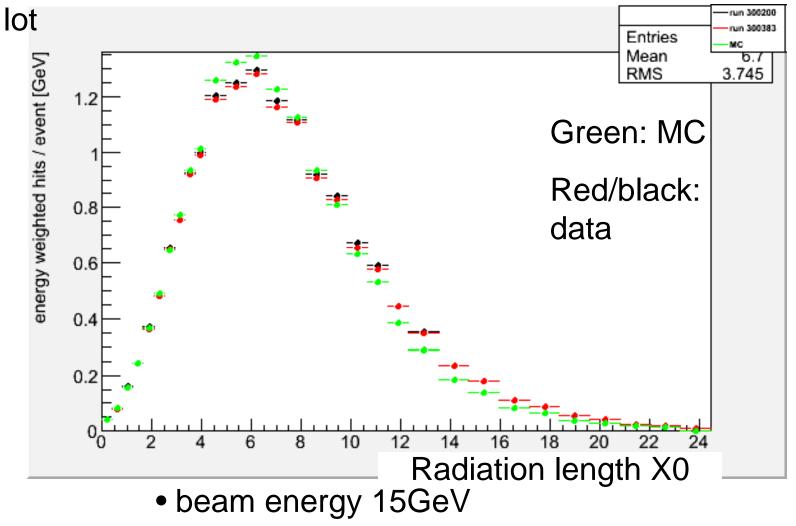
# Longitudinal shower profile update

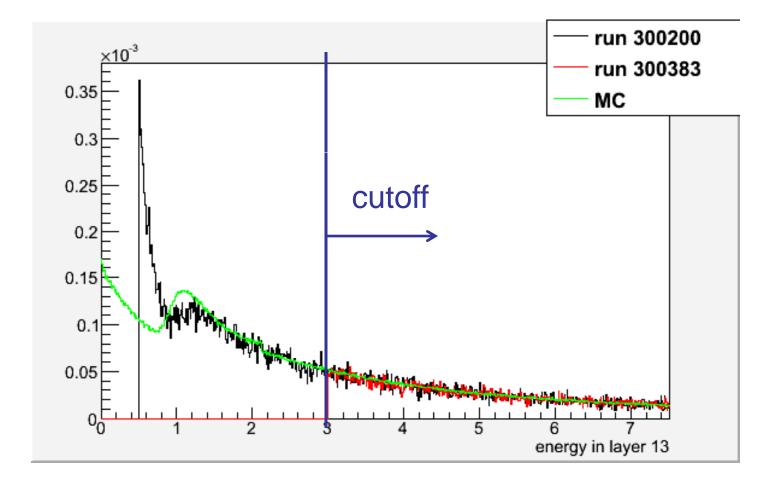
Valeria

# MC and data comparison

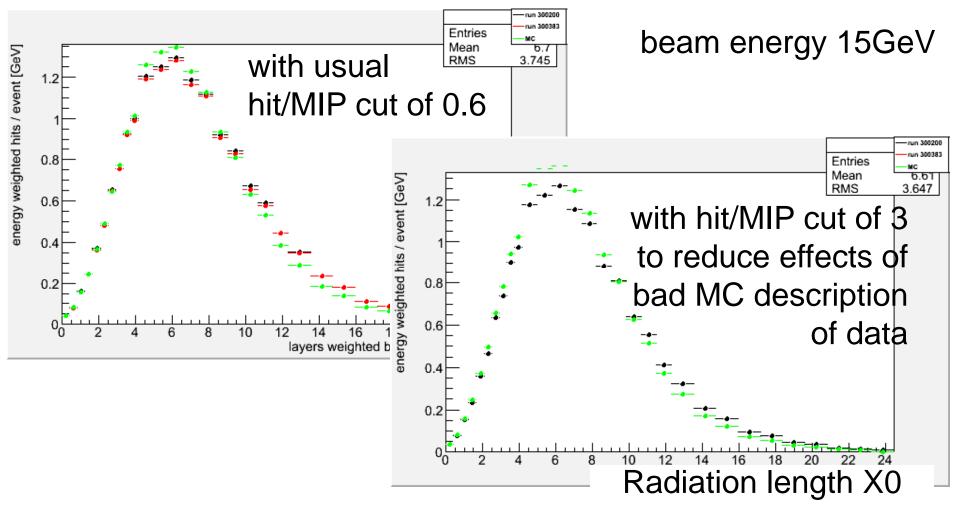
found a bug which helps the MC and data comparison a



