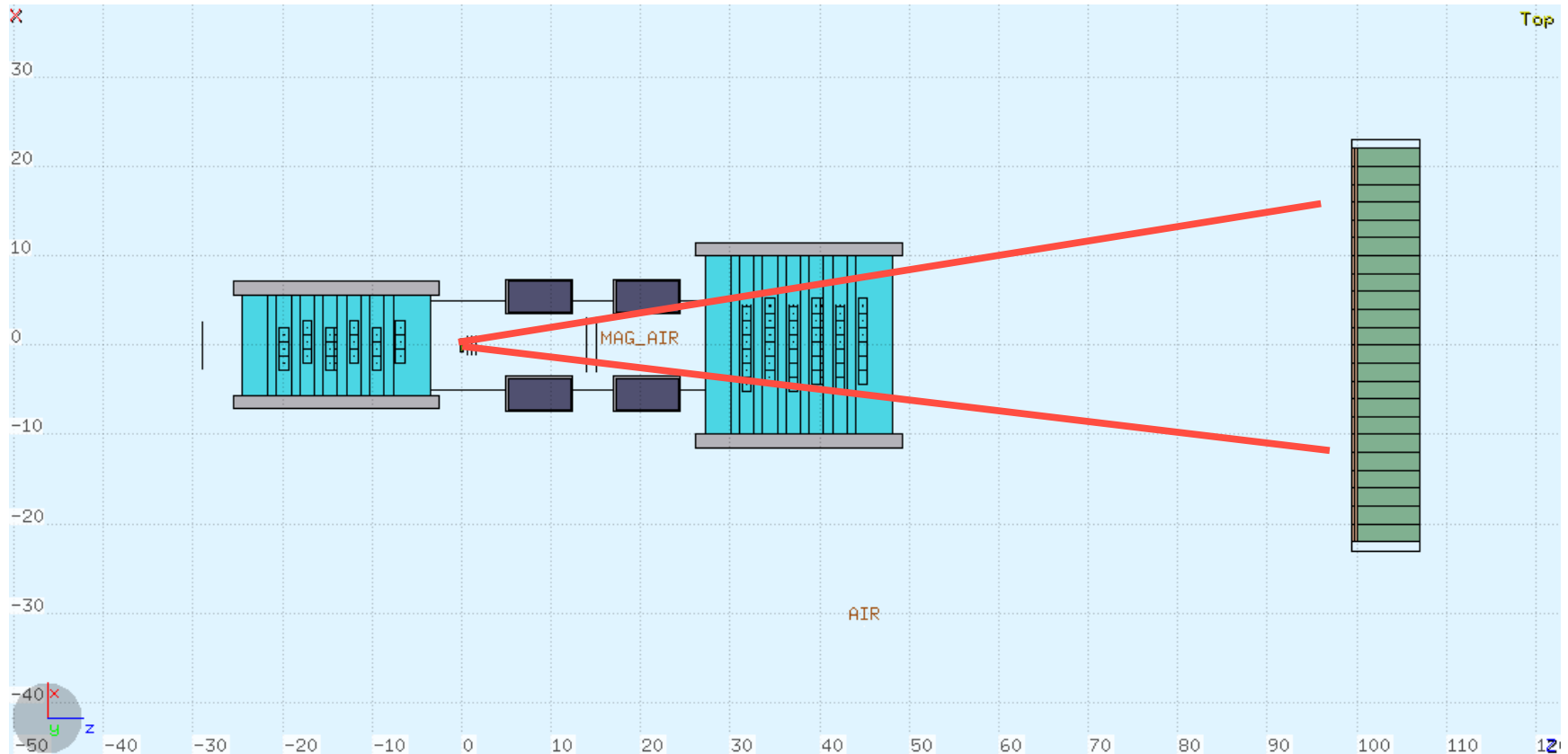


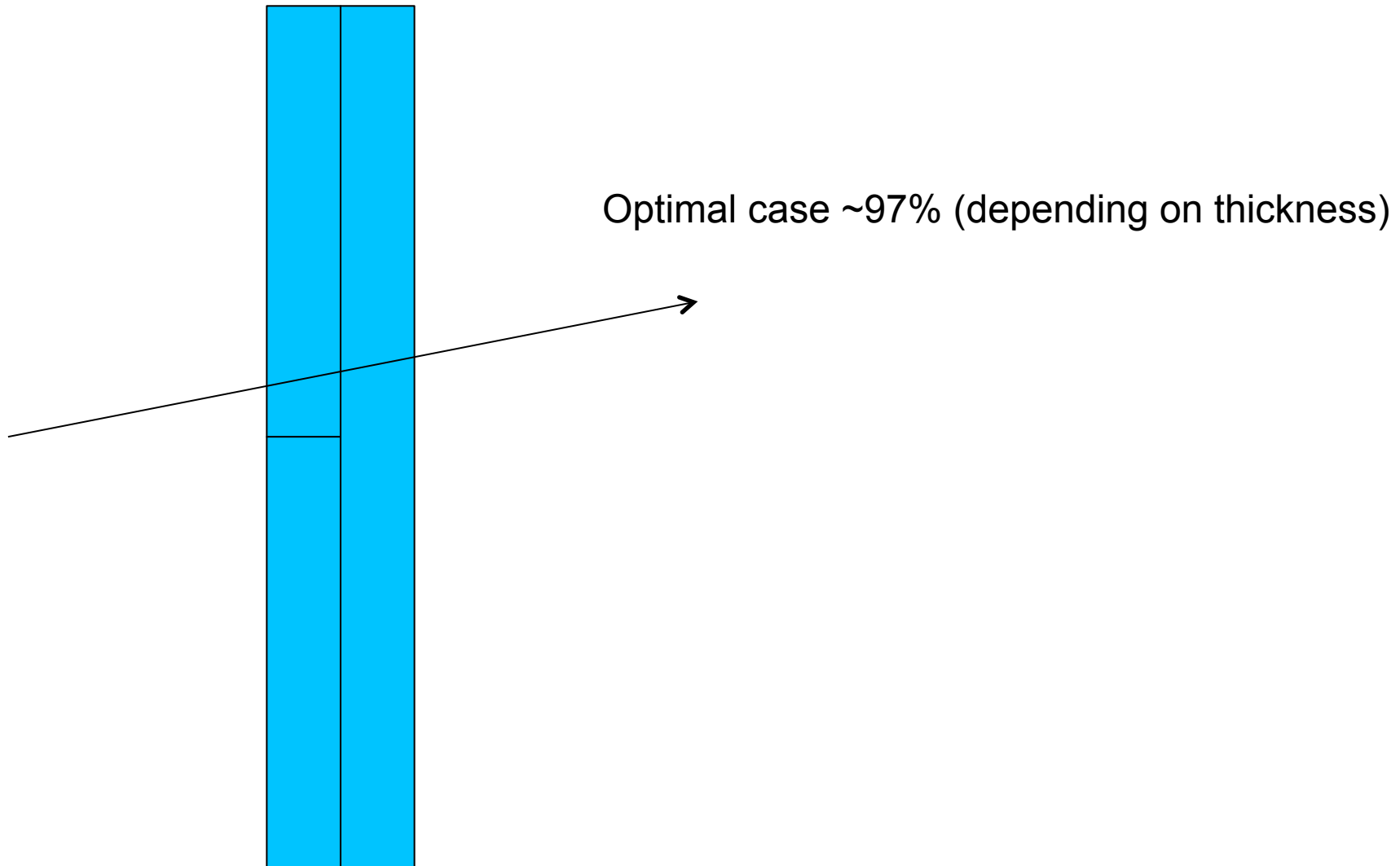
Simulation



