

ILD-Calorimeter Integration at Paris 15/May/08

T.Takeshita / Shinshu

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=2749>

agenda

HCAL absorber SS vs Brass (CMS)

Barrel octagonal vs decagonal

SC-ECAL design

EndCap beam hole and installation

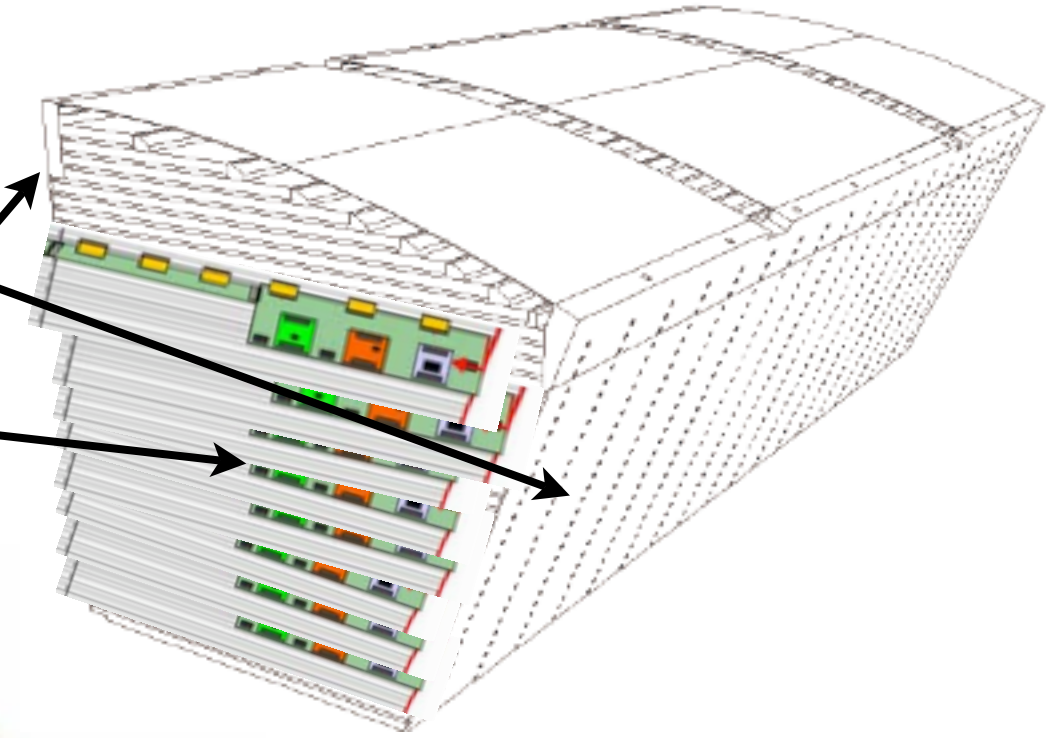
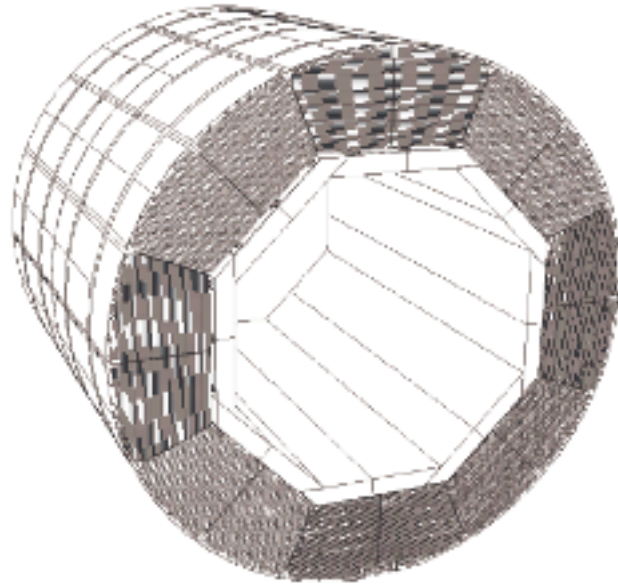
Henri(SiW), JC(SiW), Karsten(AH), Felix(AH), Tohru(ScW), Remi, Marc(SiW),
Imad(DH)

HCAL absorber : SS vs Brass (CMS)

