

Basic idea:

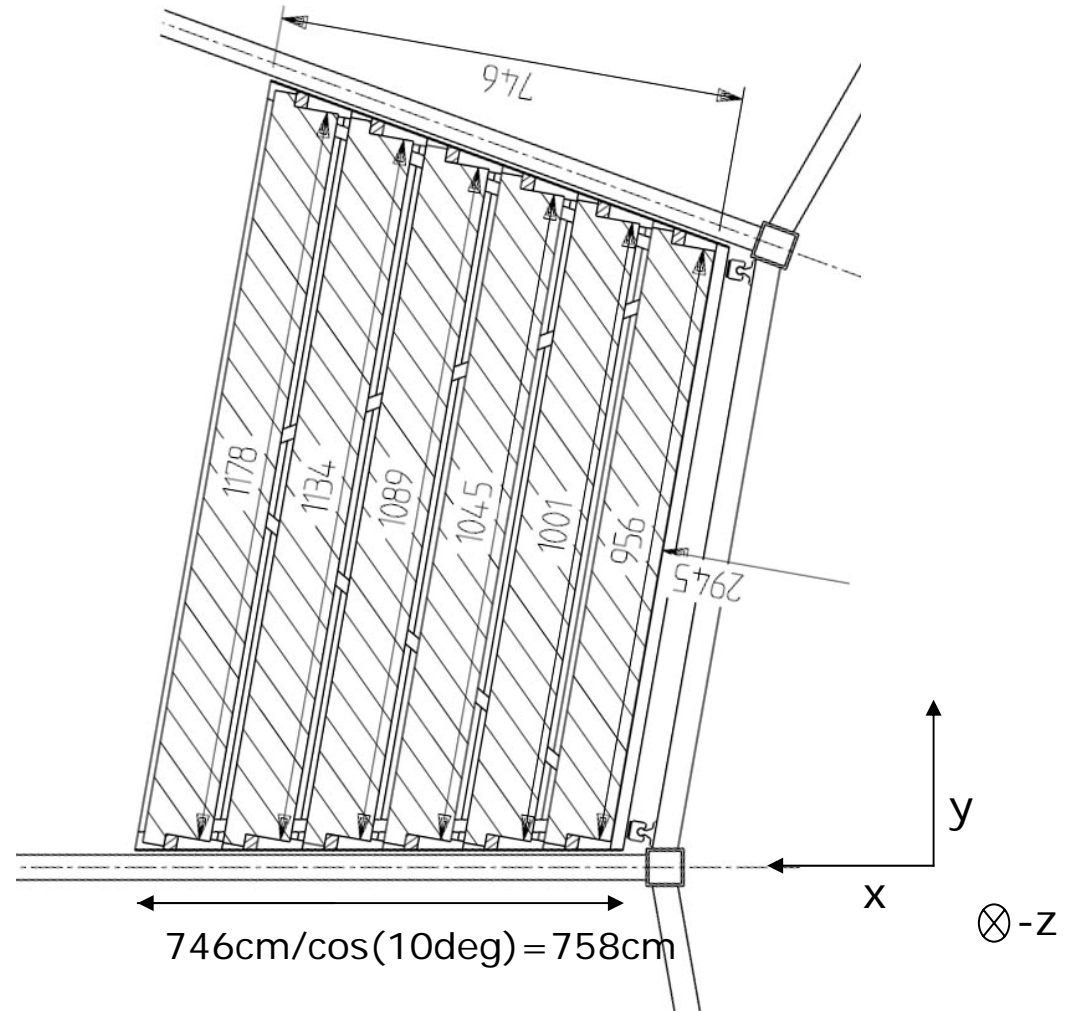
Hang a scintillator box on the bottom of SM08 with rope like above picture

What we need to prepare:

1. Right size box for bunch of scintillator and electronics
2. Rope & Hook

Scanning unit:

Stack by Stack scan



Z-direction length per chamber

plane	R_{Ra}	L_2	$L_{1,3}$	$L_{0,4}$
1	2945	1100	1235	1235
2	3071	1100	1310	1310
3	3197	1100	1385	1345
4	3323	1100	1460	1420
5	3449	1100	1530	1420
6	3575	1100	1605	1345

