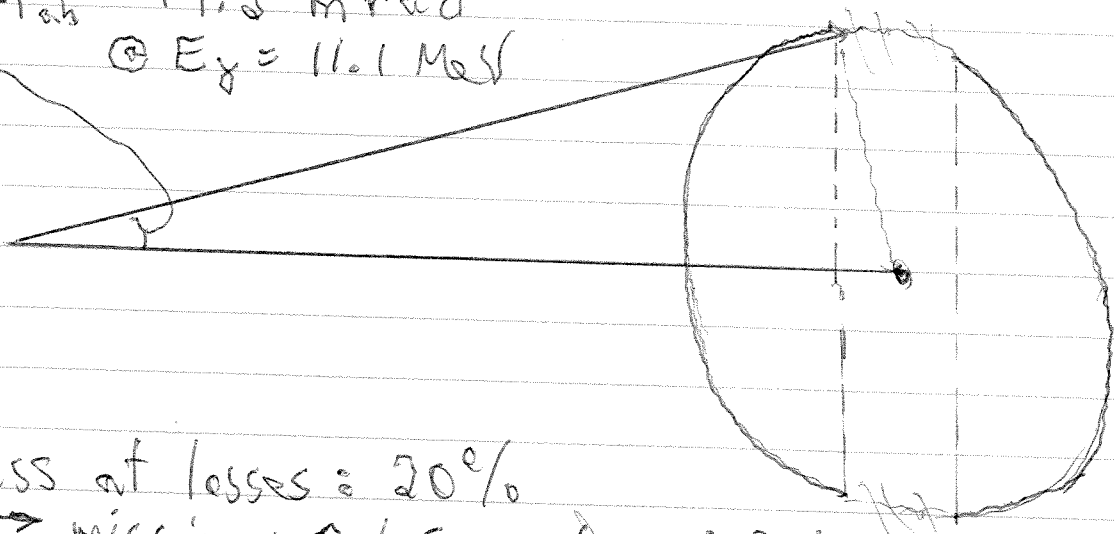


$\rightarrow \frac{\Delta E}{E} = 7\% \text{ FW, We see } \approx 8\%$

$\rightarrow \theta_{\text{lab}}^{\text{max}} = 17.5 \text{ mrad}$
 $\textcircled{+} E_y = 11.1 \text{ MeV}$



