

Calorimetry Status

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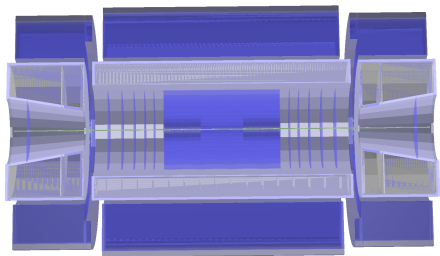
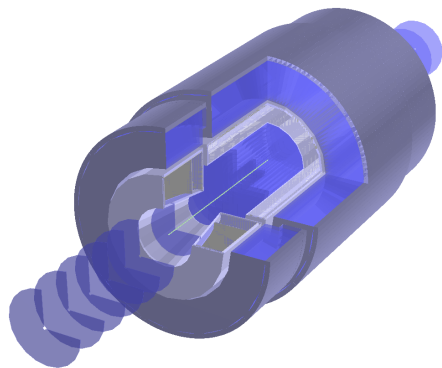
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Monday meeting, CERN



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Status of FCC-hh detector in FCCSW



!!!NEW!!!

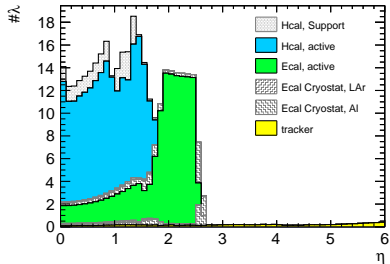
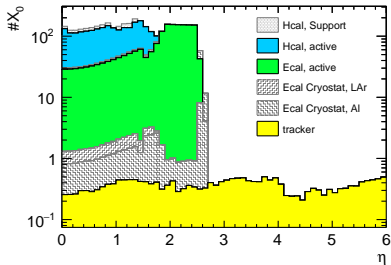
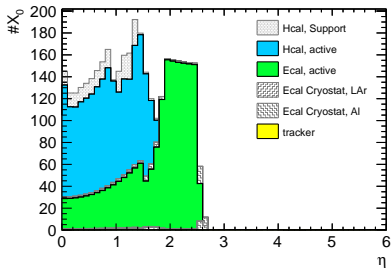
Forward Tracker discs

ECal Endcap + HEC

HCAL Extended Barrel

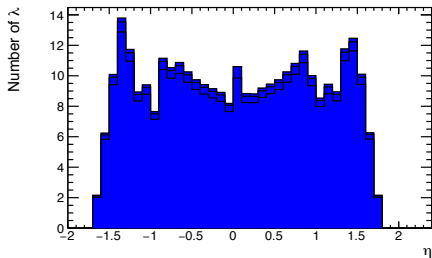
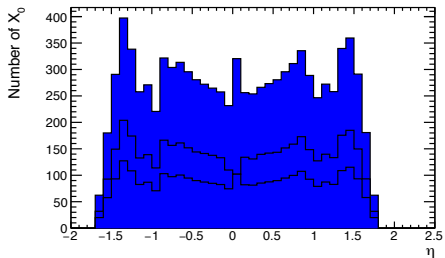
Material scans of FCC-hh full Barrel+Endcaps

TkLayout tracker + sunny ECal + TileCal



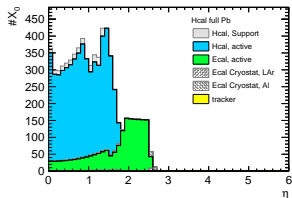
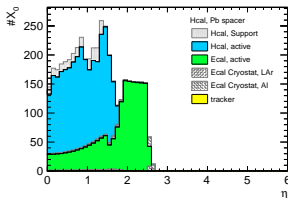
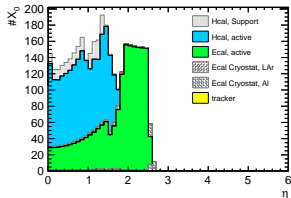
- passive calorimeter supports in light grey
- approx. $1.8 \#X_0$ in front of ECal
- approx. $2 \#\lambda$ in front of HCal

Impact of Lead



Pb spacers: X_0 increases by $\sim 50\%$, minor decrease in $\#\lambda$

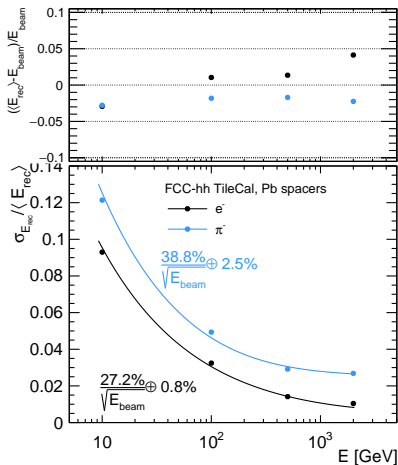
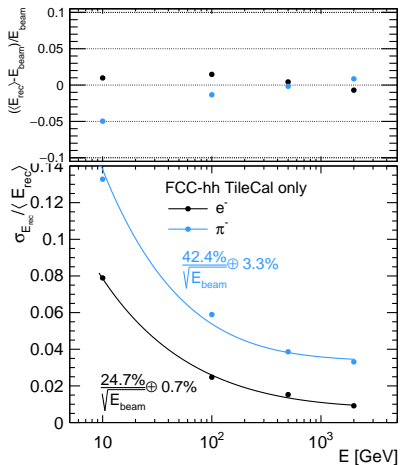
full Pb HCAL: X_0 increases by $\sim 150\%$, still little change in $\#\lambda$



Test of Pb spacers

10,000 events per energy,

FTFP_BERT, $\eta = 0.36$



e/h : 1.23 \rightarrow 1.1

f_{sampling} : 3.2% \rightarrow 2.7%

Thank You!