

# **risoluzioni & residui**

germano - frascati (18/04/2008)

confronto produzione dic<sup>07</sup> - apr<sup>08</sup>

## tagli

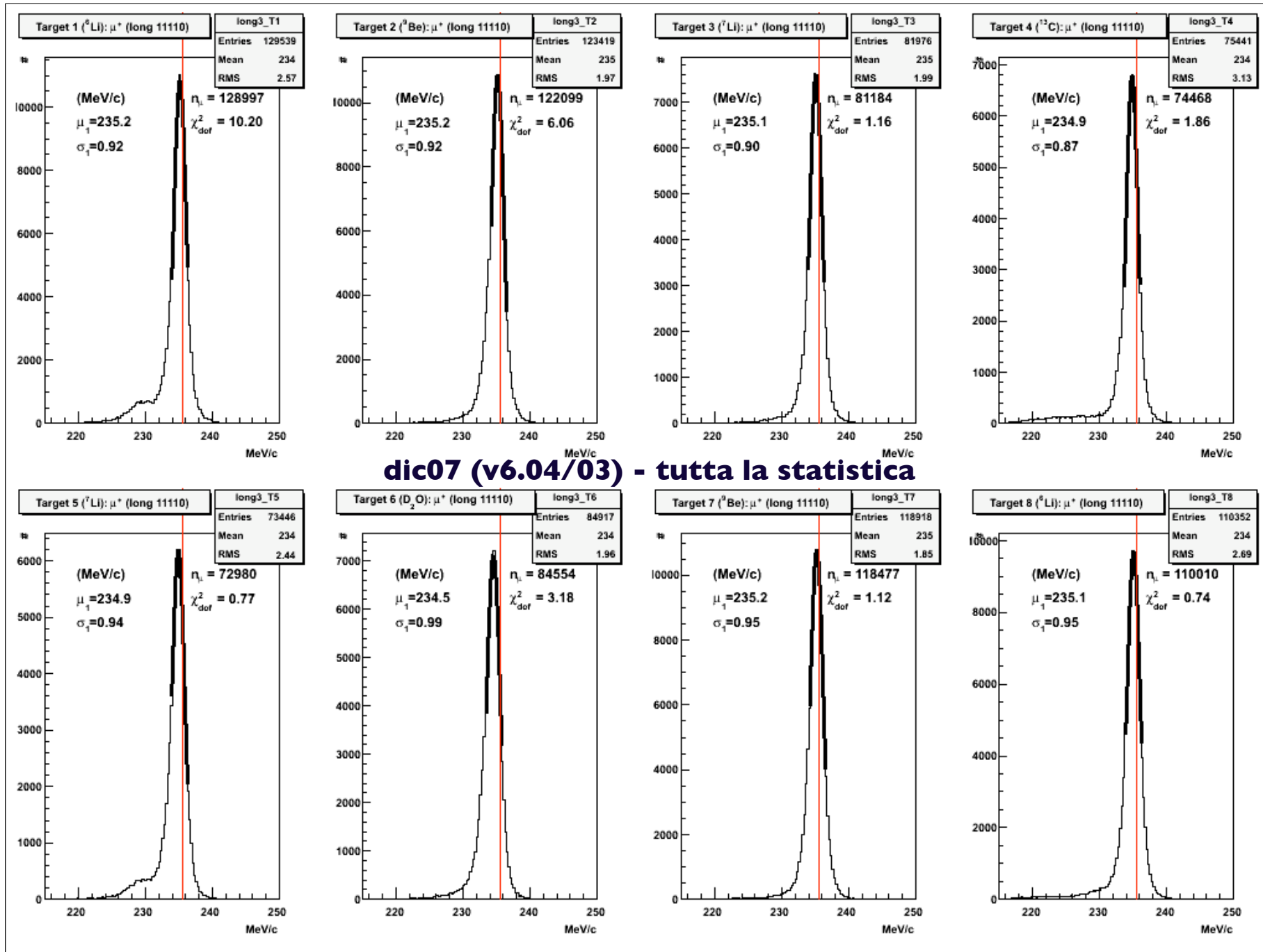
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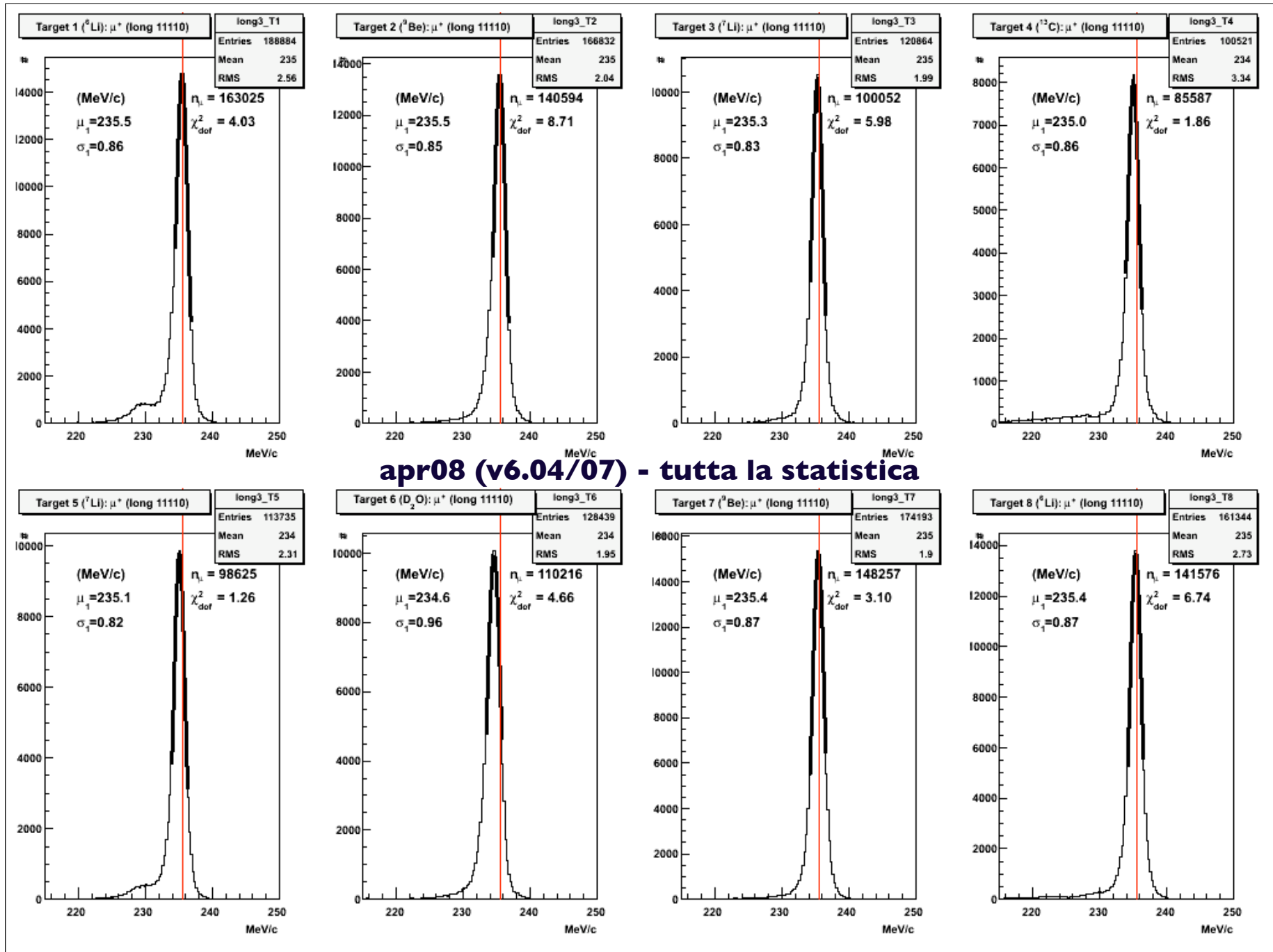
if(Prercod==0&&Stopplu==1) { // K+ stop in target - INIT
itarg = Ntarplu-1; //Ntarplu goes from 1 to 8
for(int itrk=0; itrk<Ntkplu; itrk++) { // Loop over tracks - INIT
  itarg2 = Vmktplu[itrk]-20; //Target calculated crossing kaon and track

