

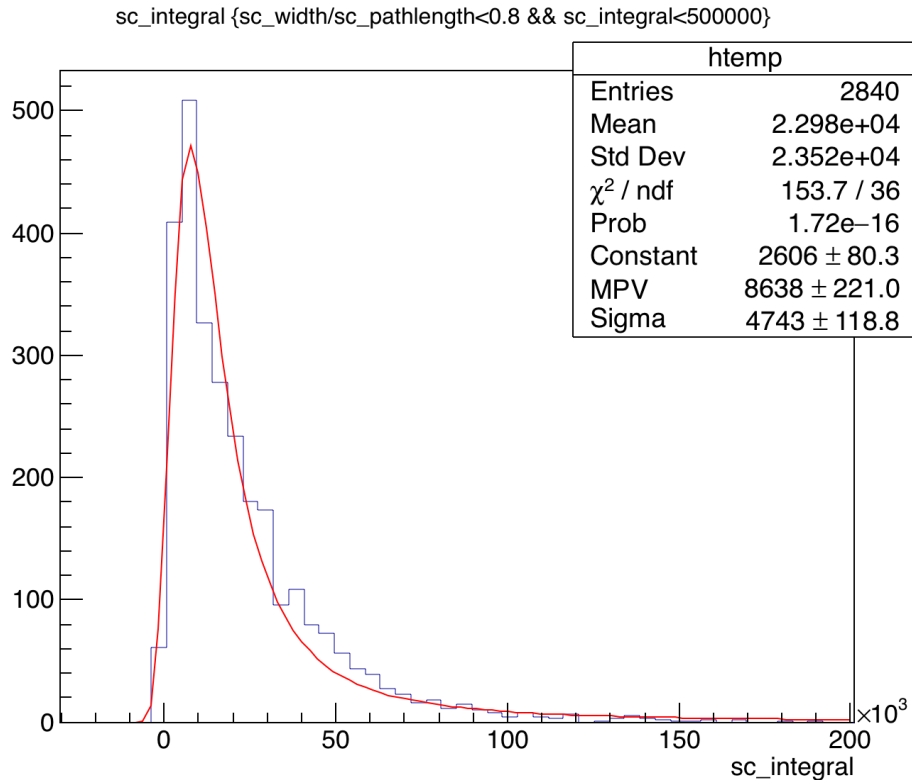
# the Iron Source



First look at the MANGO  
data with  $^{133}\text{Ba}$  