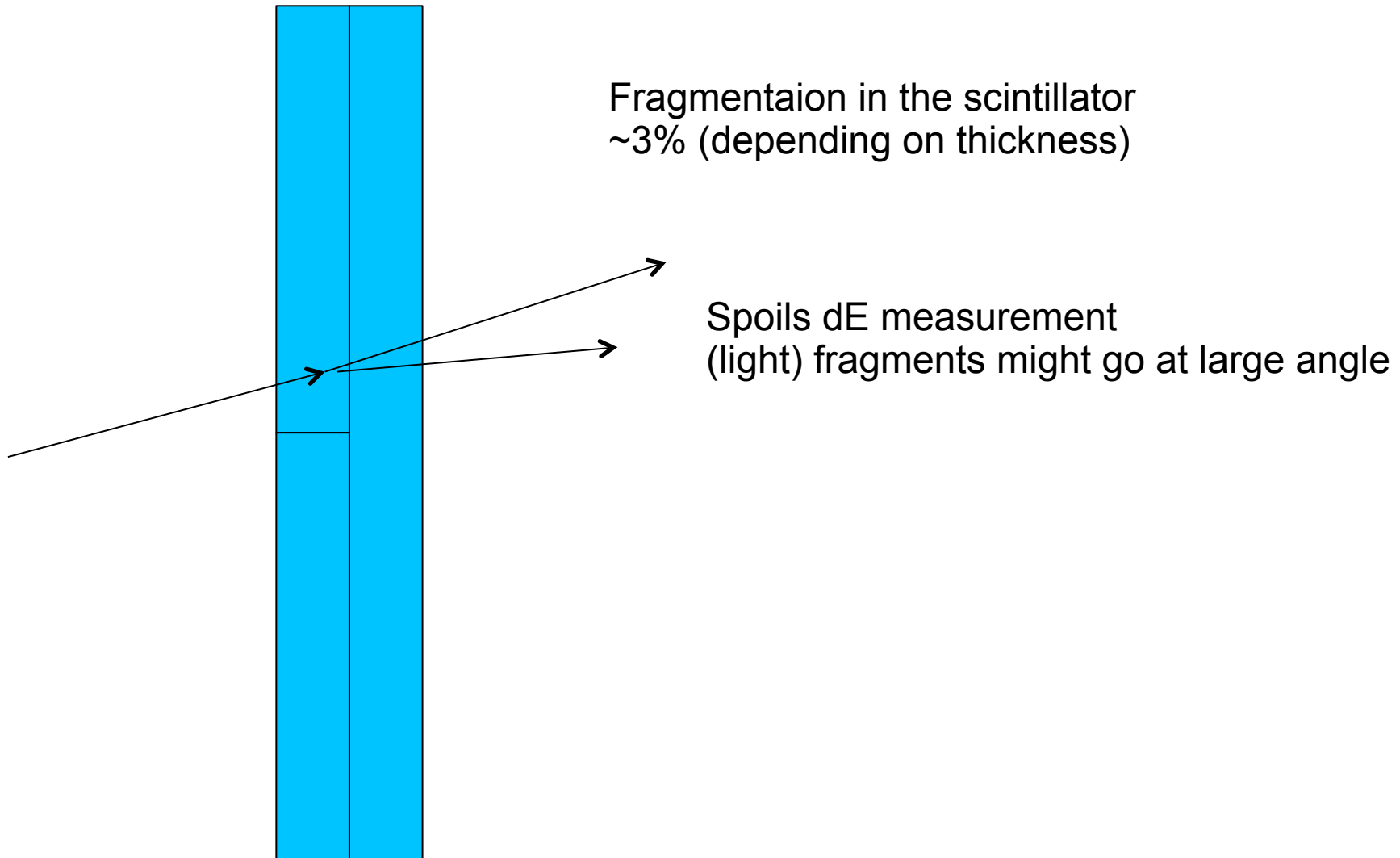
A cone of “fragment” (Li, Be, B, C, N) at 200MeV/n emitted from the target (10k events)

