



EMC Background Studies

Background Meeting
09/03/2010

C. Cecchi - S. Germani*
Università di Perugia & INFN

*Work supported by  FONDAZIONE
CASSA RISPARMIO PERUGIA



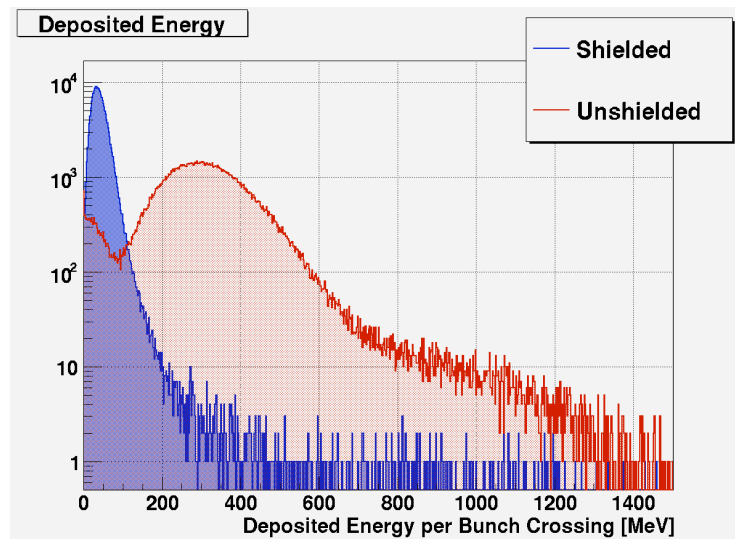
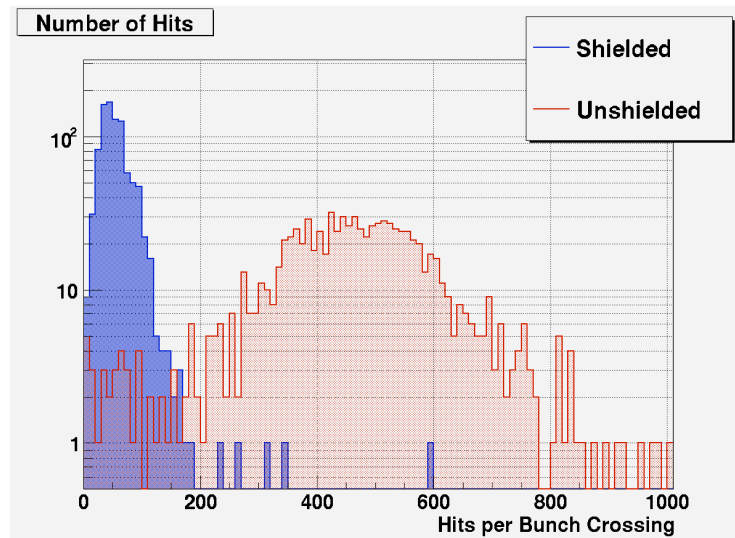
Outline



- Data
 - Shielded - Unshielded comparison
 - Delta_Emin comparison
- Deposited energy
 - Bunch crossing
 - Crystal integration time
 - 1 us Csl
 - 0.2us LSO
 - Energy deposit scaled as $(1-e^{-\Delta t/\tau})/(1-e^{-\text{gate}/\tau})$
 - Clustering