and  $^{55}\text{Fe}$

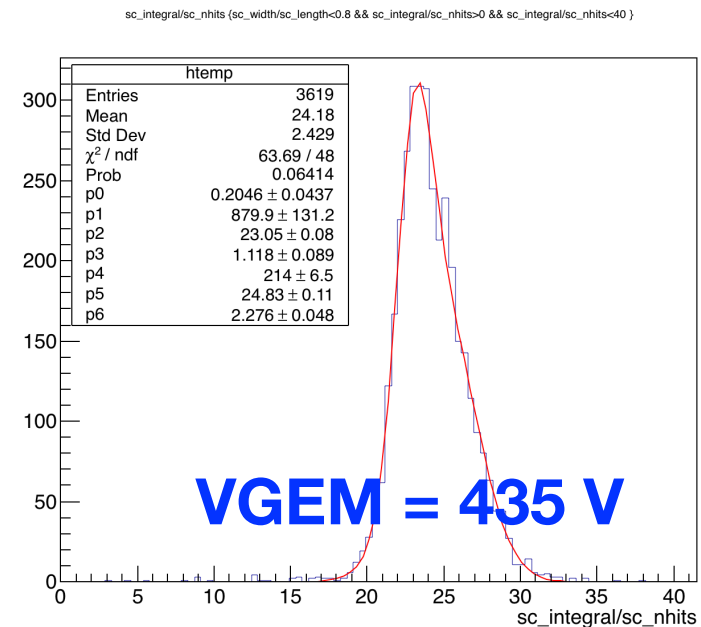
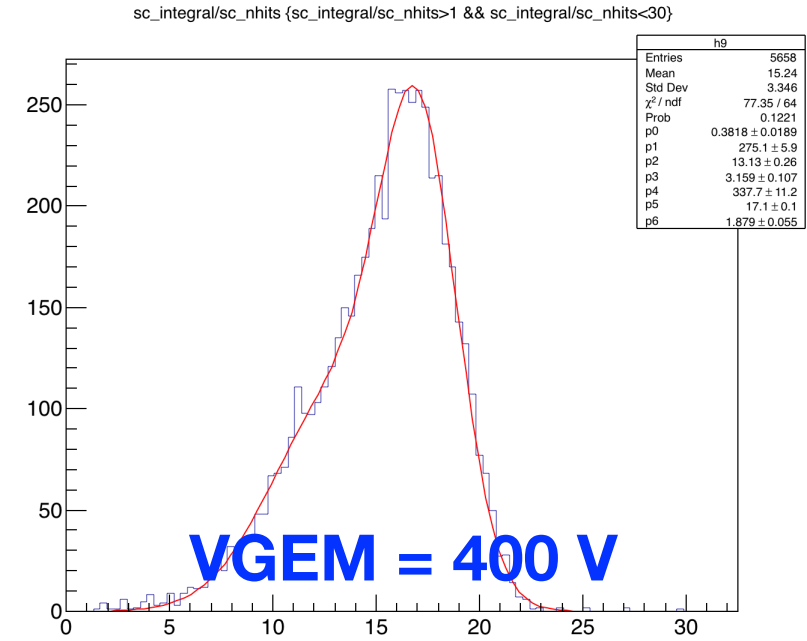
# Ba133 delta