TESLA design

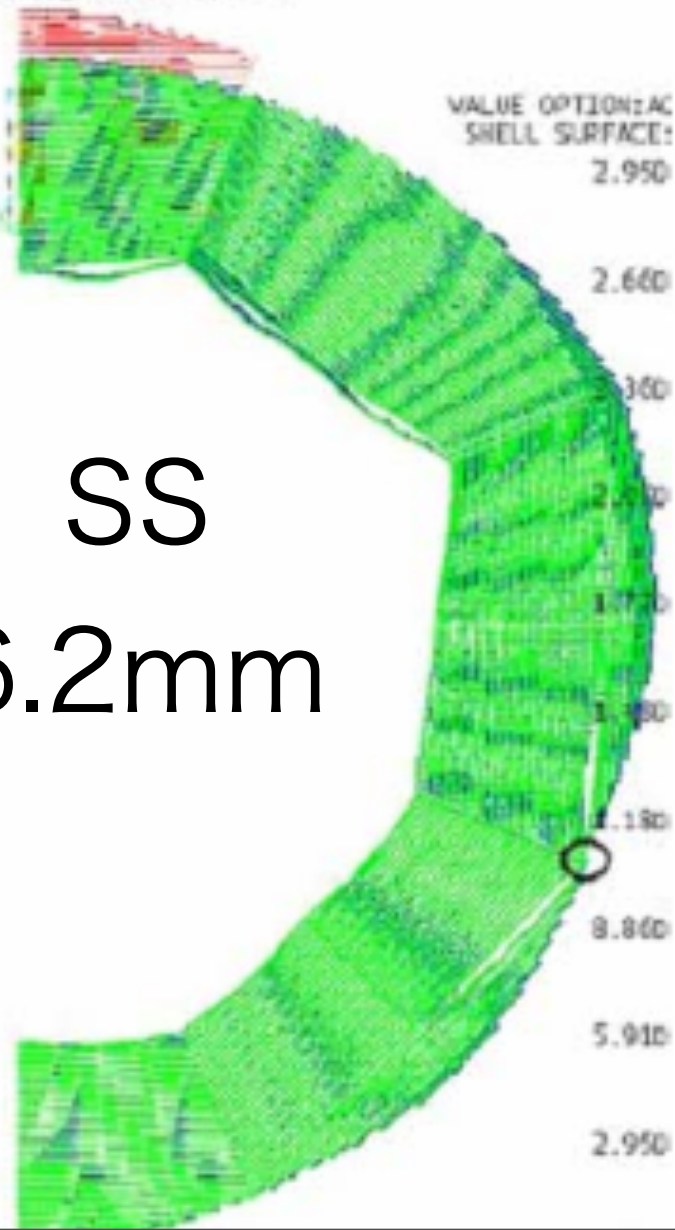
side panels
read out

Z-end



SS
6.2mm