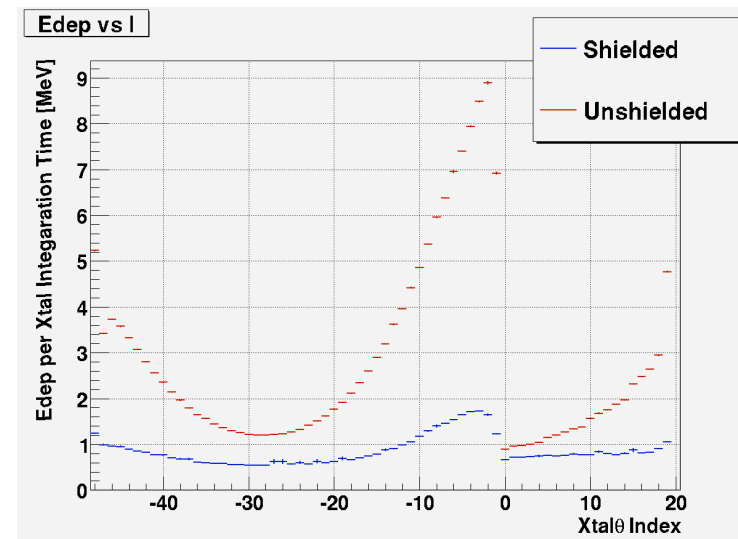
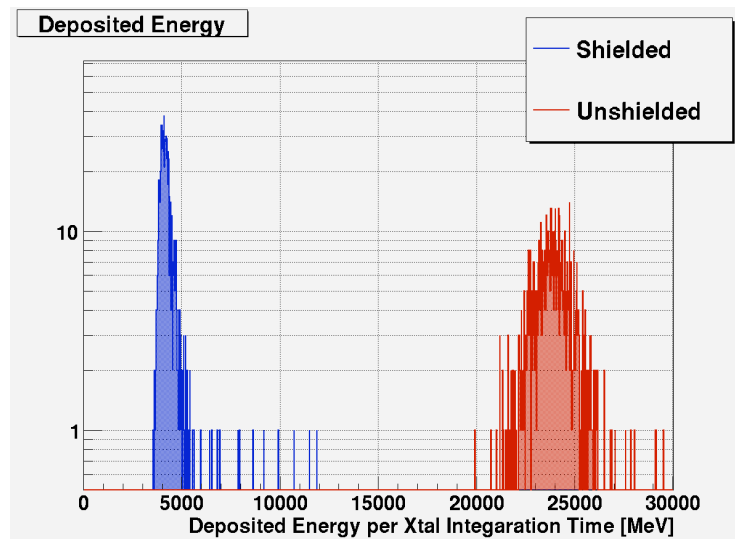
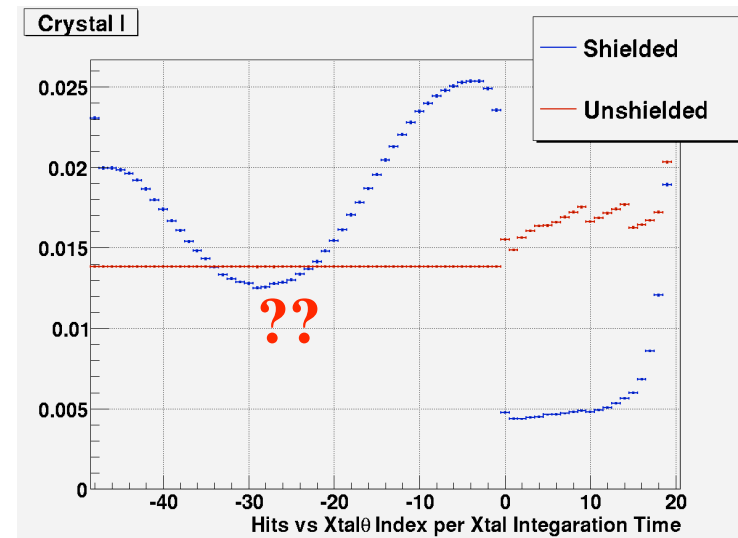
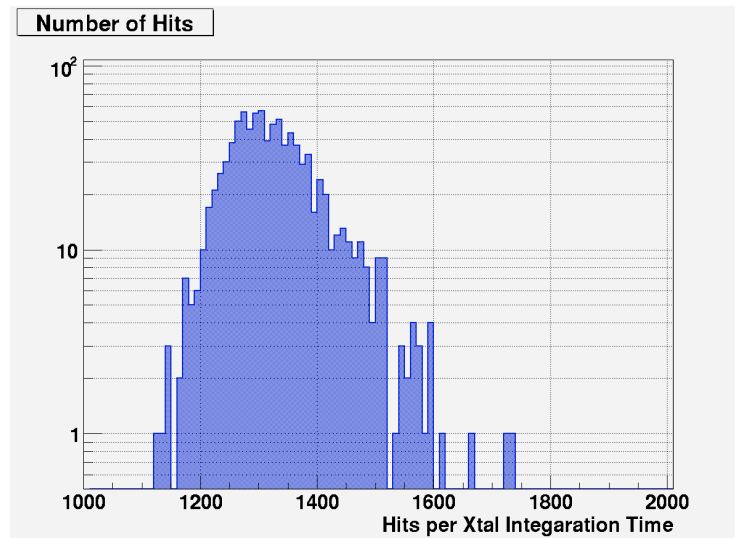