## Ba133 energy spectrum



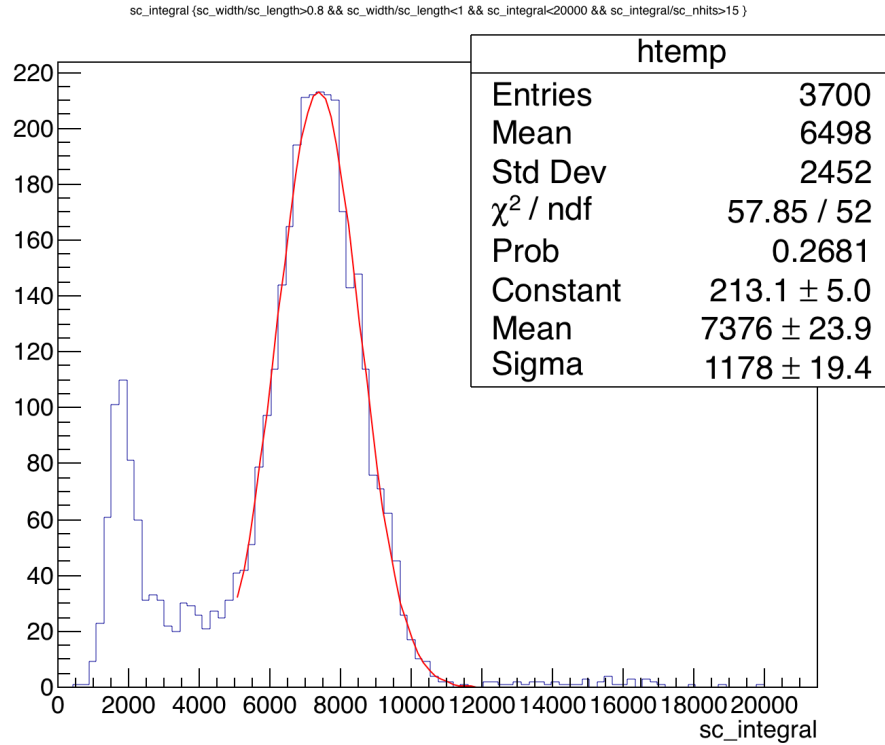
**slimness<0.8**

**Ba133 energy spectrum simulated by Andre on geant4 