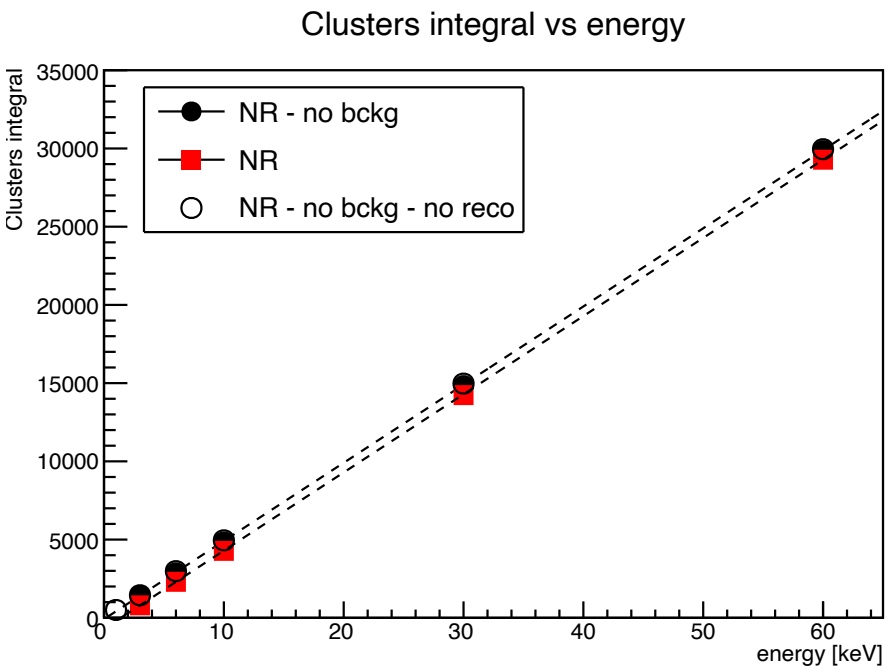
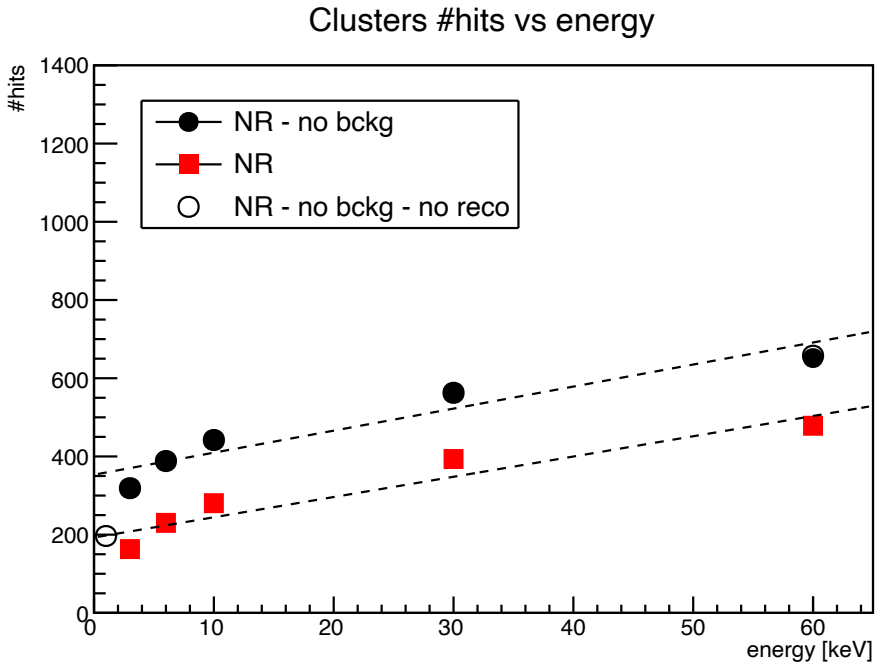