Guess at losses: 20%

\rightarrow missing $-0.1 \leq \cos \theta_{\text{cm}} \leq 0.1$

\rightarrow missing $\sin \theta_{\text{cm}} > 0.995$

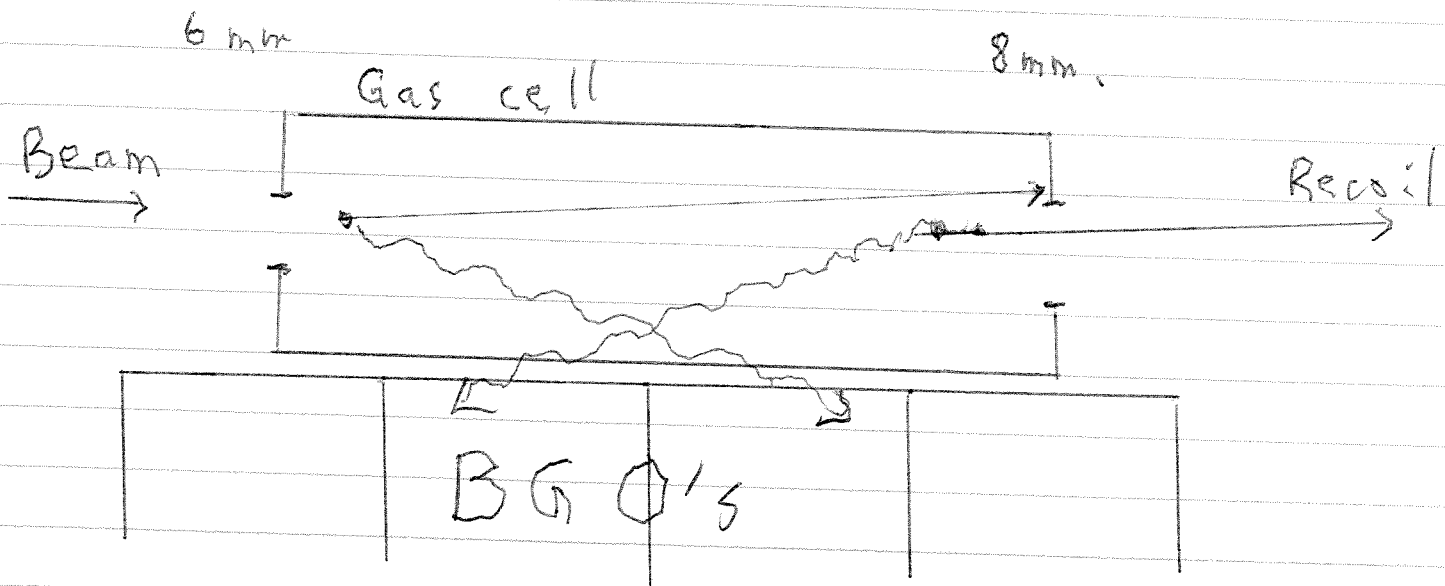
But this gets smeared by

- beam angle spread ($\sim \pm 2.5 \text{ mrad}$)

