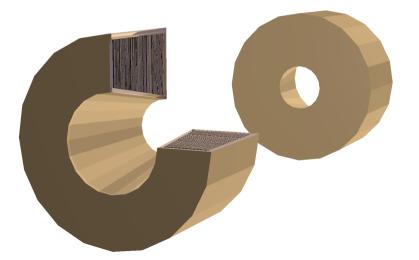
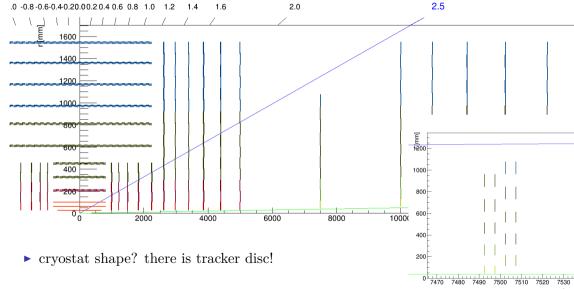
# Calorimeter endcaps - first design



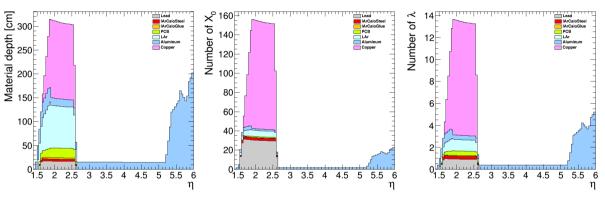
#### Calorimeter endcaps: tracker tkLayout



# Calorimeter endcaps

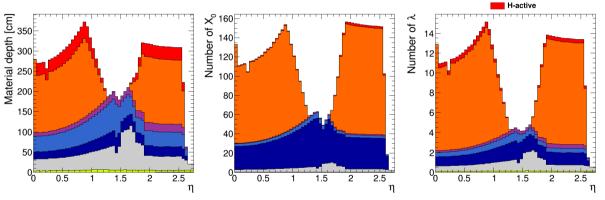
A44/A / A / A	
11 510 1 1 1 1	
11/////////////////////////////////////	
11/03 ( 1 ) 1) 1	
	0
 2 2 1 1 2 1 2 2 1 1 1 1	

# Calorimeter endcaps: material scan of endcap



- $\blacktriangleright$  cryostat that does not go along  $\eta=2.5$  direction (currently overlap with tracker)
- ▶ EMEC: 3mm lAr / 2mm absorber (lead, steal, glue)
- ▶ HEC: 3mm lAr / 2cm Copper

#### Electromagnetic calorimeter: material scan

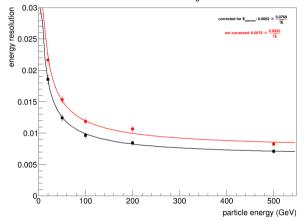


Beampipe

Tracker Cryostat EM-absorber EM-active PCB readout H-absorber

# Energy resolution: (no) correction for $E_{upstream}$

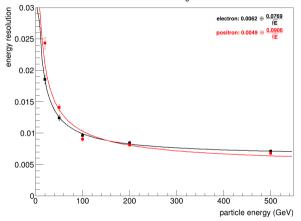
e<sup>-</sup>, B = 4T, 1.5 Χ<sub>0</sub>, η=0



▶ only difference: correction for  $E_{upstream}$ 

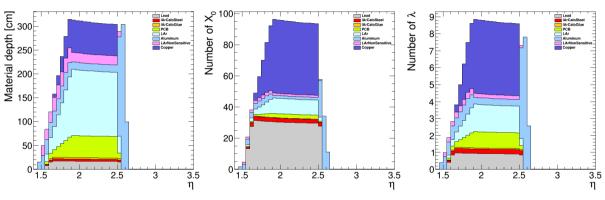
## Energy resolution: comparison with positrons

B = 4T, 1.5 X<sub>0</sub>, η=0



• using same parameters (sampling fractions, parameters for  $E_{upstream}$  correction)

#### Calorimeter endcaps: material scan of endcaps (old)



 $\blacktriangleright$  cryostat that goes along  $\eta=2.5$  direction (no overlap with current tracker)

▶ EMEC & HEC: 3mm lAr / 2mm absorber