show similar shape with peak at 6.00 keV**



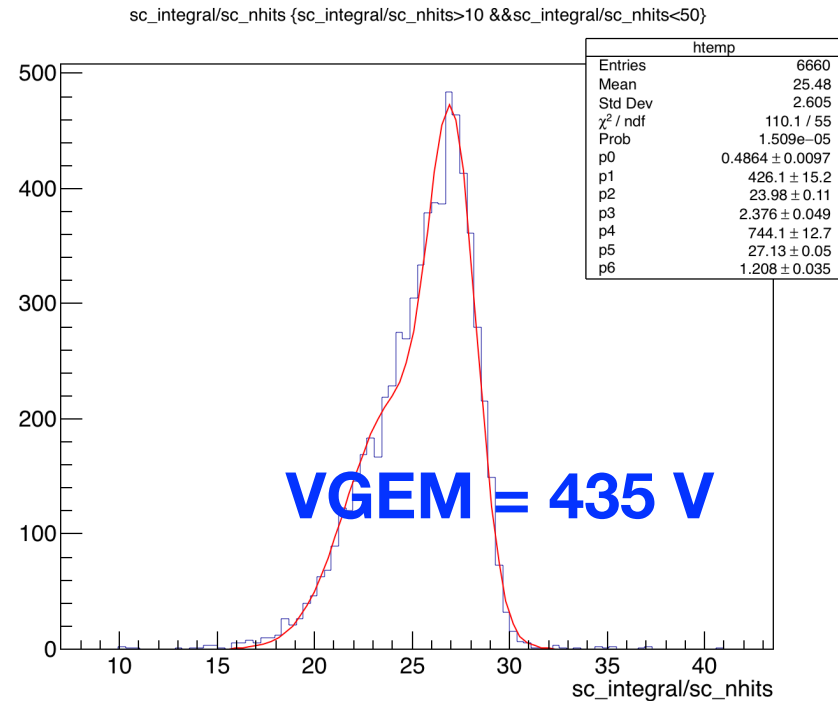
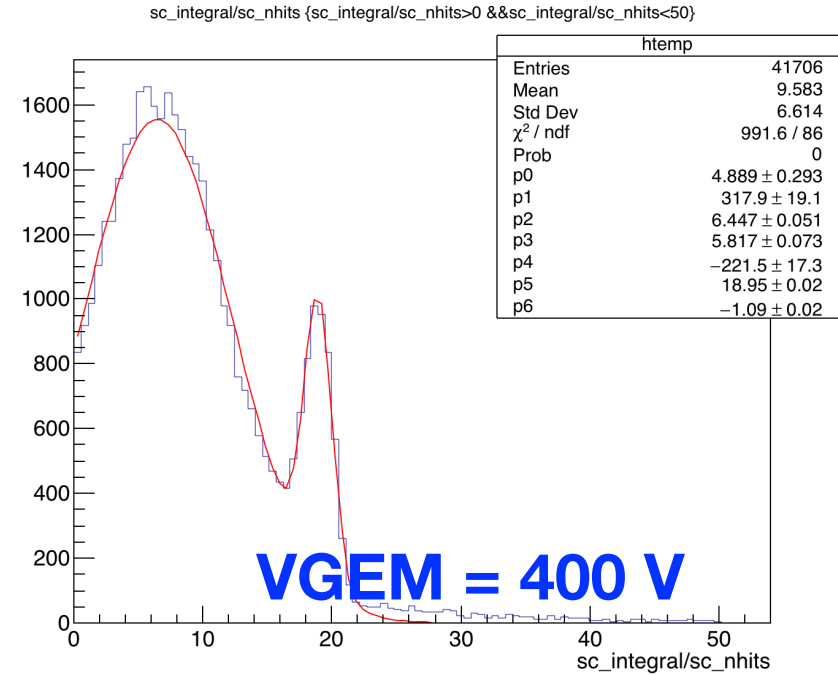
# Fe55 delta

