

W configurations

Physical prototype config

- 10+10+10

ILD configuration:

- 30: 20+10
- 26: 18+8 ???

BT2017

- W-configuration 1: 0.6, 1.2, 1.8, 2.4, 3.6, 4.8 and 6.6 X0
- W-configuration 2: 1.2, 1.8, 2.4, 3.6, 4.8, 6.6 and 8.4 X0
- W-configuration 3: 1.8, 2.4, 3.6, 4.8, 6.6, 8.4 and 10.2 X0
- Paper from Paganis et al:
 - https://agenda.linearcollider.org/event/7826/contributions/41678/attachments/33036/50321/ALCW-Jinst-ECAL-calibration_May2018.pdf

0) Nothing! → MIP's

1) $5X_0$ in front ($5 \times 3.5\text{mm} = 17.5\text{mm}$, or 8 plates de 2.1mm)

- Same condition for all cards, incl Long Slab.

- Fitting on table ?
- How to maintain it ? (lead brick ?)

2) “ILD-like calo” for 7-9 cards (7 FEV11 + 1 FEV13 + 1 FEV_COB),
total = $26X_0 = 91.0\text{mm}$ in 2 groups 13 X_0 : ($13 \times 3.5 = 45.5\text{mm}$)

- 2/3rd of boards (5-6) sharing 13 X_0 , $13 \times 0.5/6 = 7.58\text{mm}$
 $3.6 (!) \rightarrow 3$ plates of 2.1 in front of each board = $1.8X_0$
($4.3 \rightarrow 4$ plates of 2.1mm if only 5 boards).
- 1/3rd of boards (2 or 3) with double W $\rightarrow 7.2 \rightarrow 7$ ($10.8 \rightarrow 11$) plates of 2.1mm