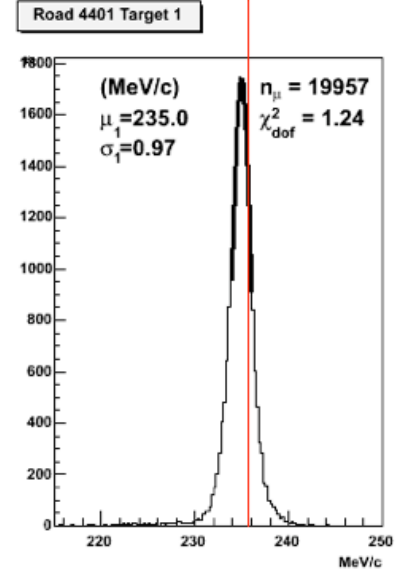
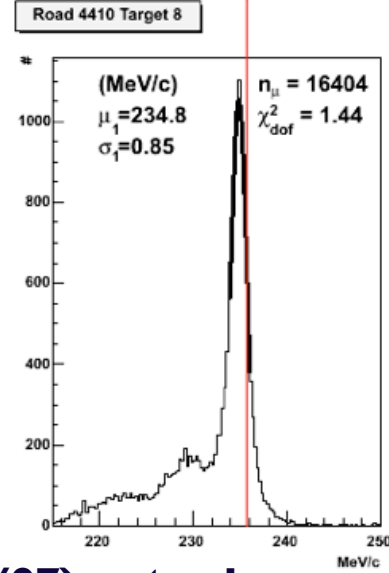
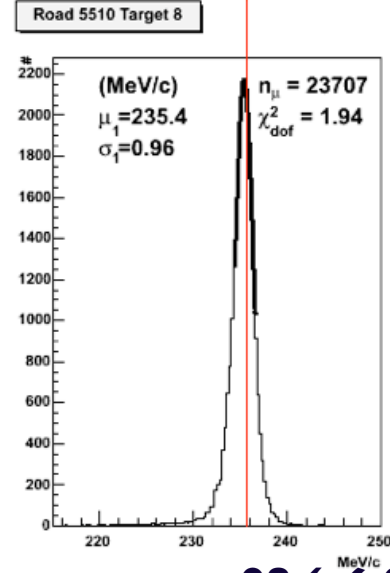
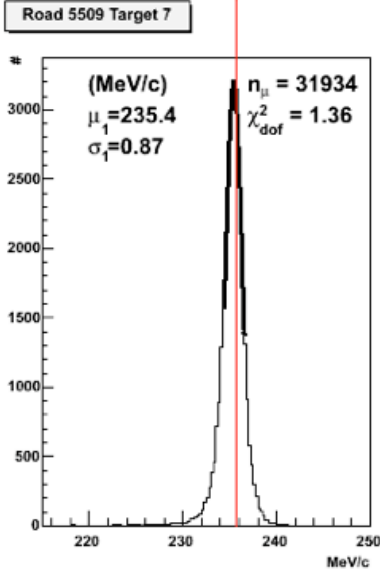
  if(Extrplu[itrk]!=1) continue; // Extrapolation
  if(Fiteplu[itrk]!=0) continue; // Fit
  if(Chrgplu[itrk]!=1) continue; // Positive tracks
  if(Pidplu[itrk]!=8) continue; // Positive mips (8=pi+,mu+)
  if(Disvplu[itrk]>0.5) continue; // Quality cut
  if(Dev2plu[itrk]>1.0) continue; // Quality cut
  if(Resdplu[itrk]>0.15) continue; // Quality cut
  if(Vdktplu[itrk]>0.1) continue; // Quality cut
  if(itarg2!=Ntarplu) continue; // Coincidence between target number
  if(fabs(Xextrplu[itrk])>tLim[itarg]) continue; // Extrapolation out of geometrical boundaries
  salva = true;

  // Long tracks backtracked
  if(Typeplu[itrk]==1111&&Sterplu[itrk]<200) hLB1[itarg]->Fill(muMom);
  if(Typeplu[itrk]==1112&&Sterplu[itrk]<200) hLB2[itarg]->Fill(muMom);
  // From now on -> only forward tracks
  if(Normplu[itrk]>90) continue;
  if(Longplu[itrk]==0) hS[itarg]->Fill(muMom); // Short tracks
  // From now on Sterplu<200
  if(Sterplu[itrk]>200) continue;