- beam spot size ($\sim \pm 1 \text{ mm}$)?

- mult. scatt.

- details of DRAGON acceptance

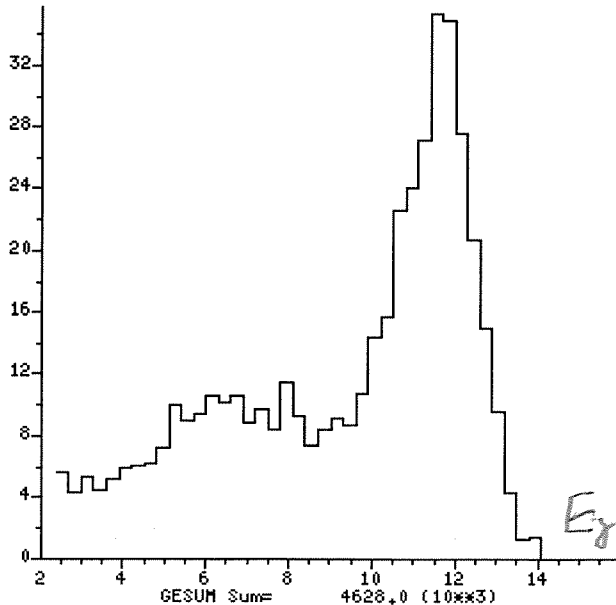
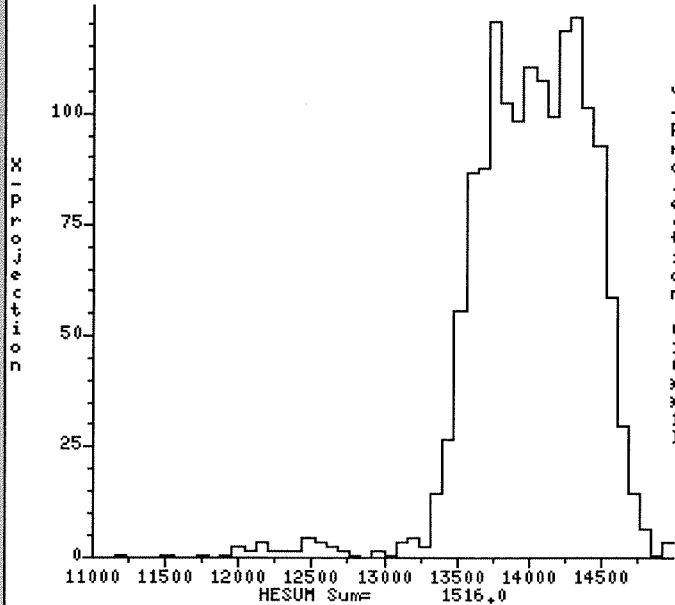
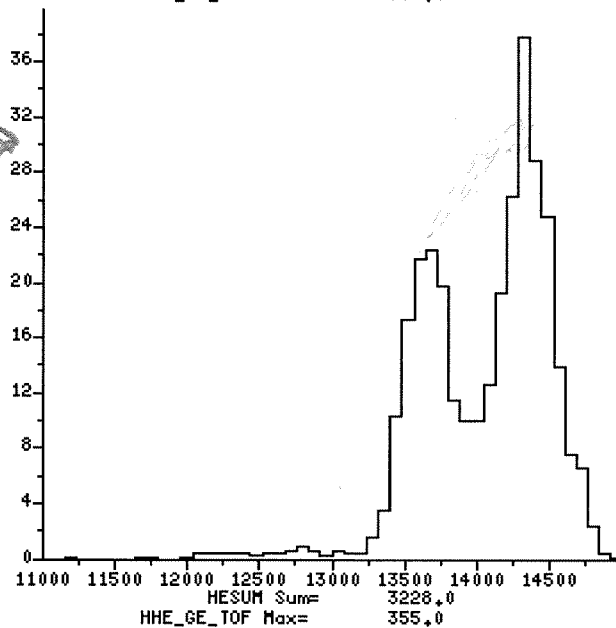
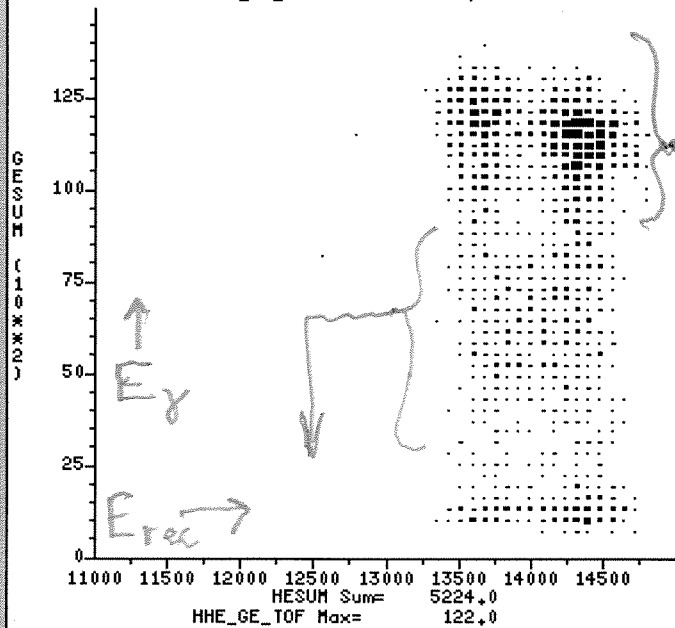


