

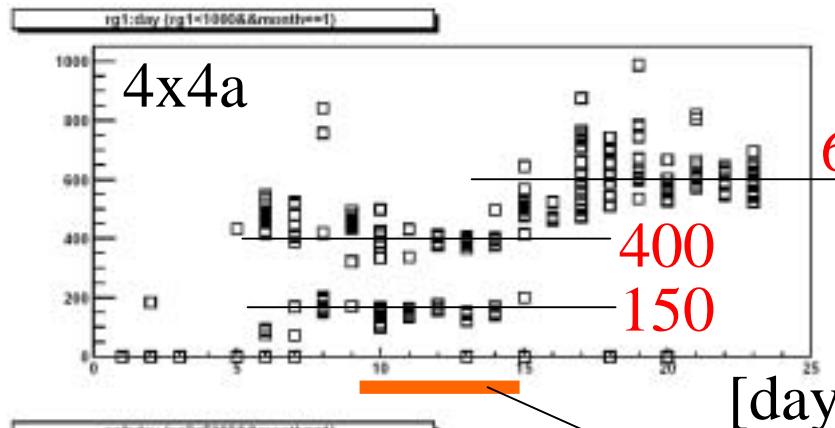
EMCal trigger in ERT

Level1 trigger meeting

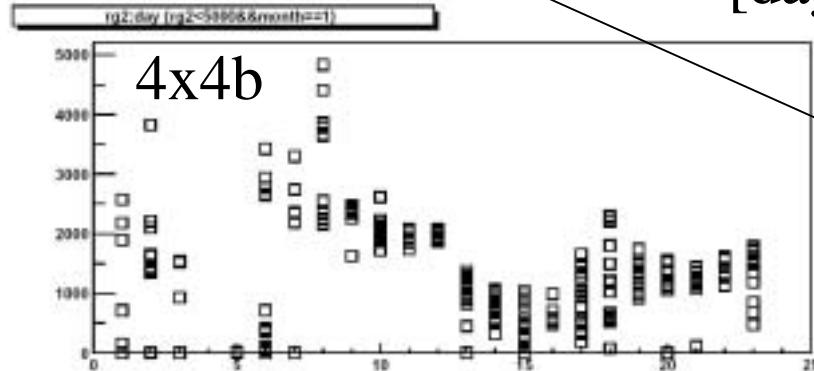
3/15/2002

K.Okada

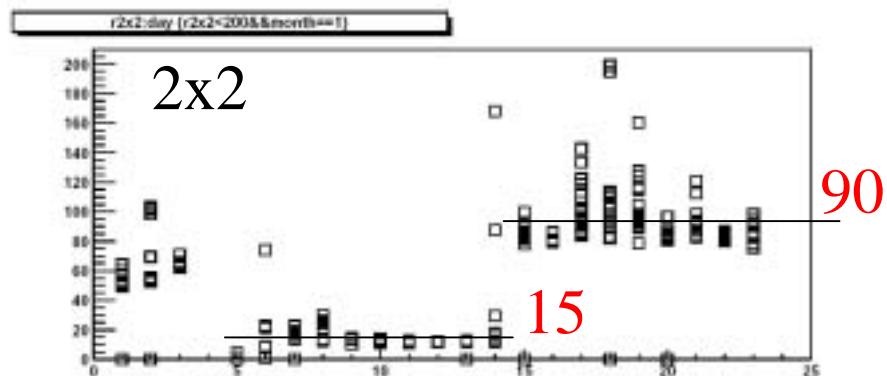
