

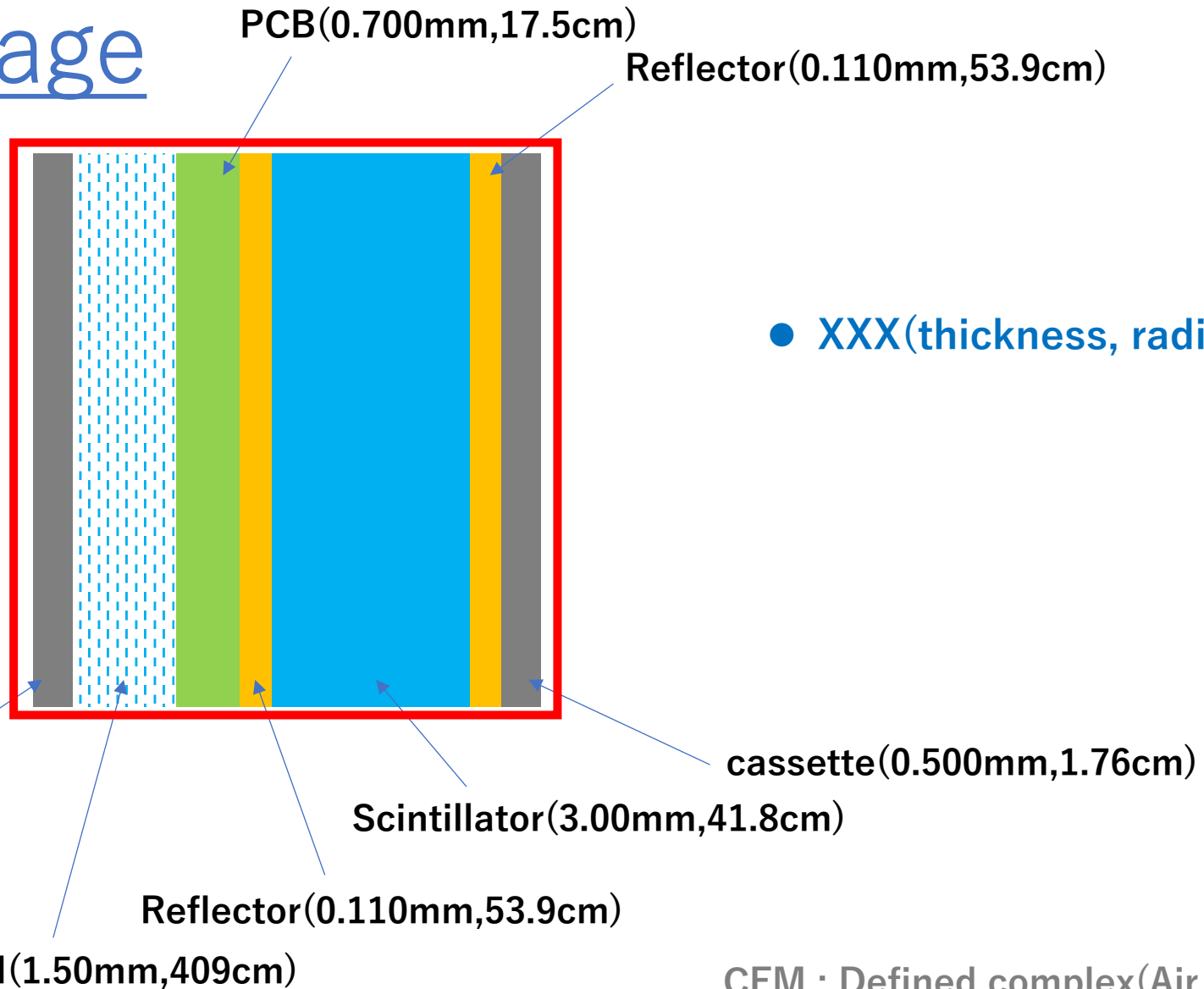


Energy Correction

14.12.2018

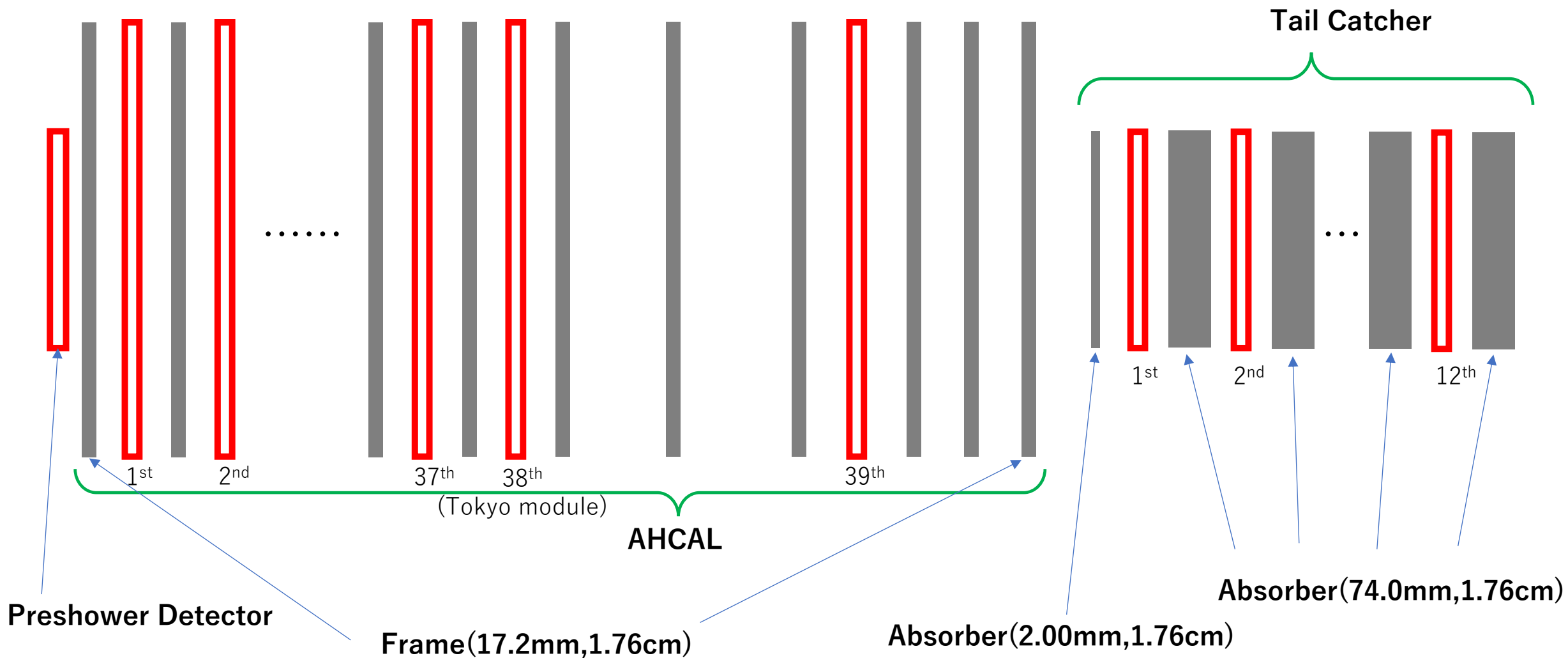
Tatsuro Torimaru
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