## Fe55 energy spectrum

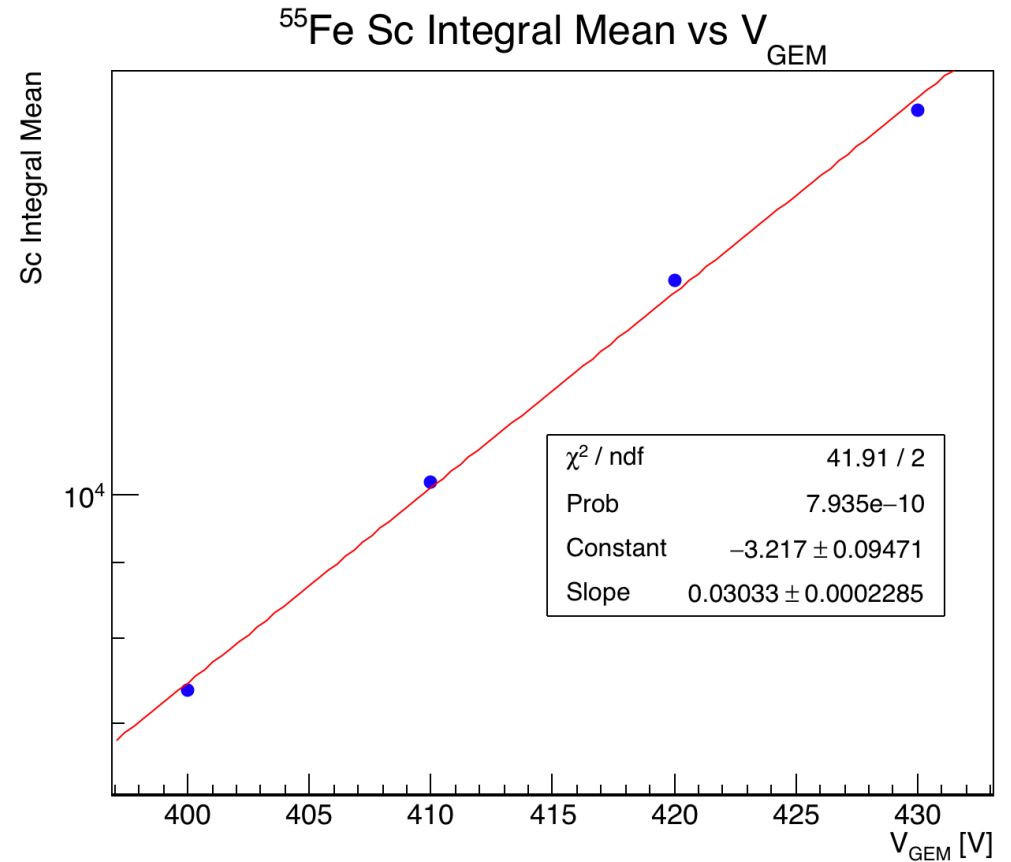
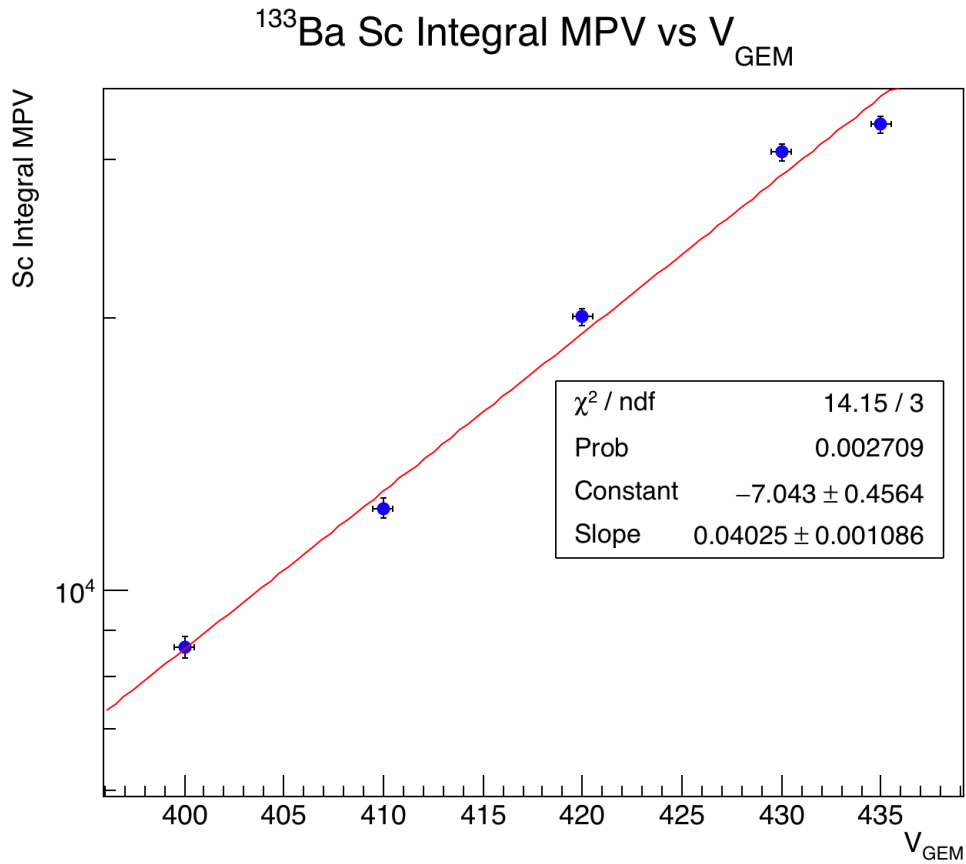