Rejection power



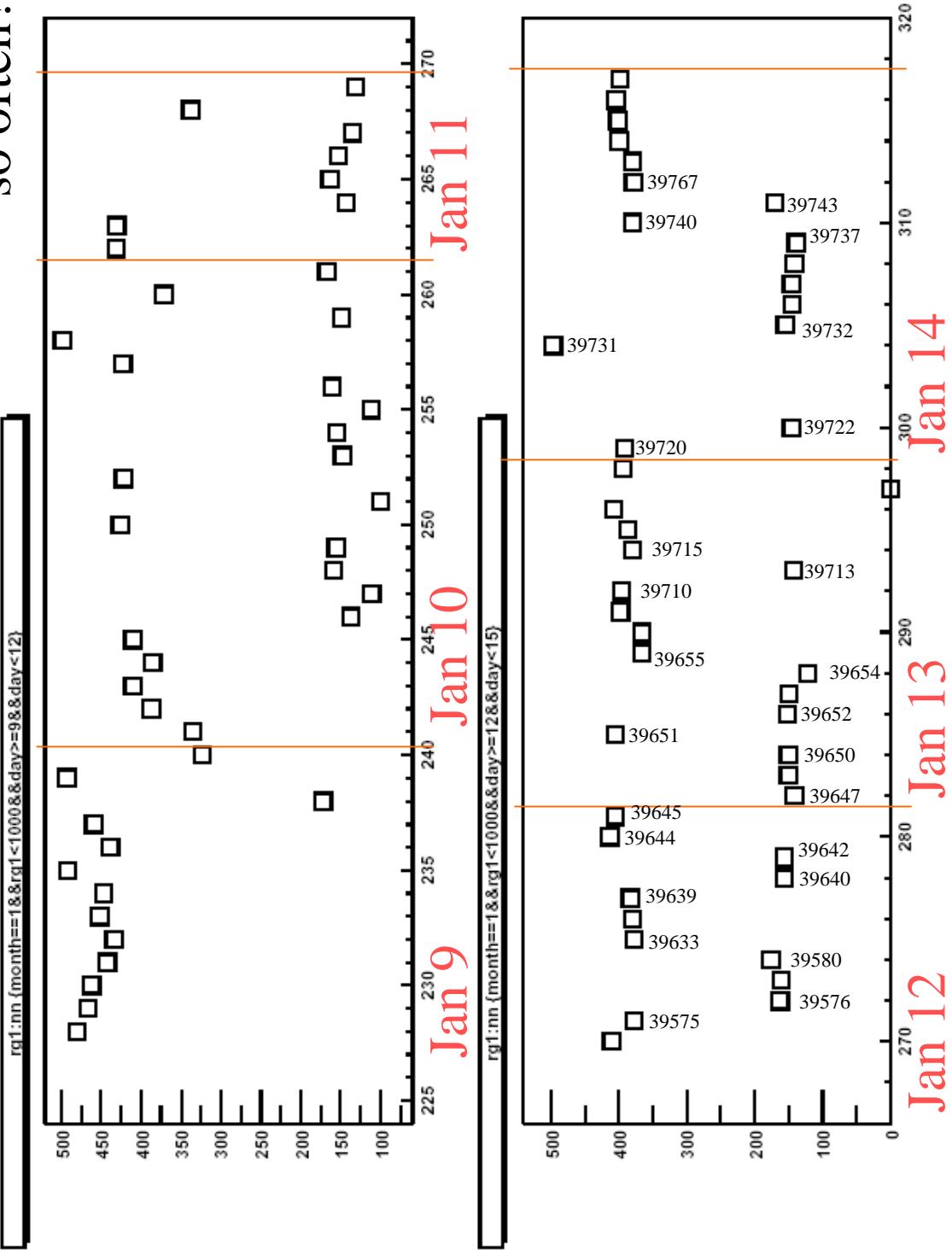
$$\frac{\text{raw}(\text{BBC}||\text{NTC})}{\text{raw}(\text{trigger}\&\&(\text{BBC}||\text{NTC}))}$$