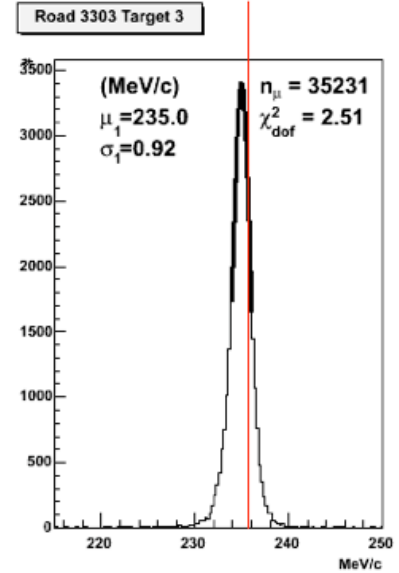
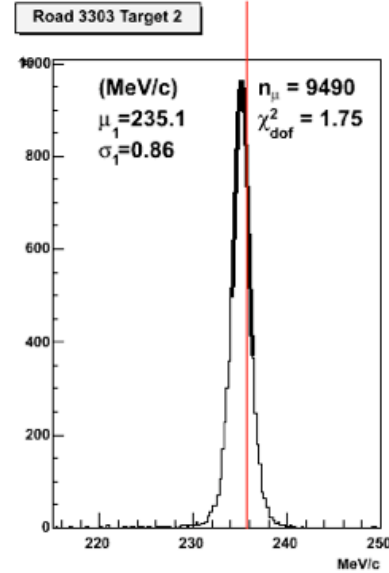
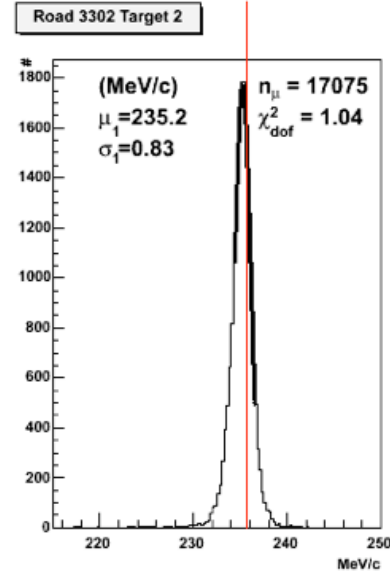
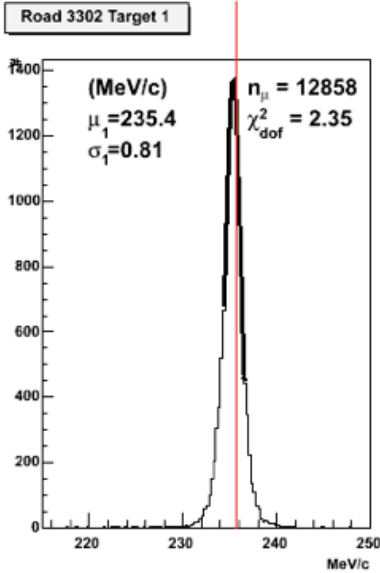
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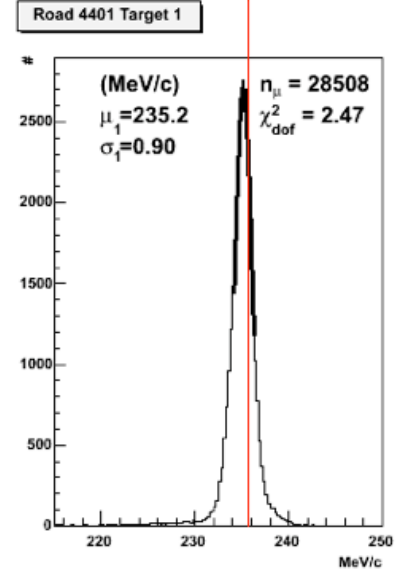
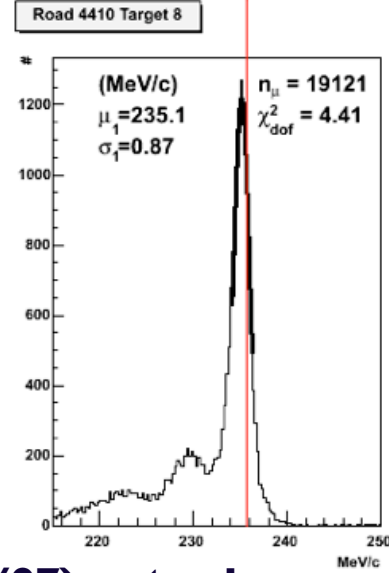
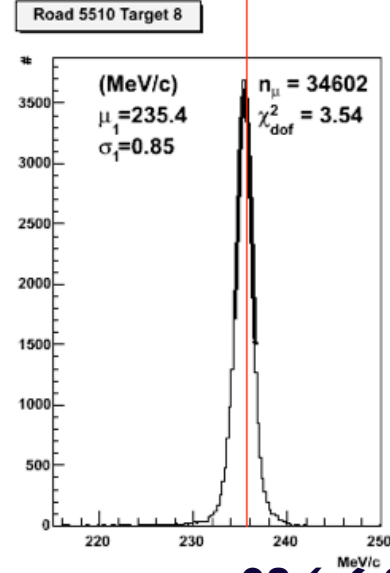
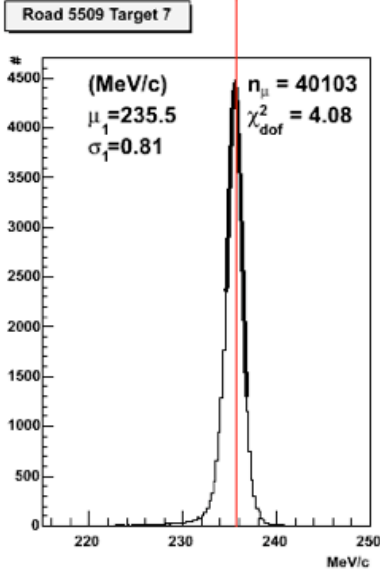




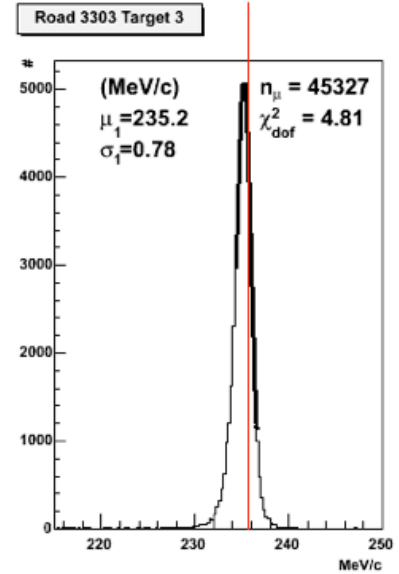
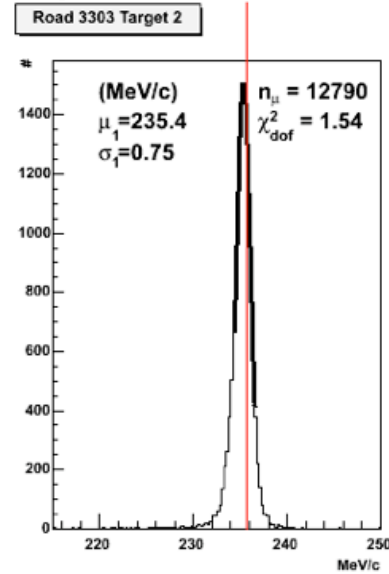
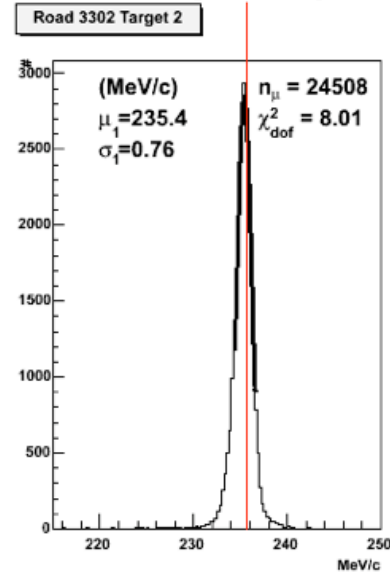
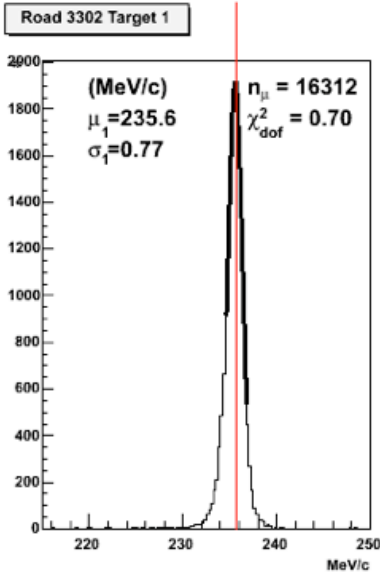


