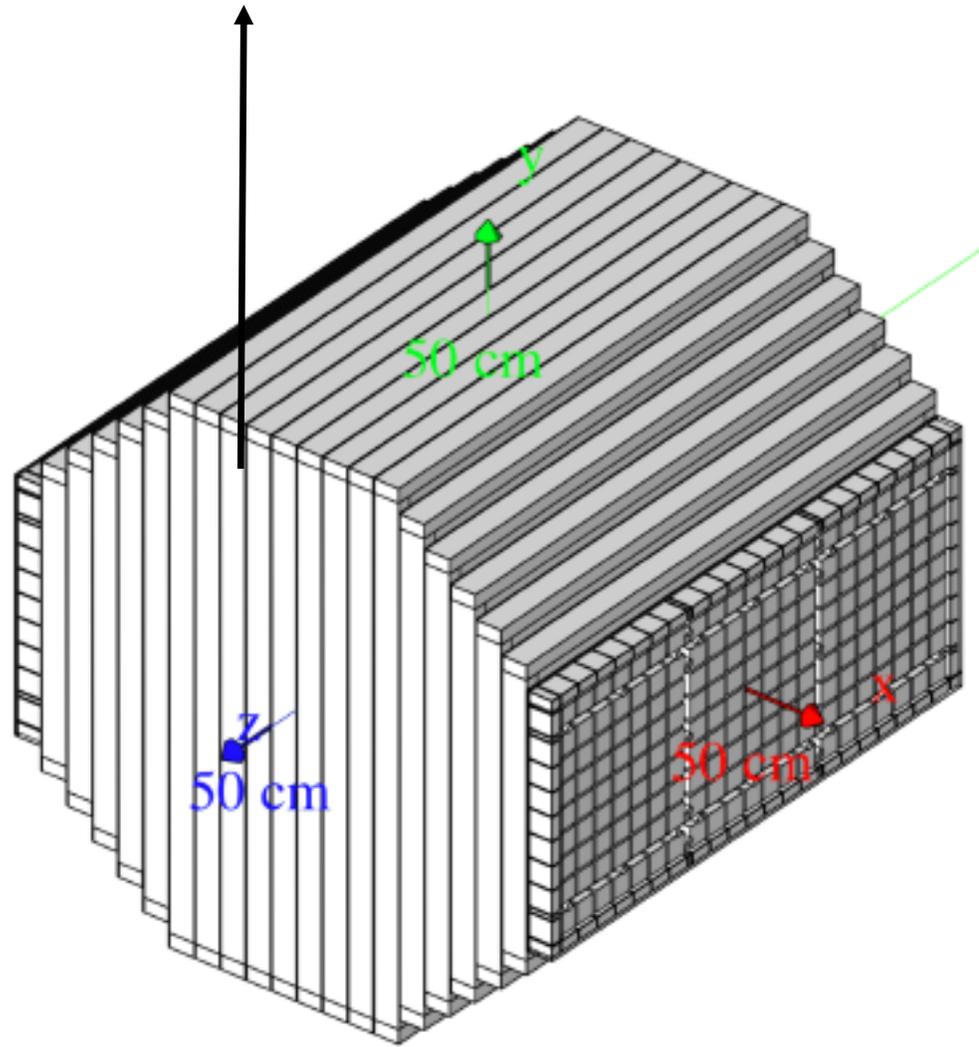
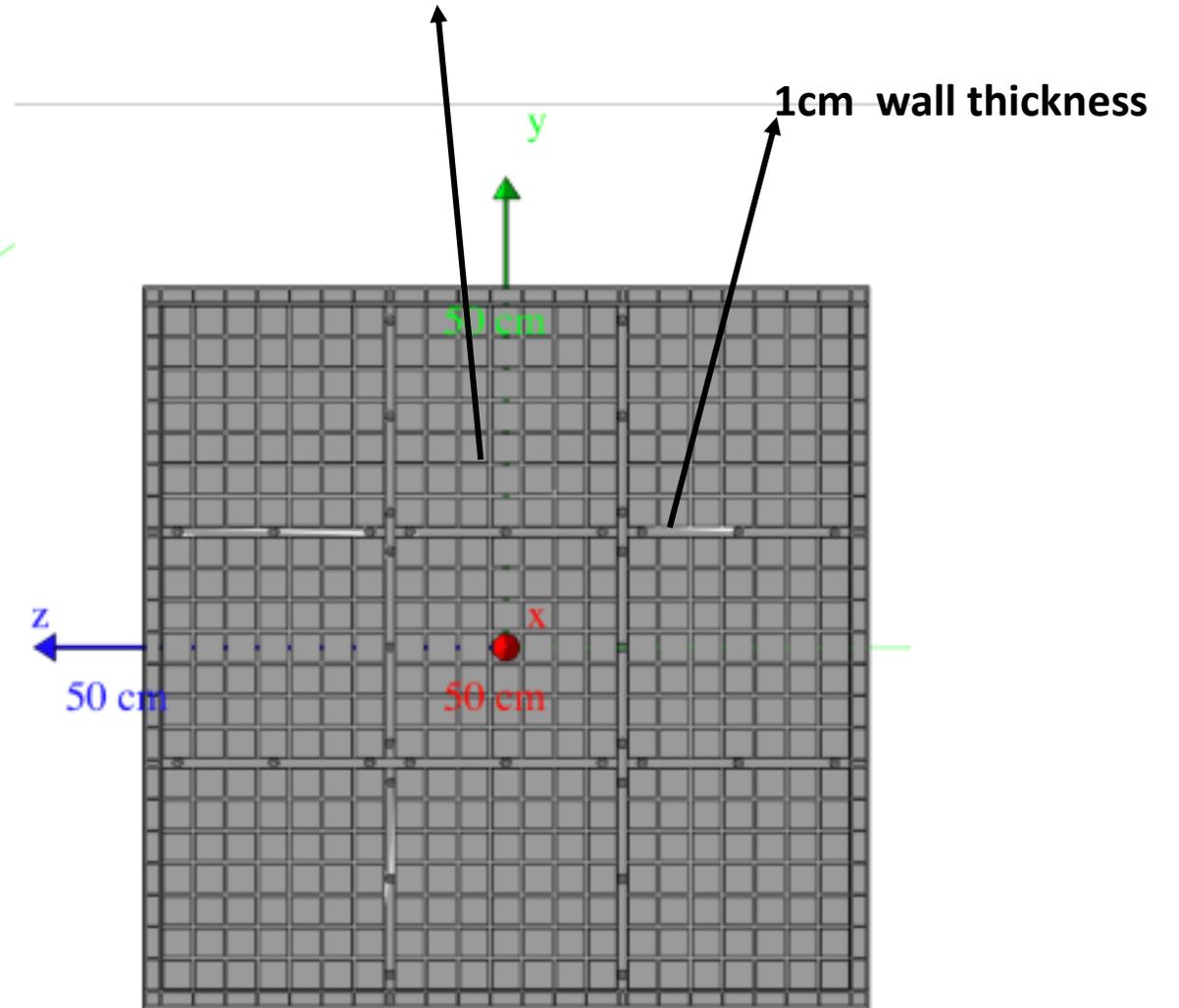
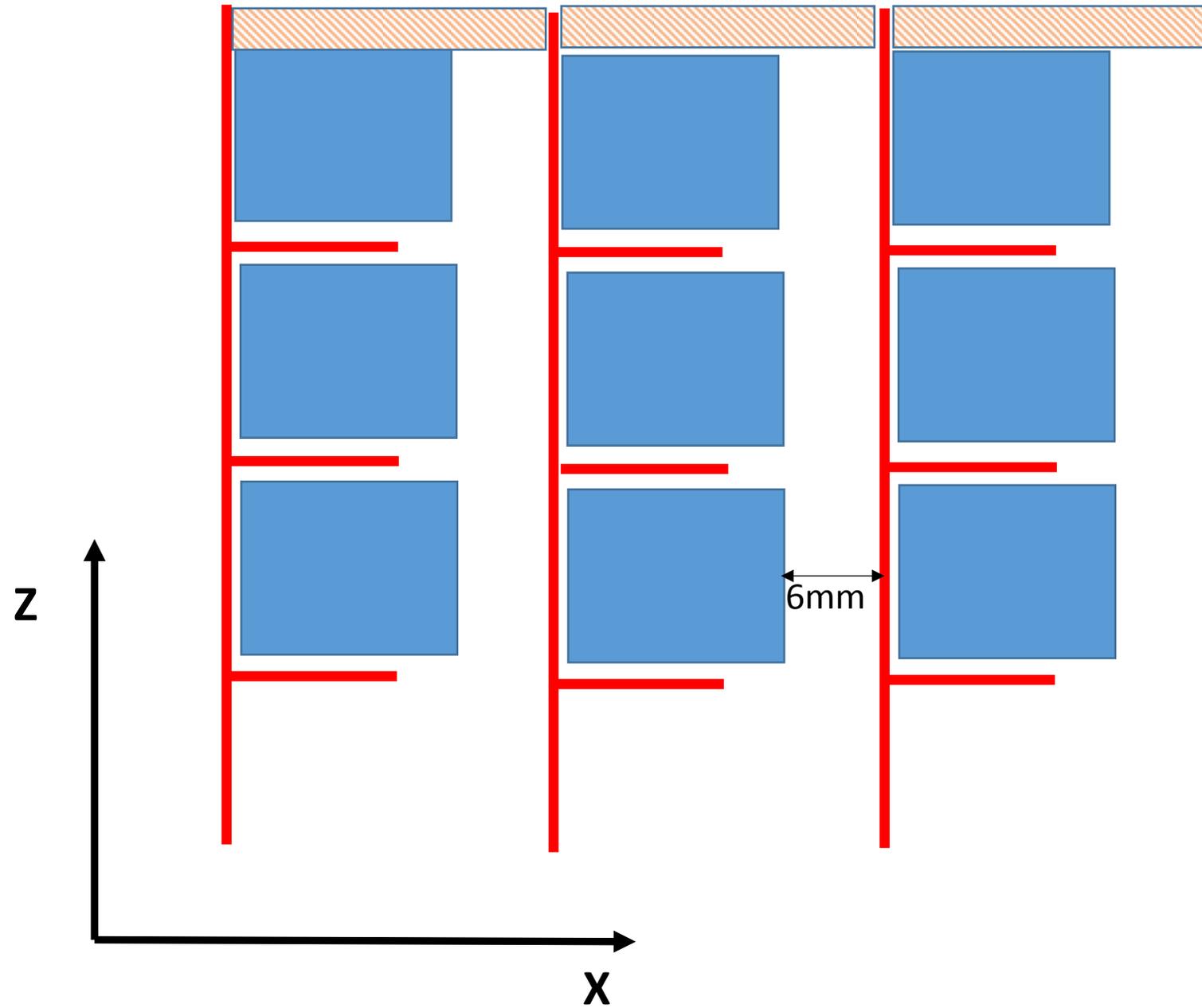