Shielded - Unshielded : Bunch Crossing



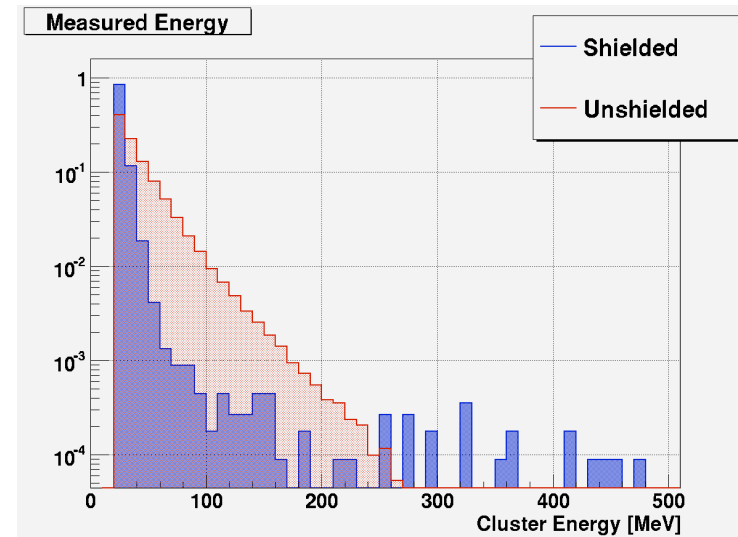
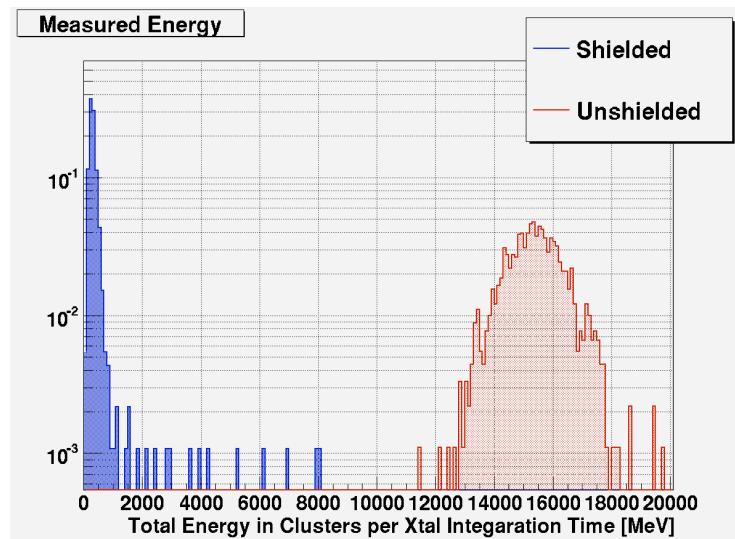
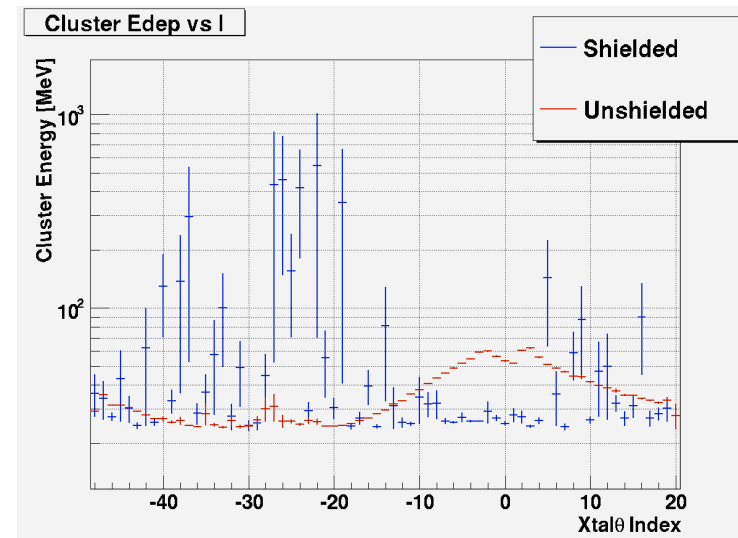
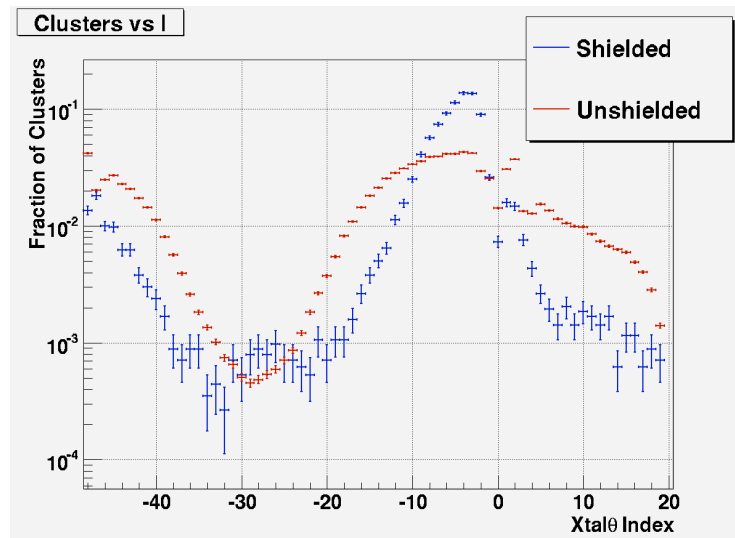