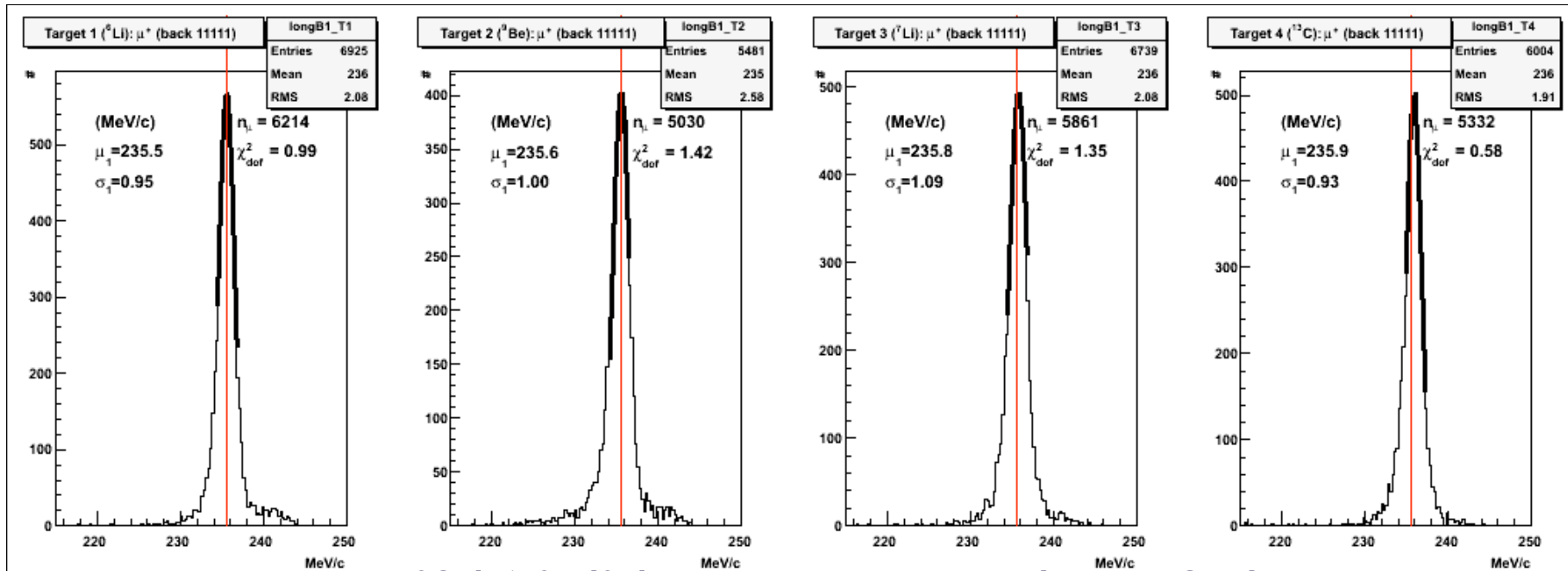
apr08 (v6.04/07) - strade



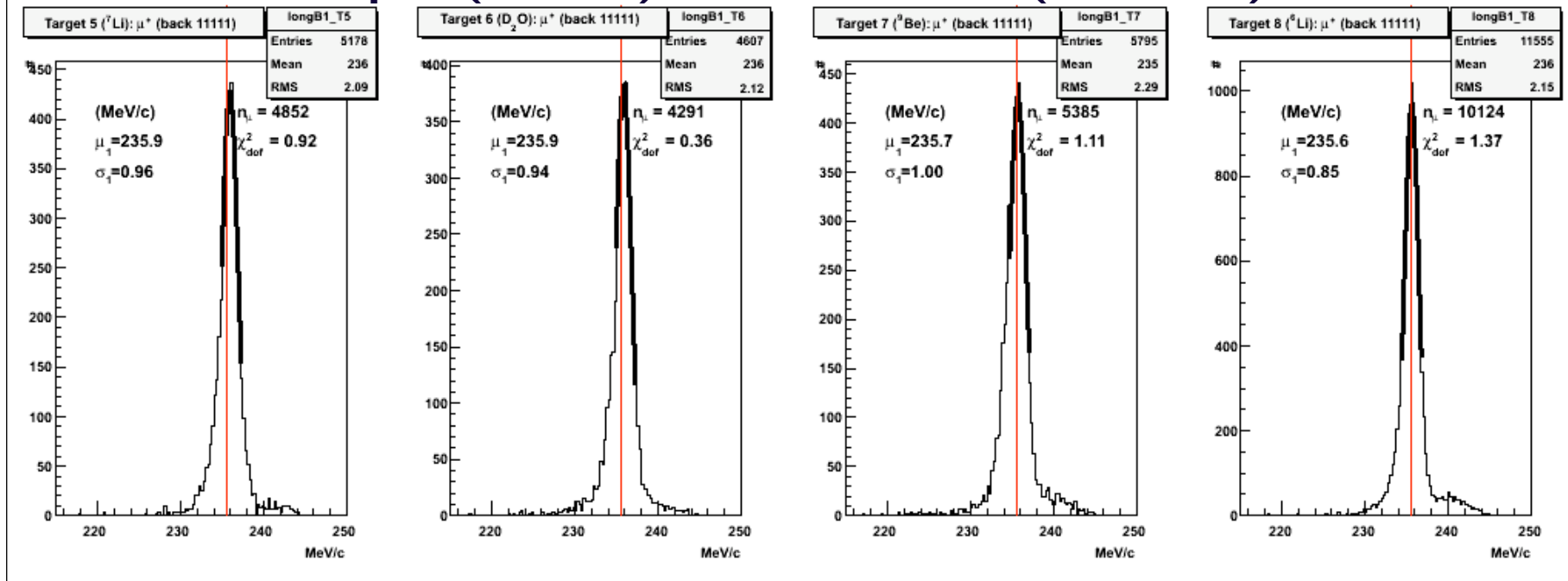


apr08 (v6.04/07) - strade