X gap 8mm – wall thickness 2mm

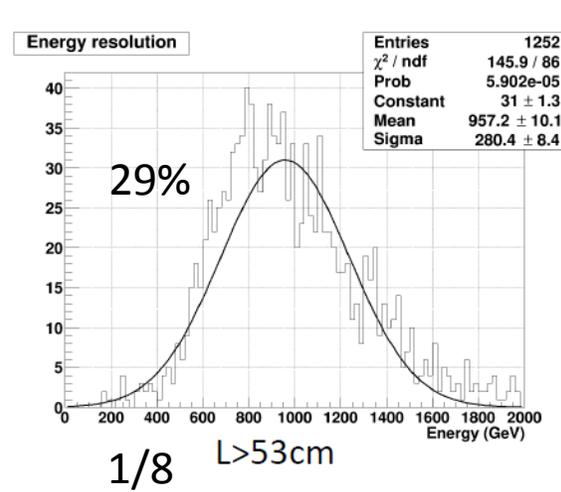
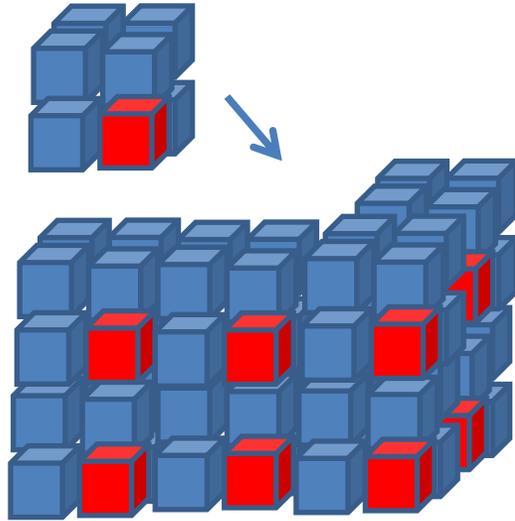