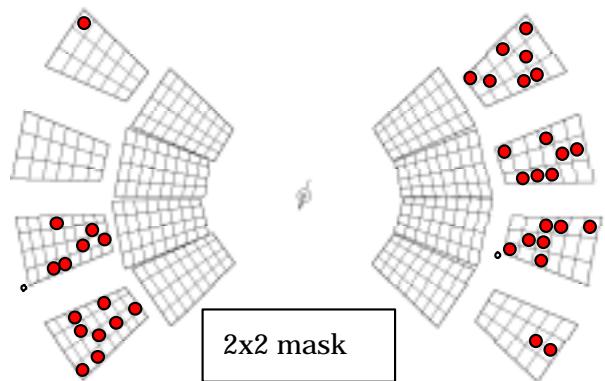
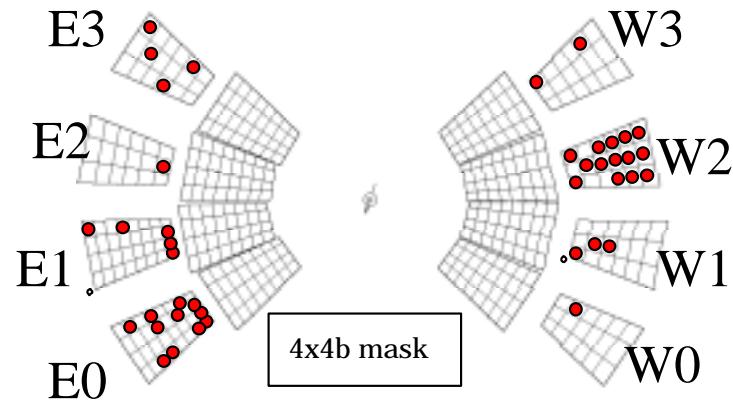
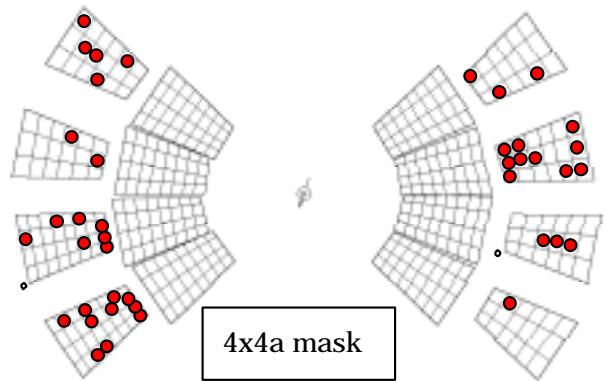
Next slide



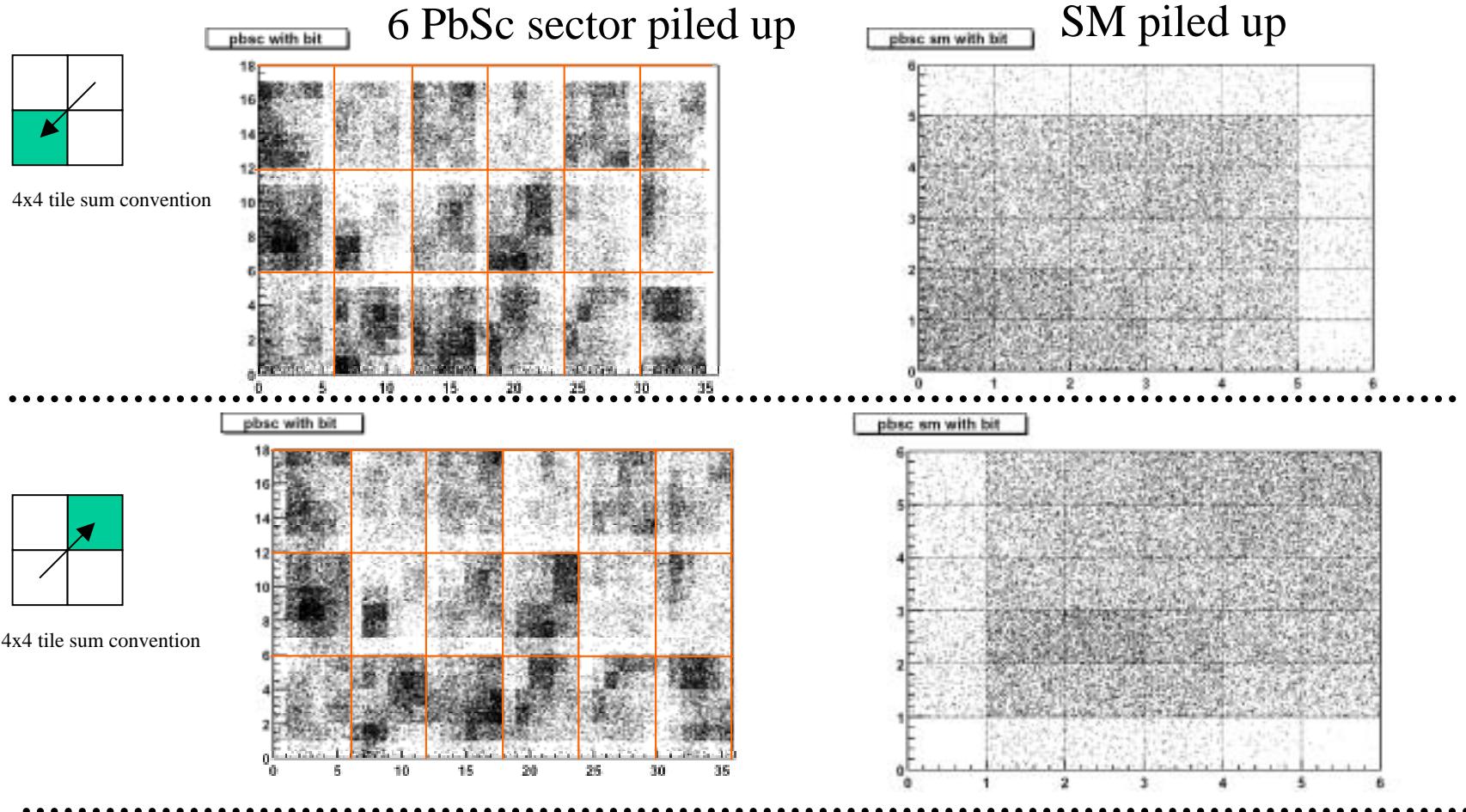
Rejection power 4x4a trigger Why did it change so often?