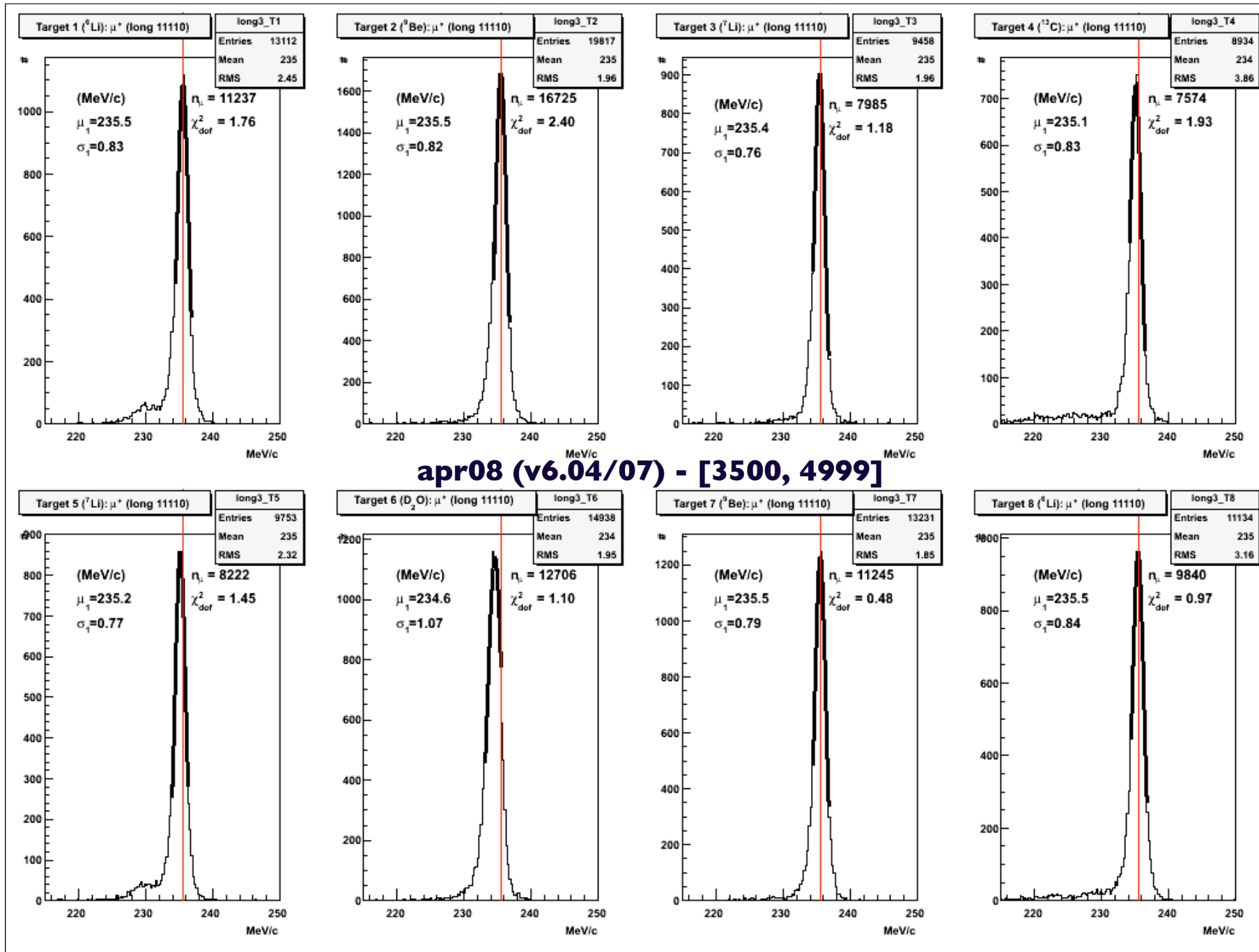


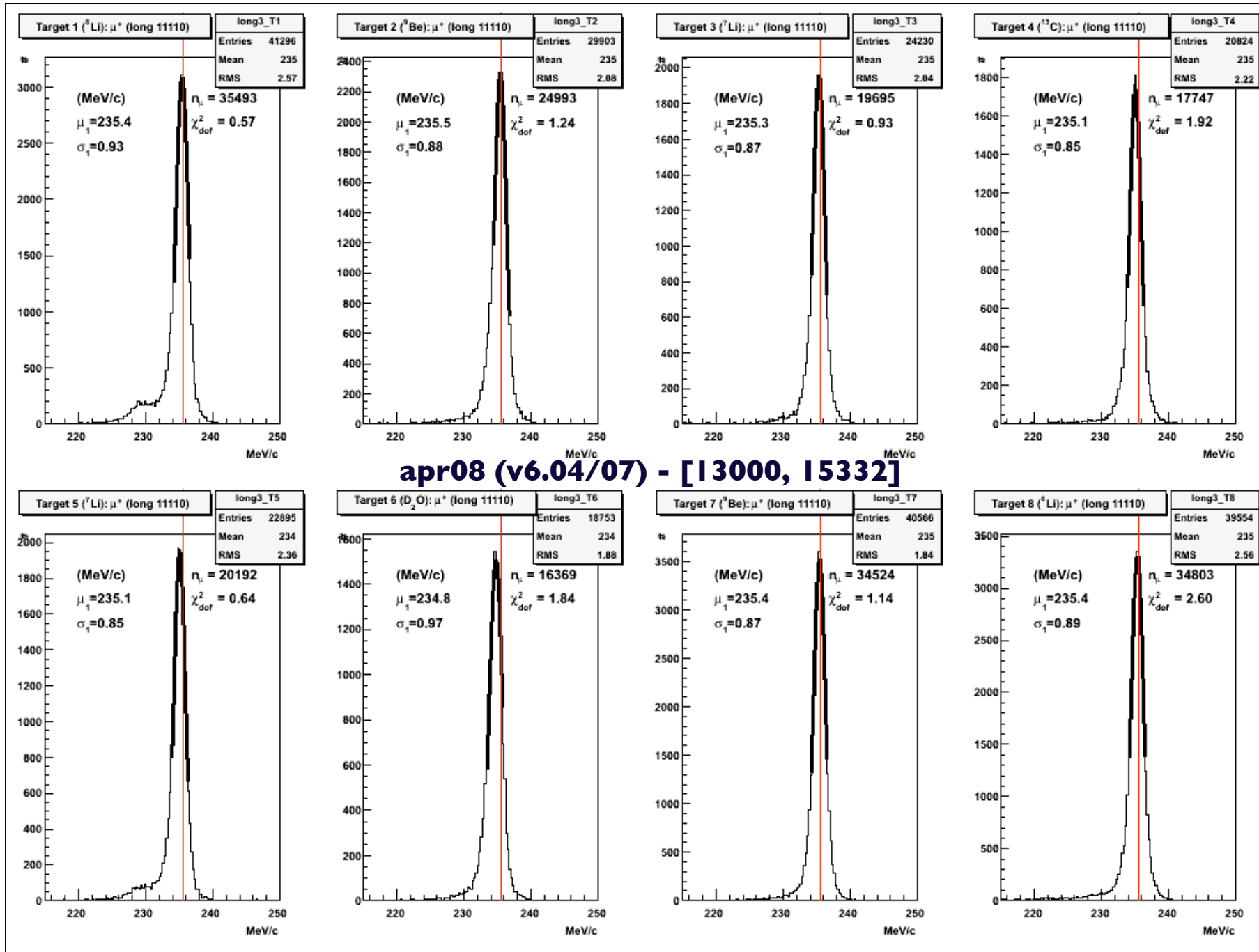
**apr08 (v6.04/07) - tracce backwards (I solo ISIM)**