Z;Y – gap 4mm – wall thickness 2mm

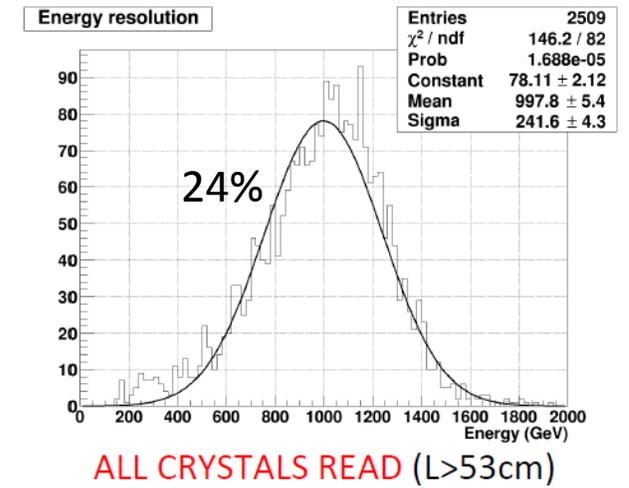




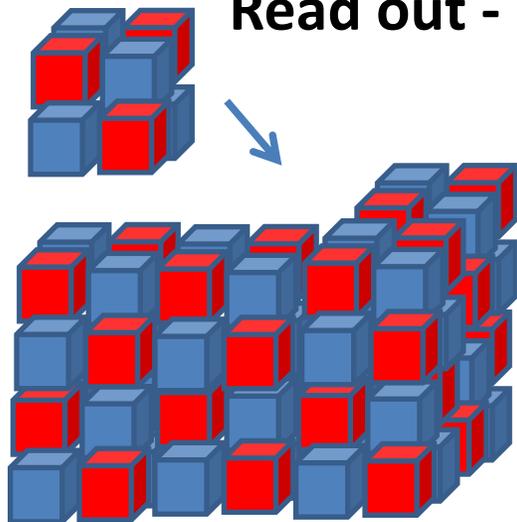
Read out - 1 / 8



1 TeV protons



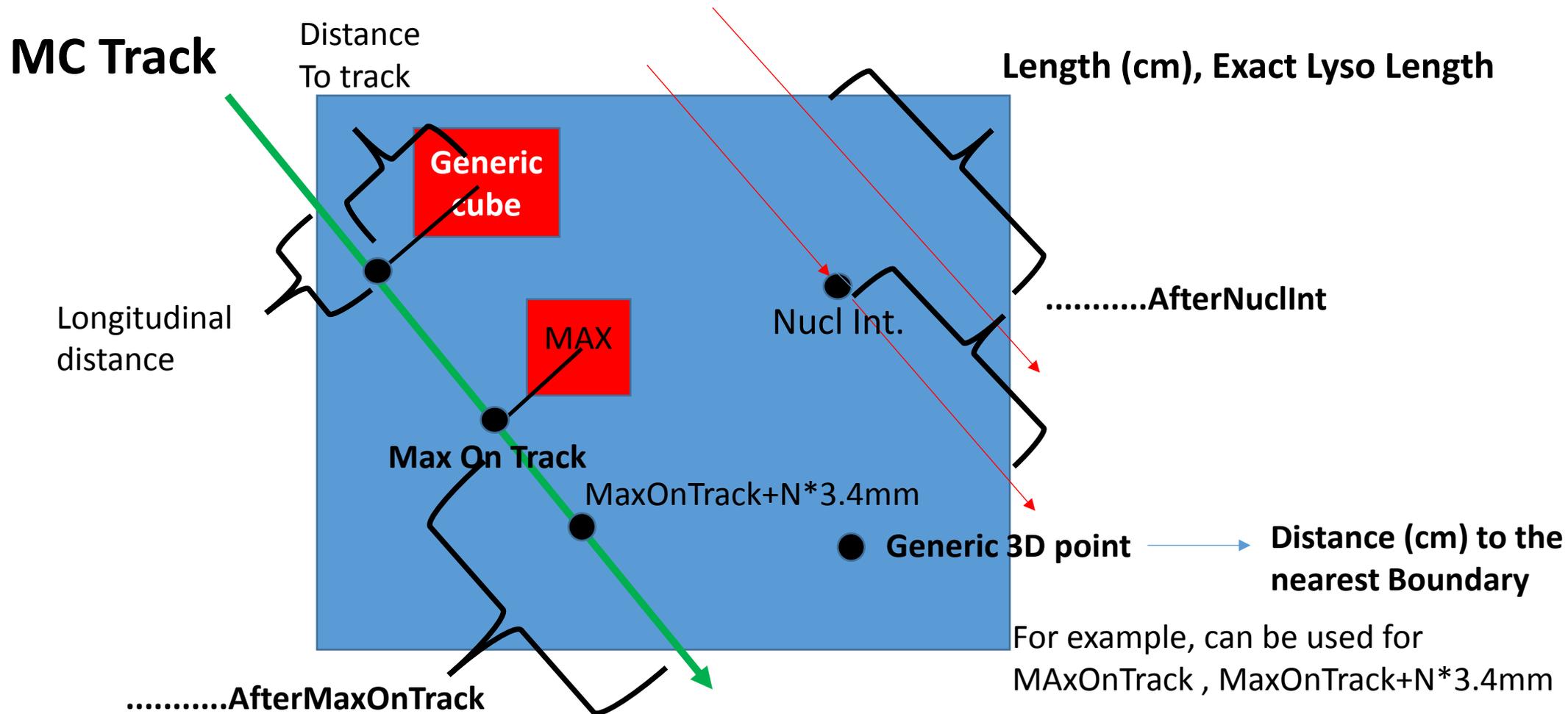
Read out - 1 / 2



—————> 1 TeV electrons ? Resolution few % ?

HERDSOFTWARE

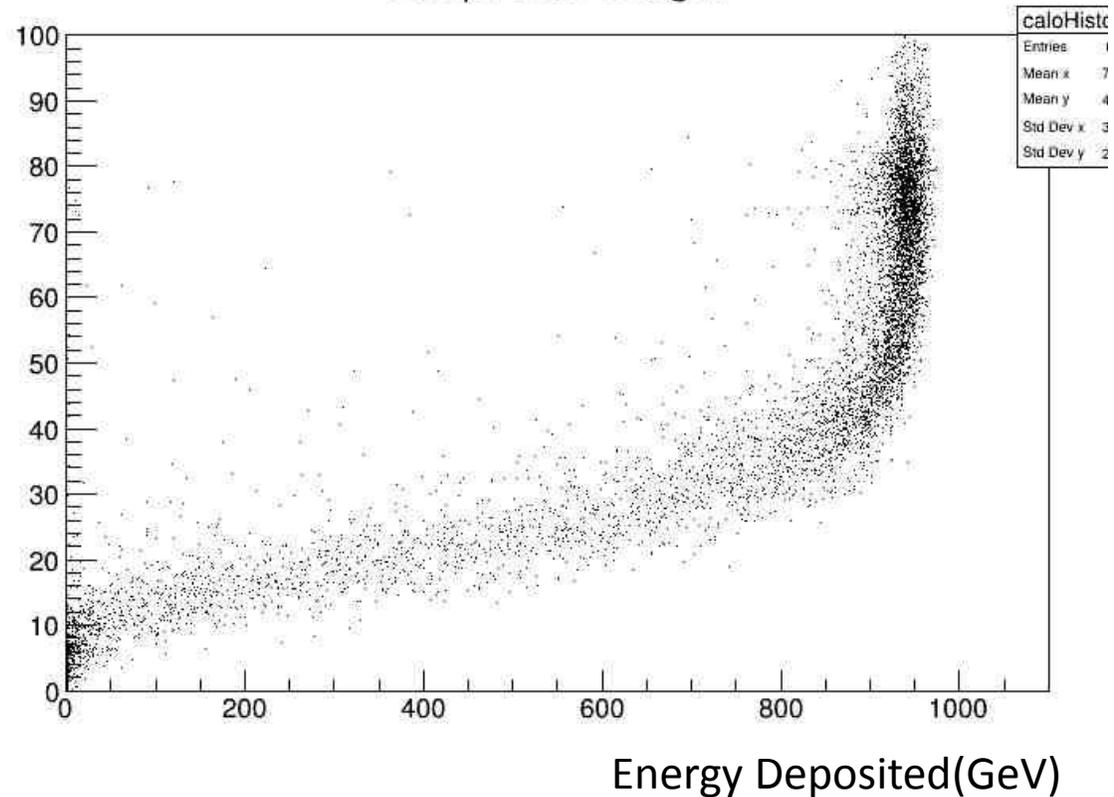
Some New geometrical analysis tools , working with v2 geometry



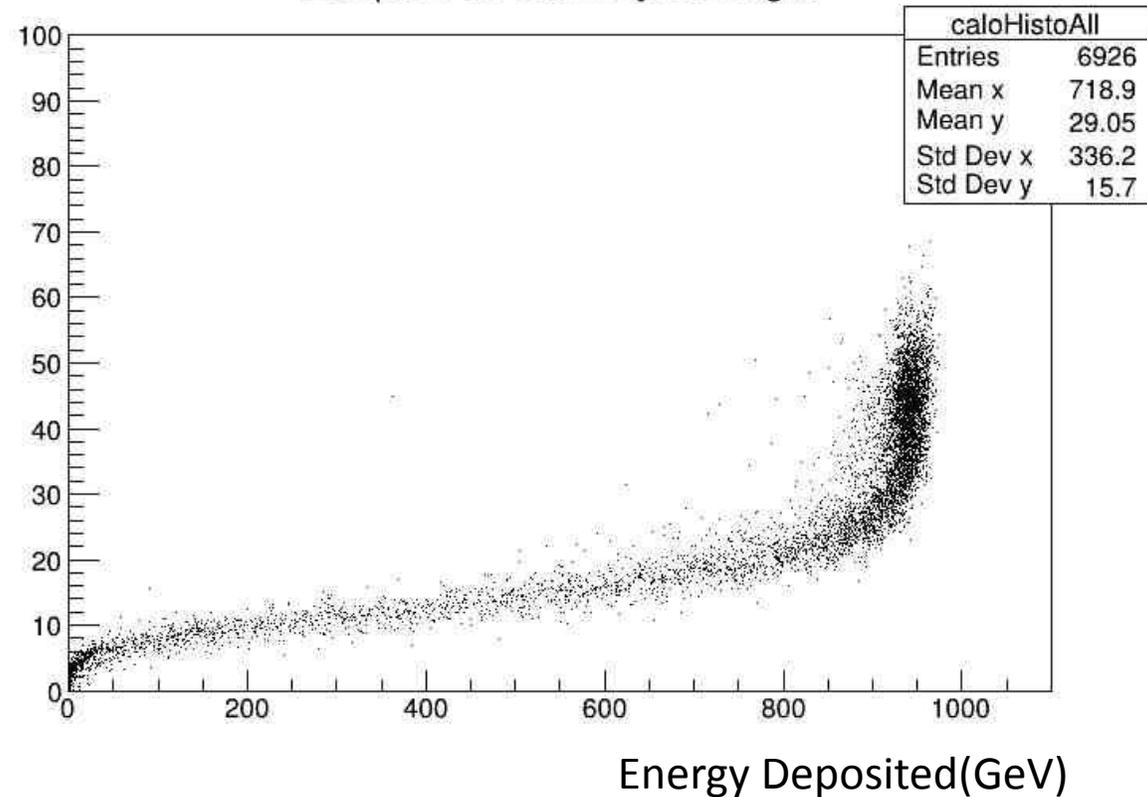
1 TeV Electrons Simulation - isotropic (Length > 0)

