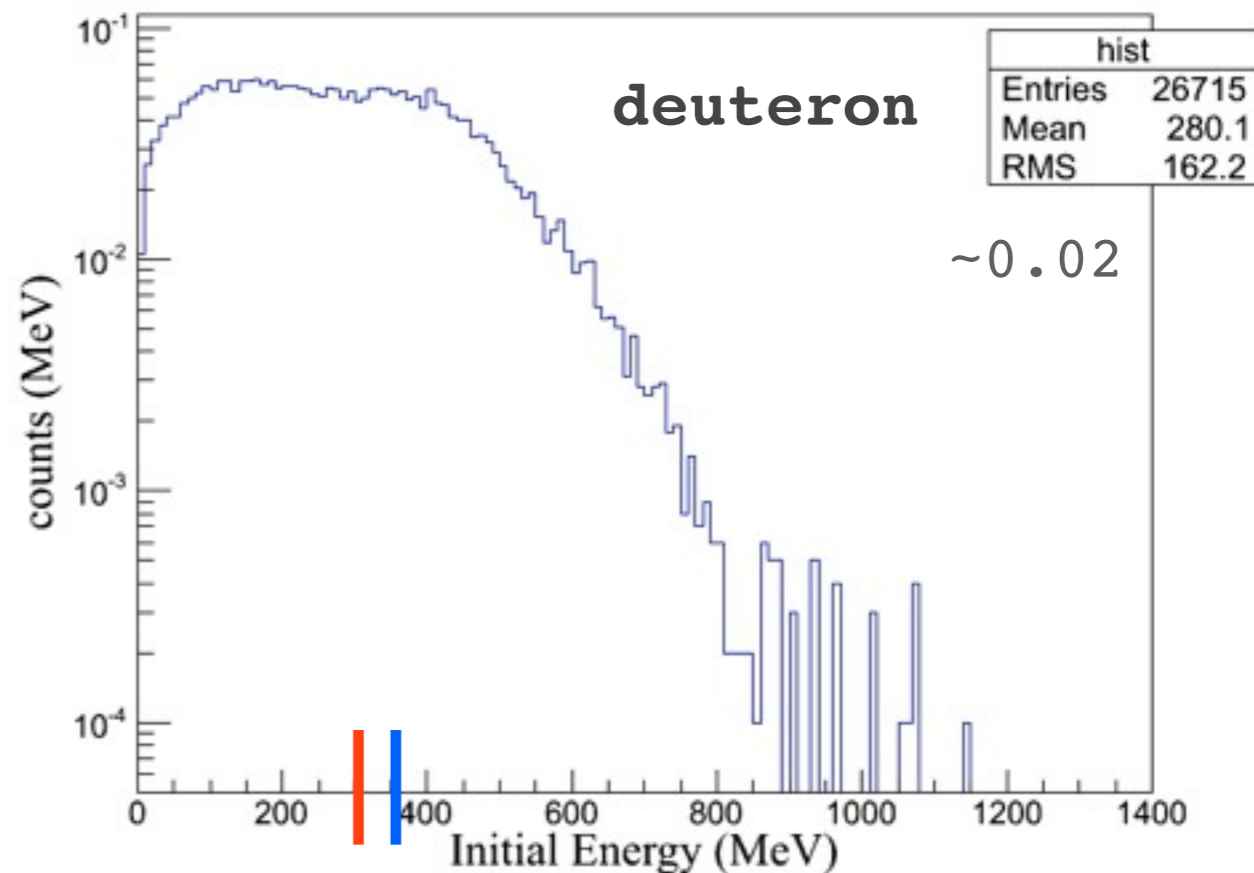
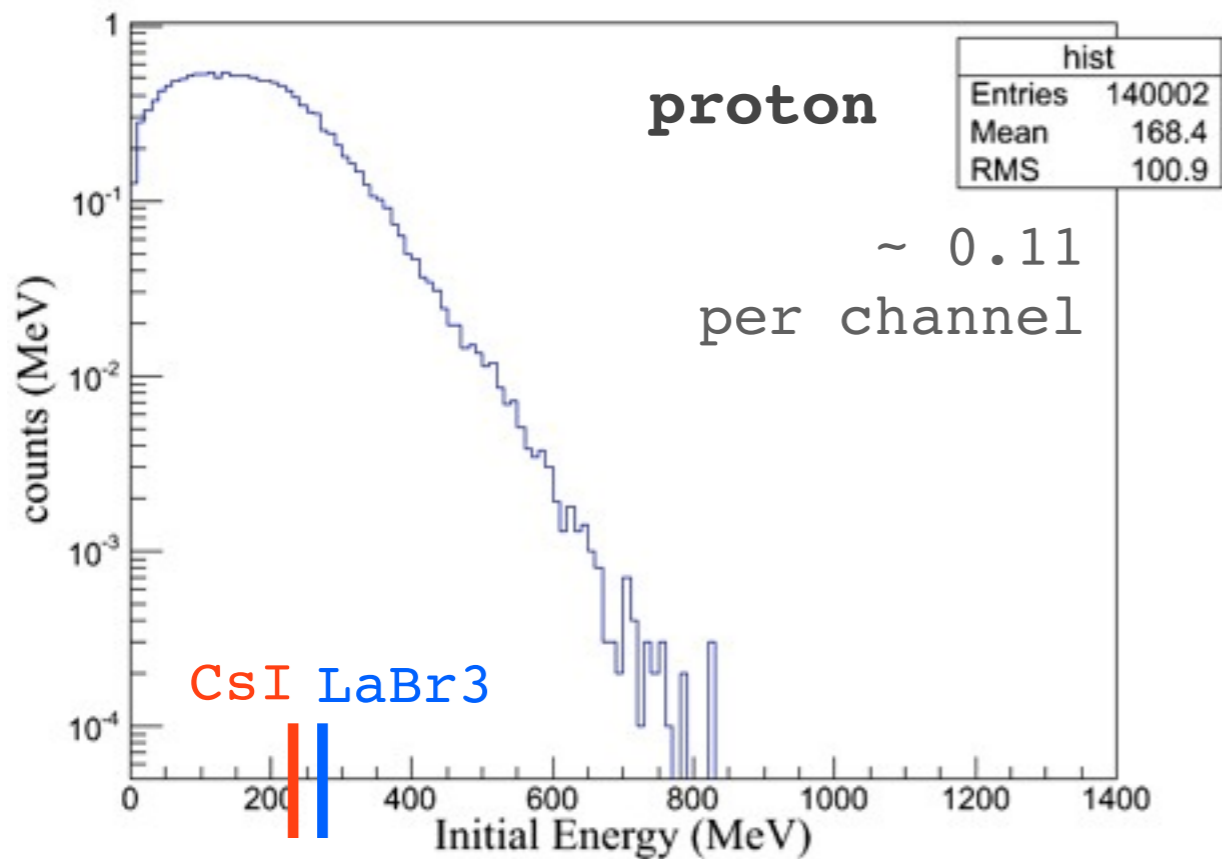
(Design 2 only) :