Scintillator: 2 layer (X and Y) of plastic bars (2*22*0.3 cm³)

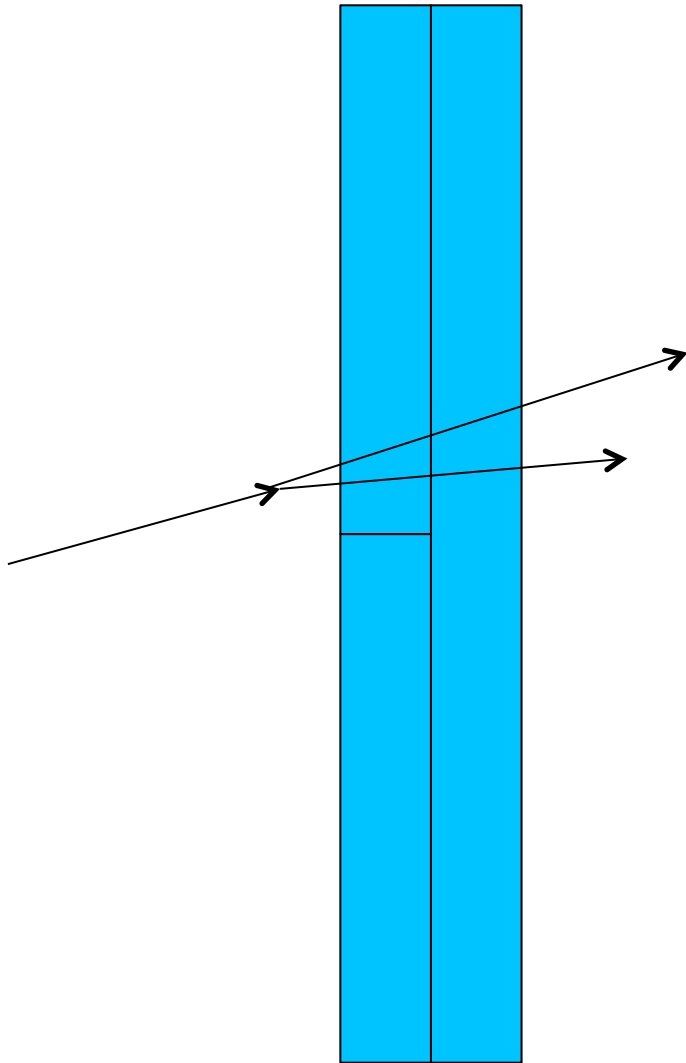
What happens in the scintillator (and around it) - 1