ALL CUBES 1/1

EdepTot vs Length



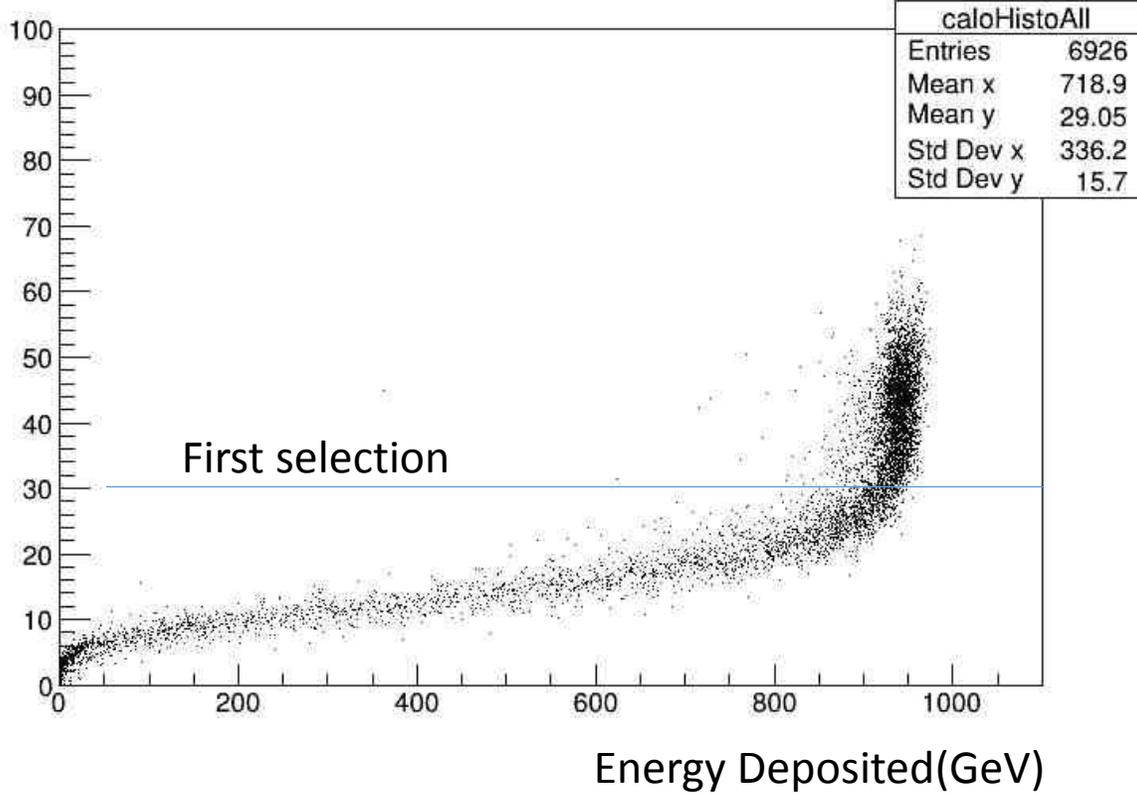
EdepTot vs ExactLysoLength



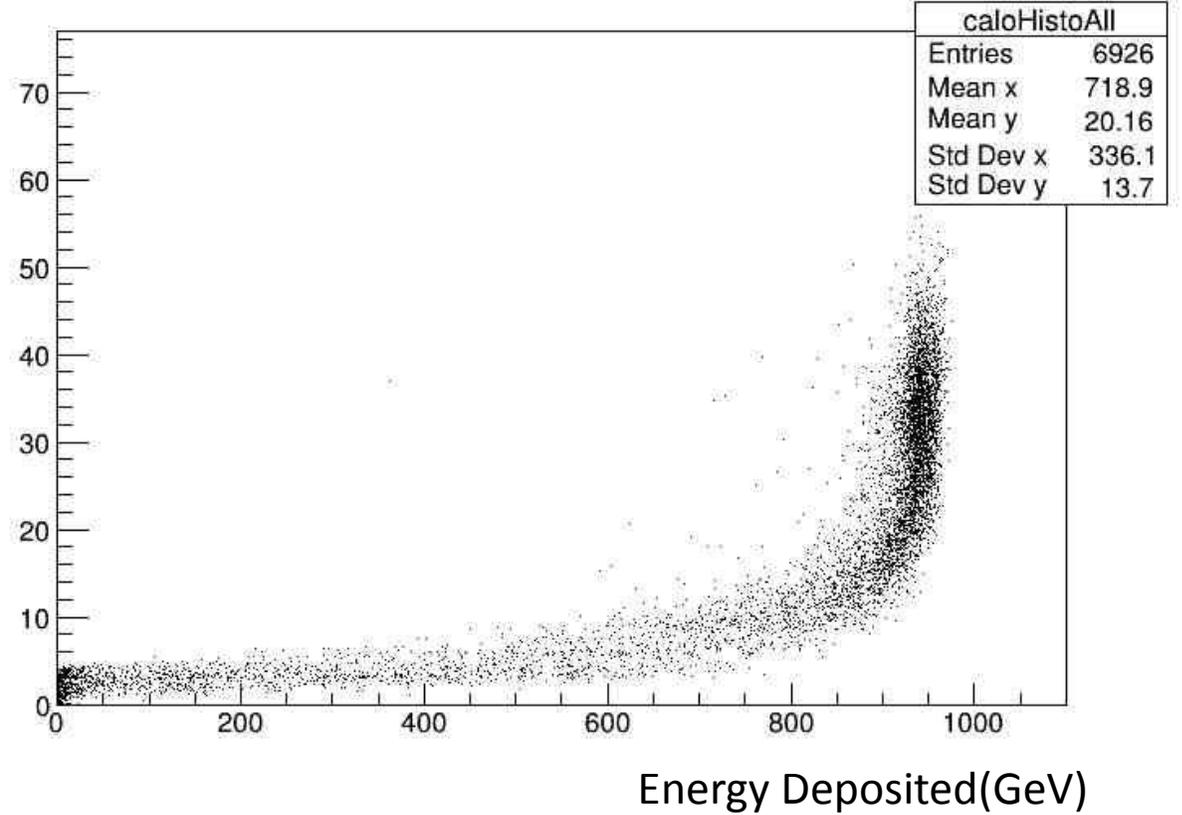
1 TeV Electrons Simulation - isotropic

ALL CUBES 1/1

EdepTot vs ExactLysoLength



EdepTot vs ExactLongiAfterMax