**avg entries ~ 0.14**  
(range 0.11-0.17)

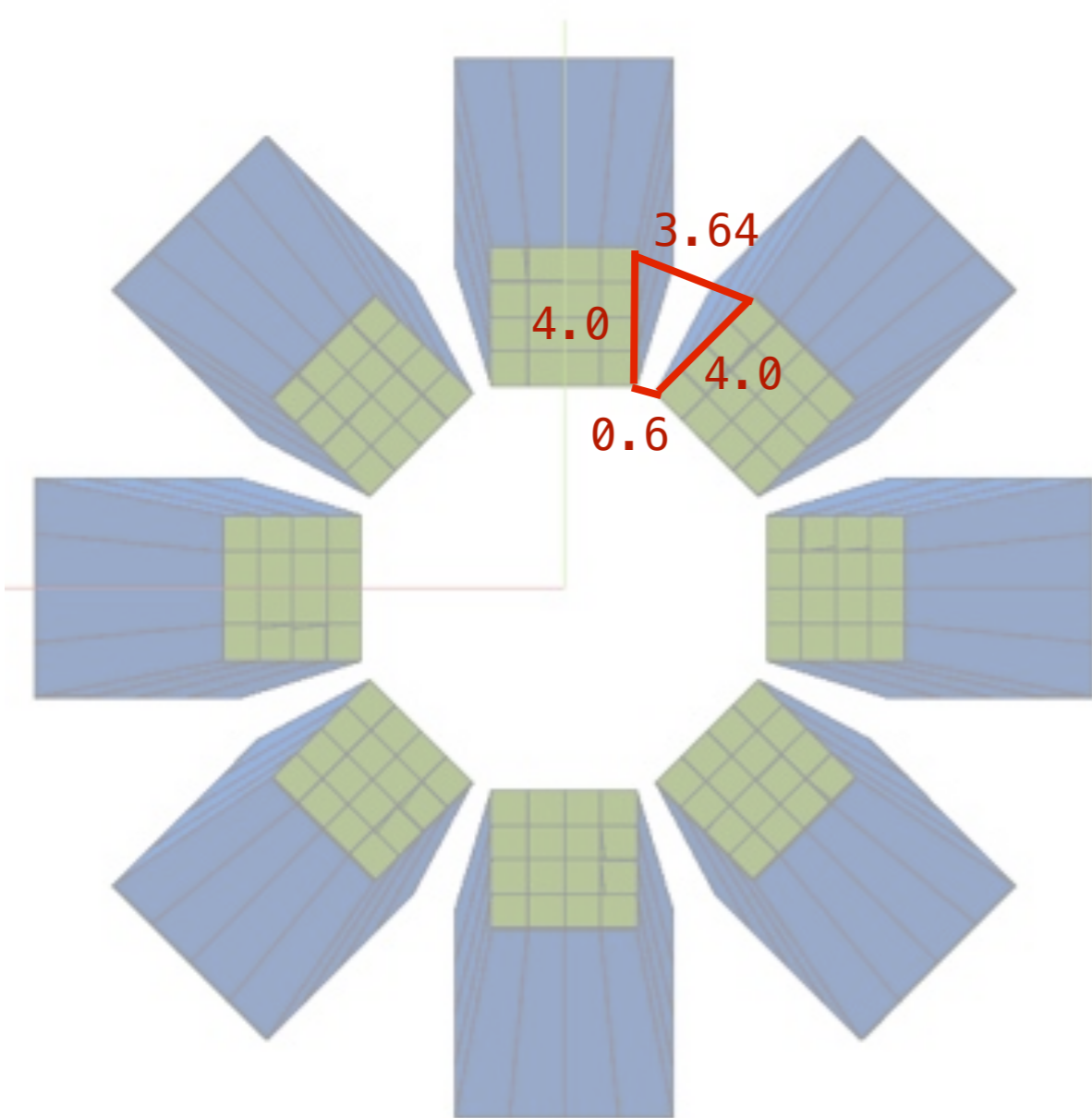
# [ Multiplicity & Initial energy hist.]