EMCal Masked SM for run40136

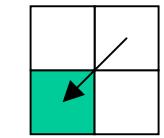


The largest energy tile position in SM with trigger bit (PbSc)



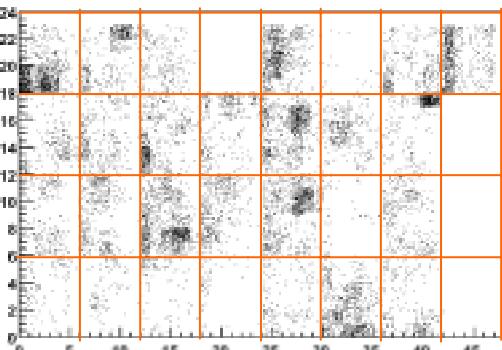
This should be flat distribution if SMs were connected.

The largest energy tile position in SM with trigger bit (PbGl)

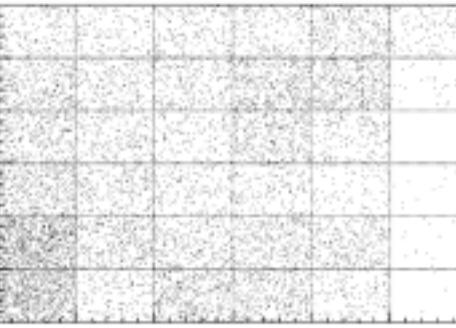


4x4 tile sum convention

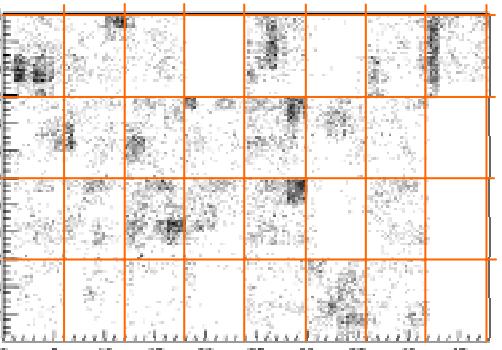
pbgI with bit