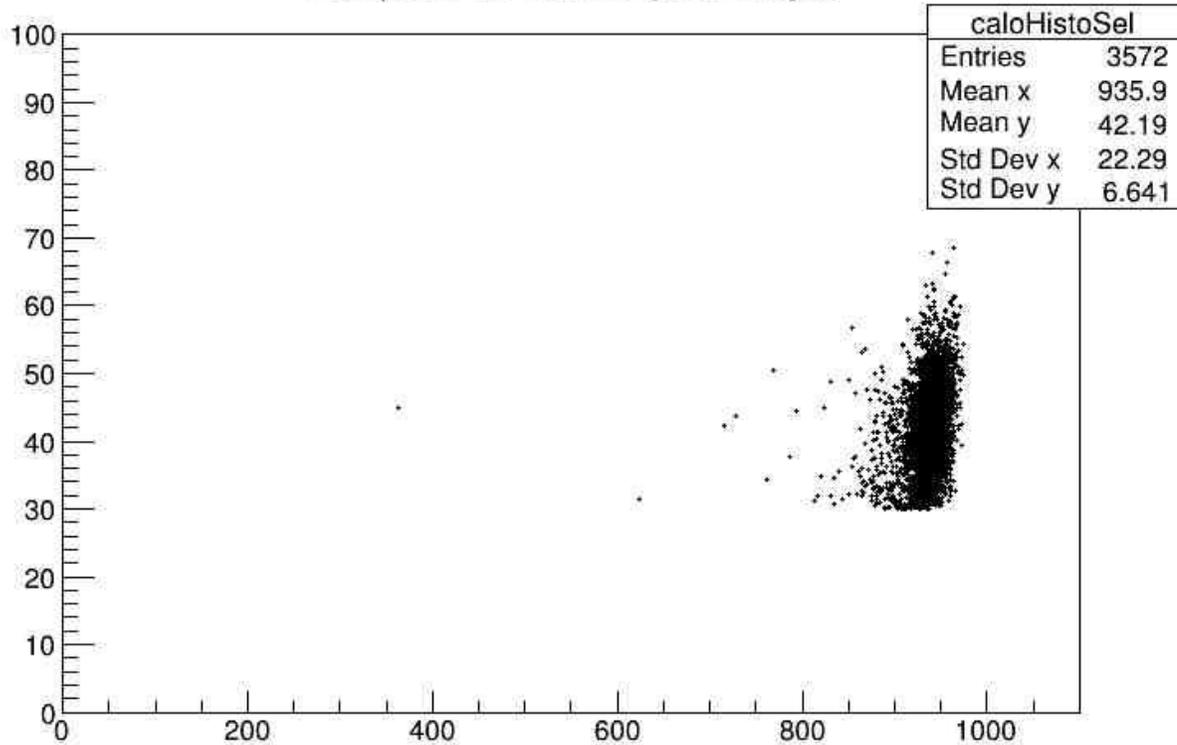


1 TeV Electrons Simulation - isotropic

ALL CUBES 1/1

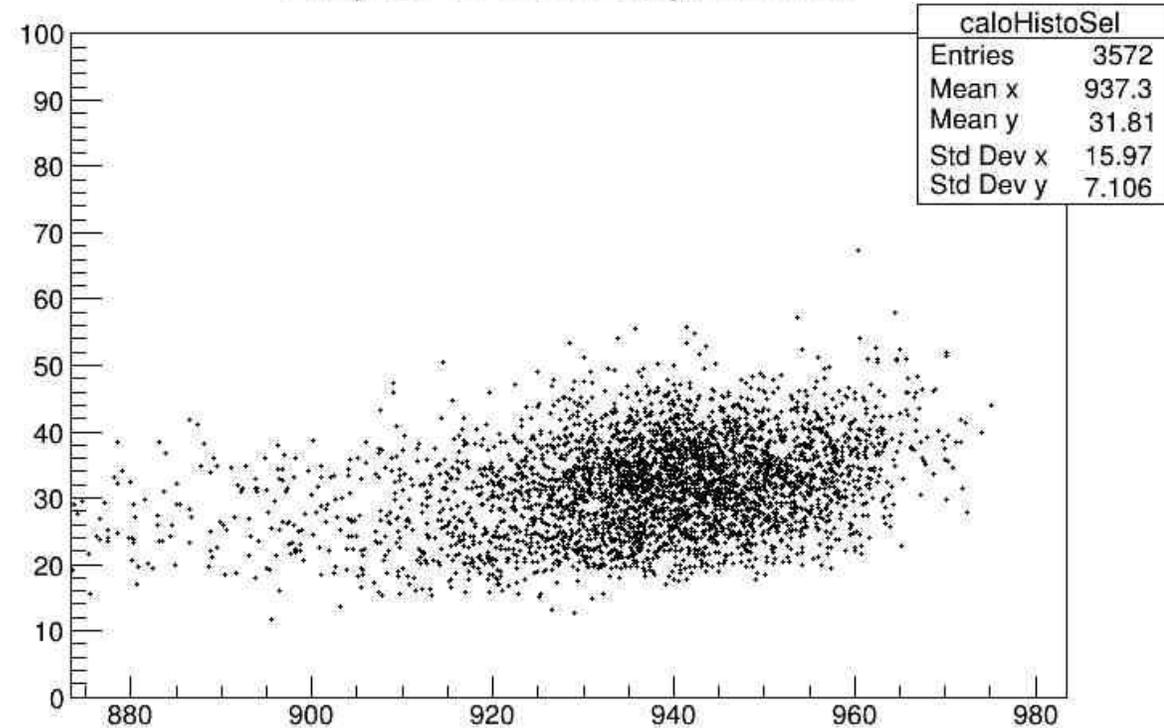
After first Selection

EdepTot vs ExactLysoLength



Energy Deposited(GeV)

EdepTot vs ExactLongiAfterMax



Energy Deposited(GeV)