Brass
6.5mm

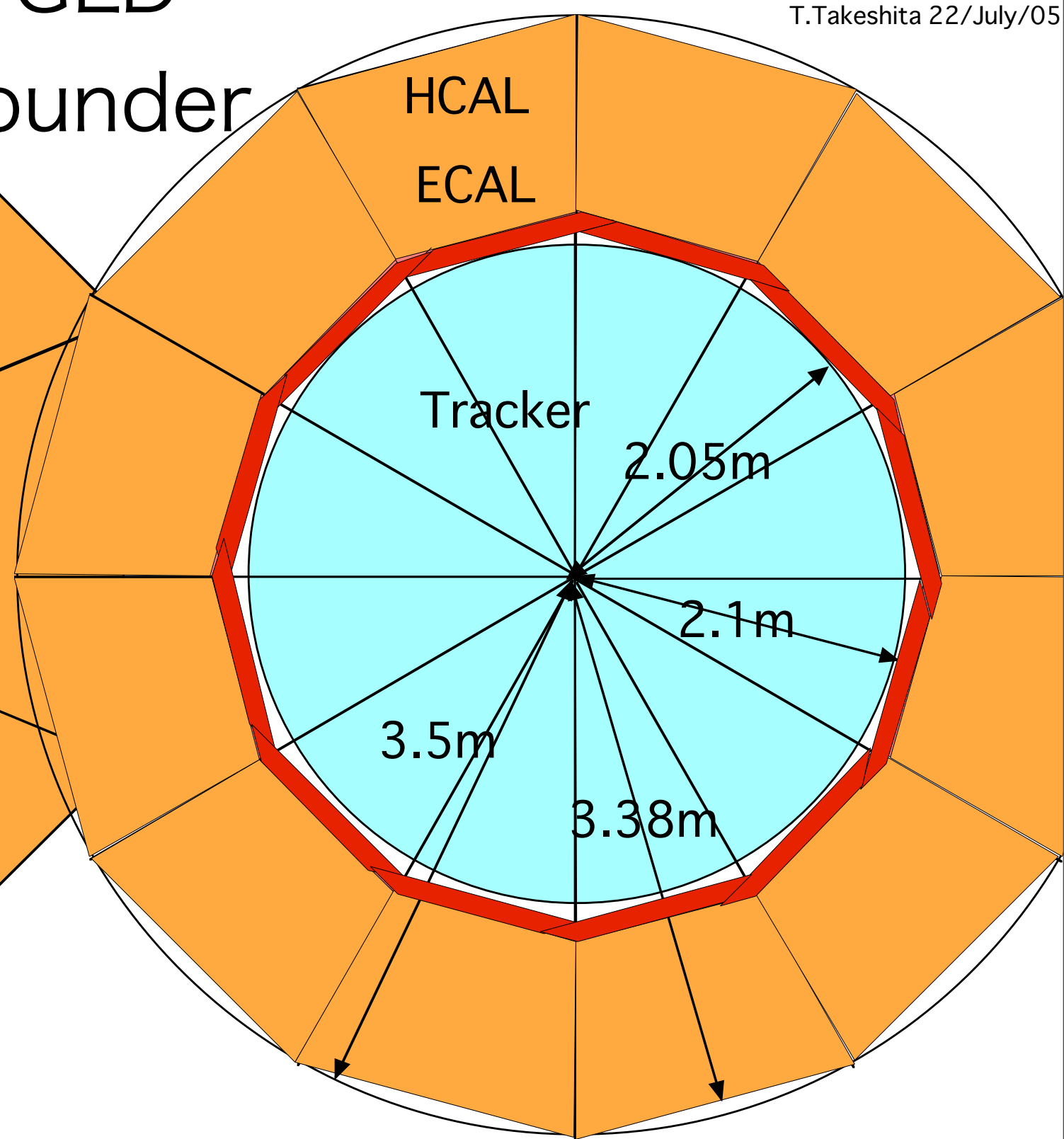
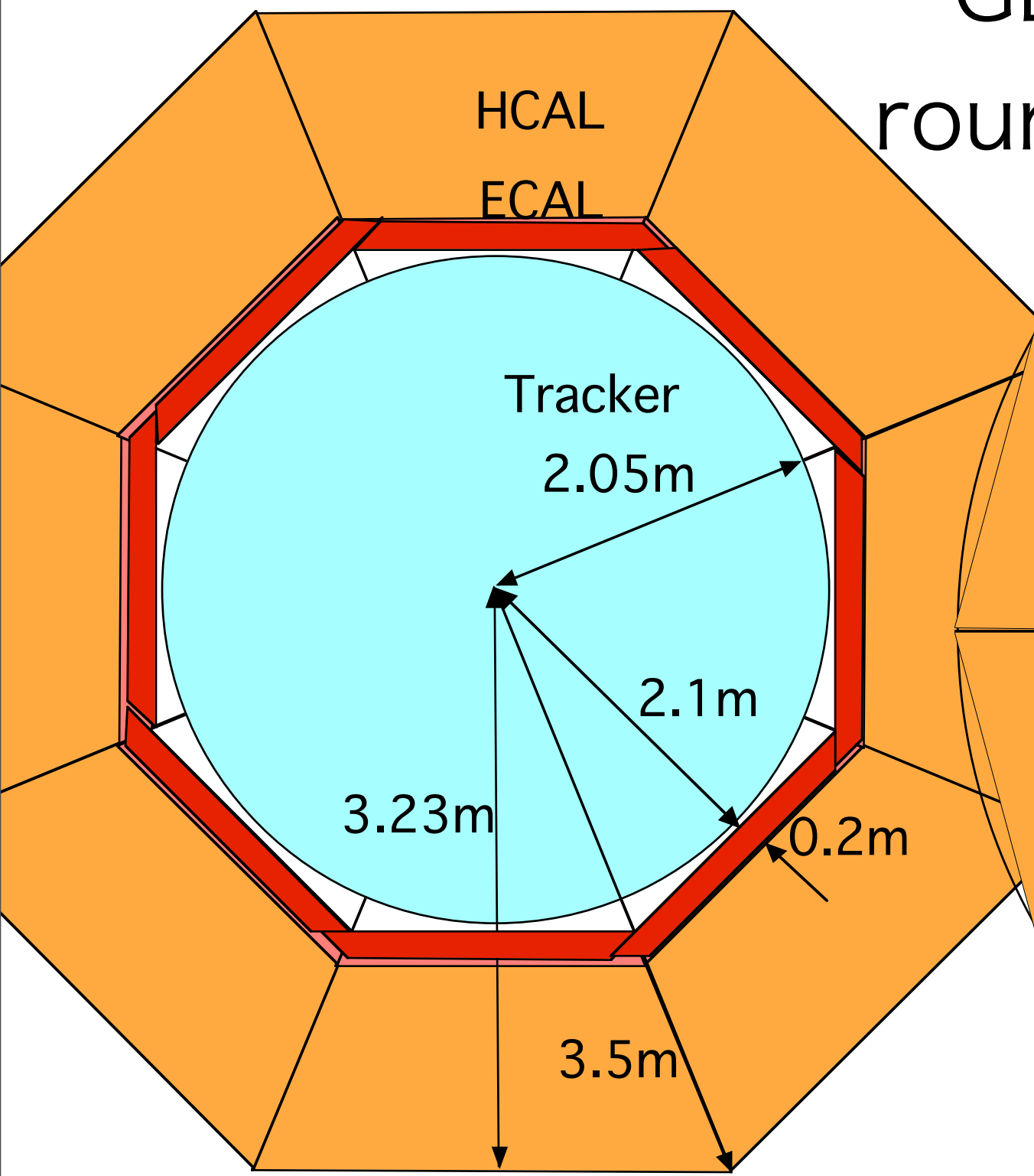


