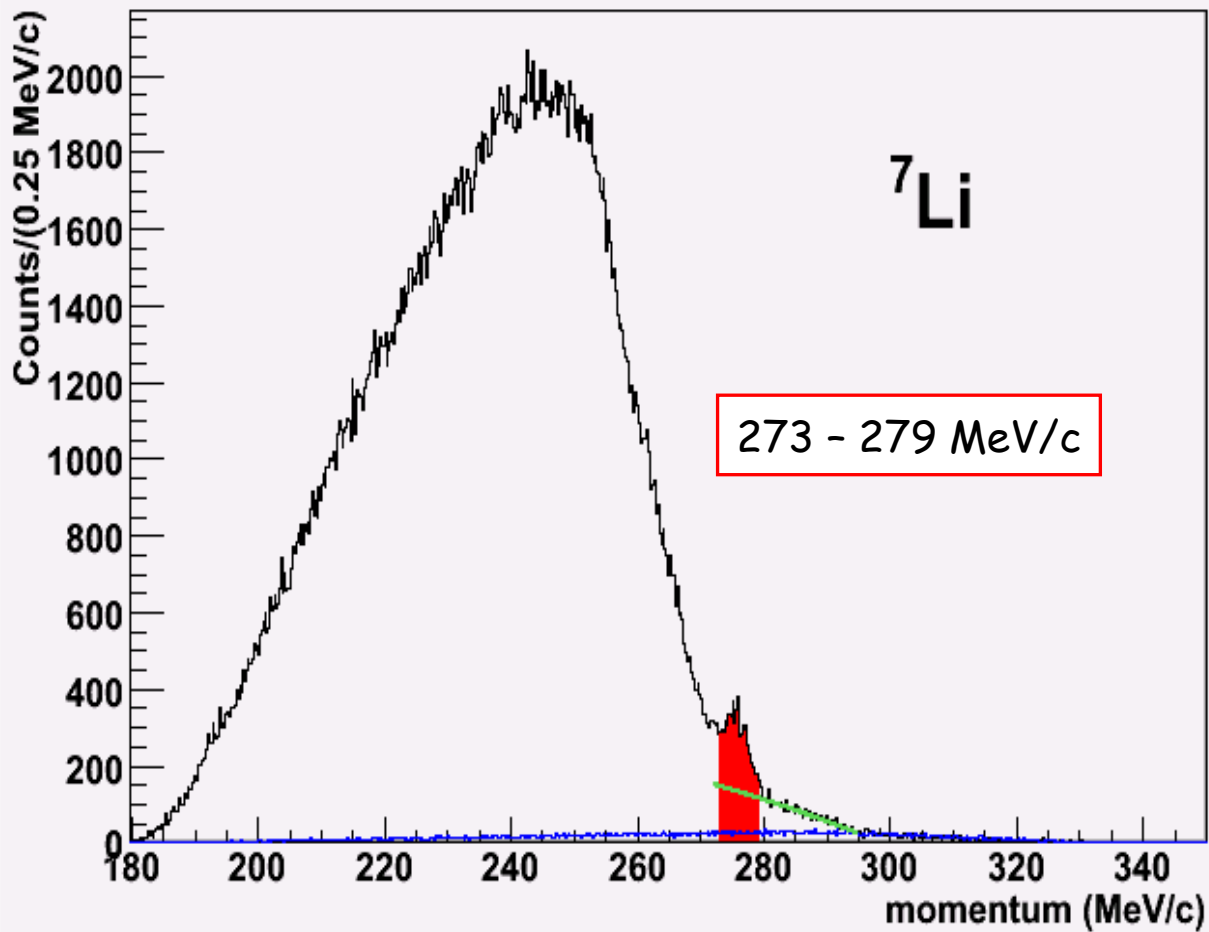


Stato dei lavori sullo studio dei Decadimenti Mesonico e Non-Mesonico



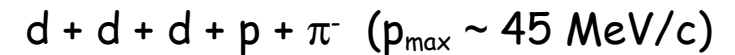
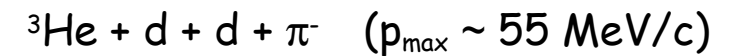
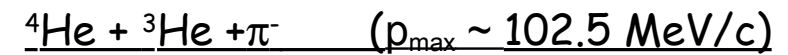
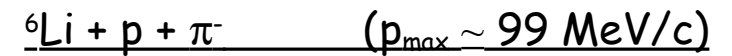
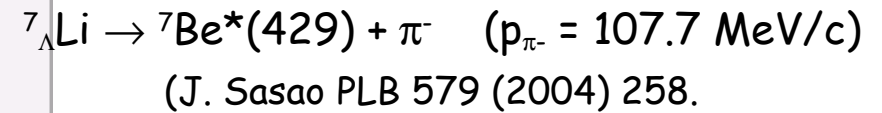
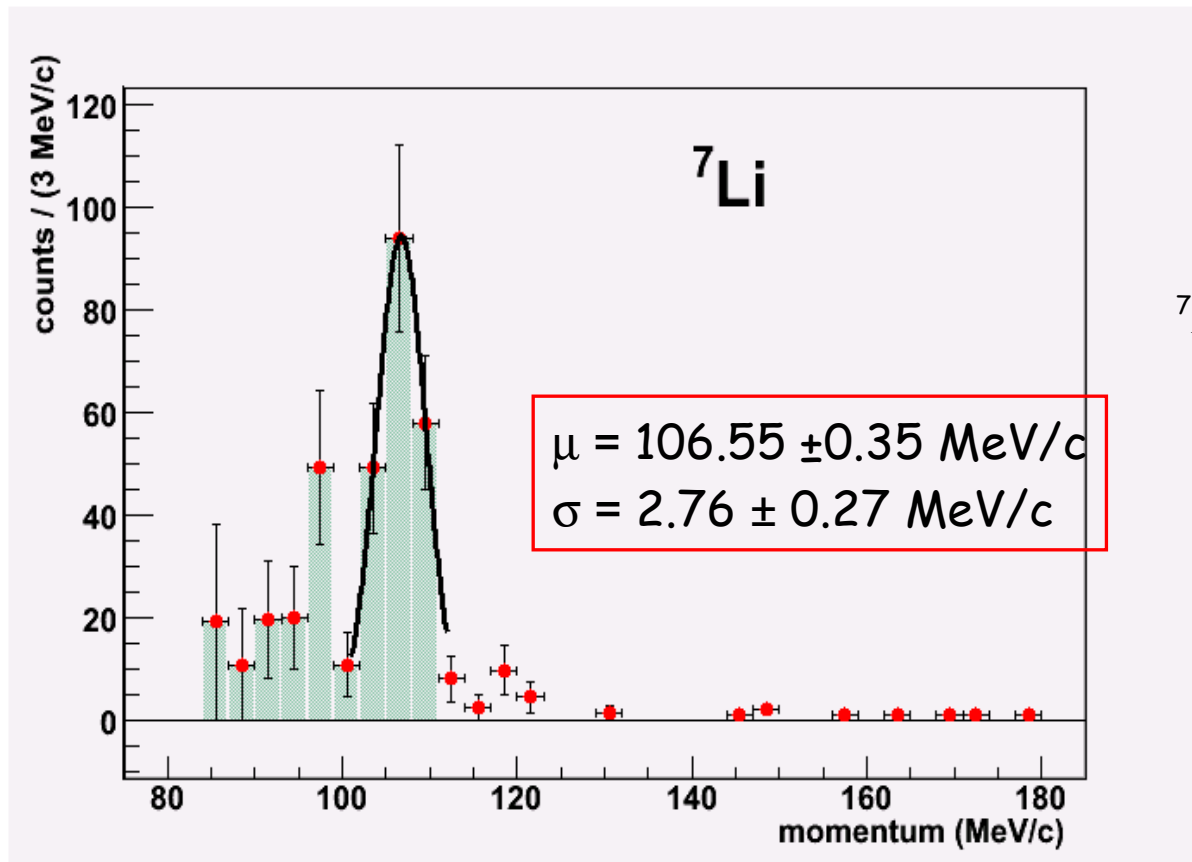
$(K^- + n \rightarrow \Lambda + \pi^-)$ su n del ${}^7\text{Li}$
 Λ "quasi free": 271.5 MeV/c