What happens in the scintillator (and around it) - 2



What happens in the scintillator (and around it) - 3

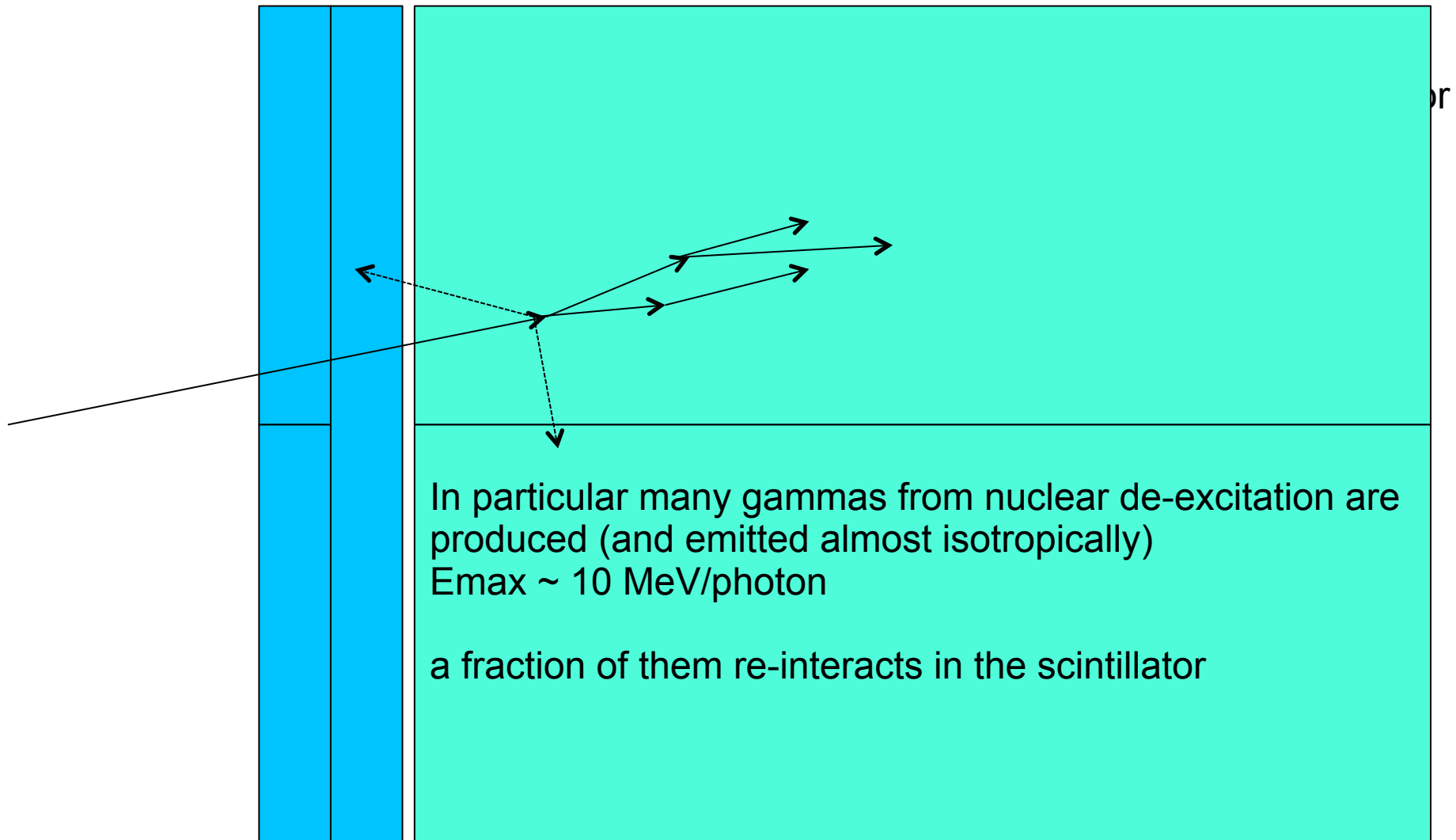


Fragmentation in air before arriving to the scintillator

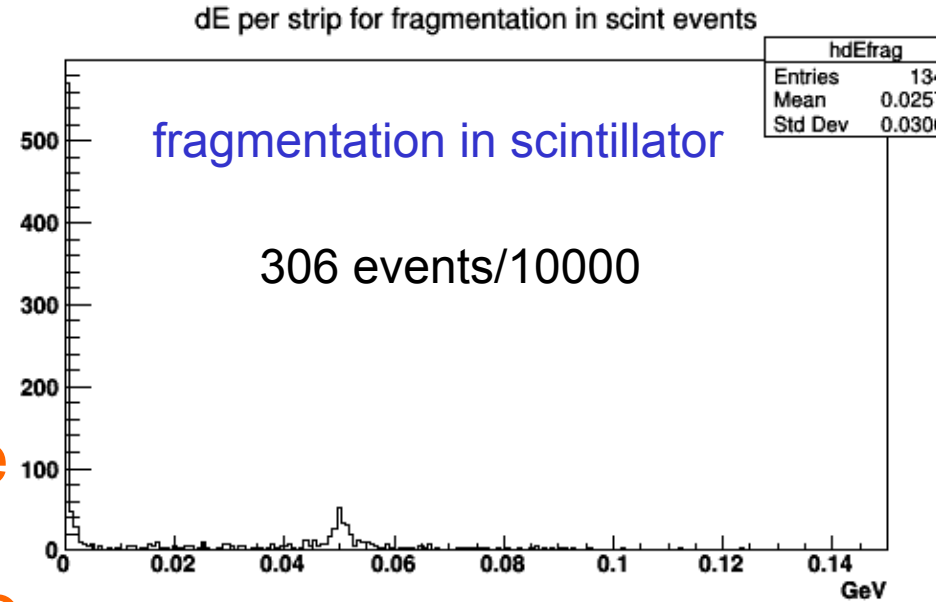
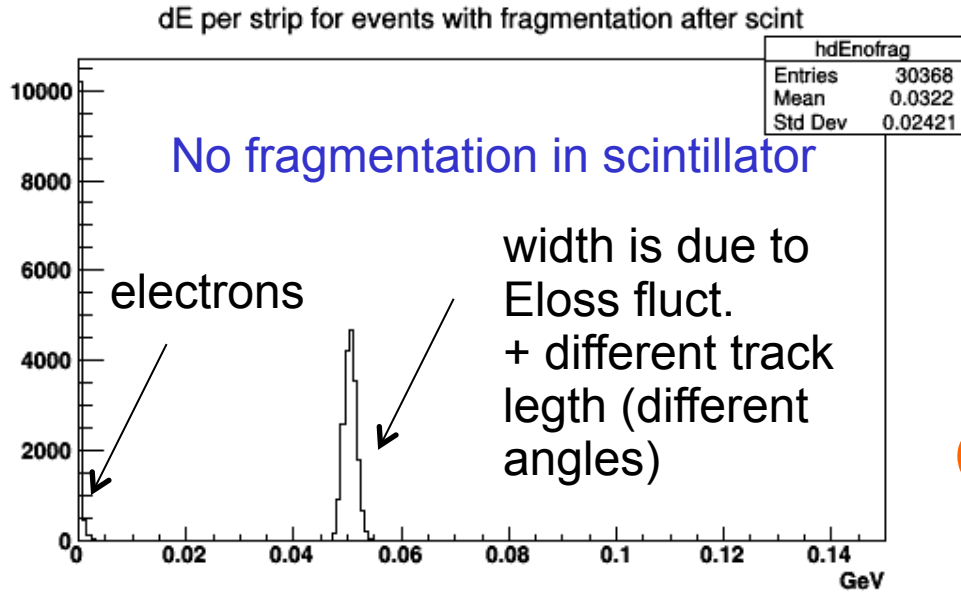
In some cases we should be able to manage this (compatibility with p, tof, Ecalo...)