Barrel: octagonal vs decagonal

GLD

T.Takeshita 22/July/05

rounder



Barrel: octagonal vs decagonal

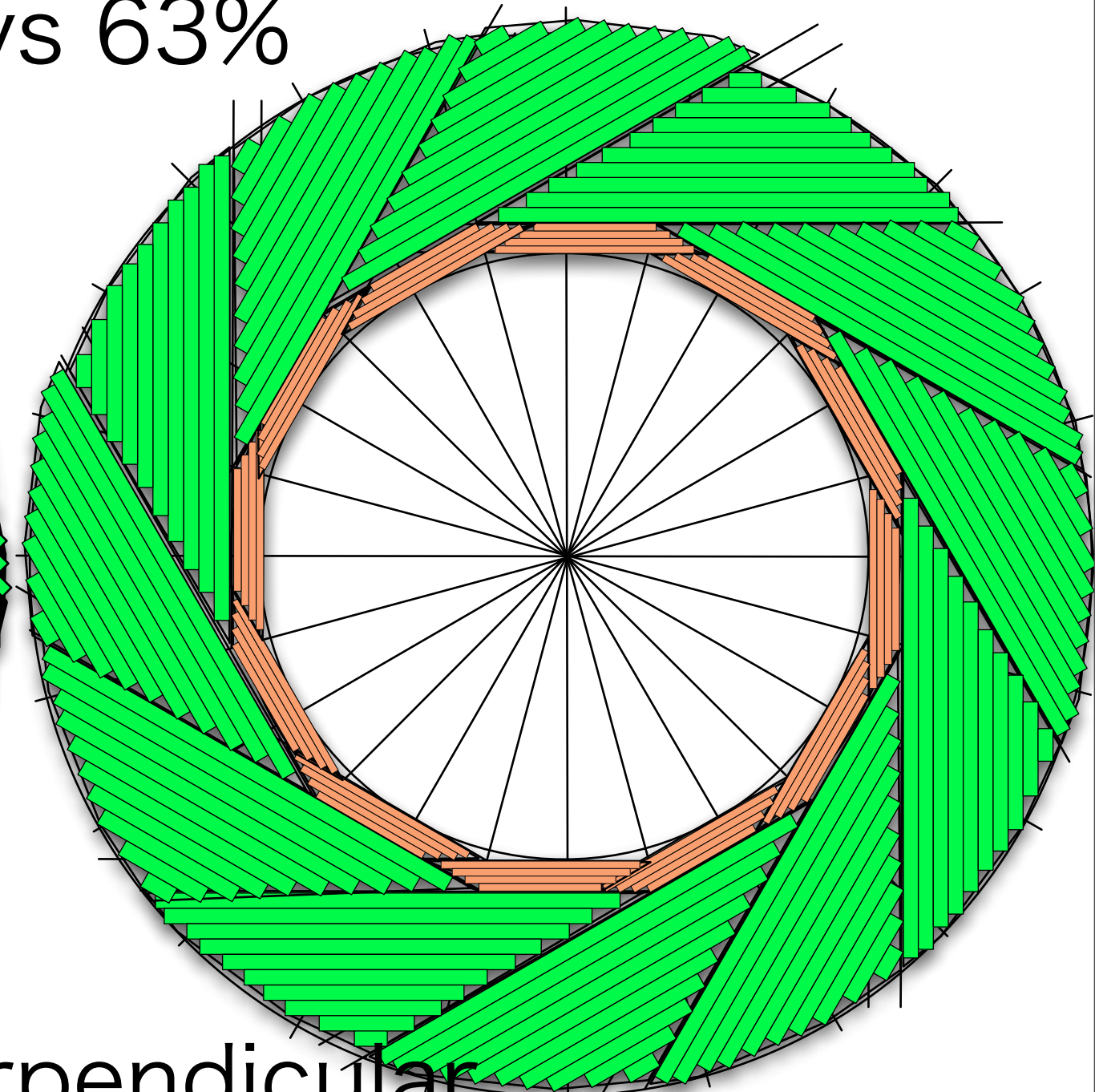
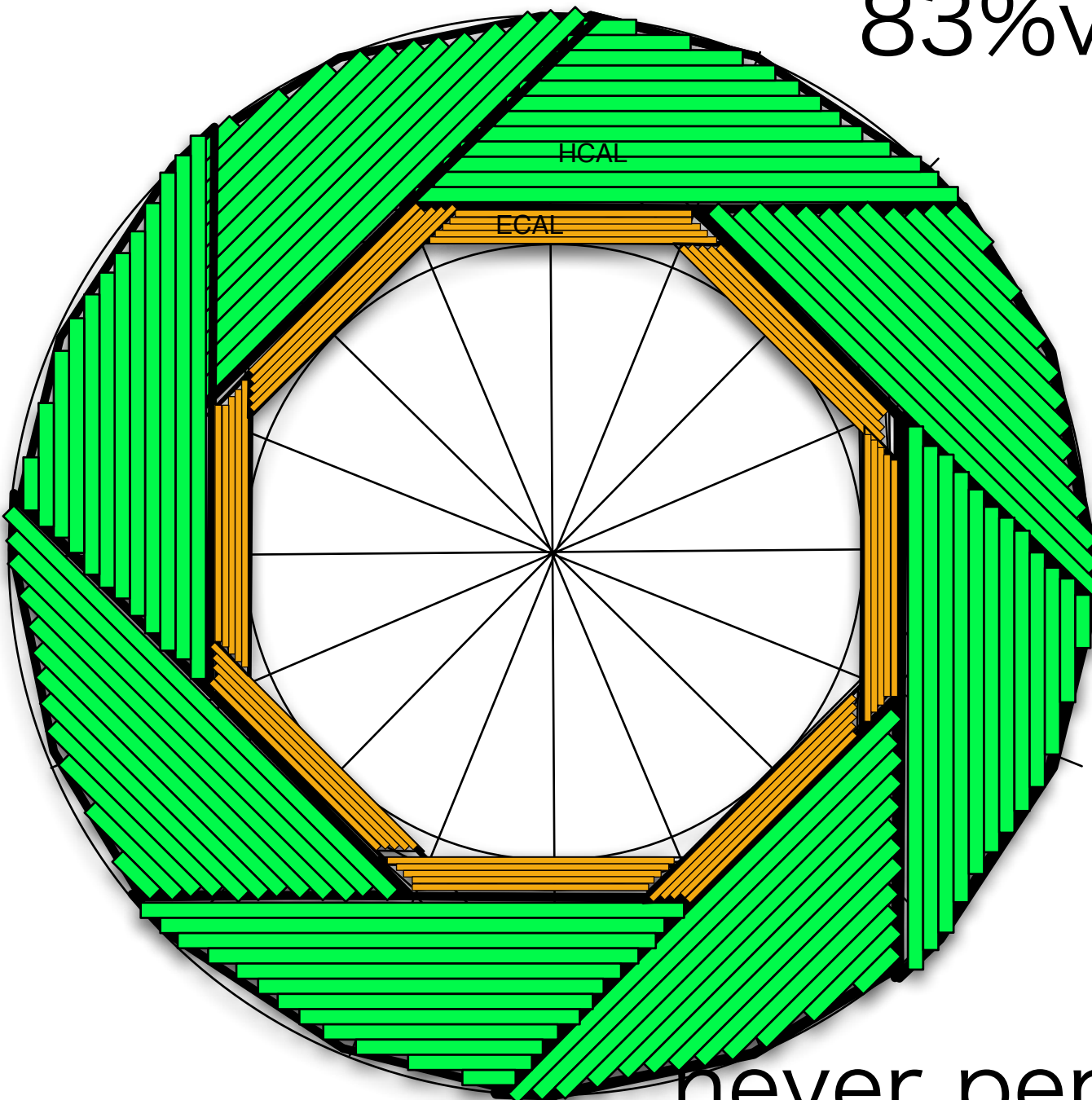
Henri-8
SiW