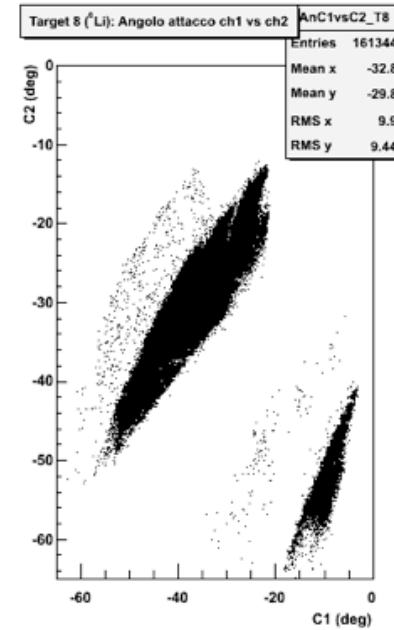
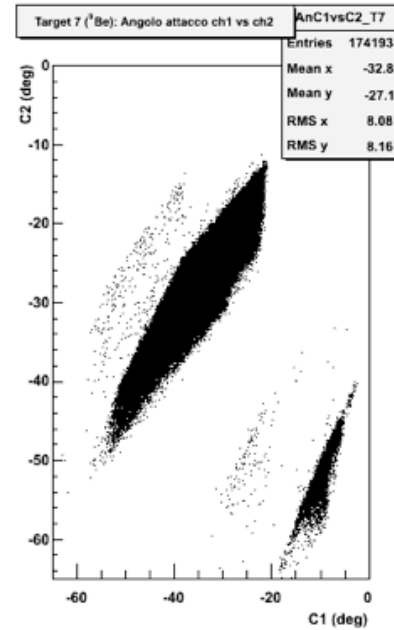
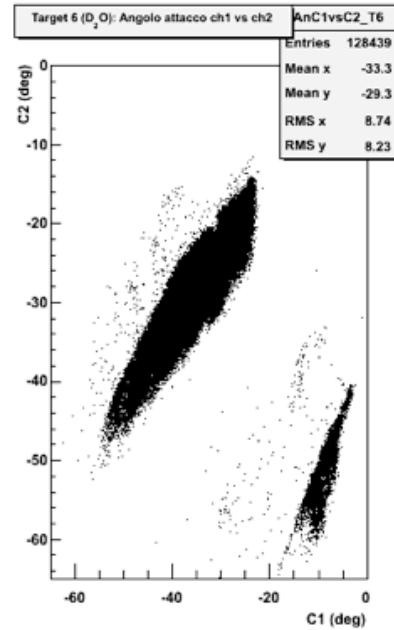
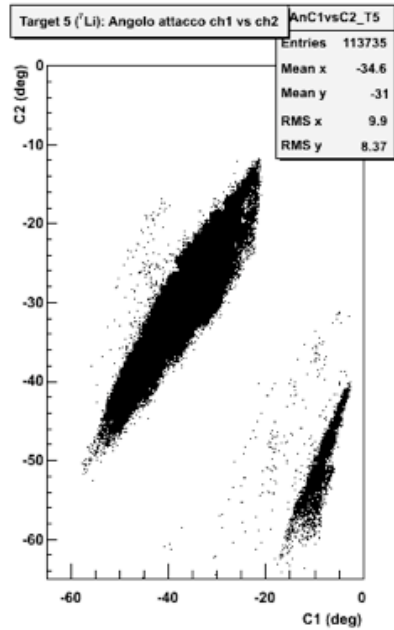
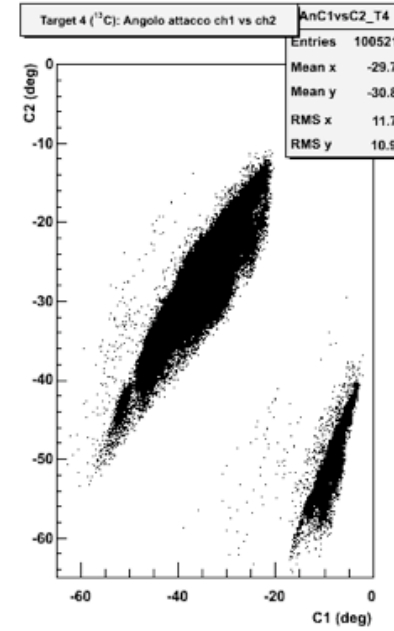
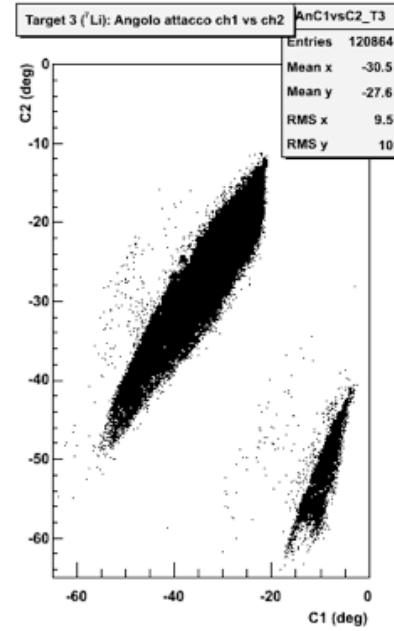
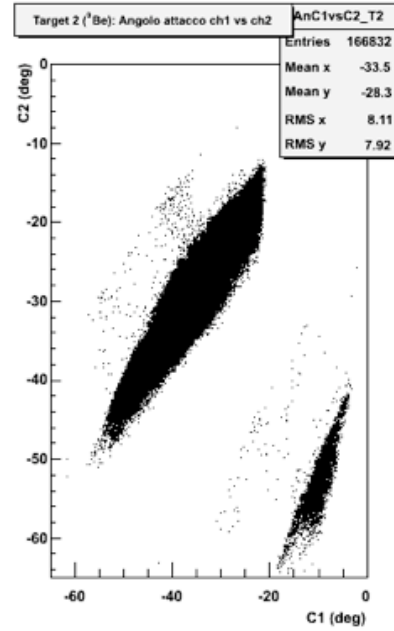
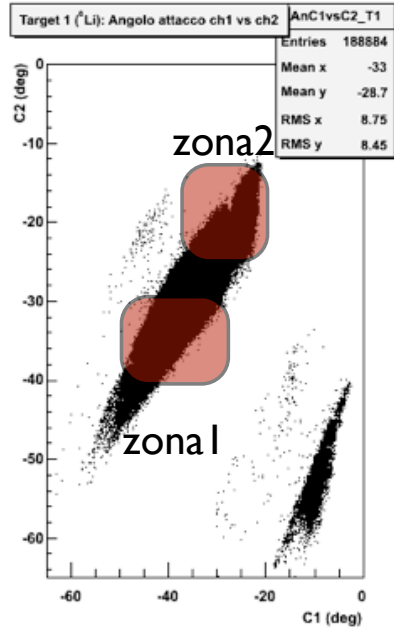


