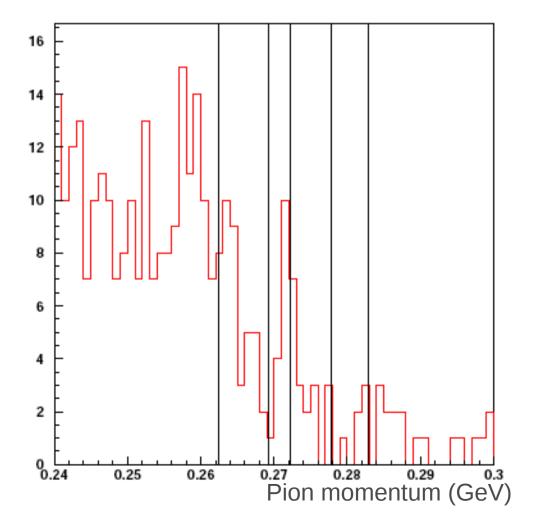
# Frascati analysis status

Main duty – Silicon Hypernuclear spectra
 Please note that the plot of silicon spectrum presented in the LOI to the referees was the sum of 2003 & 2007 data taking. Naturally the 2003 set was effected by the wrong geometry in the reconstruction (I used production December 2003). In the following I do not consider 2003 data sample until the problem will be fixed.

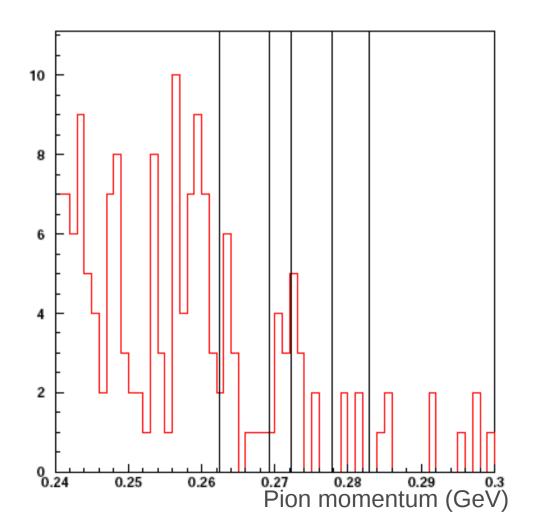
Other tasks
 Charge Exchange

Silicon spectra 1/3

- Silicon spectrum from latest production
  - <u>STOPMIN = 2</u> to select silicon stop
  - $\pi^-$  spectrum with a proton in coincidence