ECAL

Henri-12
SiW

transition

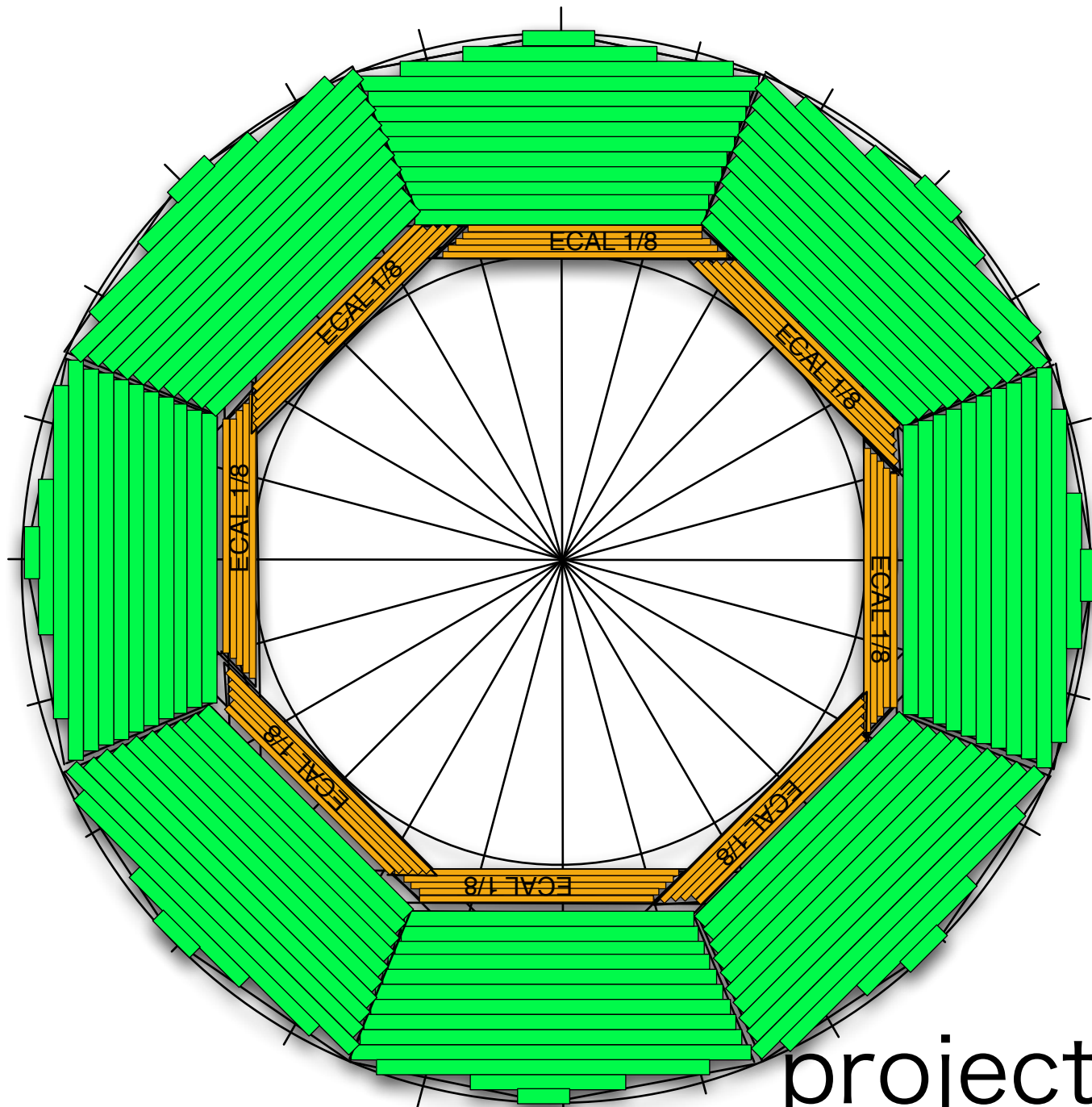
83% vs 63%



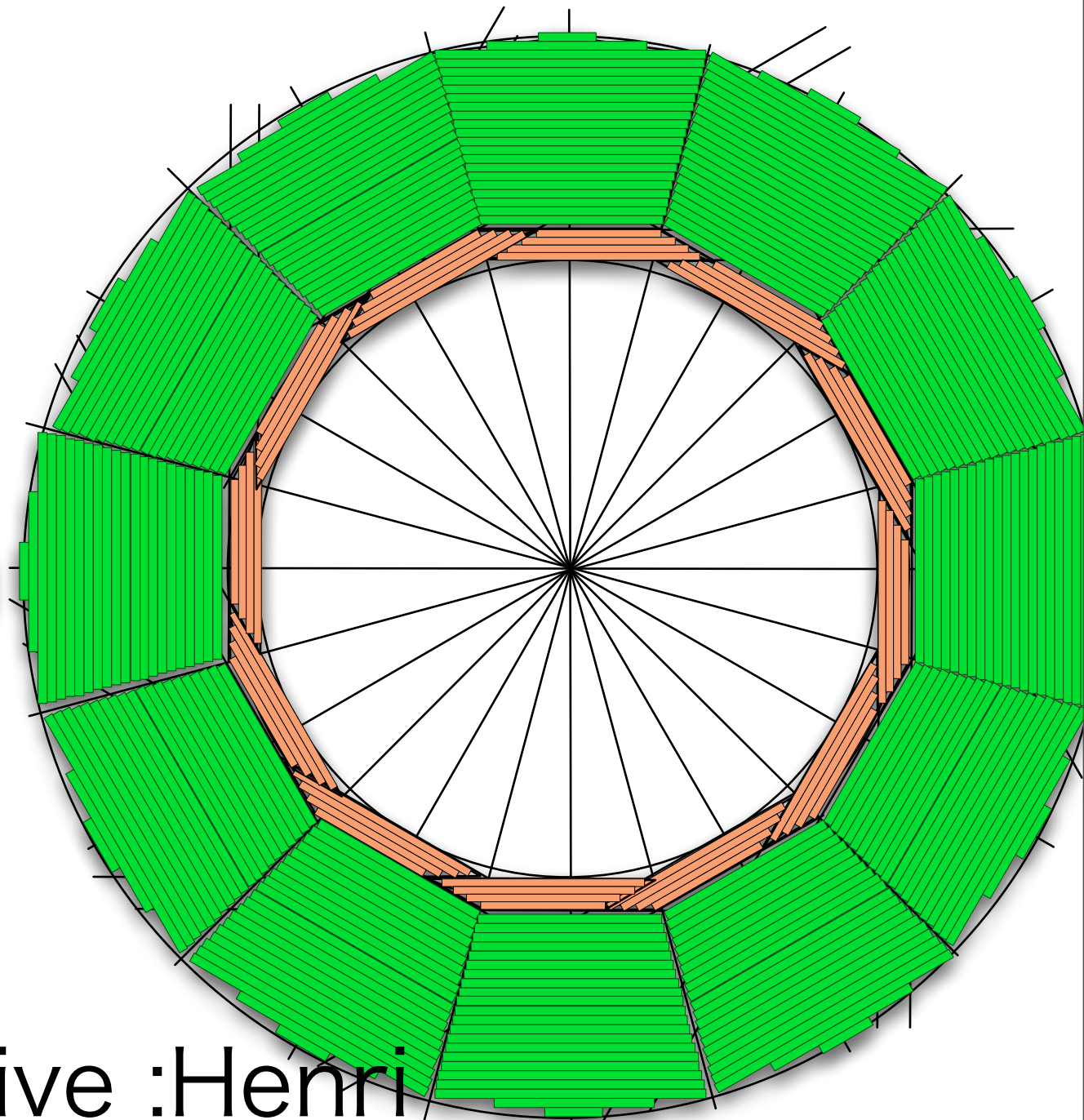
never perpendicular

Barrel: octagonal vs decagonal

Felix-8
(AHCAL)



Felix-12
(AHCAL)