$K^- \rightarrow \mu^- + \nu_\mu$ (63%)

boost

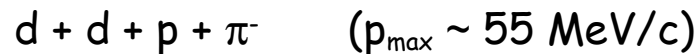
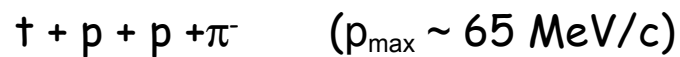
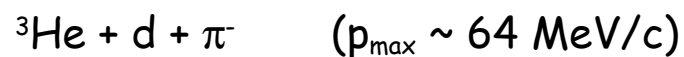
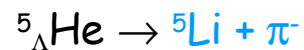
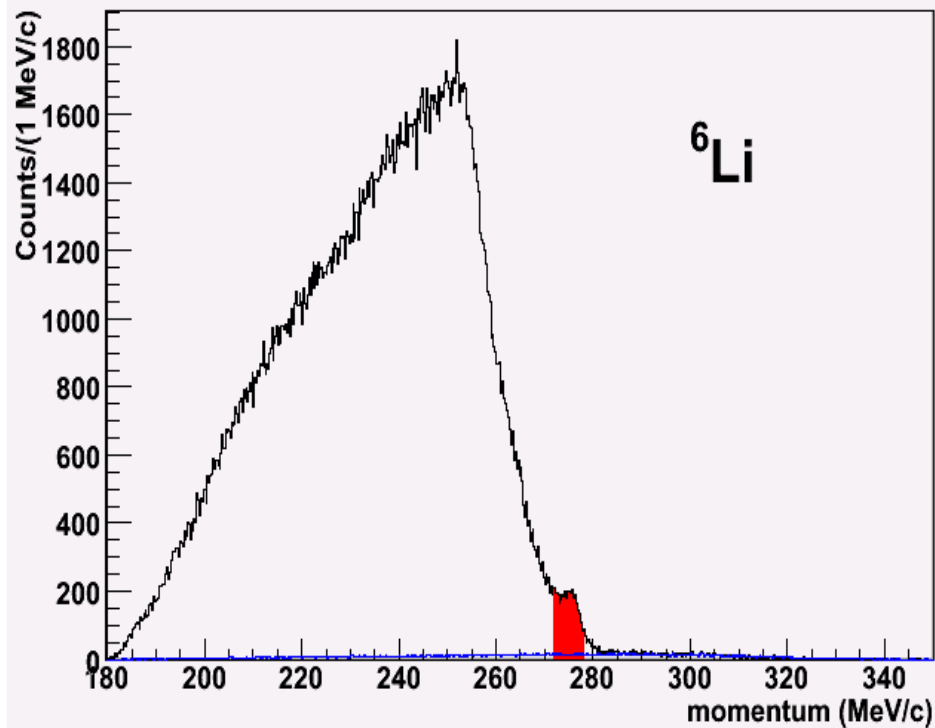
$K^- + (np) \rightarrow \Sigma^- + \pi^+$

$\Sigma^- \rightarrow n + \pi^-$

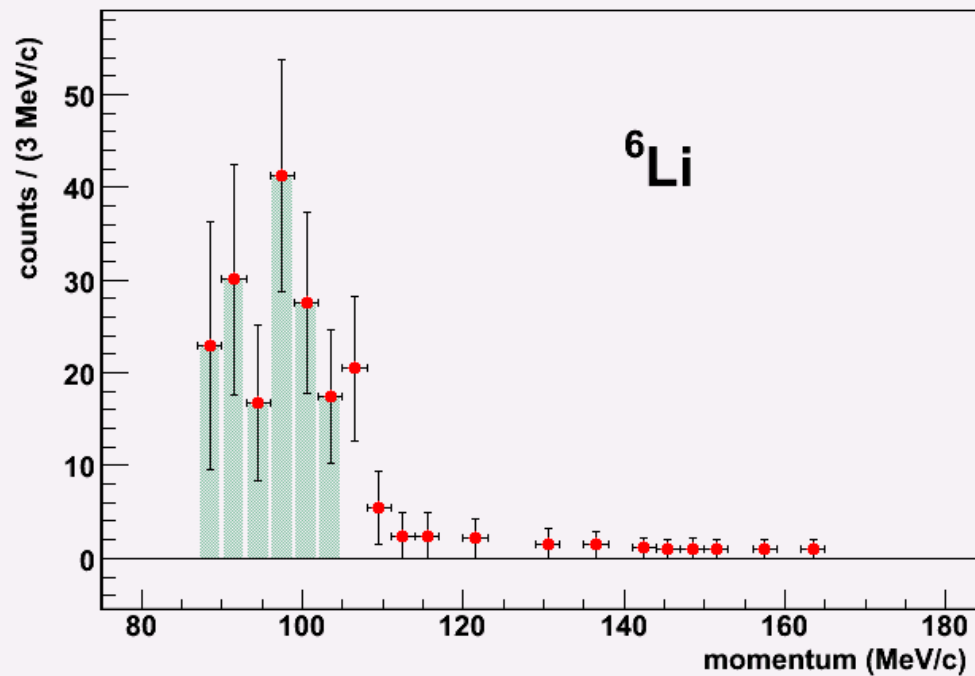


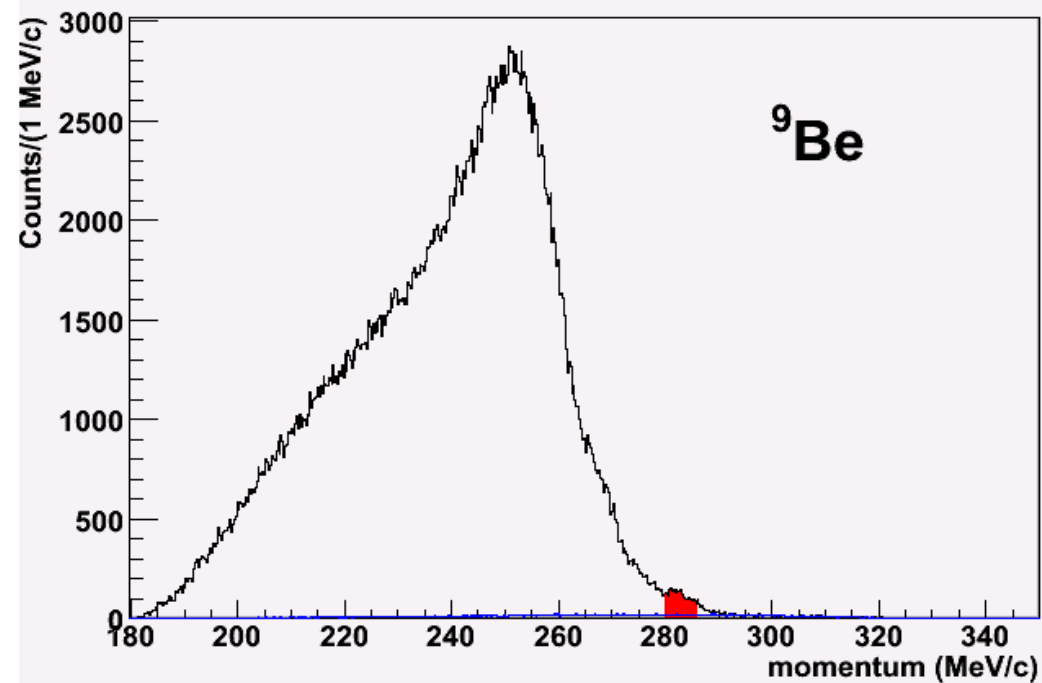
picco MWD 2B:

- 102 - 111 MeV/c
- fondo residuo sottratto
- conteggi (3σ): **207 ± 27**

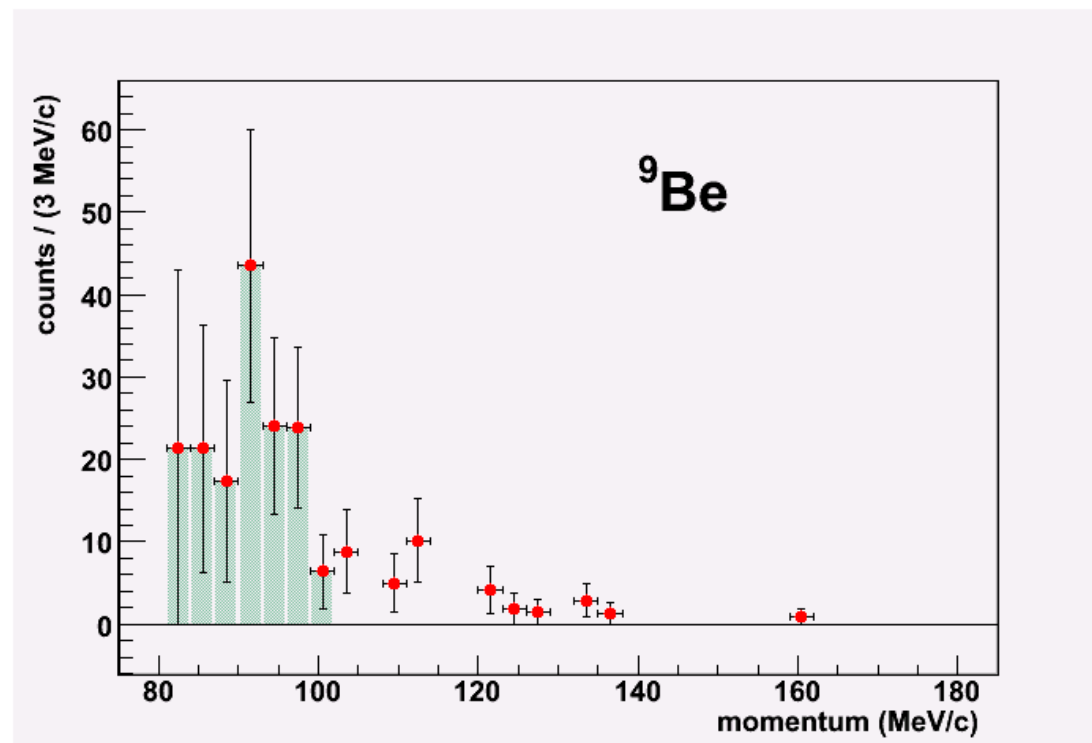


Graph





- ${}^9_{\Delta}\text{Be} \rightarrow {}^9\text{B} + \pi^-$
- ${}^8\text{B} + n + \pi^-$ ($p_{\text{max}} \sim 61 \text{ MeV/c}$)
- ${}^8\text{Be} + p + \pi^-$ ($p_{\text{max}} \sim 98.5 \text{ MeV/c}$)
- ${}^7\text{Be} + d + \pi^-$ ($p_{\text{max}} \sim 66 \text{ MeV/c}$)
- ${}^7\text{Li} + p + p + \pi^-$
- ${}^6\text{Li} + d + p + \pi^-$
- ${}^5\text{Li} + d + d + \pi^-$
- ${}^4\text{He} + {}^4\text{He} + p + \pi^-$ ($p_{\text{max}} \sim 98.5 \text{ MeV/c}$)