Shielded - Unshielded : Crystal Integration Time



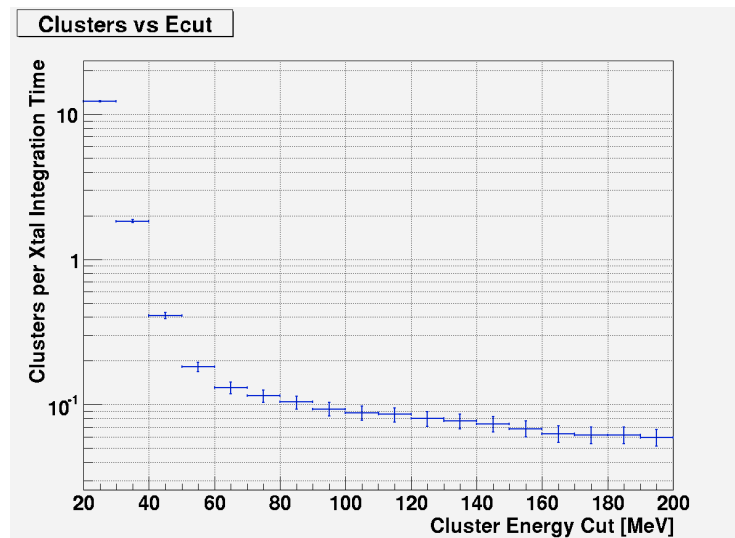
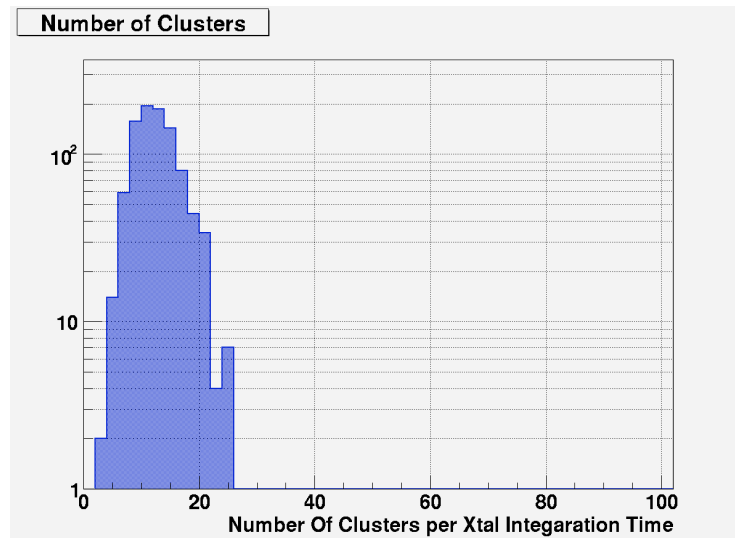