projective :Henri

Barrel: octagonal vs decagonal

	8	12
ECAL overlap	83%	63%
HCAL read out	side	Z-end

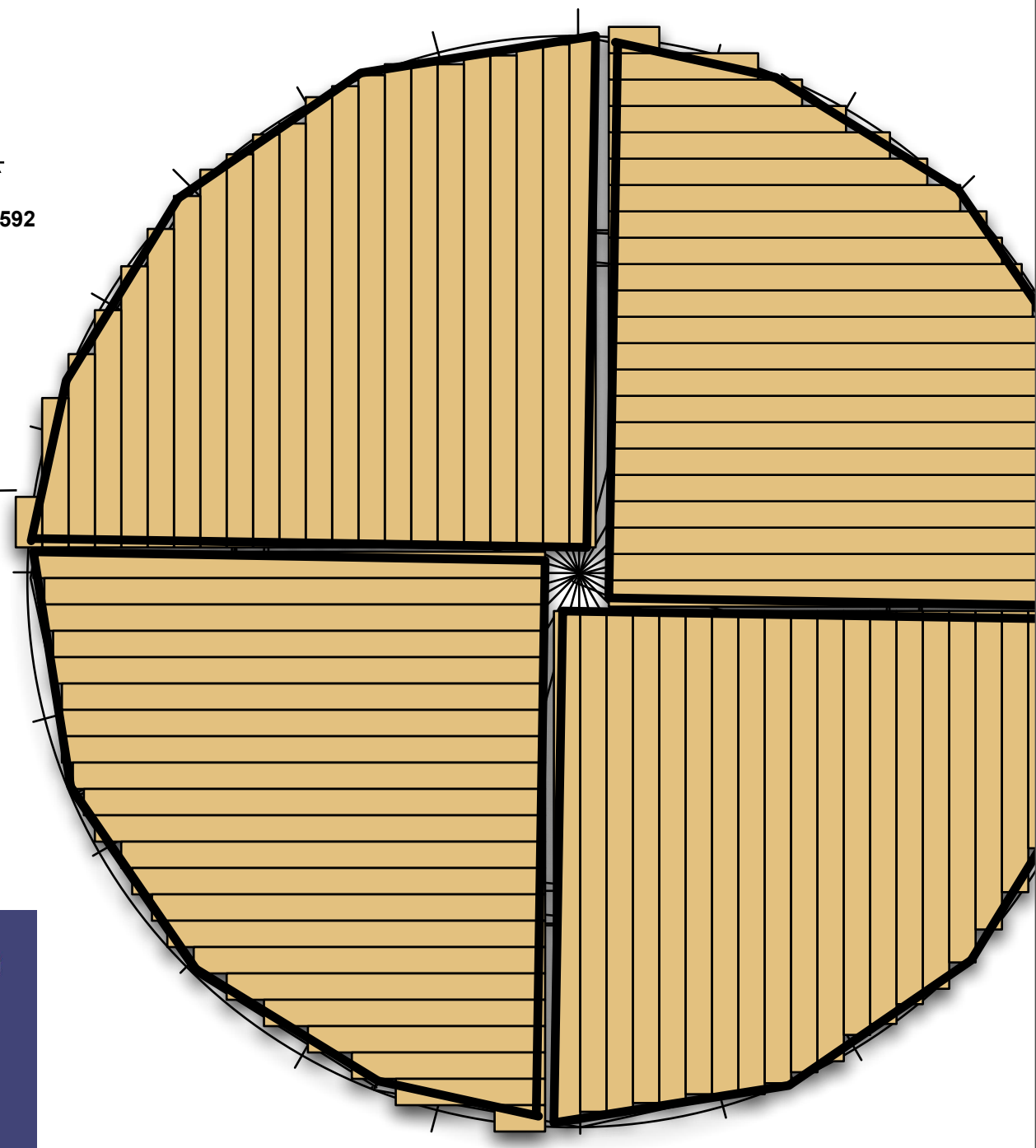
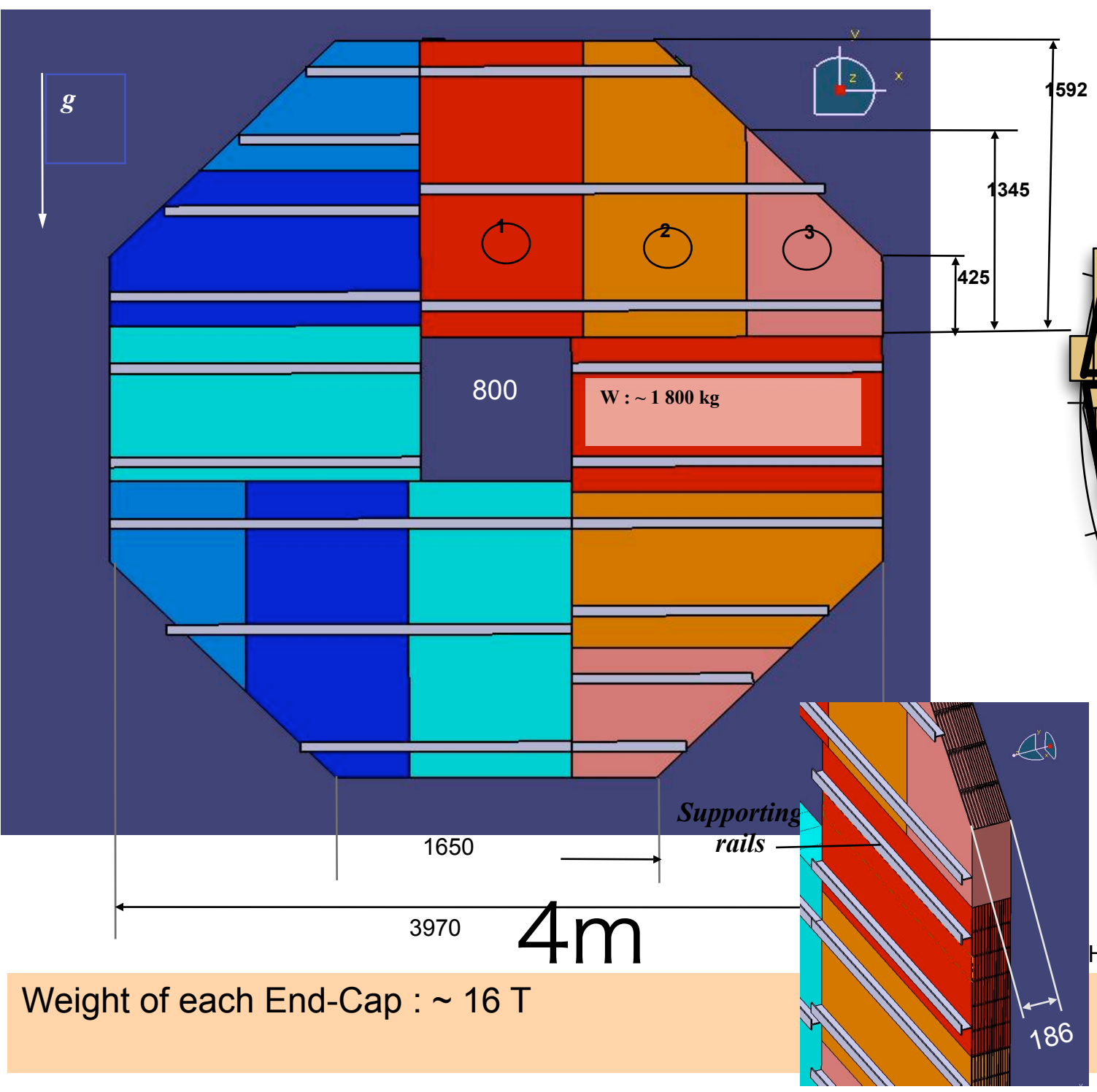
projective or Henri's idea ?

particle never pass

perpendicular in HCAL

(inclined)