AHCAL Analysis Workshop, Dec. 2018

HBU Package



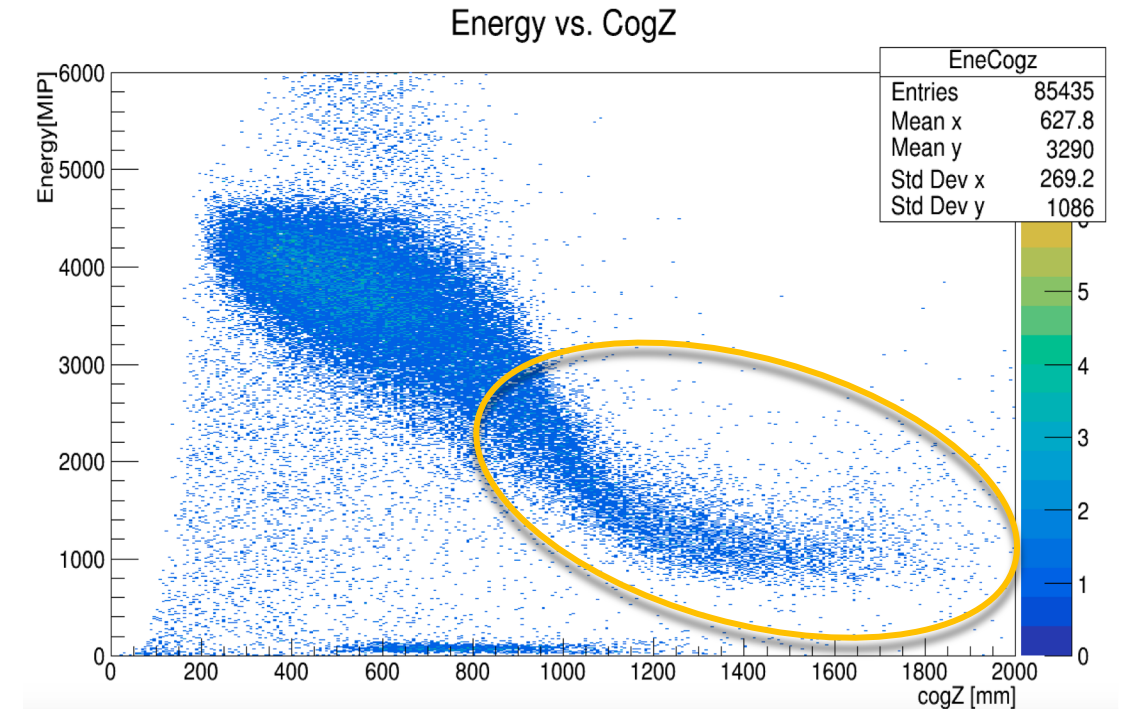
CFM : Defined complex(Air, fibre, coax cable)