Shielded - Unshielded : Clusters



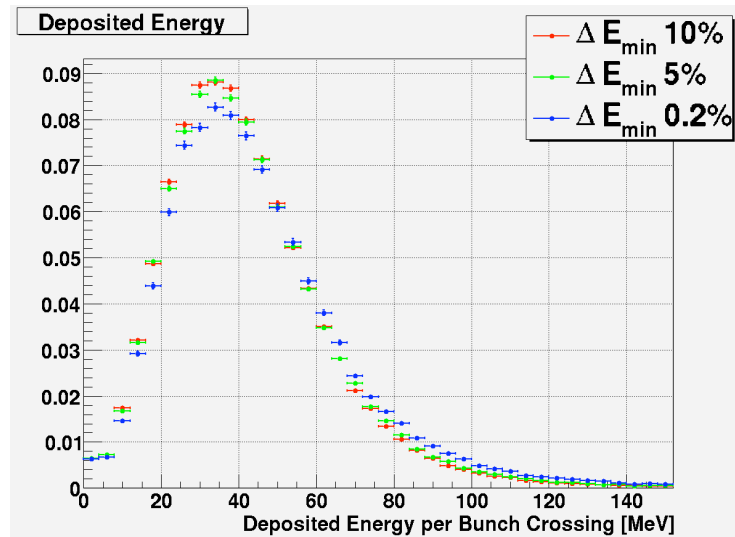
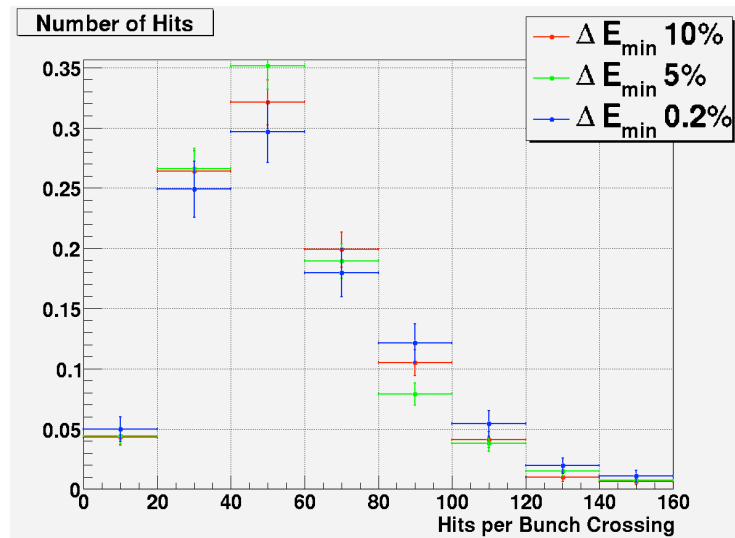


Number of Clusters (Shielded)