Endcap hole & installation



Weight of each End-Cap : $\sim 16 \text{ T}$

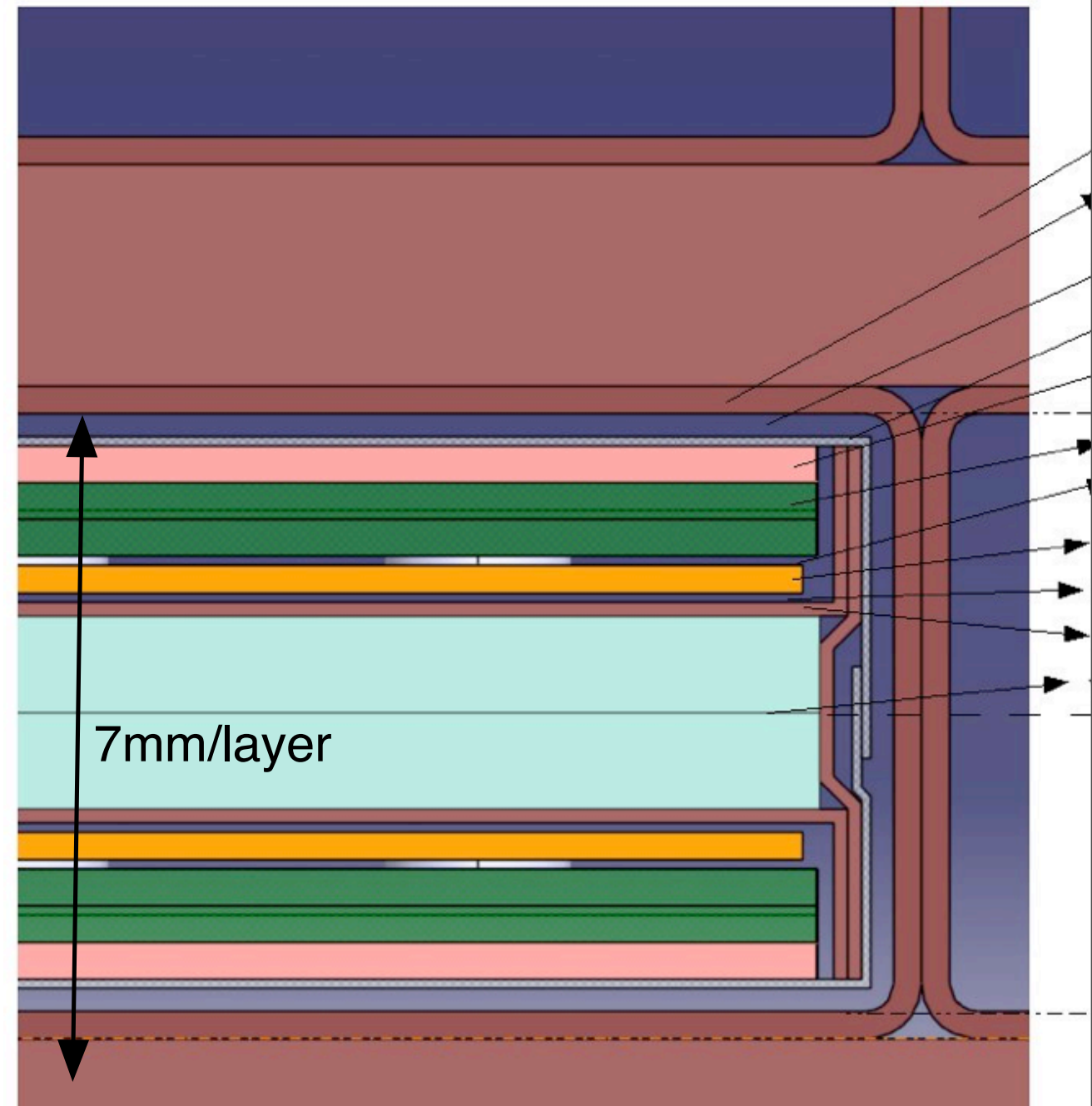
How we can install 5m long slab ?