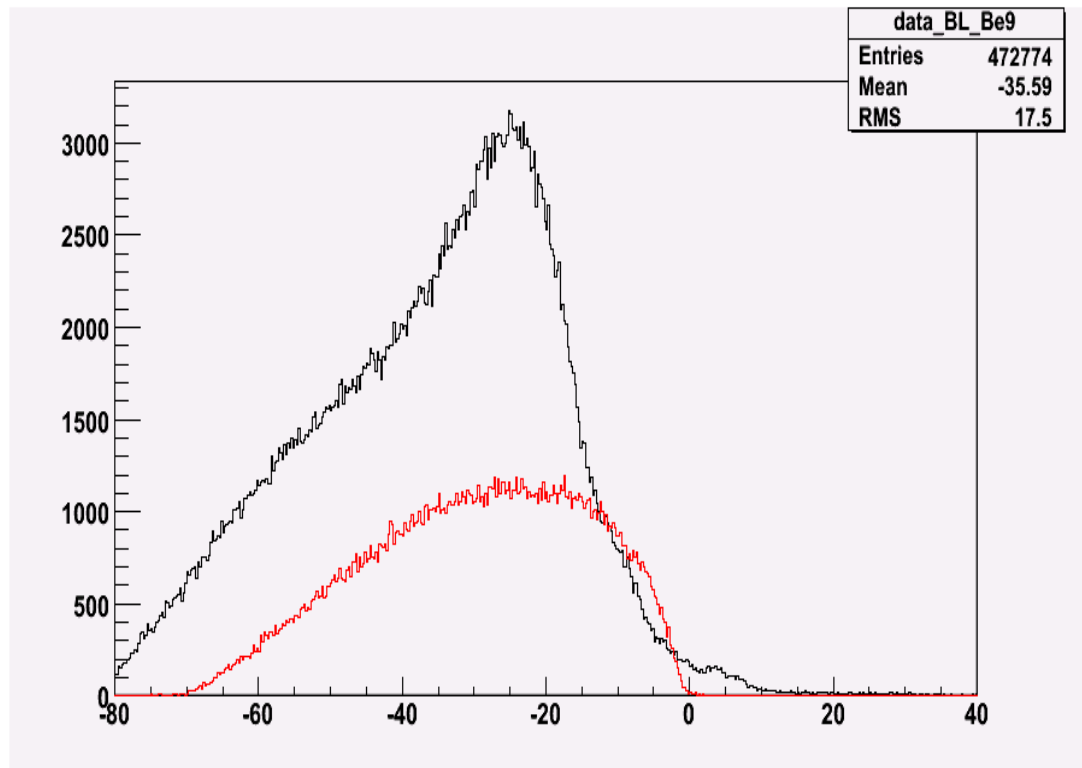
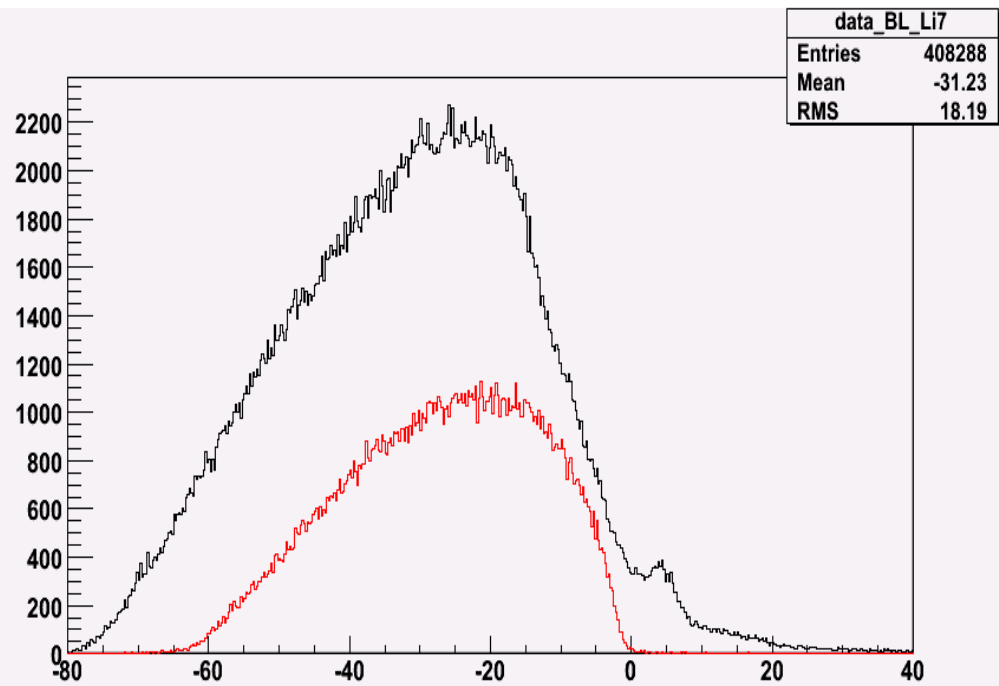
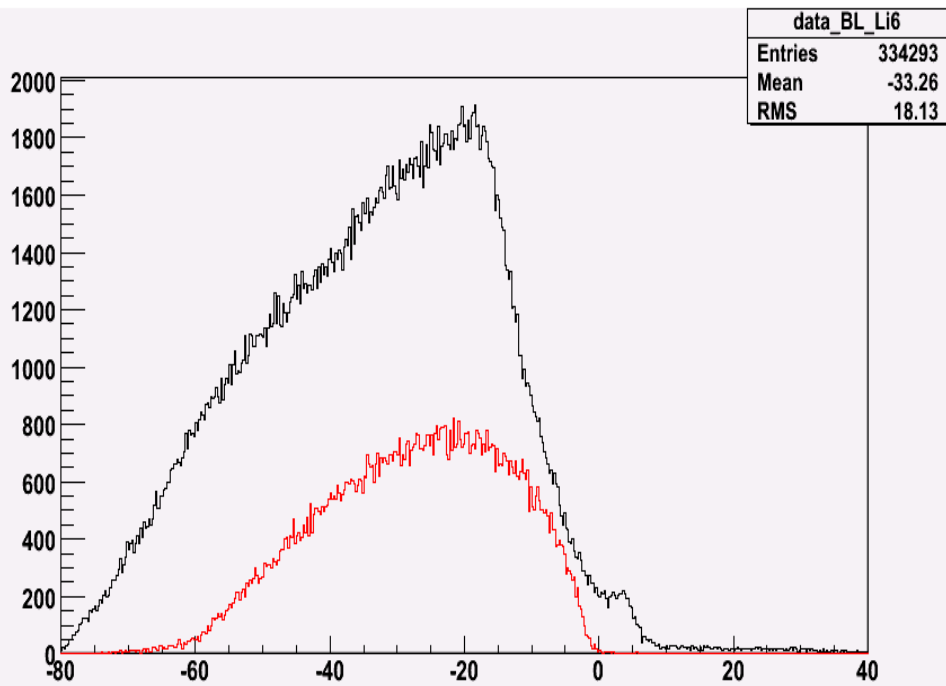
Ratei di decadimento

${}^5_{\Lambda}\text{He}$	$A=149\pm 27$ (87-105 MeV/c)	$B=3842\pm 66$	$B.R.=0.0388\pm 0.0070$
	874 ± 157 (0-105 MeV/c)		0.227 ± 0.041

Szymanski PRC 43(1991) 849 B.R.= 0.43 ± 0.11 } B.R. π^- tot solo ${}^4\text{He} + p + \pi^-$
Kameoka NPA 754(2005) 173 B.R.= 0.359 ± 0.009

${}^7_{\Lambda}\text{Li}$	$A=207\pm 27$ (102-111 MeV/c)	$B=3740\pm 119$	$B.R.=0.0555\pm 0.0075$
	118 ± 37 (84-102 MeV/c)	Sasao PLB 579 (2004) 258 B.R. (${}^7\text{Be}^*(429) + \pi^-$) = $(6.0^{+1.3}_{-1.6}) \cdot 10^{-2}$	0.032 ± 0.010
	320 ± 41 (84-111 MeV/c)	$3B$	0.086 ± 0.011
		$2B+3B$	

${}^9_{\Lambda}\text{Be}$	$A=146\pm 37$ (81-102 MeV/c)	$B=2373\pm 54$	$B.R.=0.061\pm 0.016$
			prima misura



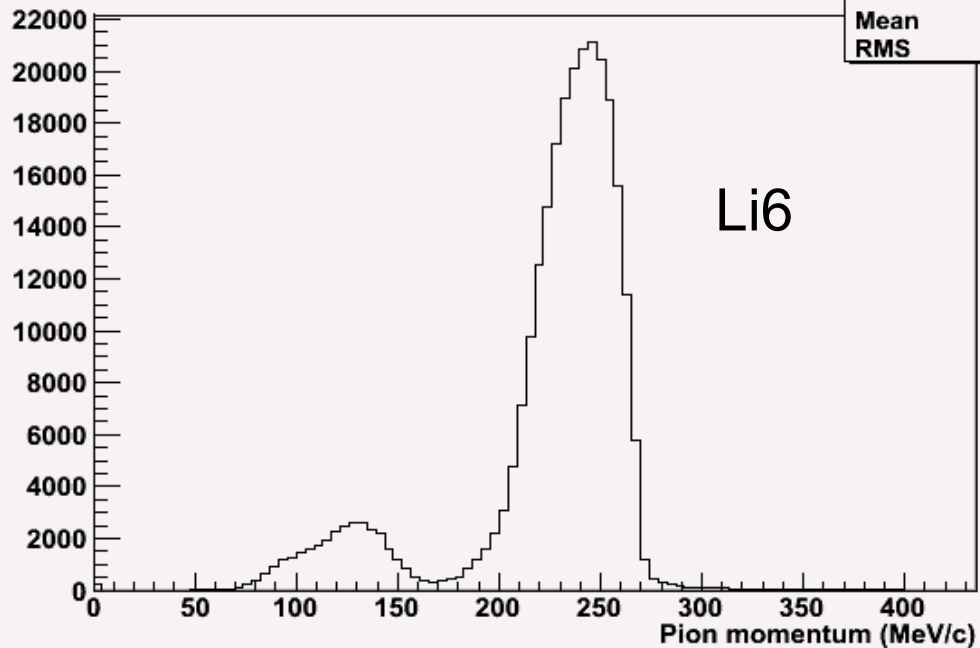
End point della simulazione OK

ma la forma soprattutto nel caso del 9Be NO

Normalizzazione?