**VGEM = 400 V**

**slimness>0.8 &&  
delta > delta\_mean - 3\*delta\_sigma**

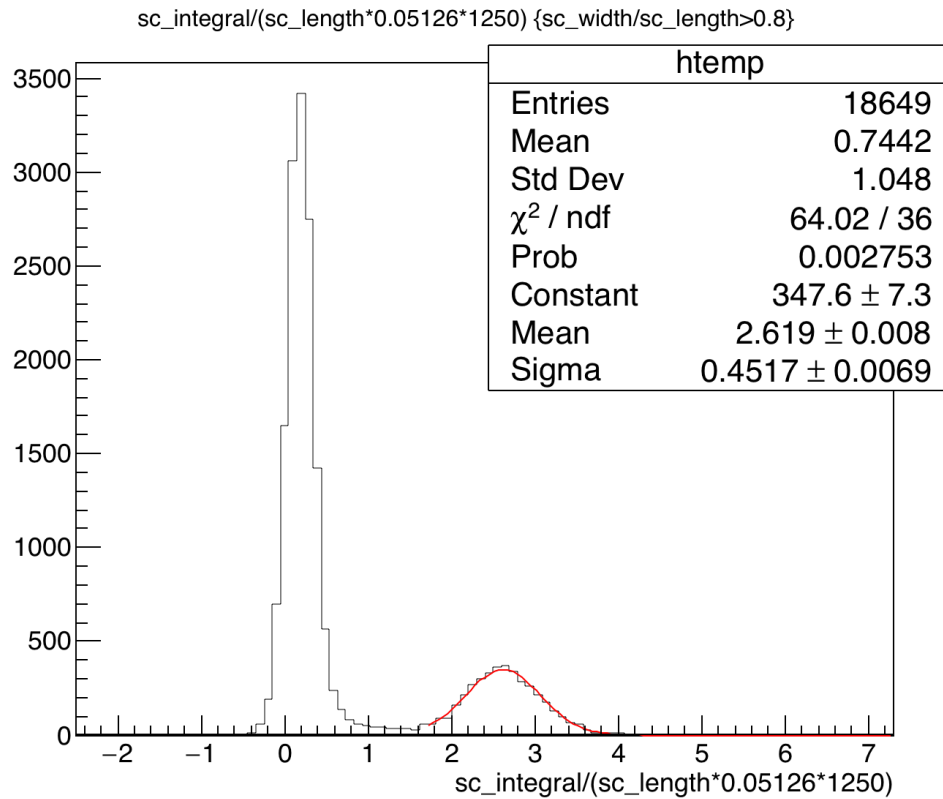


shape slightly different (but 435 V yet to be added to Fe55)

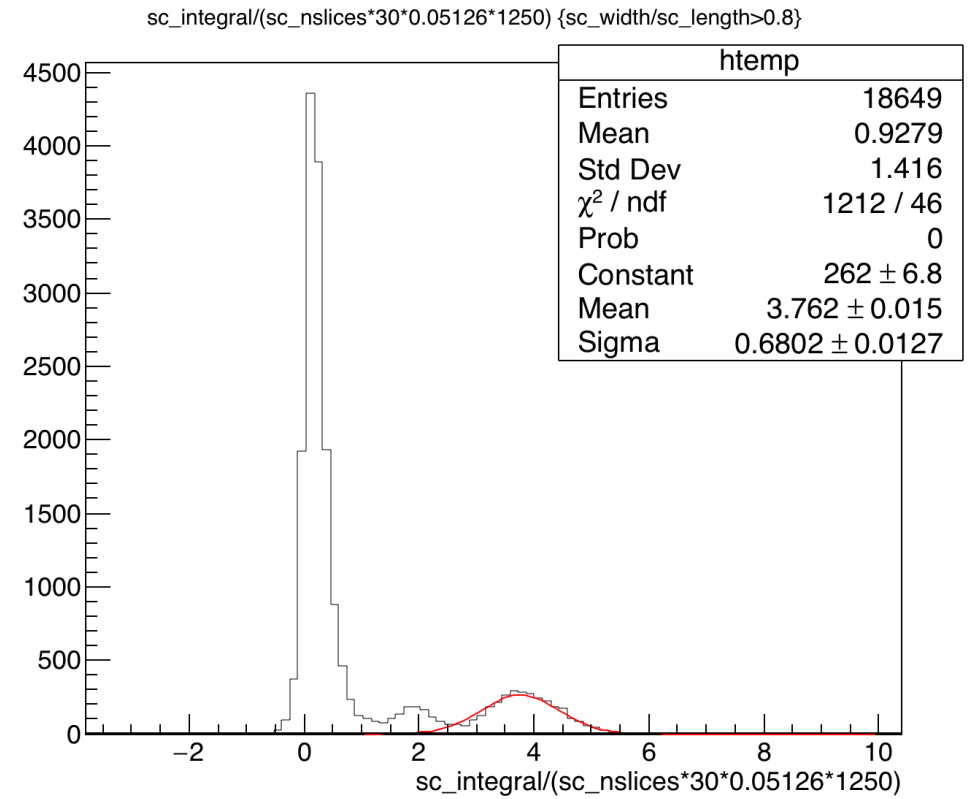


**400 V**      **1.25 #/keV**  
**410 V**      **1.73 #/keV**  
**420 V**      **2.37 #/keV**  
**430 V**      **3.08 #/keV**