Nova Plot Window

Run # 8438
HHE_GE_TOF Max= 53.0

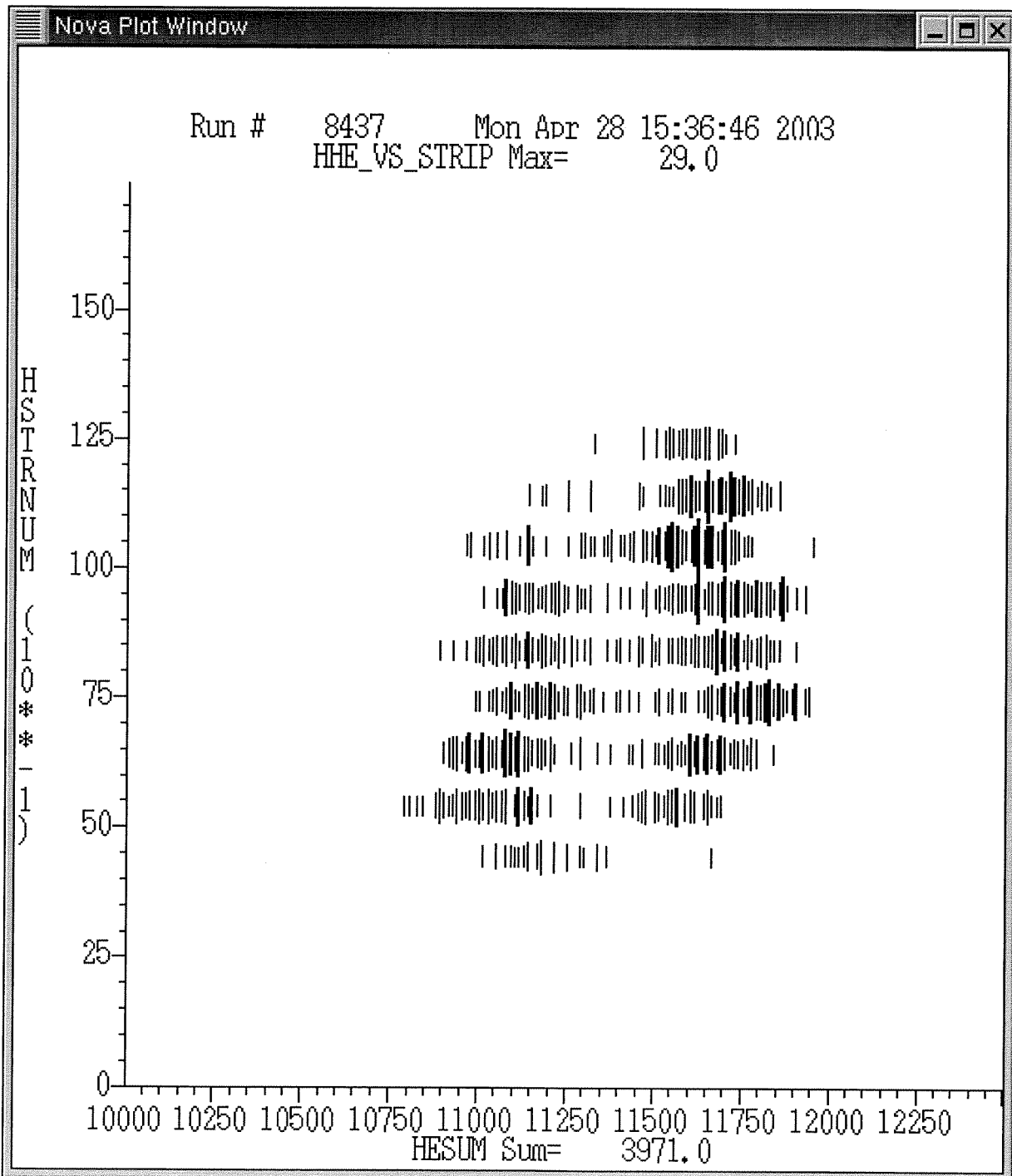
Mon Apr 28 11:26:46 2003

HHE_GE_TOF Max= 380.0