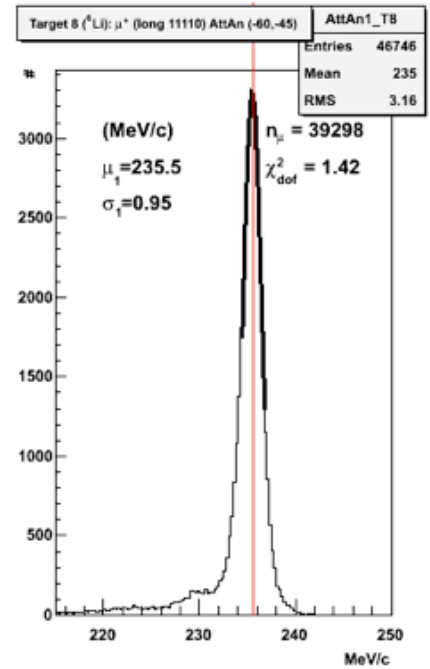
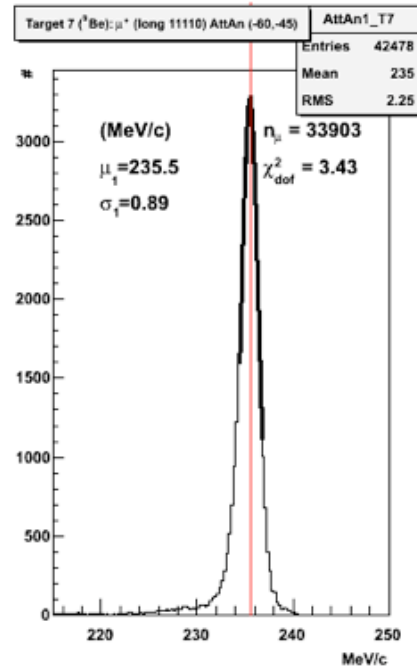
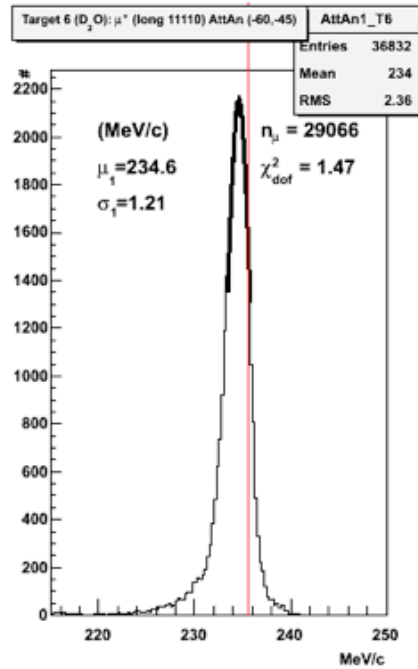
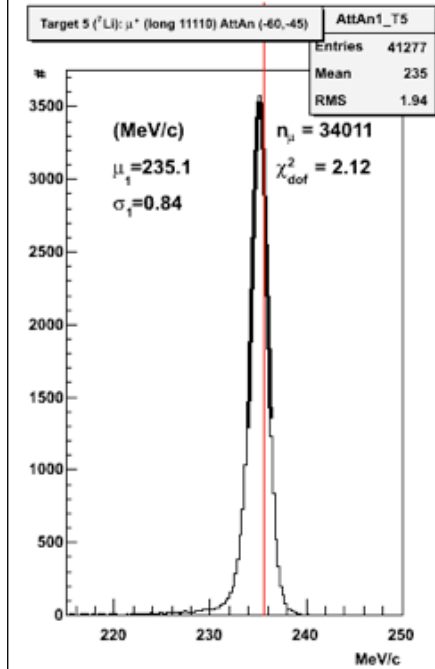
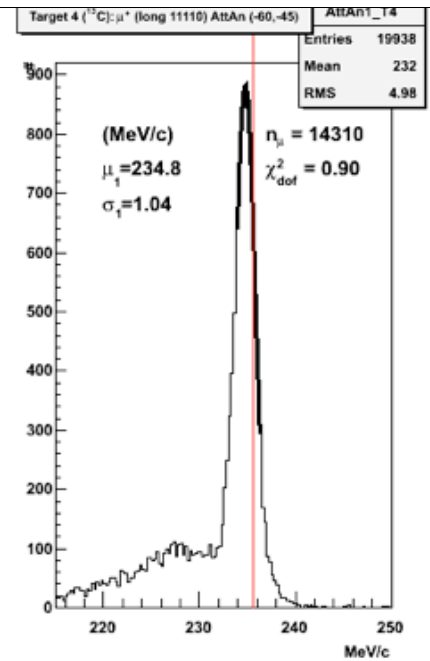
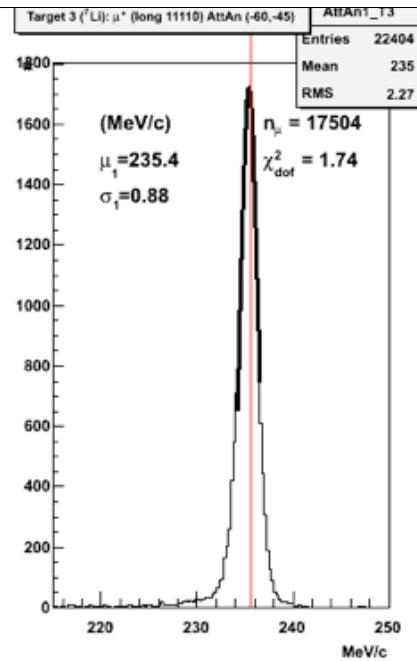
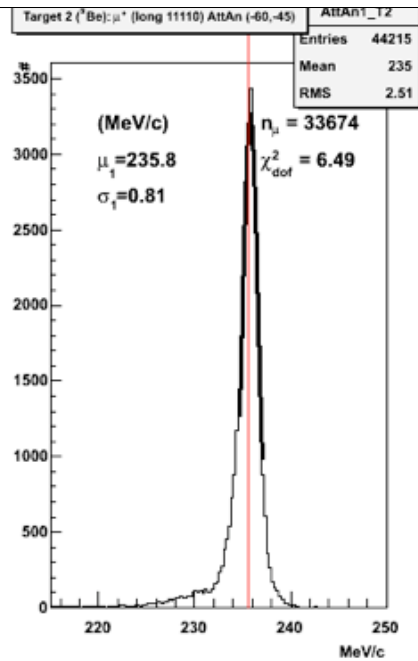
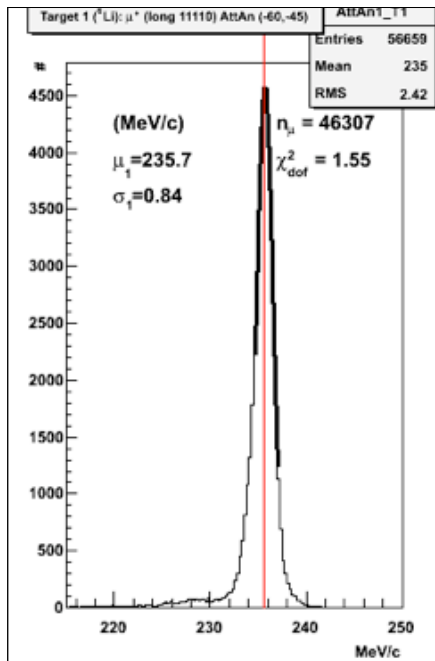
risoluzioni a inizio/fine presa dati