10m

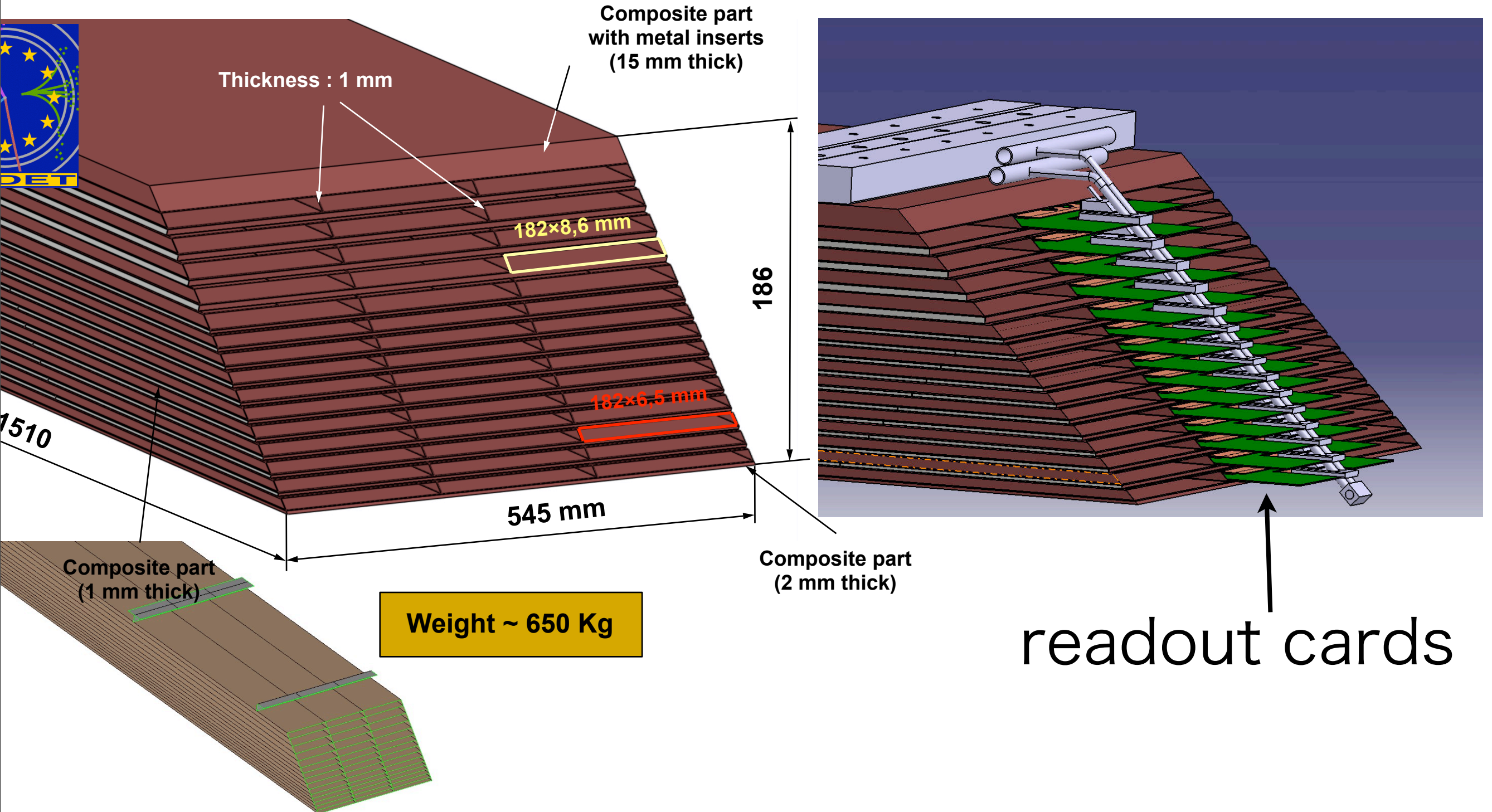
SC-ECAL



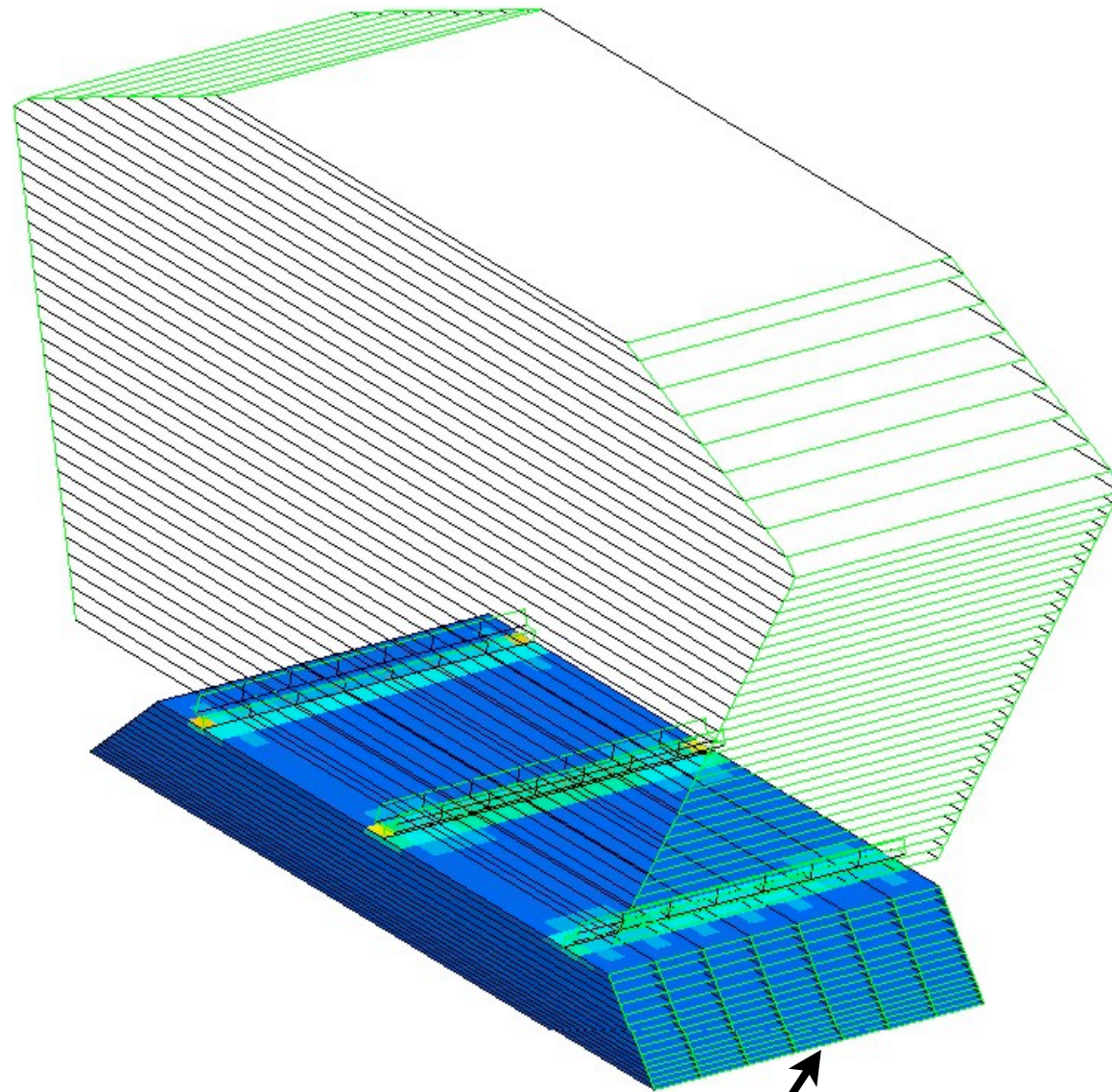
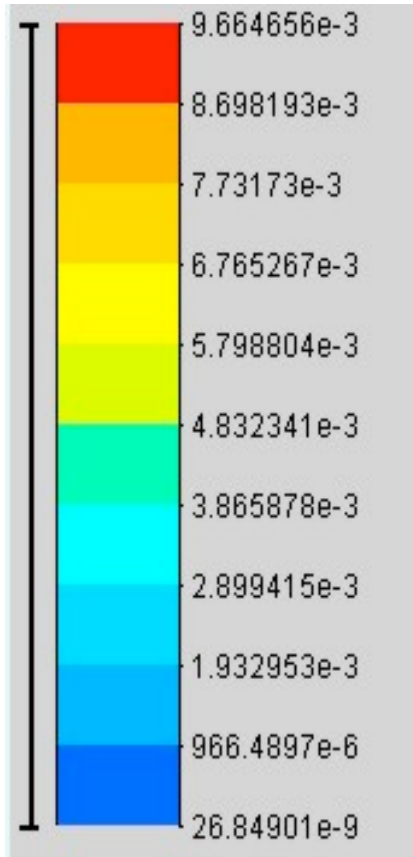
SiW/ECAL



ECAL readout



8/12



*TSAI-HILL ECAL/HCAL
Configuration 0°*

bending: 0.07mm / 0.15mm

summary

- 8 or 12 ?
- SS (CMSはなぜか真鍮)
- アンリには注意が必要だ、彼だけが彼の意思でデザインを決めようとしている
- 物理シミュレーション結果など通用しない、(時間がないのも事実)
- 放射状、オーバーラップを嫌がる
- シリコンタンクステンが全ての基準

HCAL readout