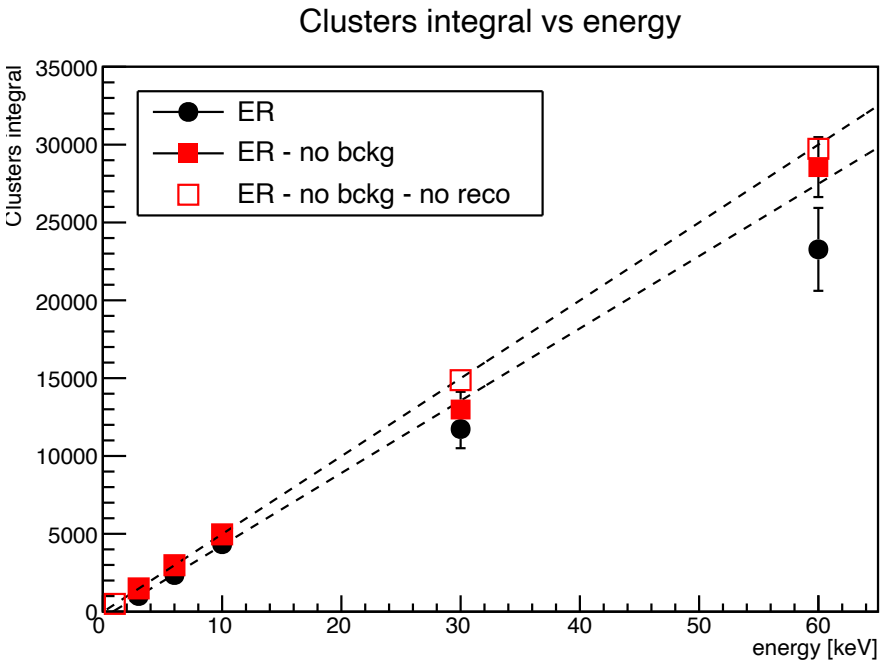
SRIM simulated NR with:

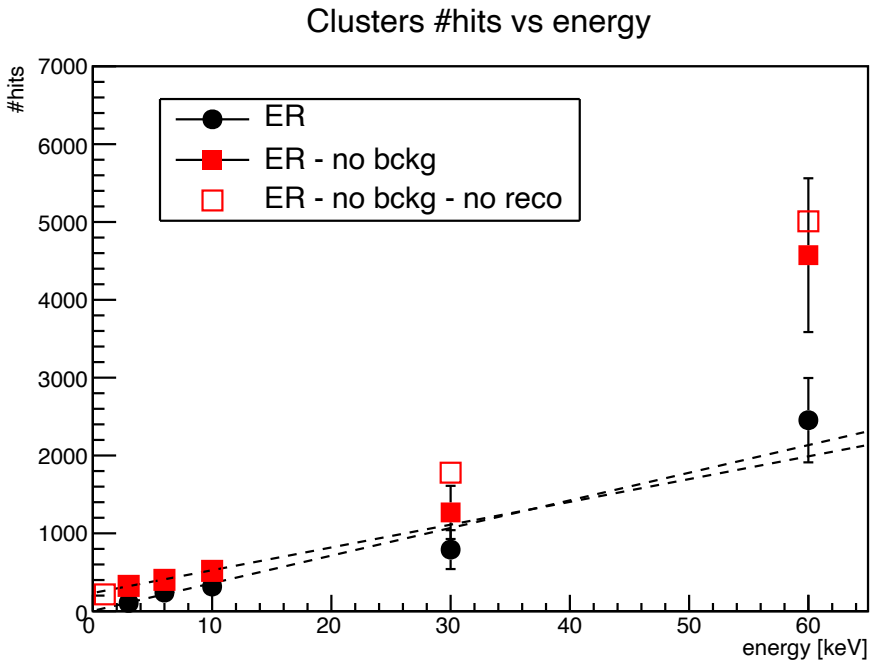
1) Red squares: digitization with sensor background simulation + image reconstruction

2) Black dots : digitization w/o sensor background + image reconstruction

3) Black circles: Digitization w/o sensor background – no reconstruction (just pixel counting and integral on the images)

Option 3 is the «truth».
Reconstruction works pretty fine.
A ~constant fraction of pixels (hits) is lost when sensor background is added (should be the less intense becouse the integral is anyway pretty good…)





G4 simulated ER with:

1) Black dots: digitization with sensor background simulation + image reconstruction

2) Red squares: digitization w/o sensor background + image reconstruction

3) Open red squares: Digitization w/o sensor background – no reconstruction (just pixel counting and integral on the images

Option 3 is the «truth».
Reconstruction works fine until no background is added, then pixels are lost