Pmodmin*1000 {Pmodmin<0.4&&Pidmin==9&&(Ntarmin==1||Ntarmin==8)}

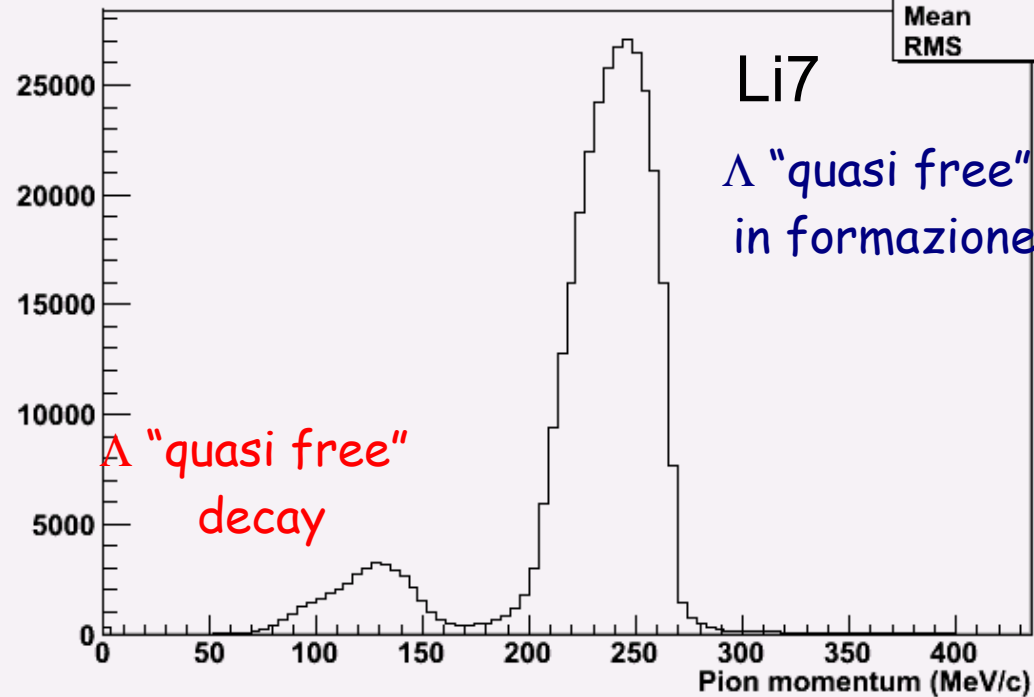
htemp	
Entries	264073
Mean	224.5
RMS	42.6

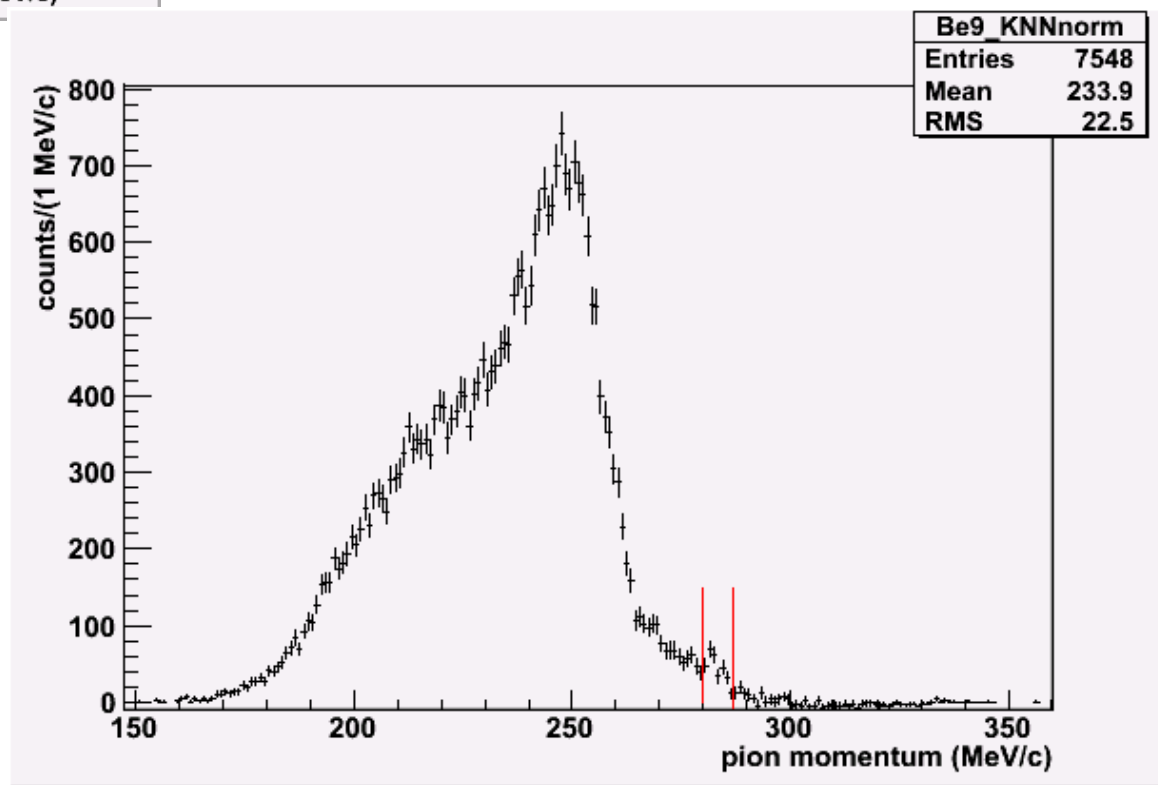
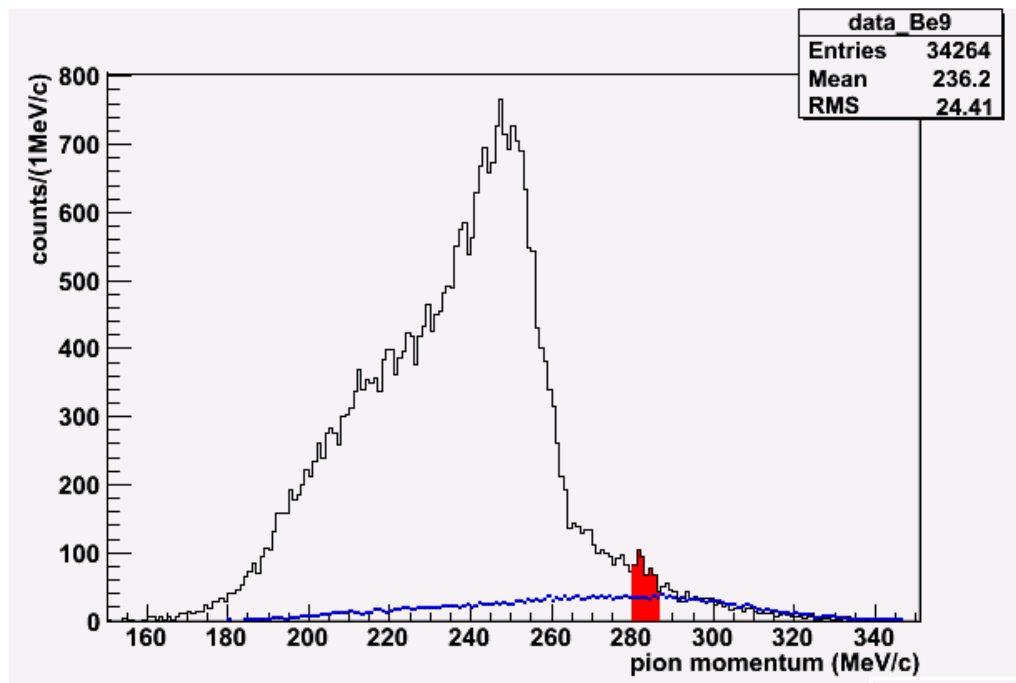