# issues/questions: which pathlength for dE/dx?



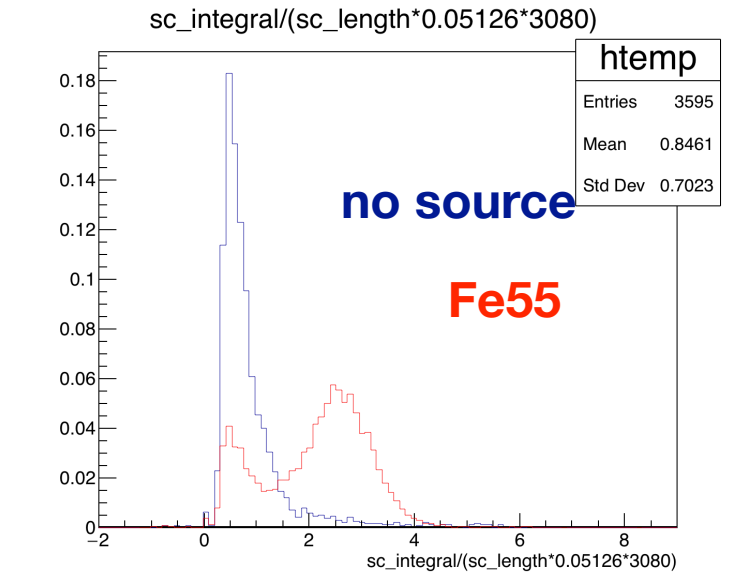
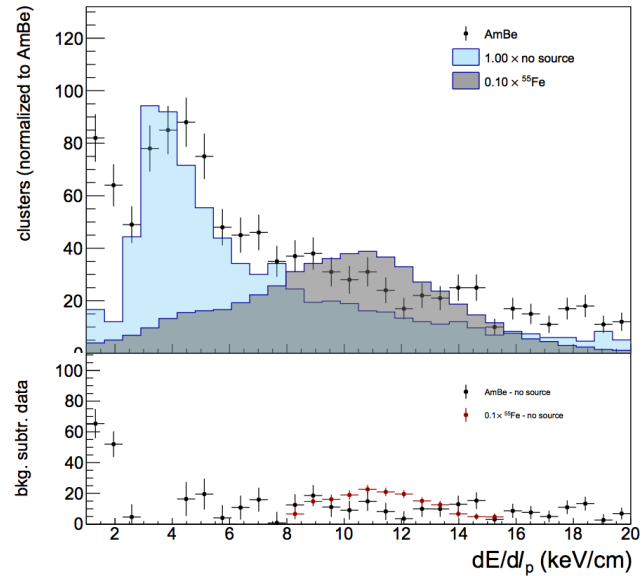
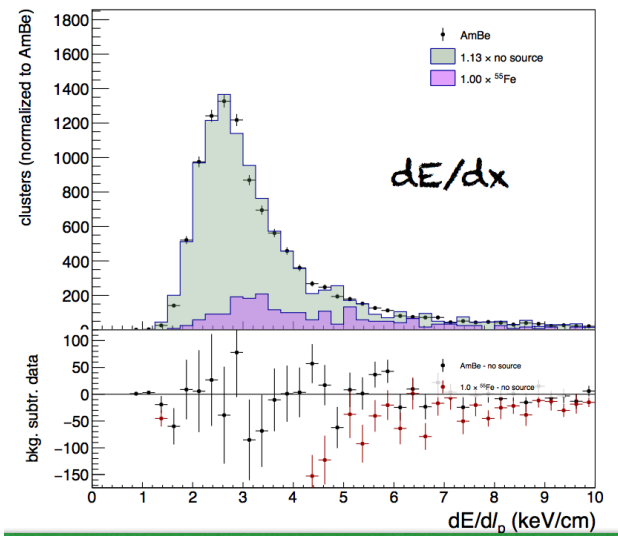
with sc\_lenght



with n\_slices\*30

maybe n\_slices\*2\*30?

# Why Fe55 delta is different between LIME and LEMON? which is the correct?



maybe is an effect of the effective pixel dimension?

the smaller the pixels, the more concentrated the light in Fe55 and therefore different delta?