### Change of energy/MIP cut



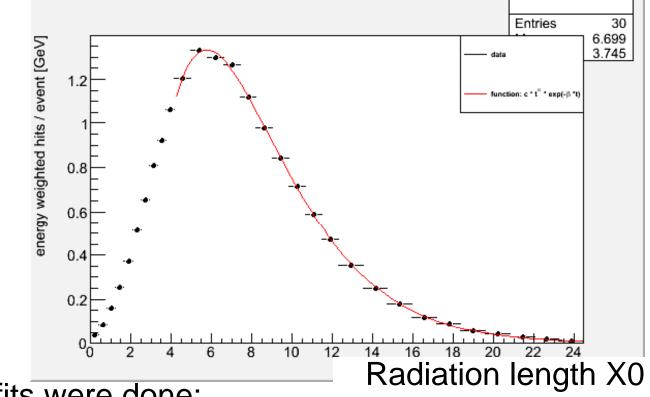
#### MC and data comparison



=> hit/MIP cut of 3 even worsen MC description of long. shower

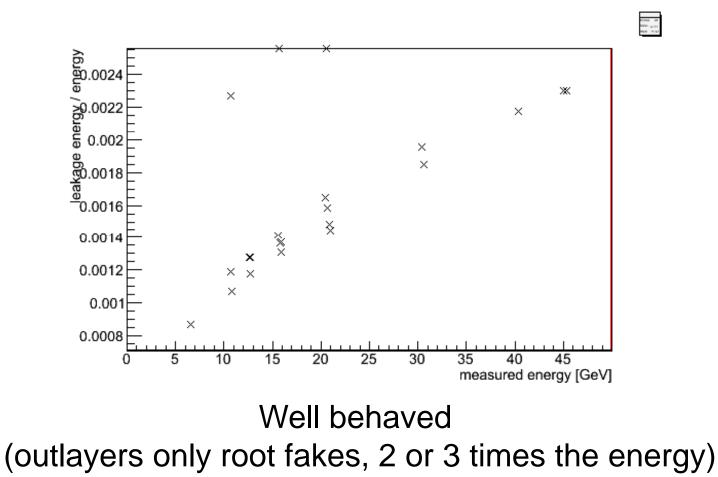
# Fit to data

Shift calculated from fit to data and MC: Const \* (x-shift)^alpha \* exp(-beta(x-shift))

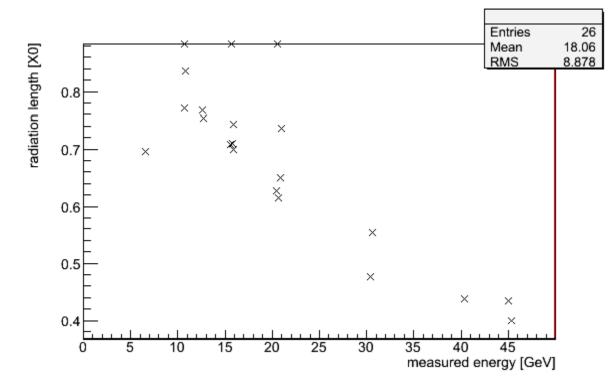


- 3 fits were done:
- •1 to fit all layers for X0 in front of calo,
- •1 to fit the leakage energy correctly (shown above),
- •1 for the first layers

#### Leakage Energy



### Open problem: X0 in front of calo



=> Still an issue