histogram :  
per channel X  
entered into detector  
(veto ignored)

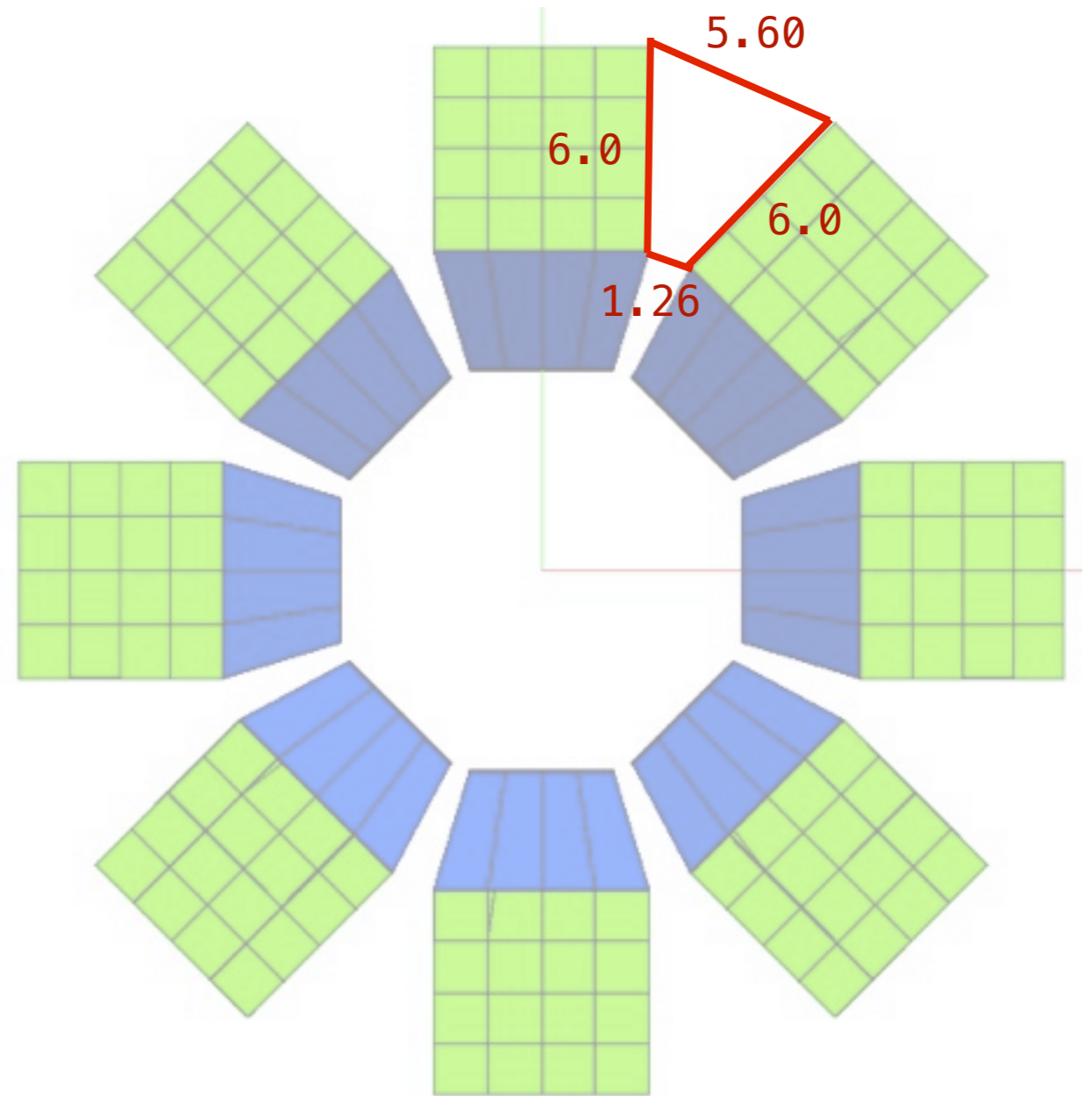


# [ Gap Size b/w detectors ]

- in x-y plane
- Unit : cm



<front>



<back>