From these
Requirement:

$x < 758\text{mm}$

Preference:

$z < 1605\text{mm}$ (better than crossing stack boundary)

y: No boundary

Size of Scintillators and PMT



2.1cm X 11.1cm X 65.5cm X 12 pieces



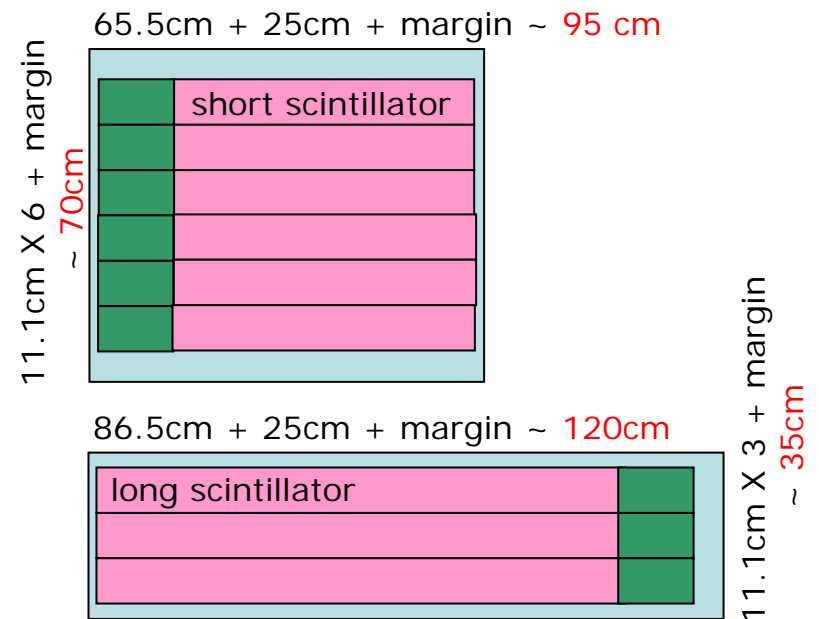
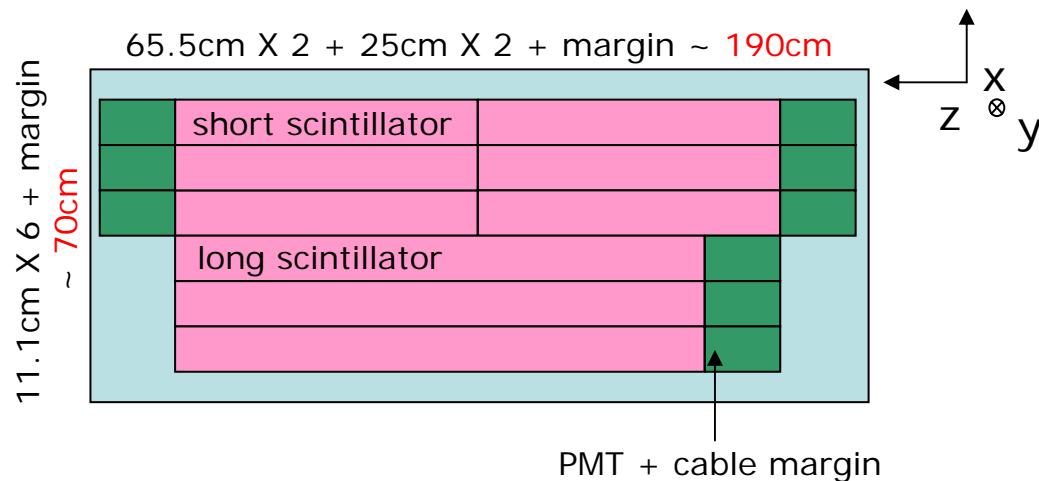
2.1cm X 11.1cm X 86.5cm X 7 pieces



9.5cm X (20.7cm + 1.3cm) X 19 pieces

We have two options

i) Build one box and put under one stack ii) Build two boxes and put under two stacks



- For another electronics, we can enlarge z or y directional length of the box

→ y > 9.5cm X 2 (depends on other electronics)

- Hole location for cables depends on electronics