

TOF Upgrade Stacking Order

Planes are labeled X-# & Y-#

Number of modules in TOF2 plane: 50 modules

Stacking order [17 + 16 + 17 = 50 modules per plane]

- lower region [17 modules]
 - modules #1 - #17 (first 17 of the original 6cm modules)
- inner region [16 modules]
 - IN-1 & IN-2 (4.5cm Asym)
 - IN-3 & IN-4 (3.0cm narrow)
 - IN-5L & IN-5R (Asym shorties)
 - IN-6L & IN-6R (sym shorties)
 - IN-7L & IN-7R (sym shorties)
 - IN-8L & IN-8R (Asym shorties)
 - IN-9 & IN-10 (3.0cm narrow)
 - IN-11 & IN-12 (4.5cm Asym)
- upper region [17 modules]
 - modules #30 - #46 (last 17 of the original 6cm modules)

LOWER REGION

[illegible]

INNER REGION

1	2	3	4	5L	5R	6L	6R	7L	7R	8L	8R	9	10	11	12
U	D	U	D	U	U	D	D	U	U	D	D	U	D	U	D

UPPER REGION

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
U	D	U	D	U	D	U	D	U	D	U	D	U	D	U	D	U





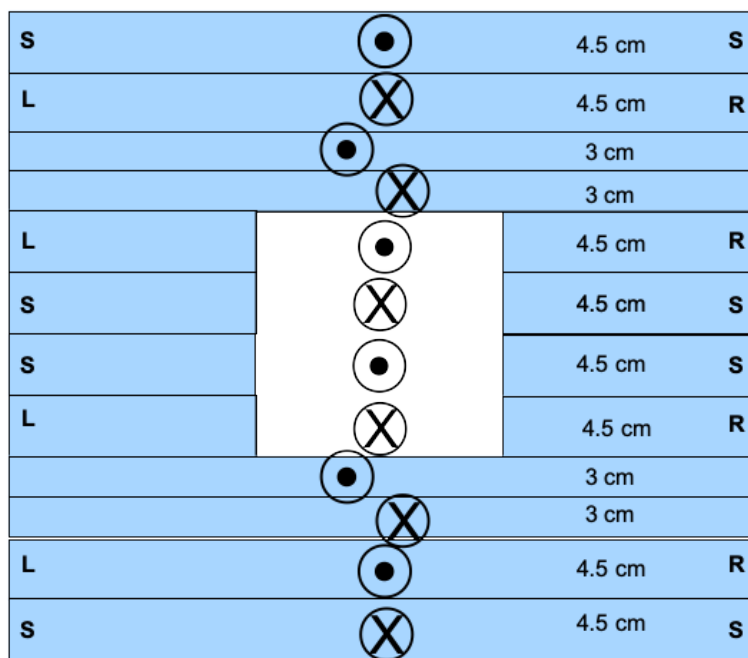
This photo shows the UP/DOWN starting orientation for each TOF layer. At this corner, first modules are DOWN.

254 x 4.5 x 2.54 cm
EJ-200 scintillator

118 x 4.5 x 2.54 cm
EJ-200 scintillator

Up

S



N

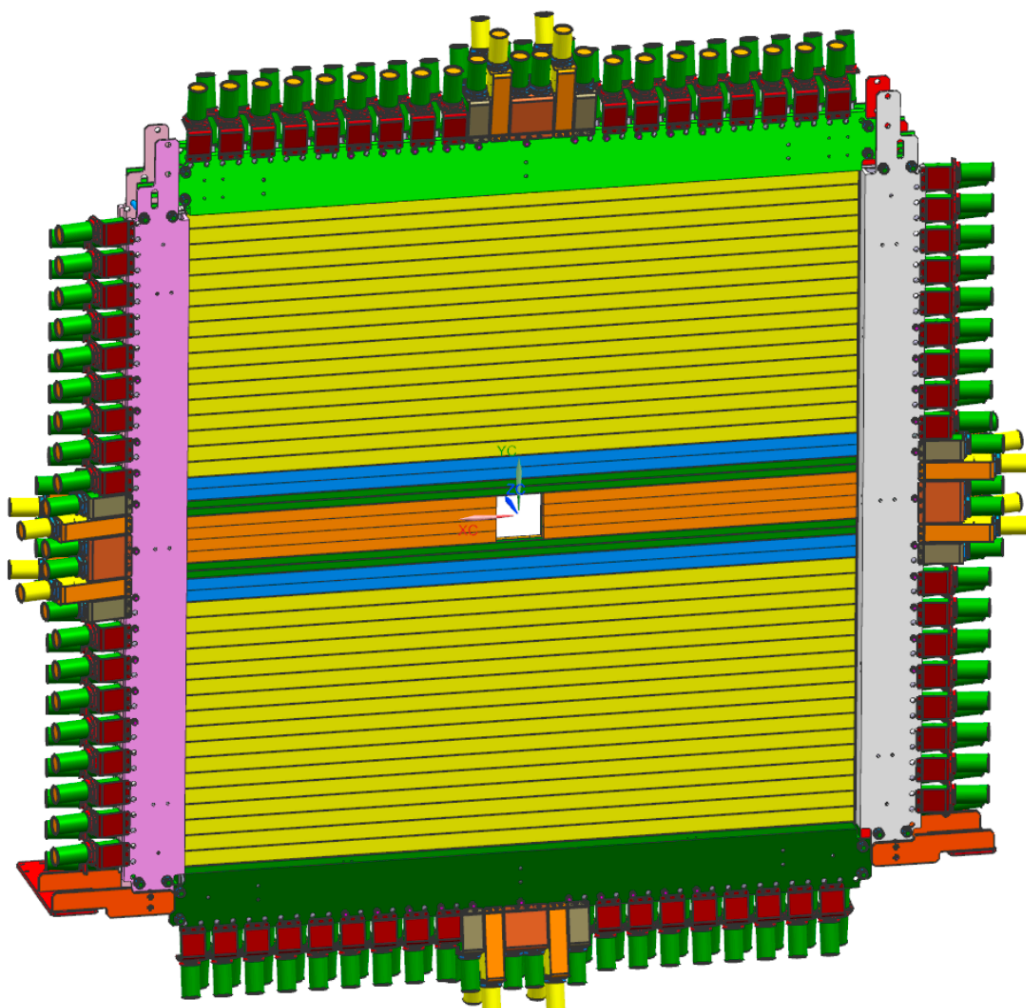
Down

● PMT up

L : left asymmetry
R : right asymmetry
S : straight/symmetric

⊗ PMT down

Single TOF Plane Upgrade



Outer Region Modules

■ 34 6cm x 254cm

Inner Region Modules

■ 4 4.5cm x 254cm

■ 4 3cm x 254cm

■ 8 4.5 x 118cm

50 modules per plane

42 double ended

8 single ended

92 channels per plane

TOF 2 Plane Totals

100 modules

184 channels

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