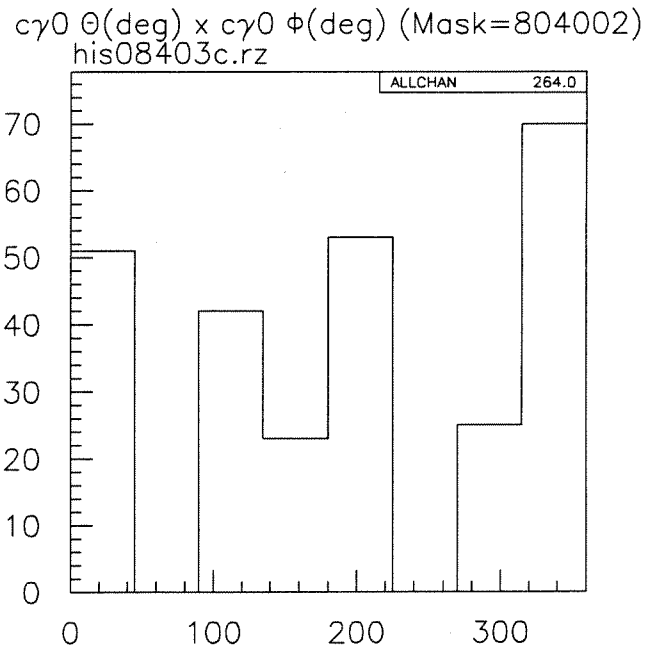
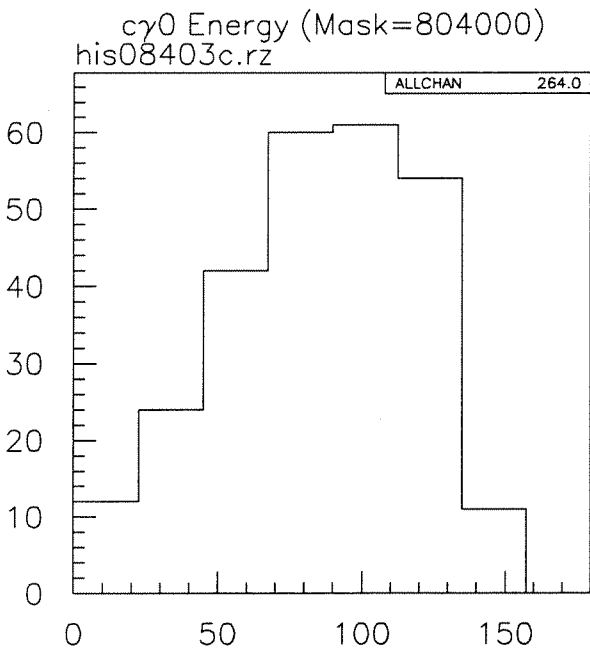
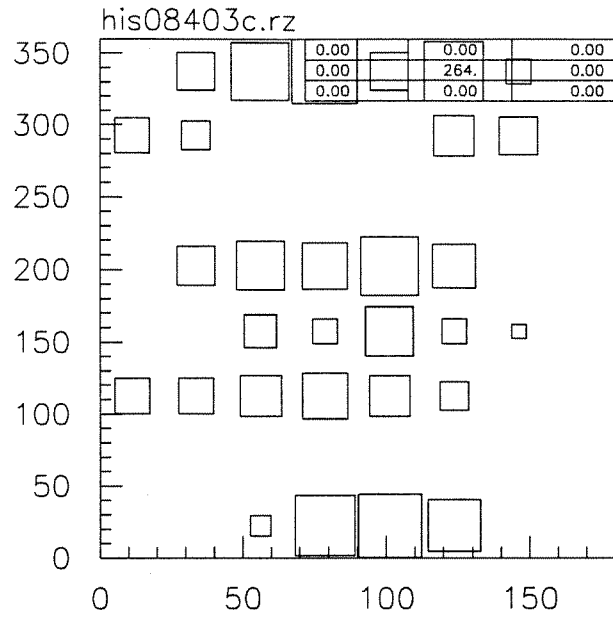
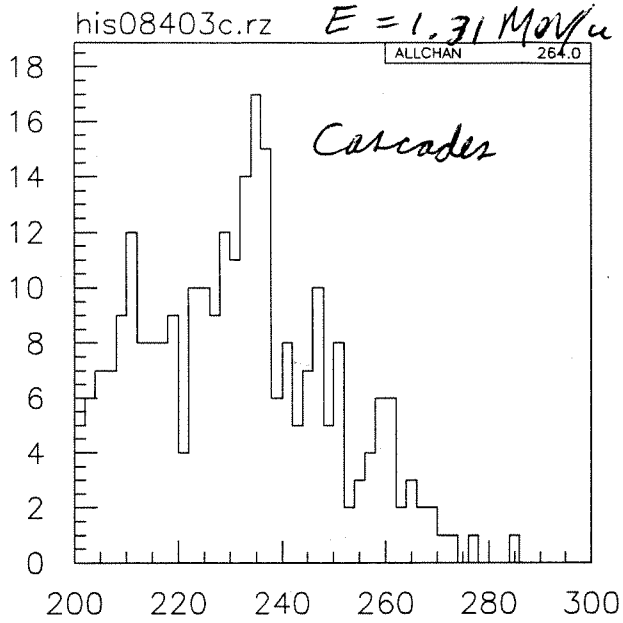