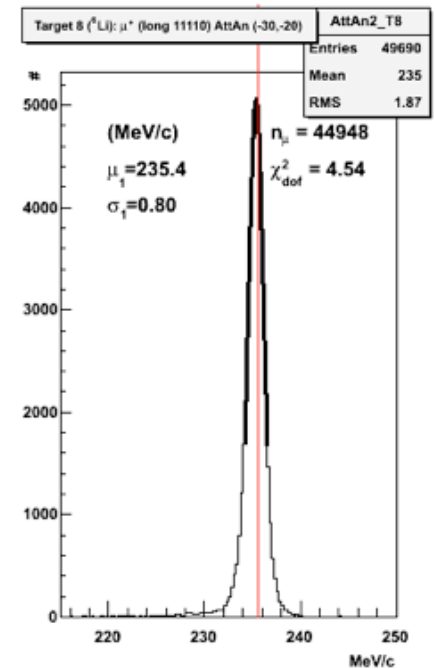
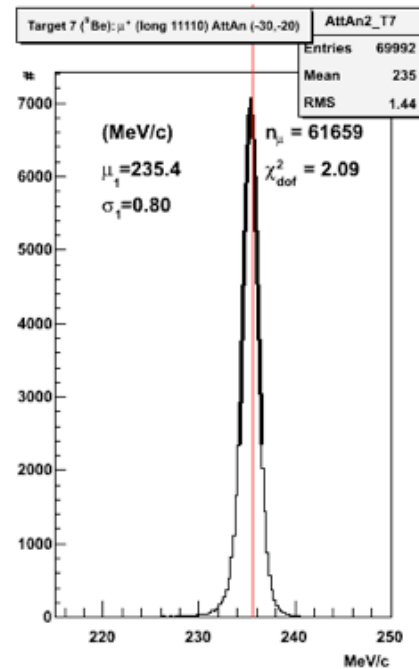
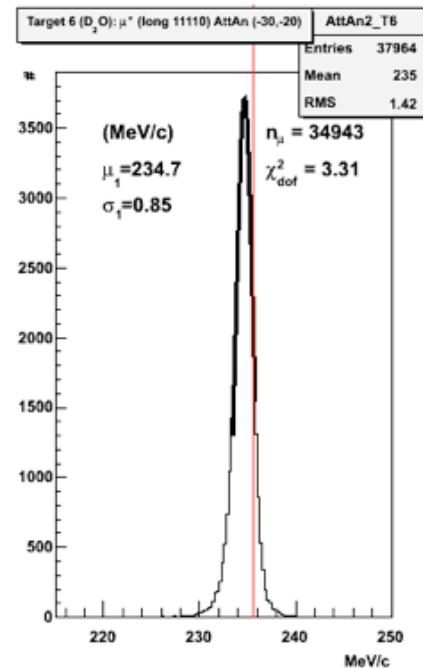
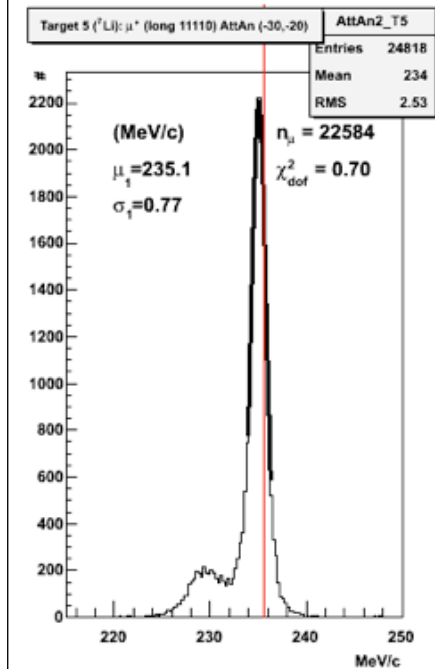
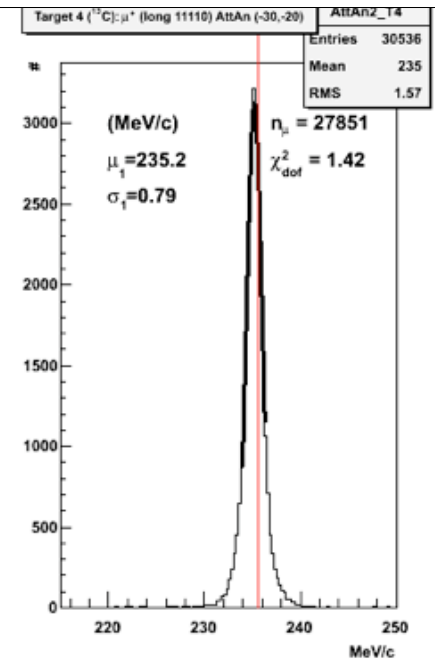
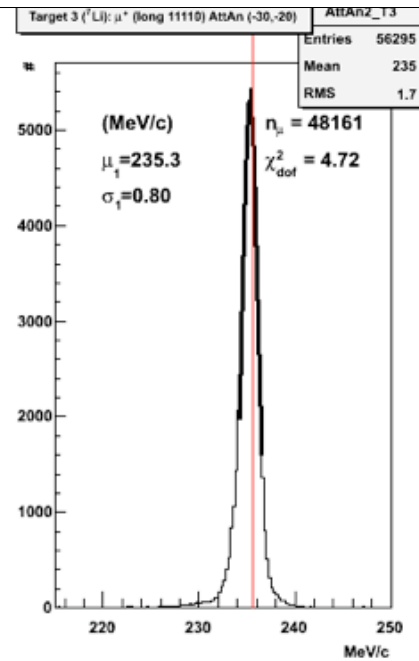
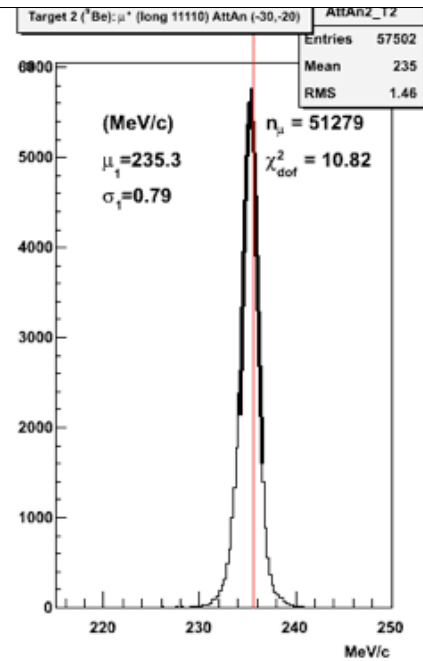
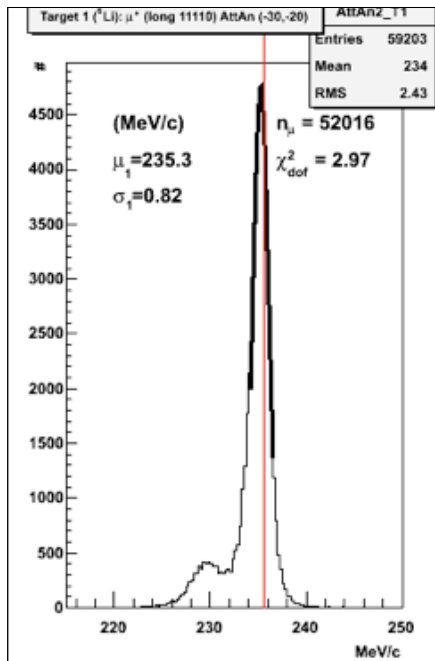




dipendenza dall'angolo di attacco







## conclusioni sulla risoluzione

- le risoluzioni sono migliorate rispetto alla produzione di dicembre  
(da ~0.95% a ~0.85% sui bersagli)
- le risoluzioni a fine presa dati sono peggiori di quelle ad inizio presa dati  
(da ~0.90% a ~0.80% sui bersagli)
- l'angolo di attacco ha un chiaro effetto sulle risoluzioni
- il numero di eventi è maggiore