What happens in the scintillator (and around it) - 4

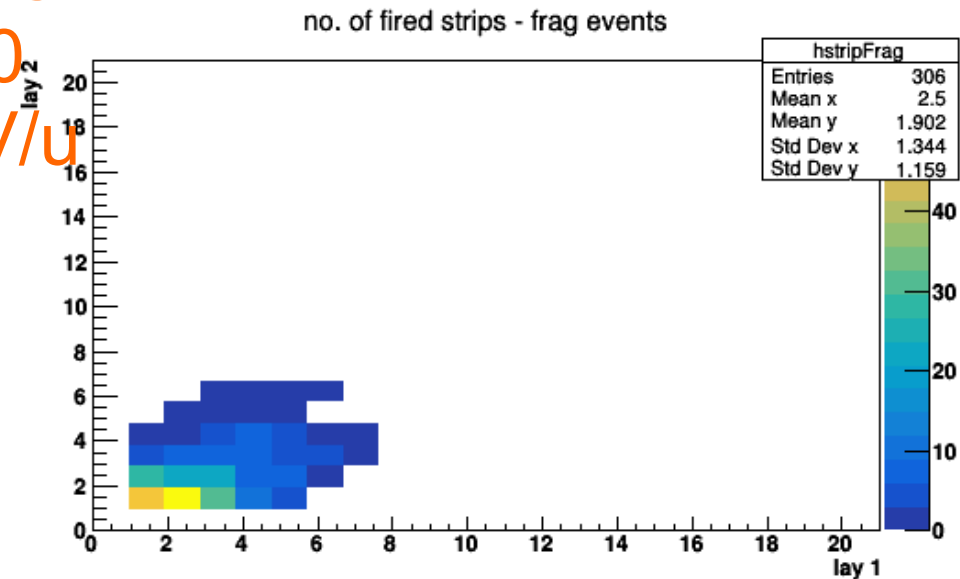
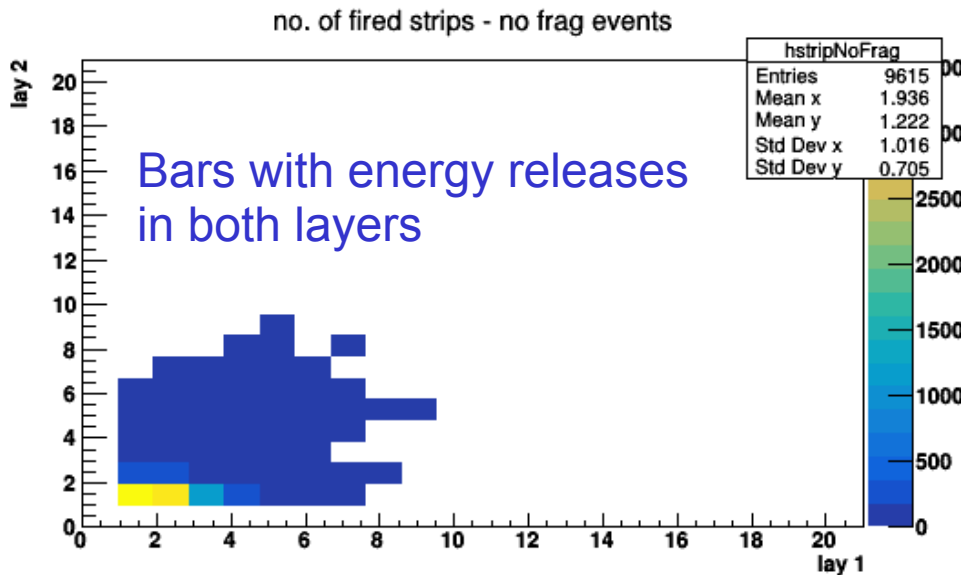
Backsplash from the calorimeter