June-July Setup(ignore air thickness)



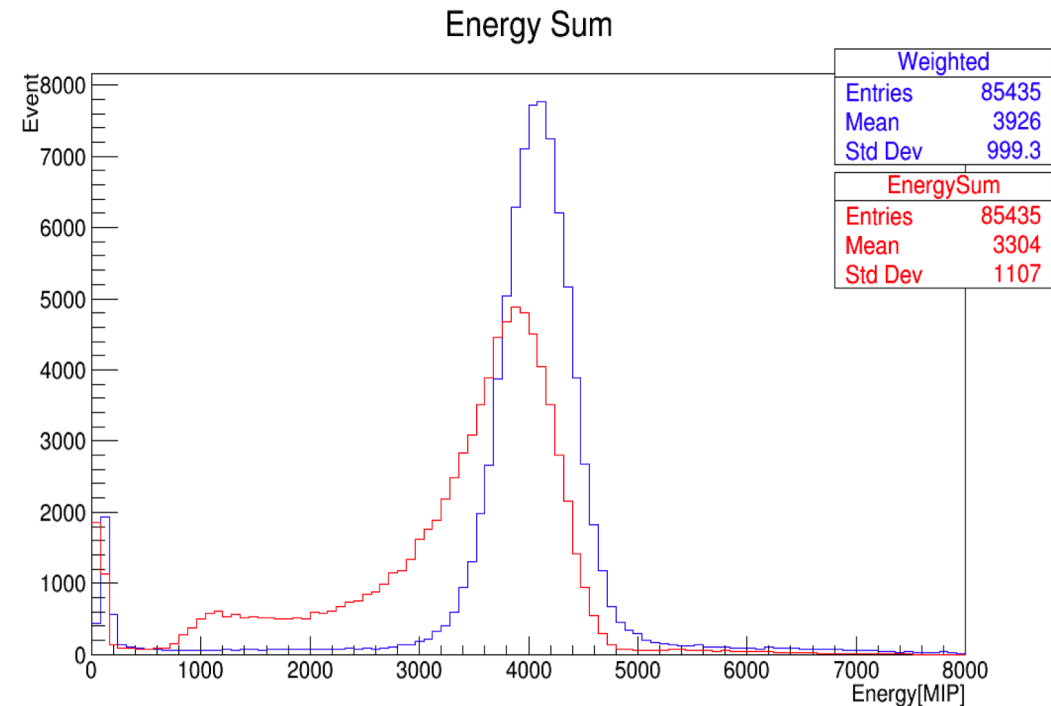
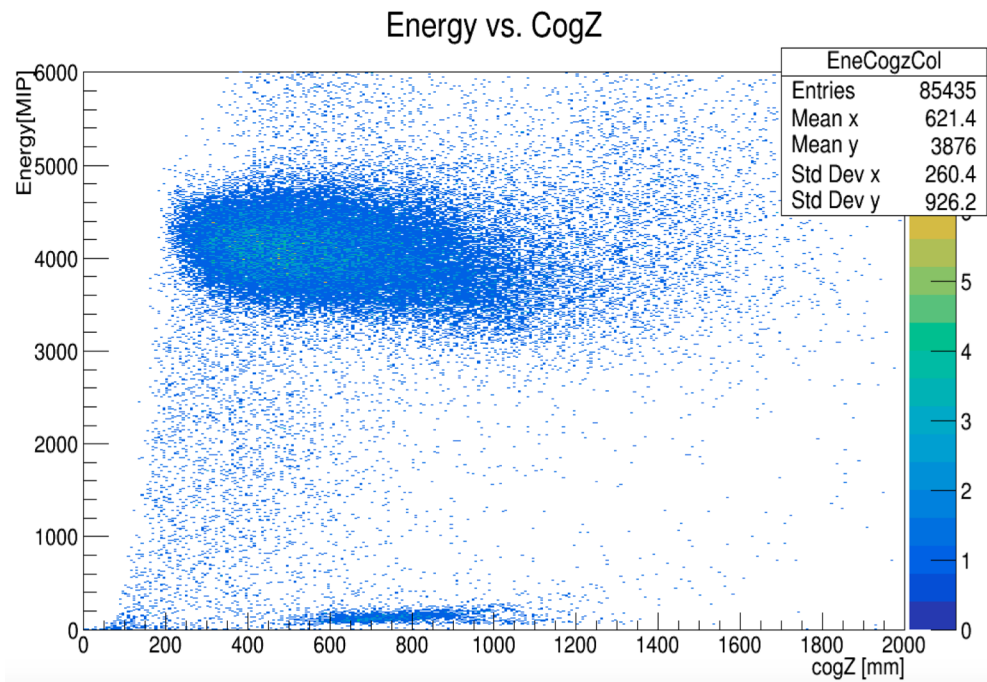
Simple Weight