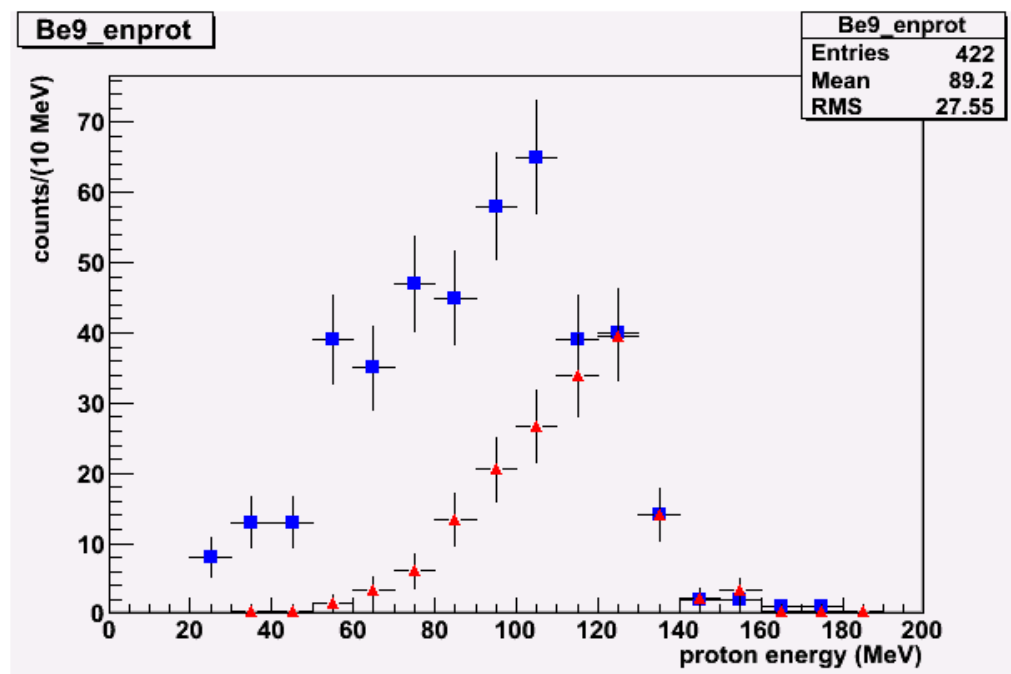
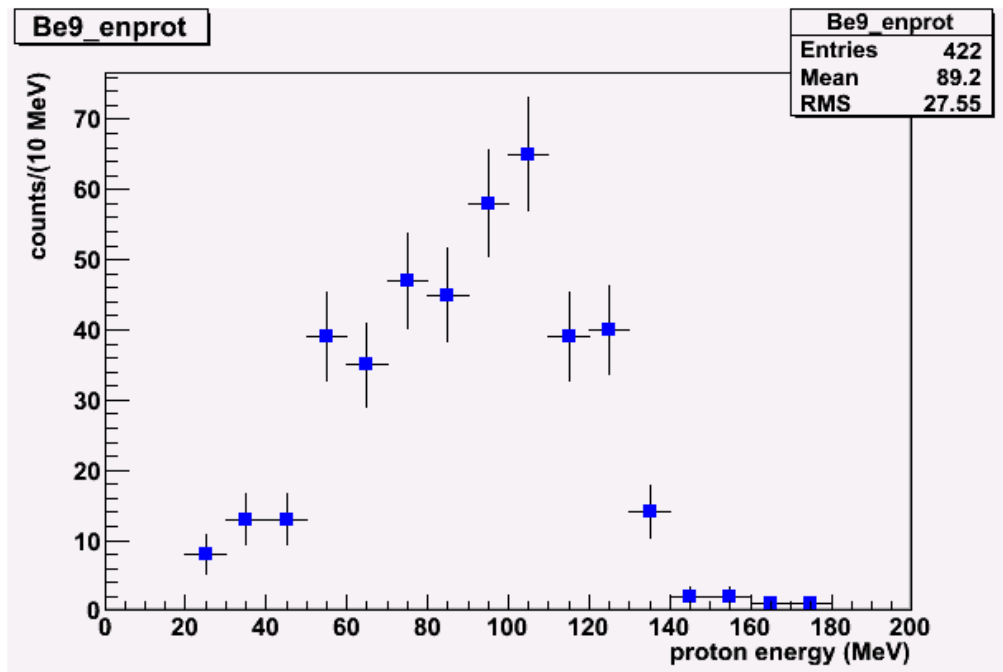
Λ "quasi free": formazione e decadimento
valutazione del fondo negli spettri di pioni
corti dal decadimento mesonico

Pmodmin*1000 {Pmodmin<0.4&&Pidmin==9&&(Ntarmin==3||Ntarmin==5)}

htemp	
Entries	335675
Mean	226.4
RMS	41.17

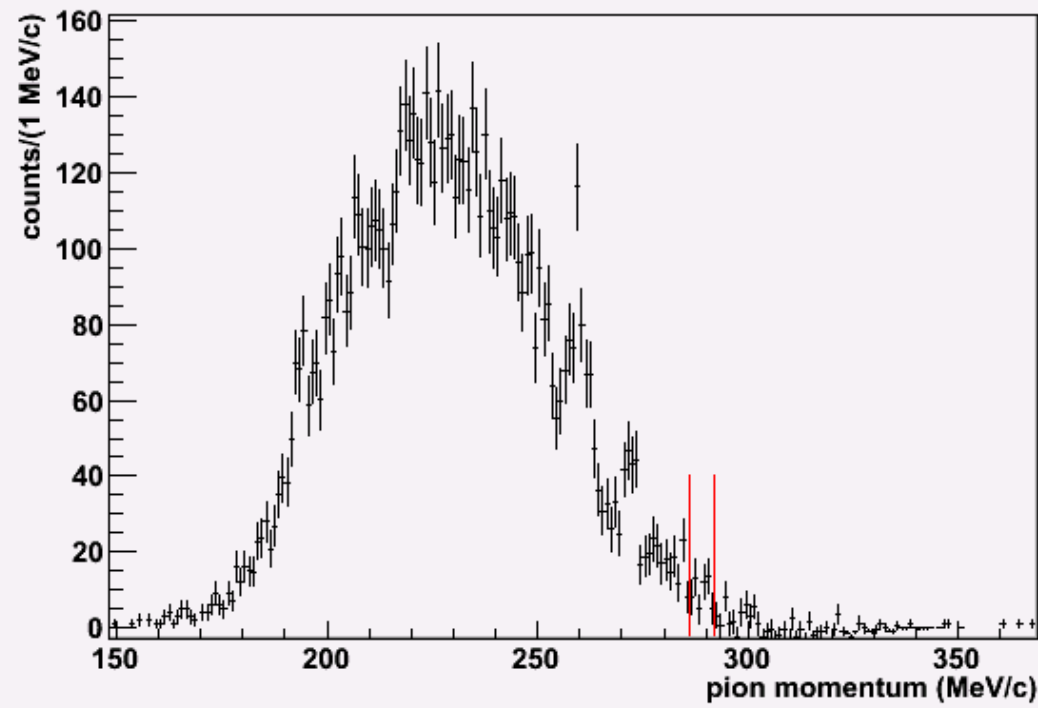
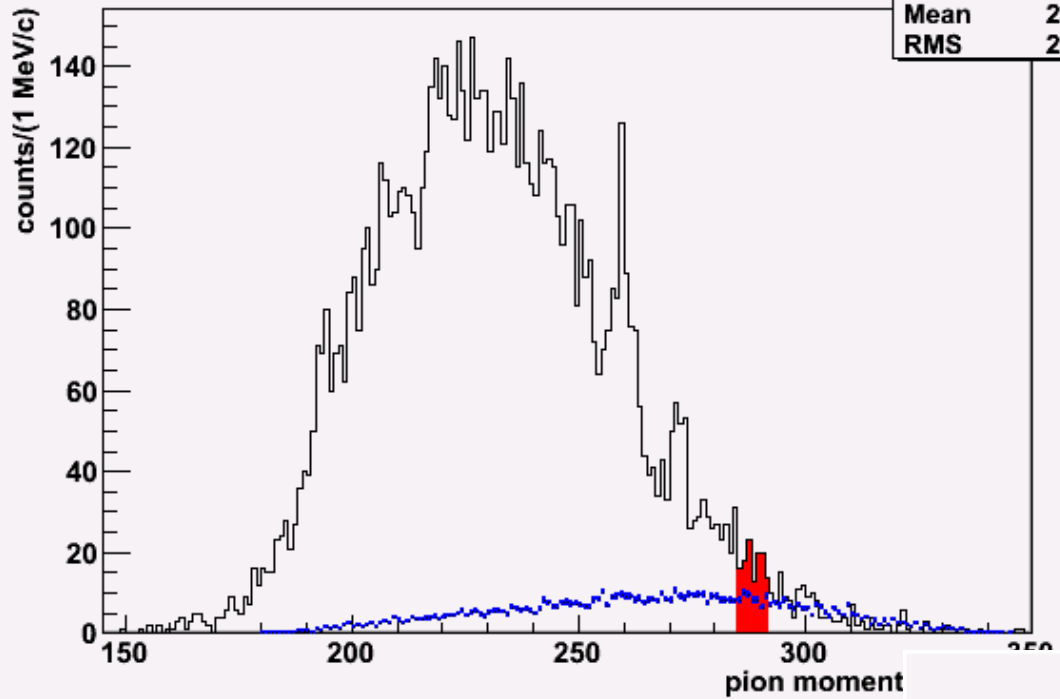