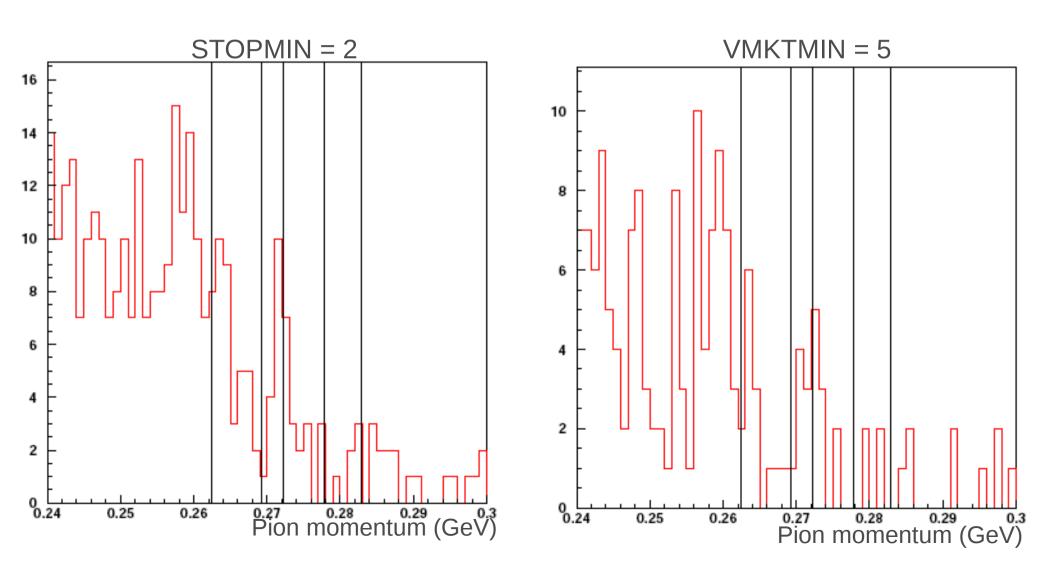


- Silicon spectra 2/3
   Silicon spectrum from latest production
  - VMKTMIN = 5 to select silicon stop
  - $\pi^-$  spectrum with a proton in coincidence



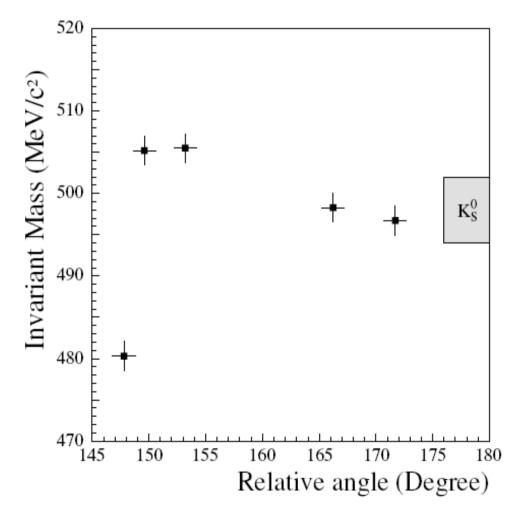
# Silicon spectra 3/3

As requested we tried to evaluate to efficiency of VMKTMIN in selecting silicon events. At the moment it still seems to be worst then STOPMIN=2.....



### Charge Exchange

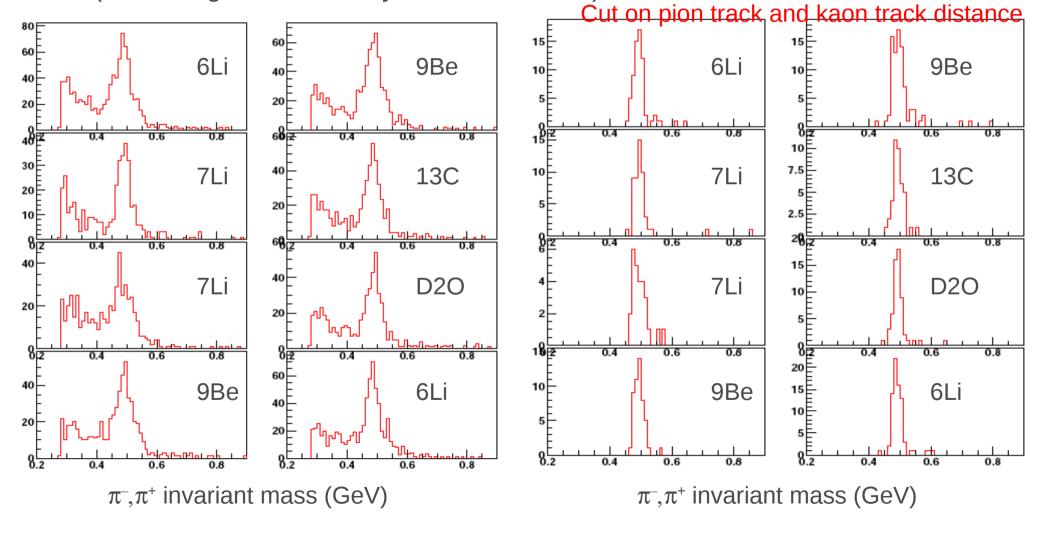
- First step try to reproduce the results of PLB
- With the 2003 data sample with do not found events in the signal region...So we fix an upper limit



# Charge exchange

Production December 2007

(not enough time to analyze the latest one)



# Charge exchange

- Few events now are inside the signal region....
- More detailed and accurate studies now are needed to better understand them....