- **Simple weight : ratio of absorber thicknesses**
 - **AHCAL 39th layer**
 - Absorber is three times thicker than other layers.
 - **1st layer of Tail Catcher**
 - Ratio : $(17.2 \times 3 + 2.00)/17.2$
 - **Other layers of Tail Catcher**
 - Ratio : $74.0/17.2$



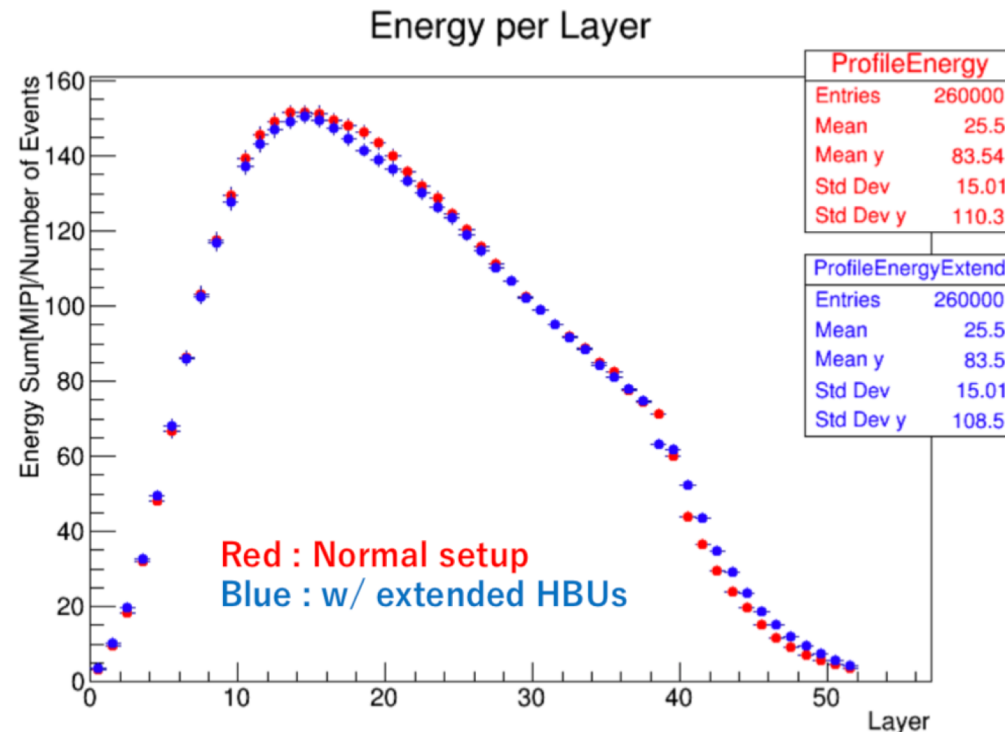
Comparison

- Pion 120GeV, Run 61285
- Energy resolution is better so much.
- Peak is shifted to higher value.
- The bump can be removed.



Todo

- Check other energies.
- Combine this weight and the ratio of normal TC and extended TC.
 - Solve many problem on MC/Data comparison and differences of normal/extended TC.



backup