Fragmentation in the scintillator bars

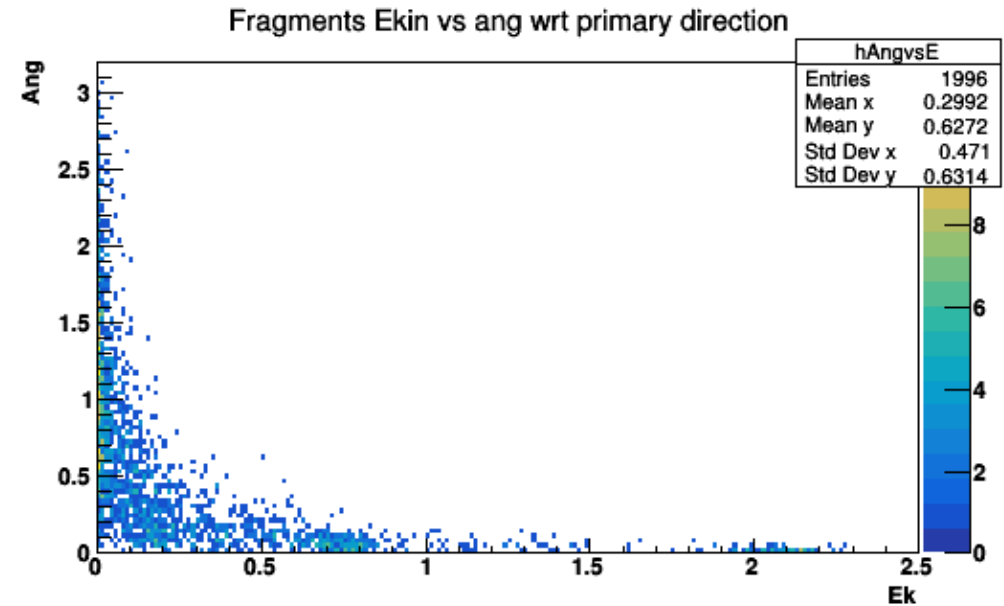
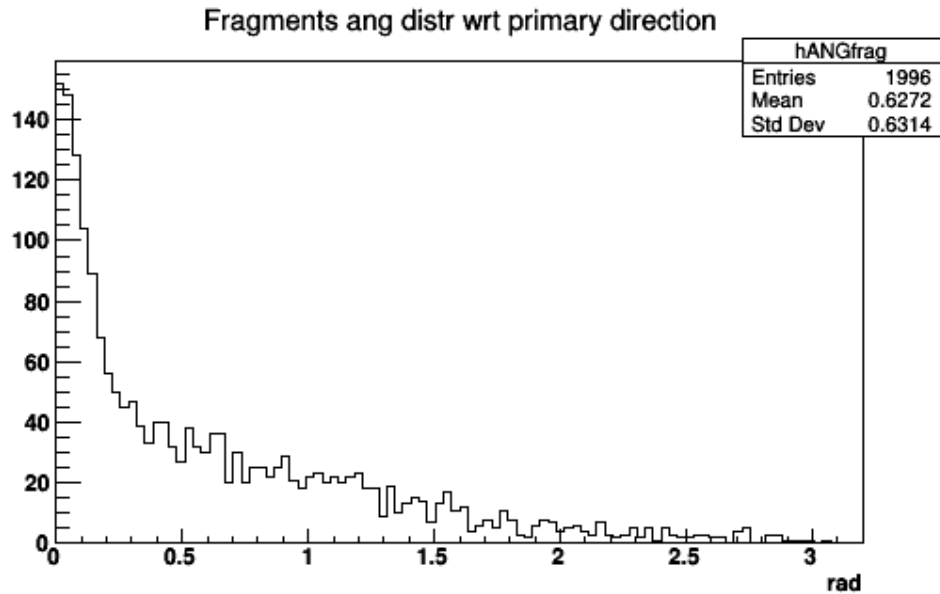