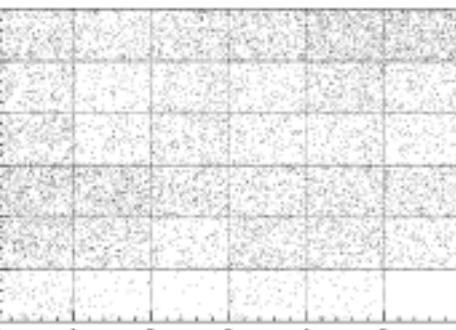
pbgI sm with bit



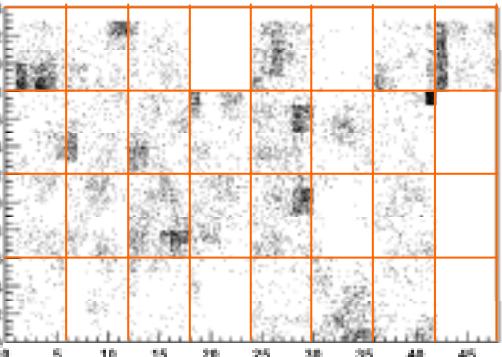
pbgI with bit



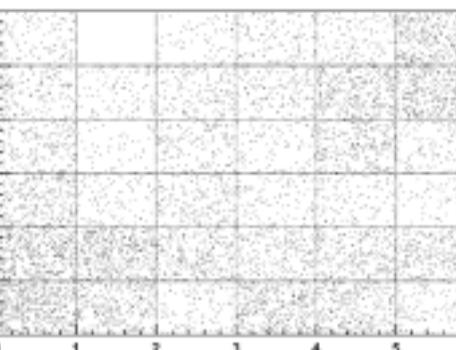
pbgI sm with bit



pbgI with bit



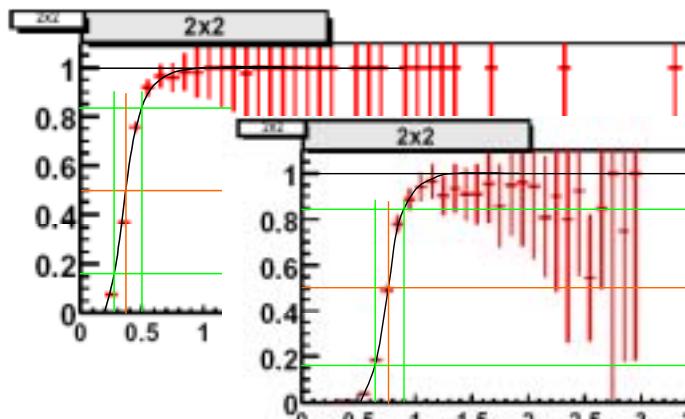
pbgI sm with bit



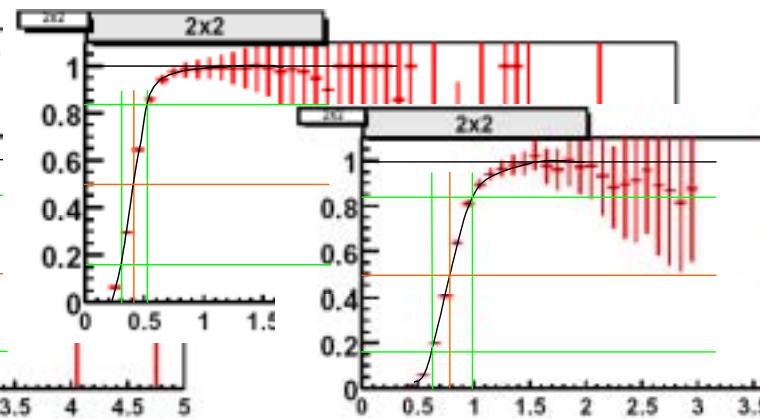
PbGl is fine.

EMCal energy threshold

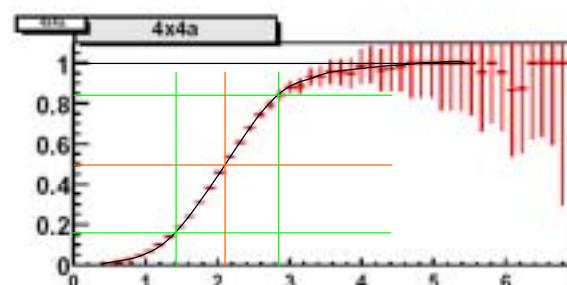
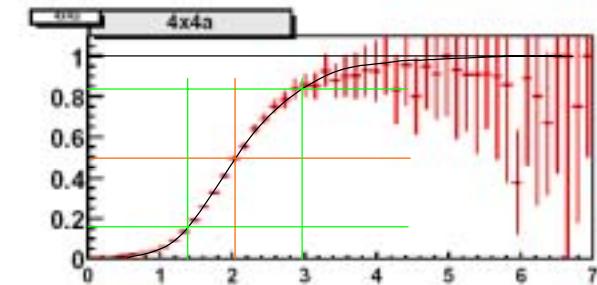
PbGl



