

# Status

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FCC-hh Calorimetry Monday meeting, CERN

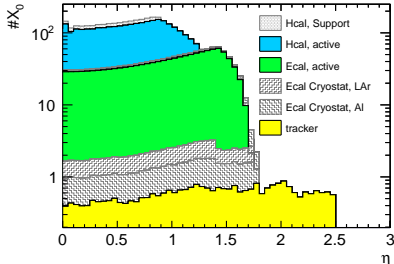
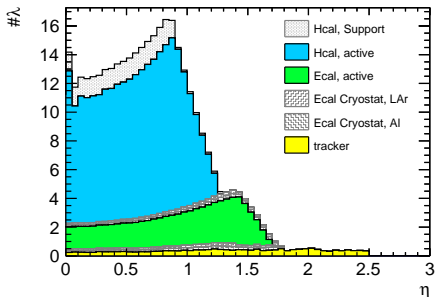
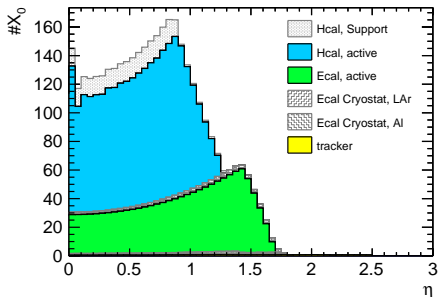


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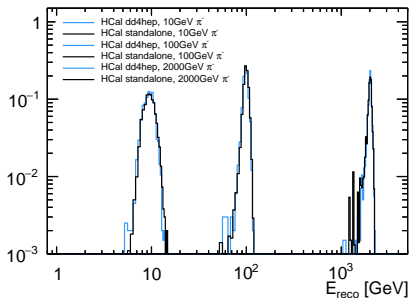
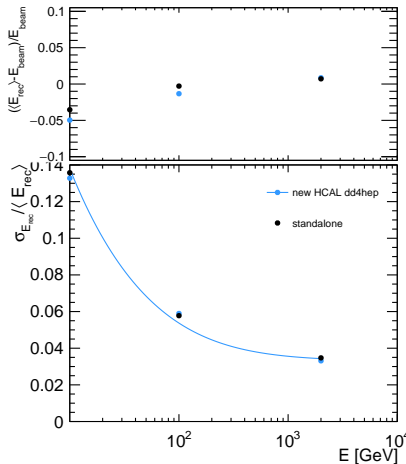
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# New material scans

simple tracker + new sunny ECal + realistic TileCal design



# Comparison Standalone



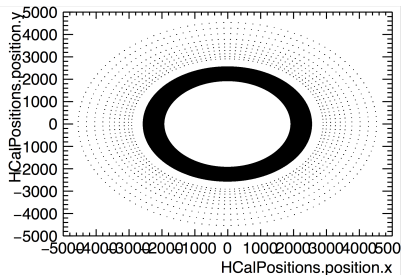
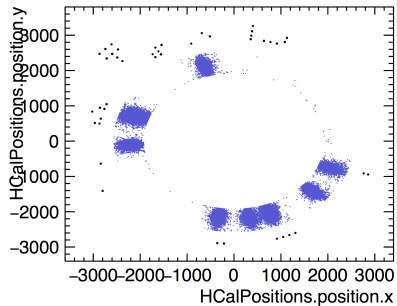
$$E_{reco} = \sum_{i=1}^{hits} E_i / a \quad (1)$$

●  $a_{standalone} = 2.3\%$

●  $a_{dd4hep} = 2.9\%$

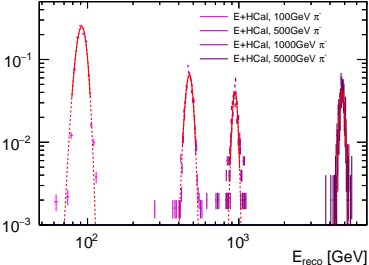
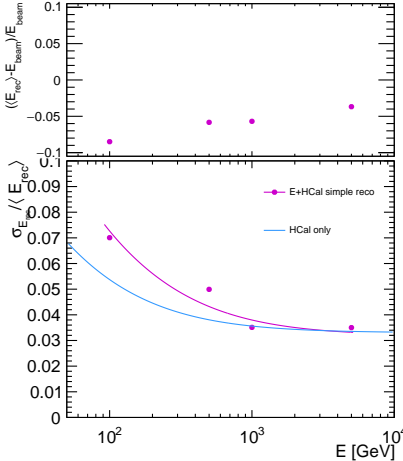
$$\sigma_{E_{reco}} / \langle E_{reco} \rangle = \frac{42.4\%}{\sqrt{E}} + 3.3\% \quad (2)$$

# E+HCal first simple reco



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## Resolution and Linearity for single pions



$$E_{reco} = \sum_{i=1}^{hitsEcal} E_i/b + \sum_{j=1}^{hitsHCal} E_j/c \quad (3)$$

- $b = 18.5\%$
- $c = 3.0\%$

ECal: not corrected for different sampling fractions per layer

# Backup Material