Case of a12C 200 MeV/u

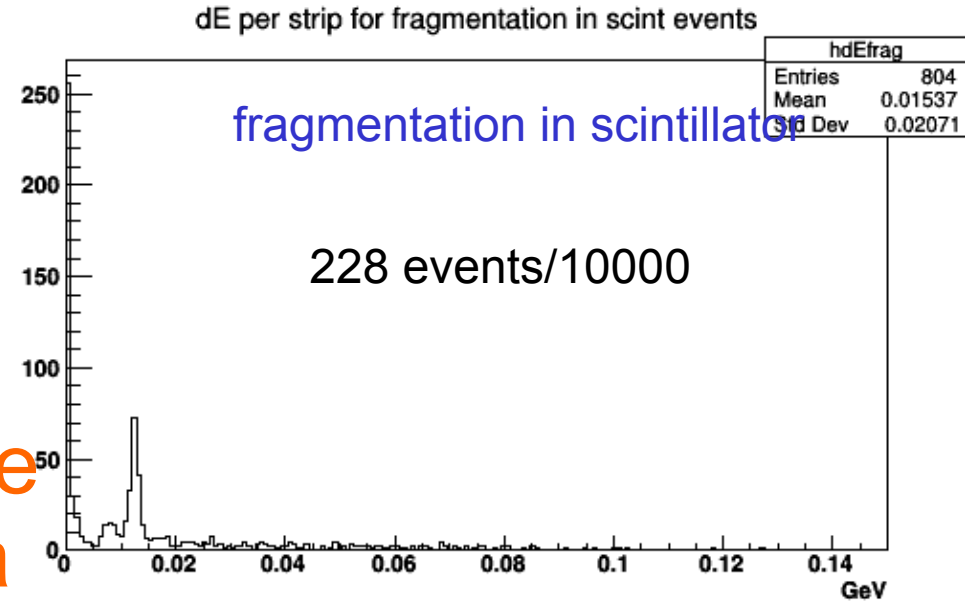
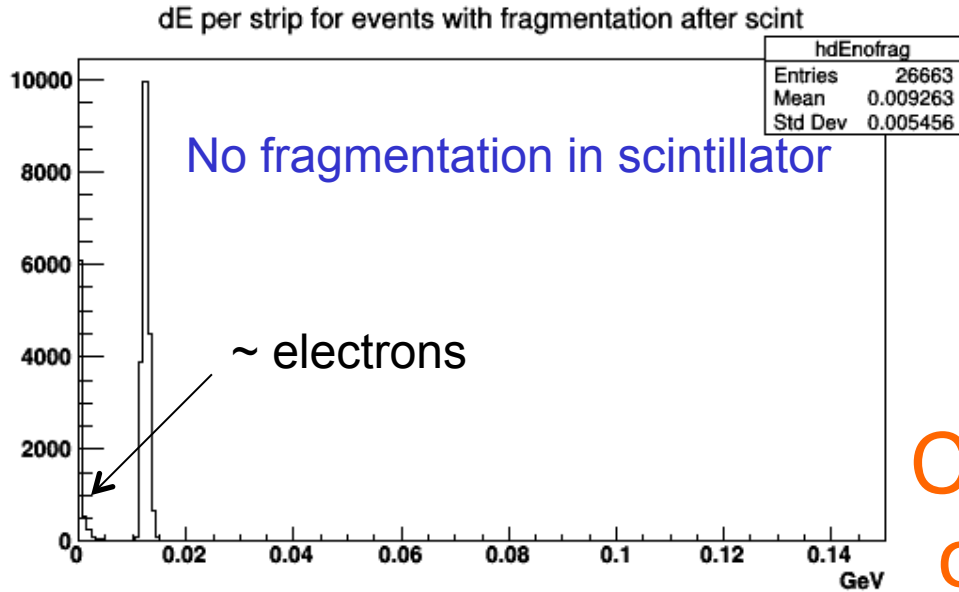