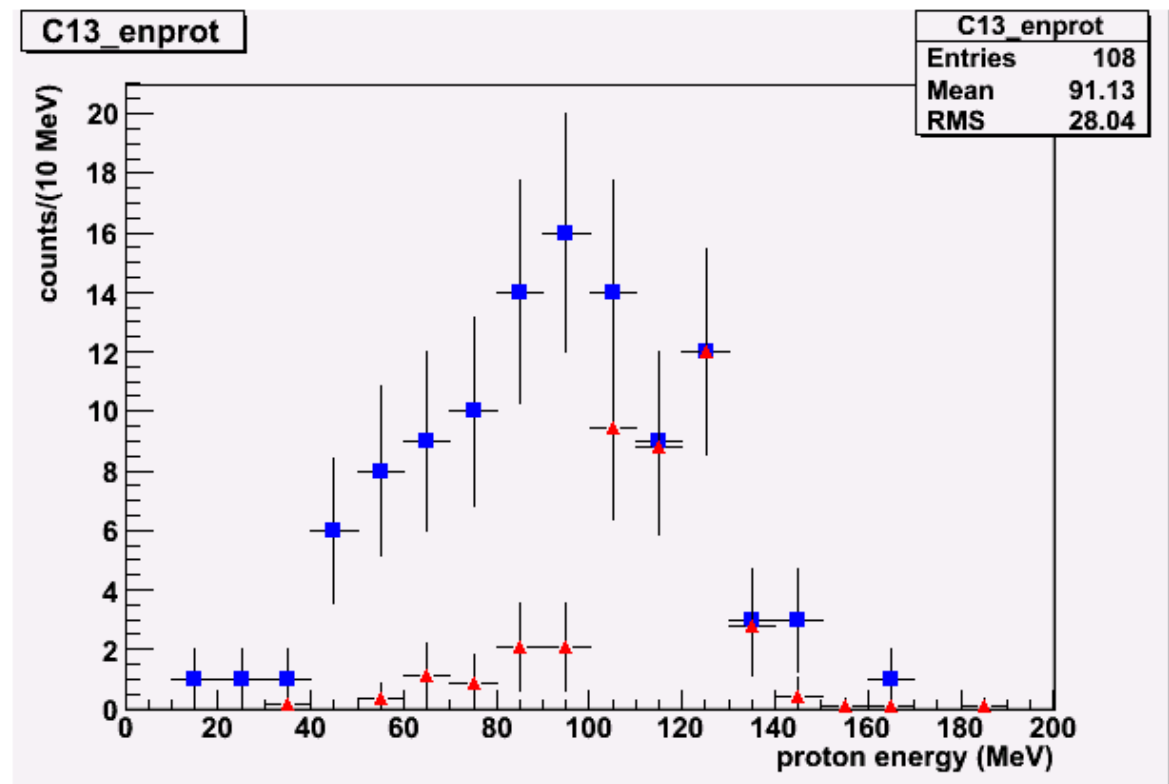
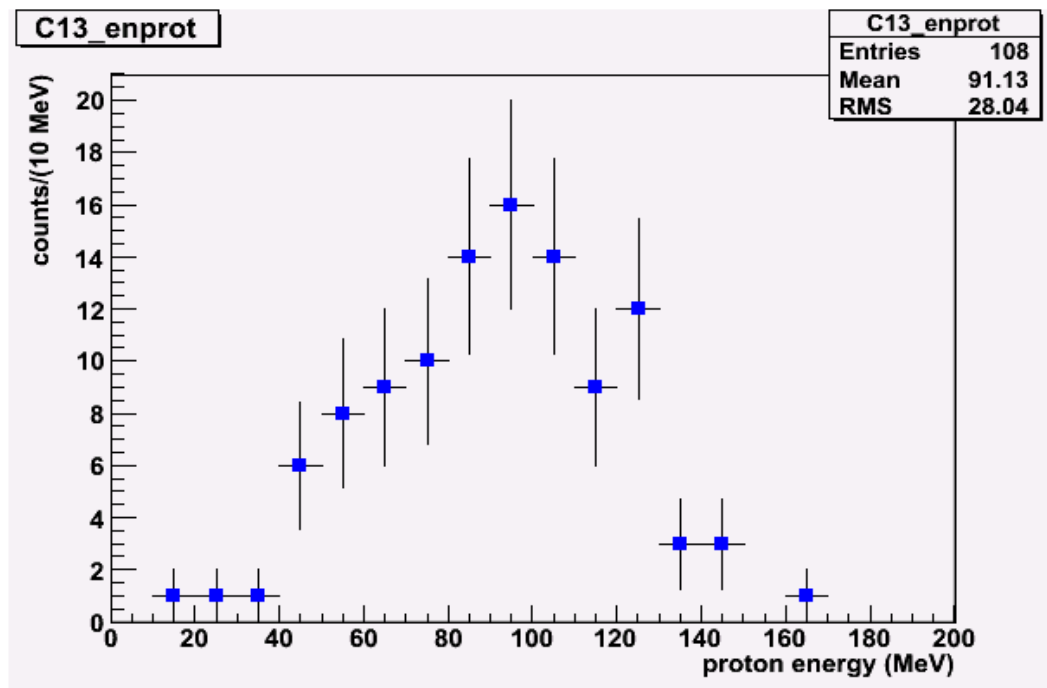