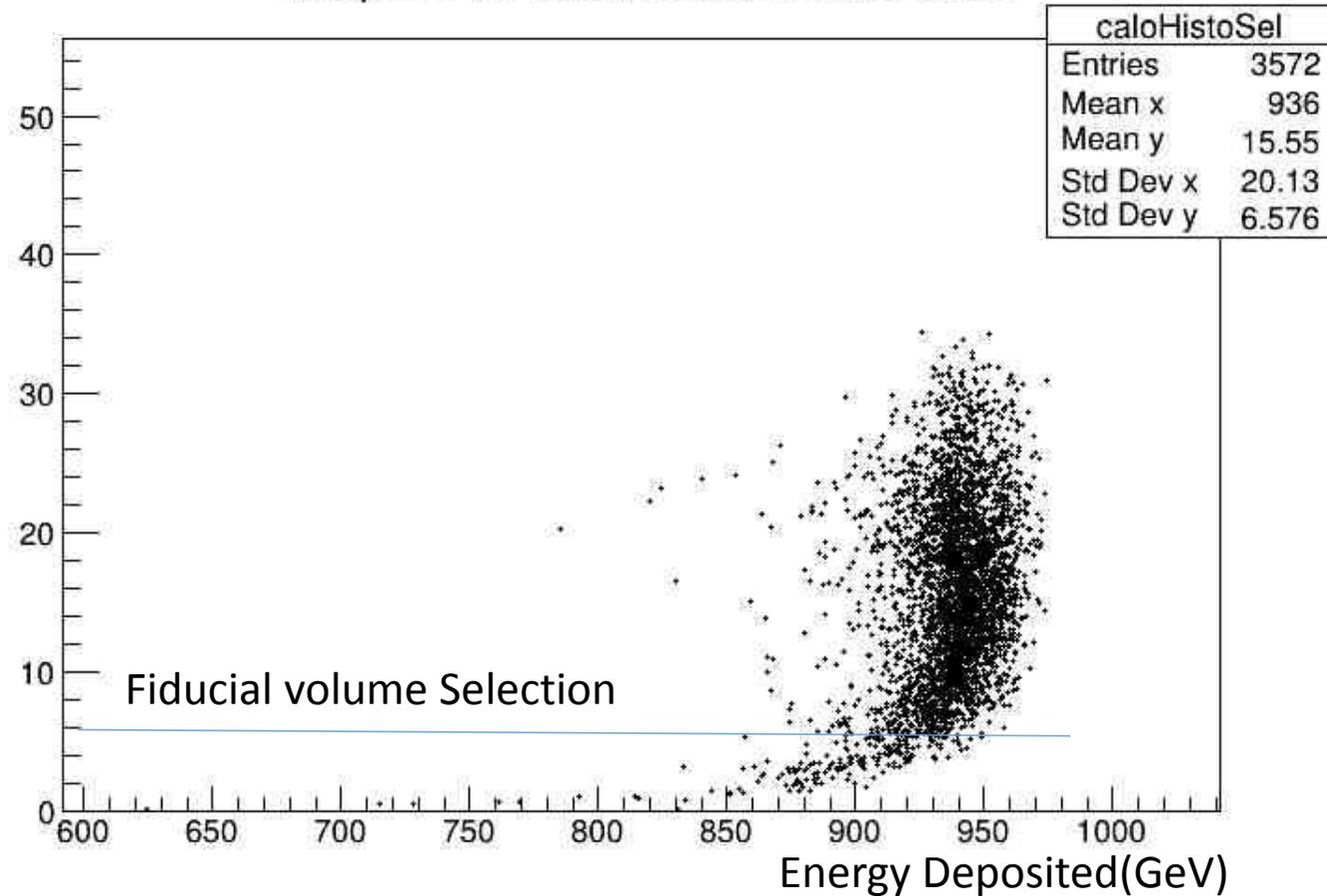
1 TeV Electrons Simulation - isotropic

ALL CUBES 1/1

After first Selection

3*3.4mm , after Max On Track

EdepTot vs DistWallMaxOnTrack3

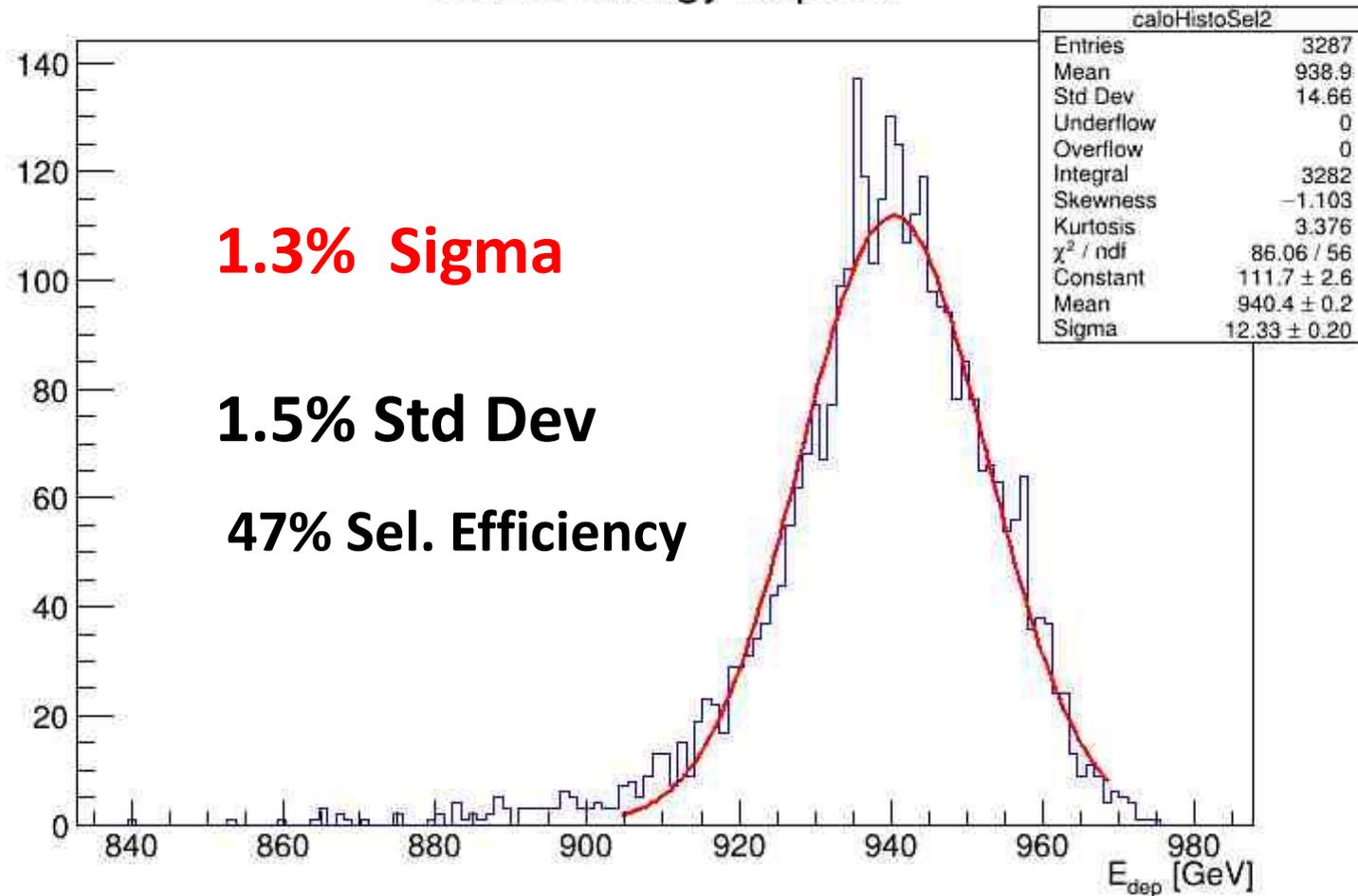


1 TeV Electrons Simulation - isotropic

ALL CUBES 1/1

After all selection

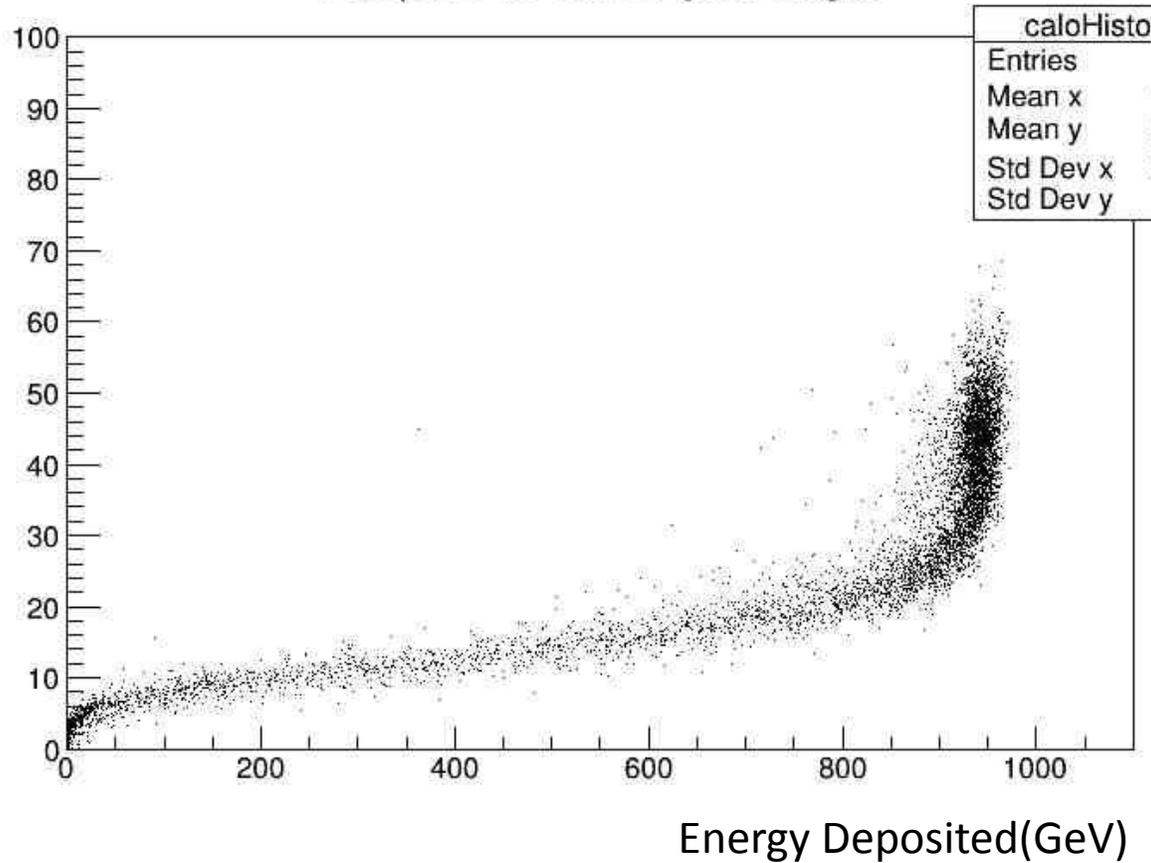
CALO energy deposit