Fragmentation in the scintillator bars

12C

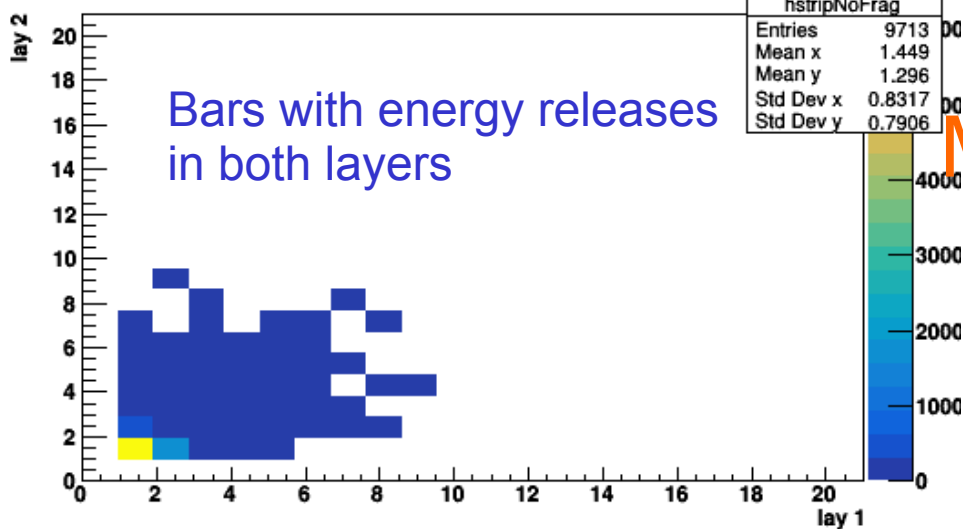


Fragmentation in the scintillator bars

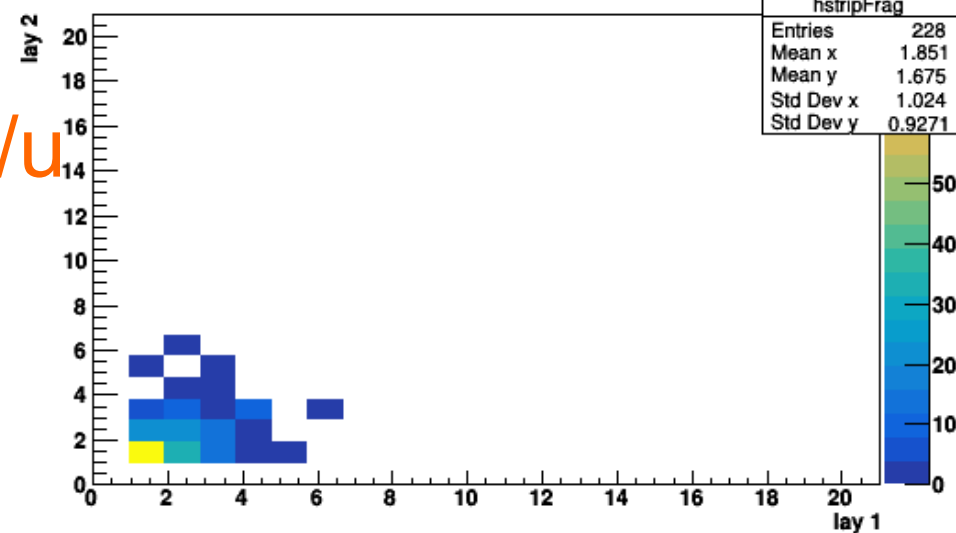


Case
of a
 ${}^7\text{Li}$
200
MeV/u

no. of fired strips - no frag events



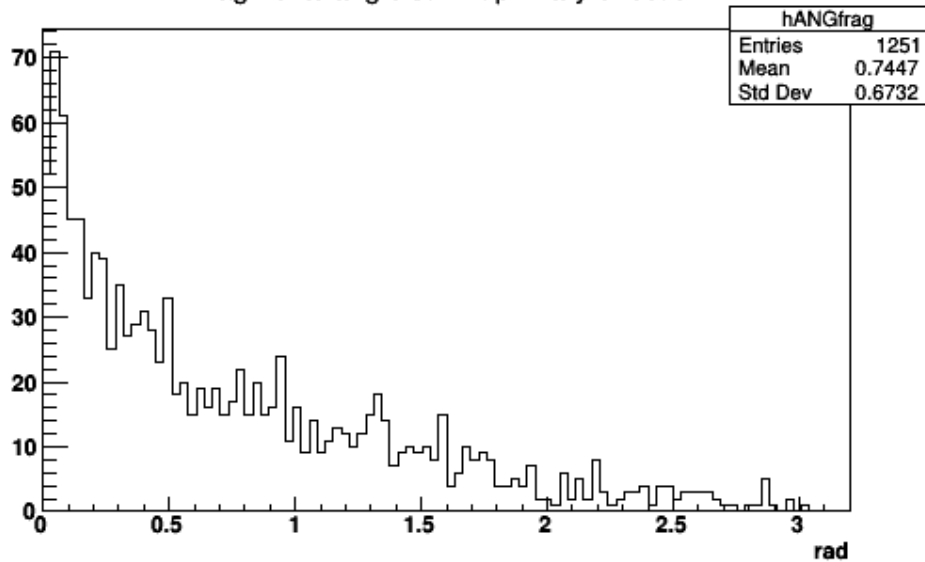
no. of fired strips - frag events



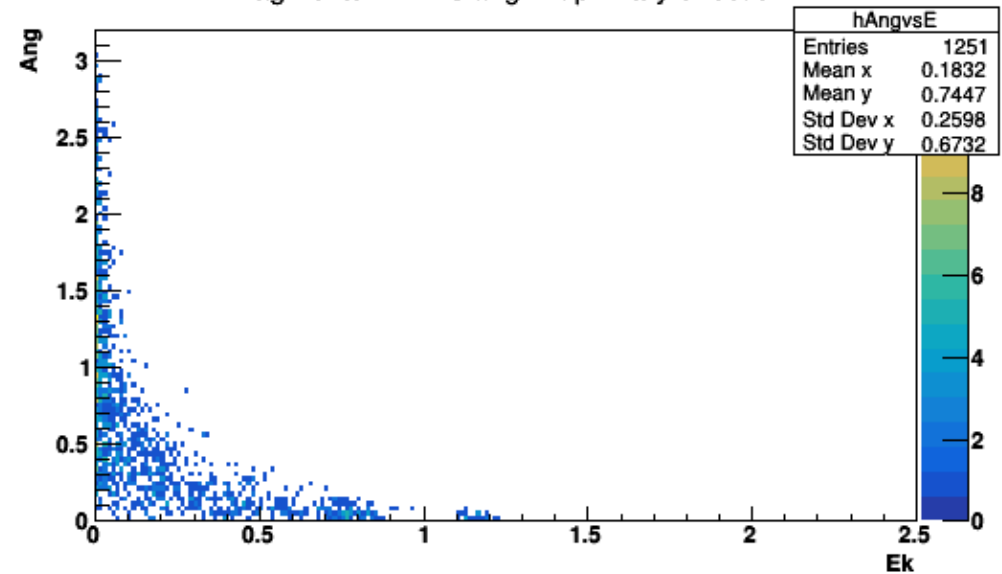
Fragmentation in the scintillator bars

${}^7\text{Li}$

Fragments ang distr wrt primary direction



Fragments Ekin vs ang wrt primary direction



Main open questions

- thickness of bars (different in 1st layer with respect to 2nd ?)
- resolution on single event?