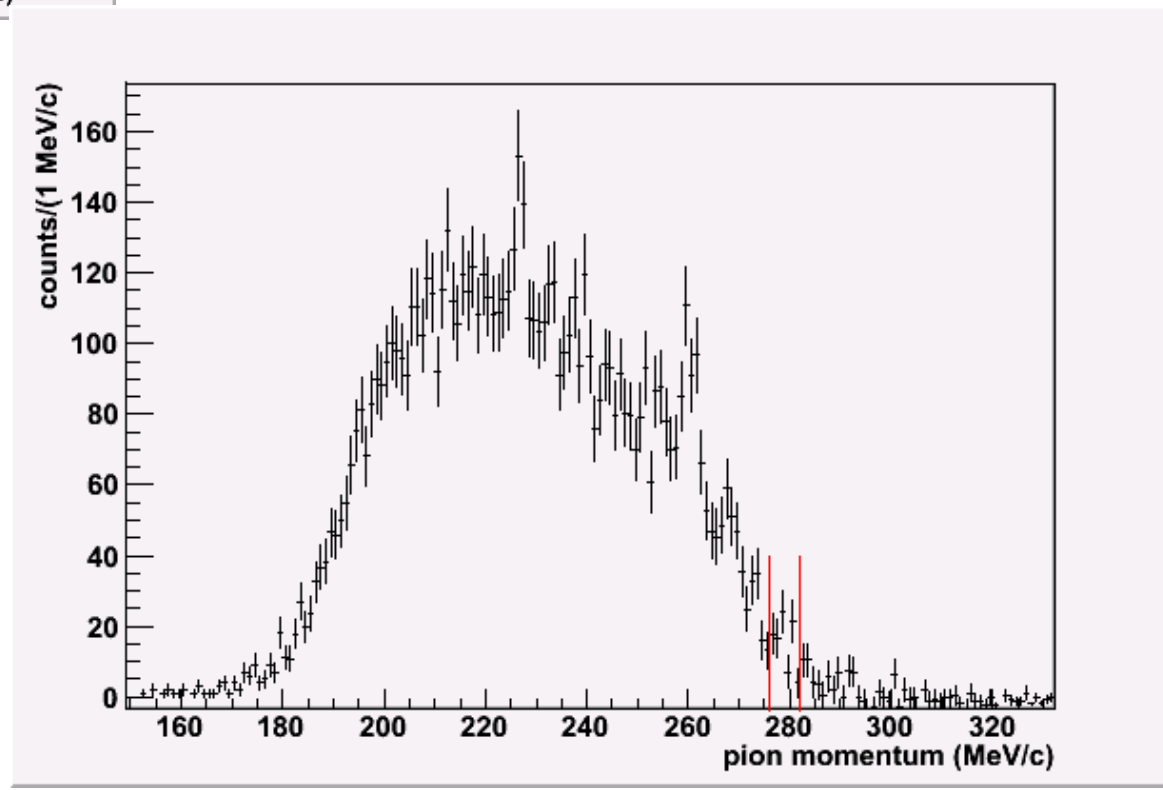
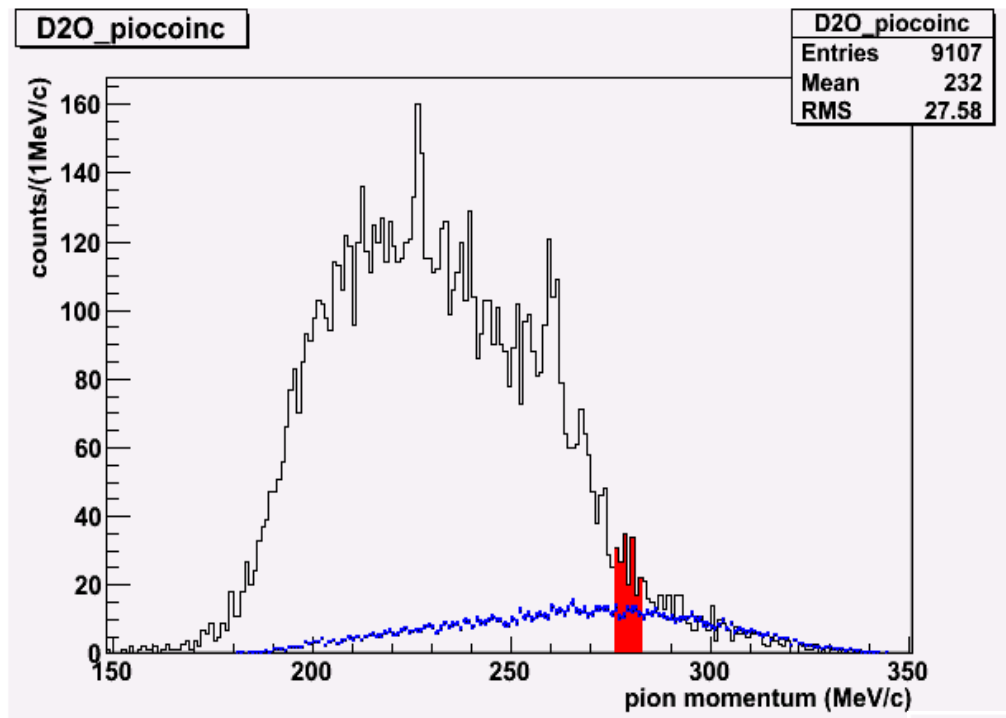


C13_piocoinc

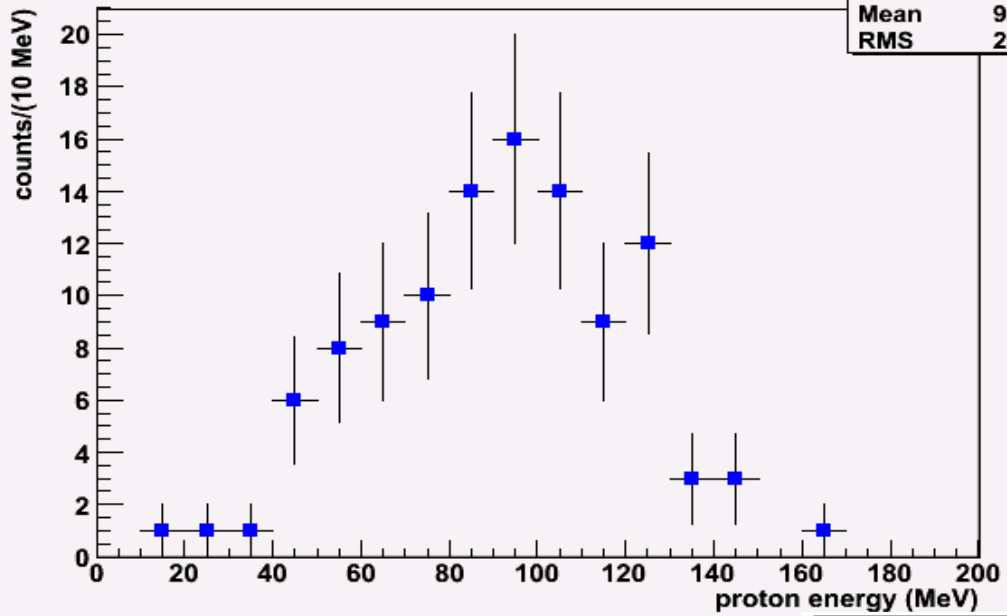
C13_piocoinc	
Entries	9013
Mean	231.9
RMS	26.84







C13_enprot



C13_enprot