1 TeV Electrons Simulation - isotropic

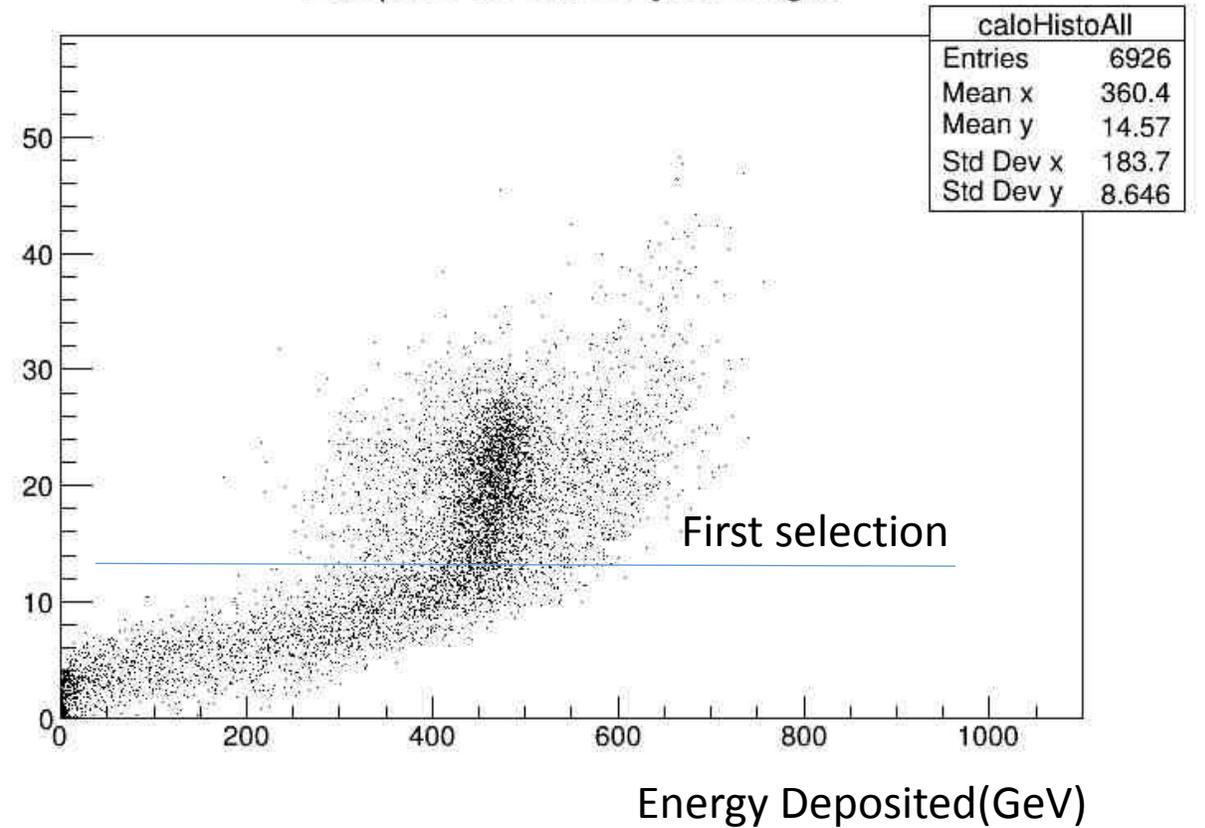
1/1

EdepTot vs ExactLysoLength



1/2

EdepTot vs ExactLysoLength

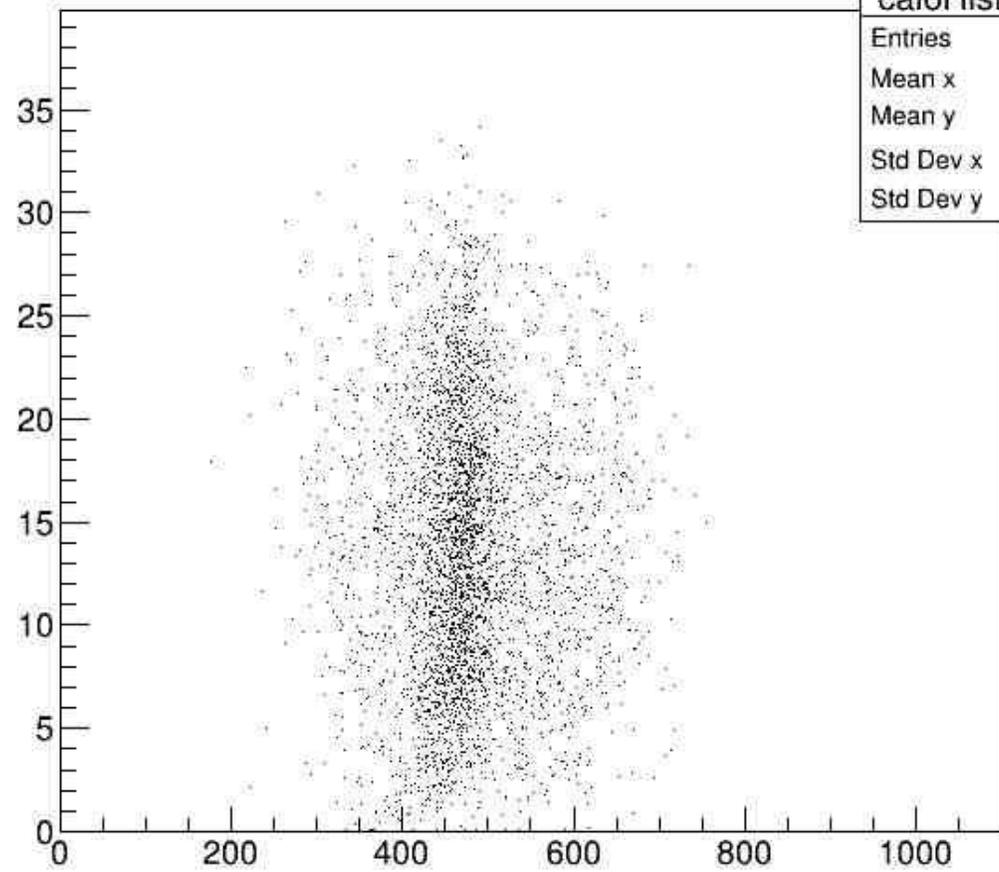


Read out 1/2

After first Selection

EdepTot vs DistWallMaxOnTrack2

caloHistoSel	
Entries	3933
Mean x	477.8
Mean y	13.78
Std Dev x	74.46
Std Dev y	6.547



Fiducial volume Variable

Energy Deposited(GeV)