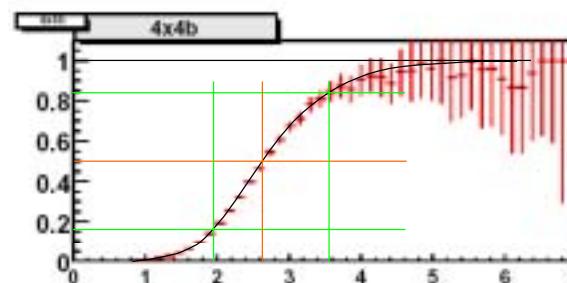
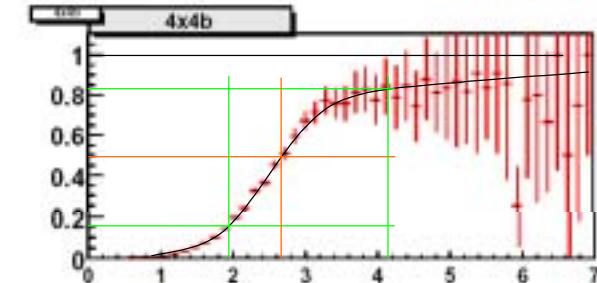
PbSc



2x2
0.4GeV
and 0.8GeV



4x4a 2.1GeV

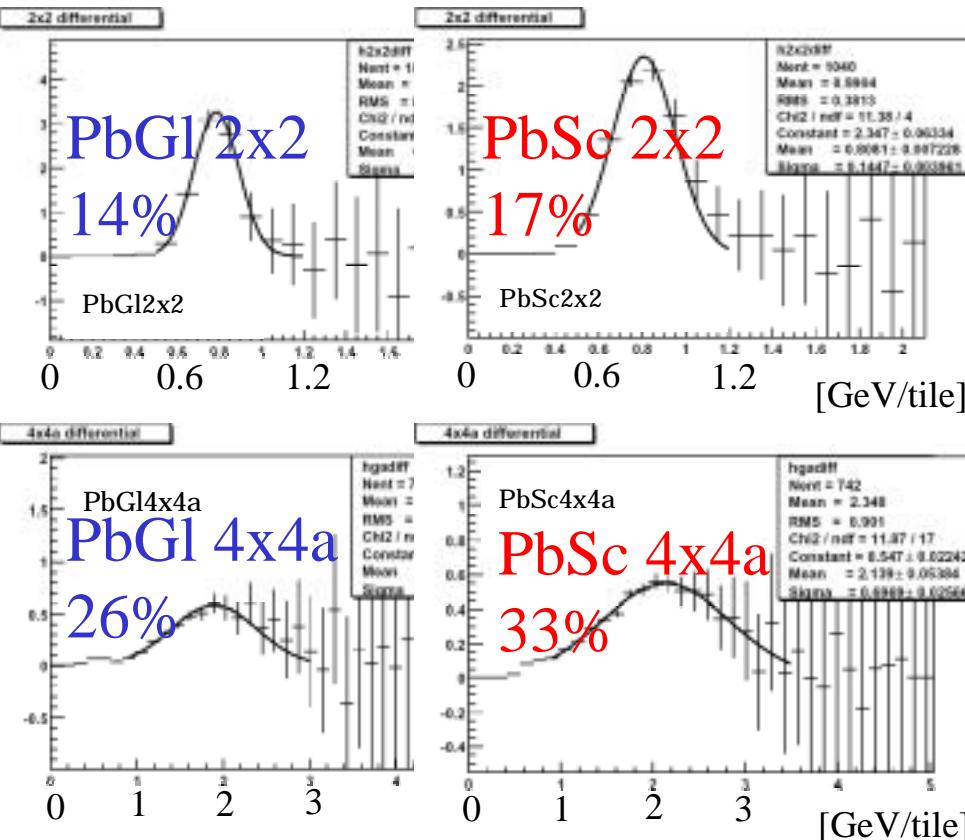


4x4b 2.7GeV

[GeV/tile]

Threshold turn on curve

Differential of threshold curve



PMT gain variance is not only reason.

PMT gain variance