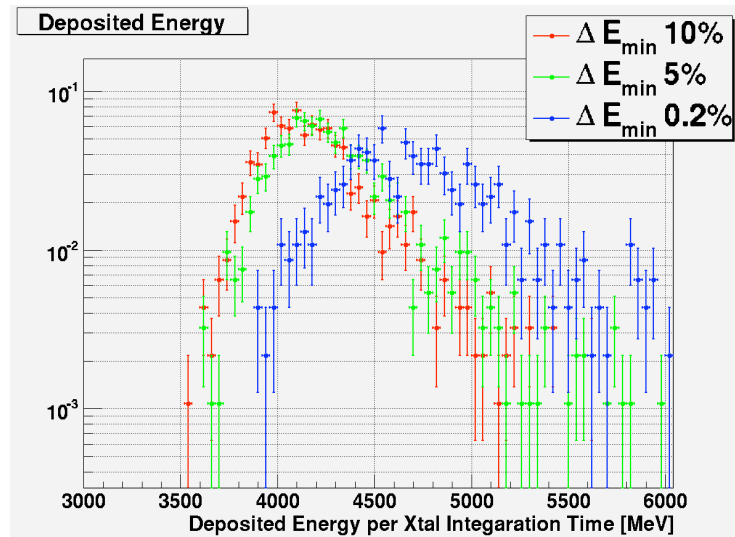
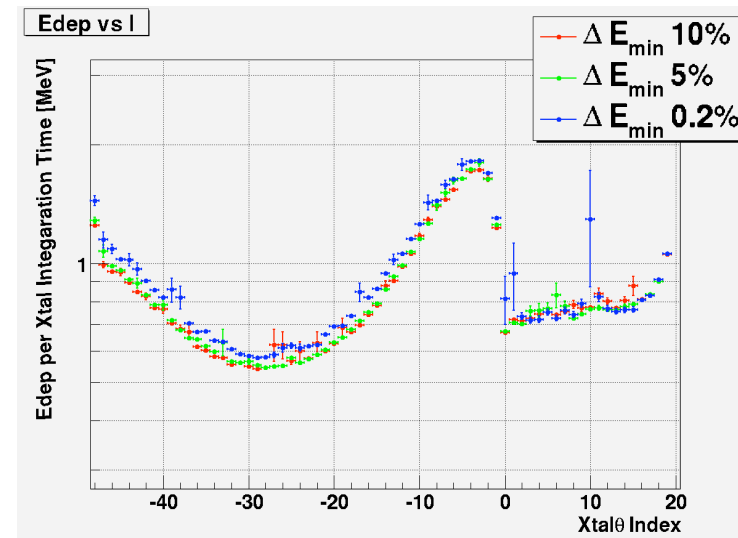
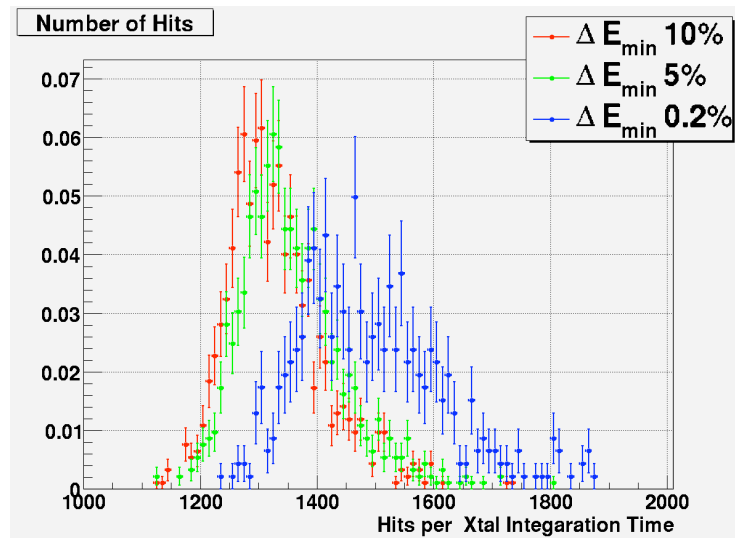


Delta Emin : Bunch Crossing





Delat Emin : Crystal Integration time





Delta Emin : Clusters