1 TeV Electrons Simulation - isotropic

read out 1/2

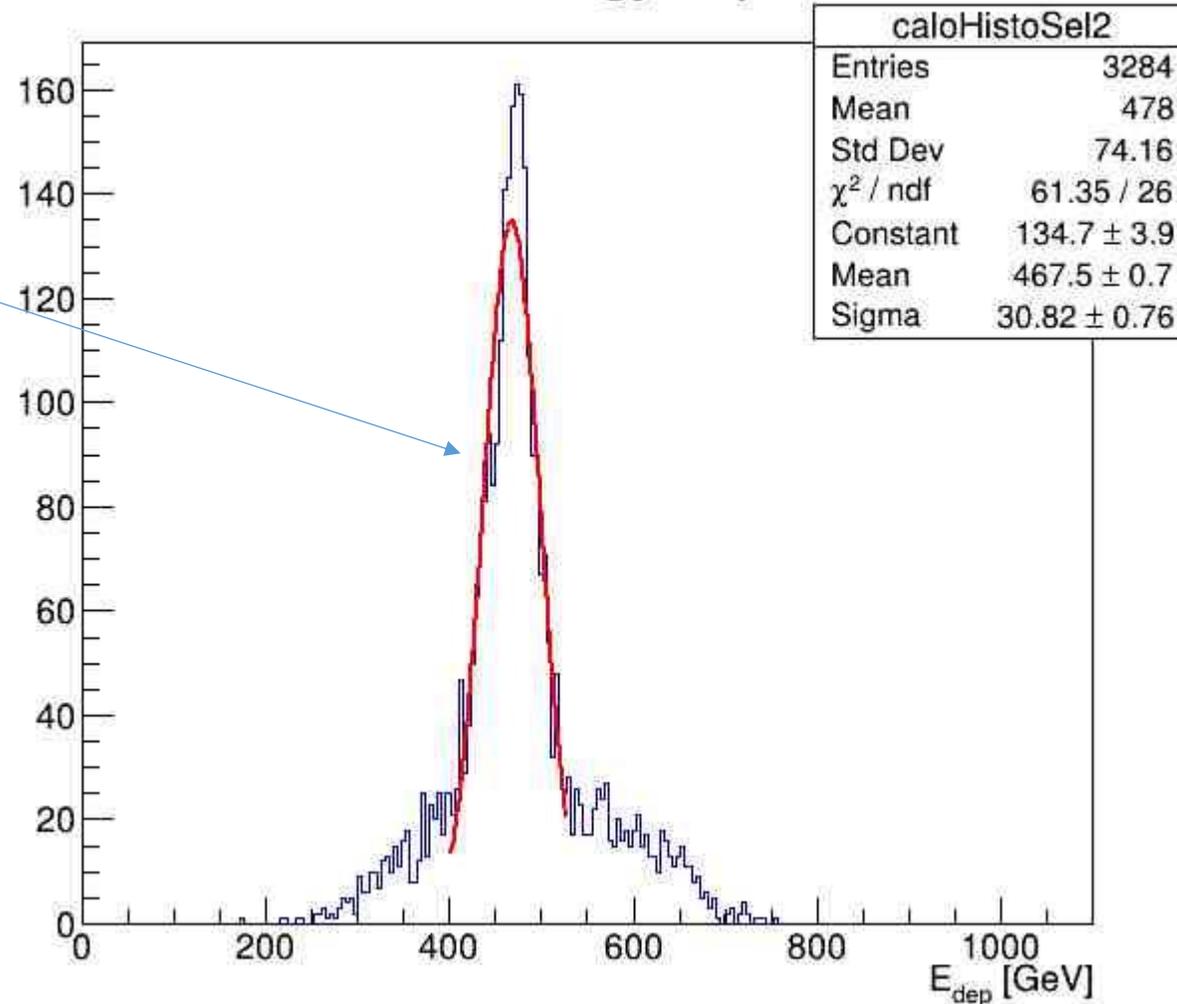
CALO energy deposit

resolution

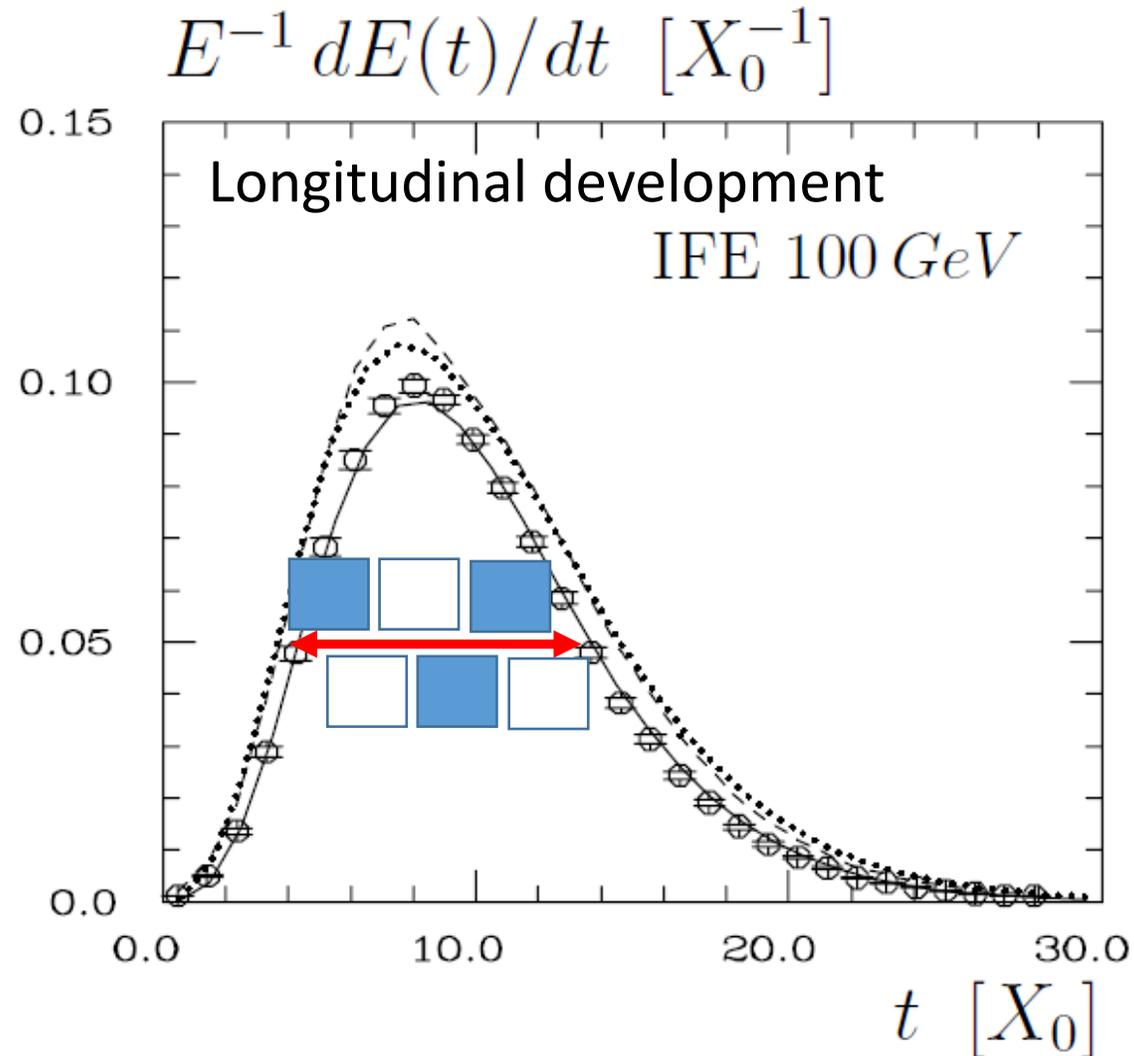
7 % Sigma

15% Std Dev

47% Sel. Efficiency



1 CUBE $\approx 2,5 X_0$; 1.5 Moliere radius



3D SHOWER FIT ?

Resolution % ??

Systematic errors (E)

+ lateral sampling fluctuations **1.5 Moliere radius**