11.094 → $\gamma_2 = 3.1 \pm 0.3$ meV
 $\gamma_3 = 2.5 \pm 0.6$ meV

10.356 $\gamma_0 < 0.4$ meV
 $\gamma_3 = 6.2 \pm 0.6$ meV



$^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Offline Analysis

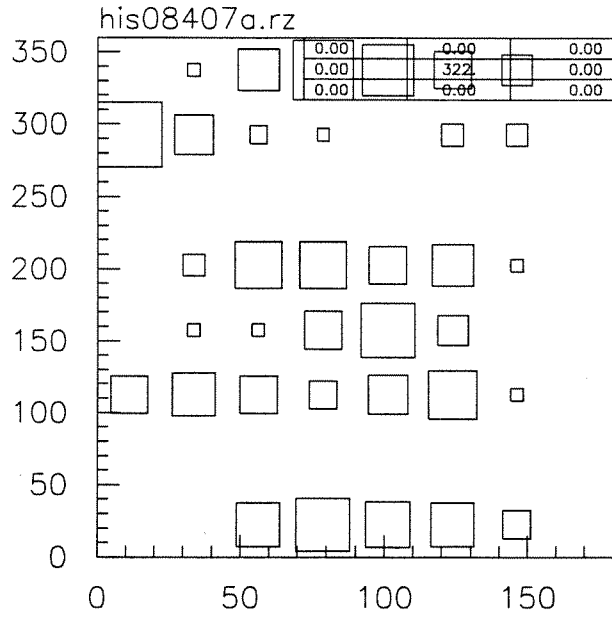
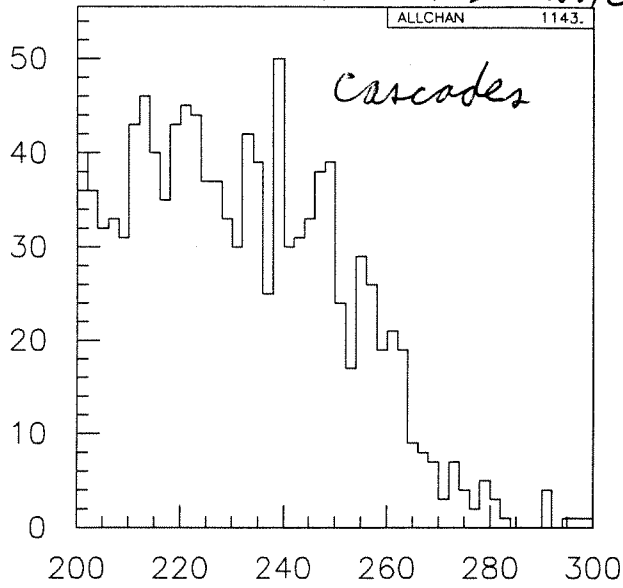


$\text{c}\gamma 0$ $\theta(\text{deg}) \times \text{c}\gamma 0$ $\phi(\text{deg})$ (Mask=804002)

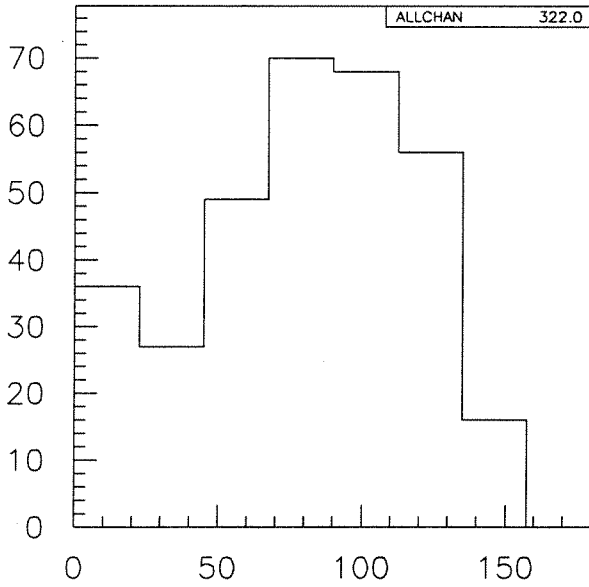
$\text{c}\gamma 0$ $\phi(\text{deg})$ (Mask=804002)

$^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Offline Analysis

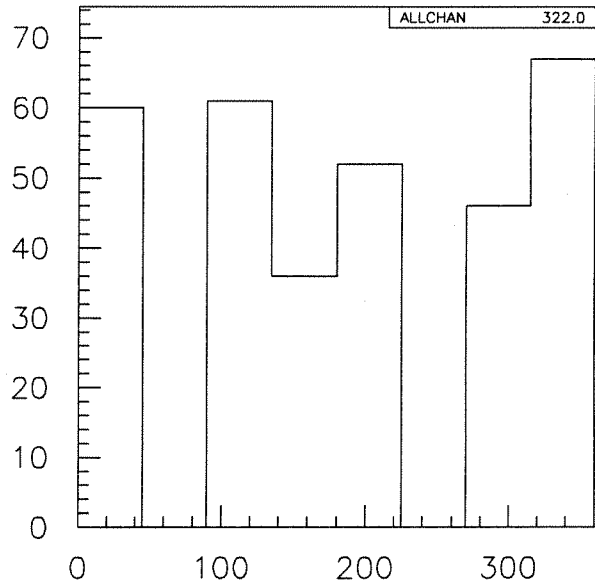
his08407a.rz $E = 1.32\text{MeV/c}$



γ_0 Energy (Mask=804000)
his08407a.rz



γ_0 $\theta(\text{deg}) \times \gamma_0$ $\phi(\text{deg})$ (Mask=804002)
his08407a.rz



γ_0 $\theta(\text{deg}) \times \gamma_0$ $\phi(\text{deg})$ (Mask=804002)

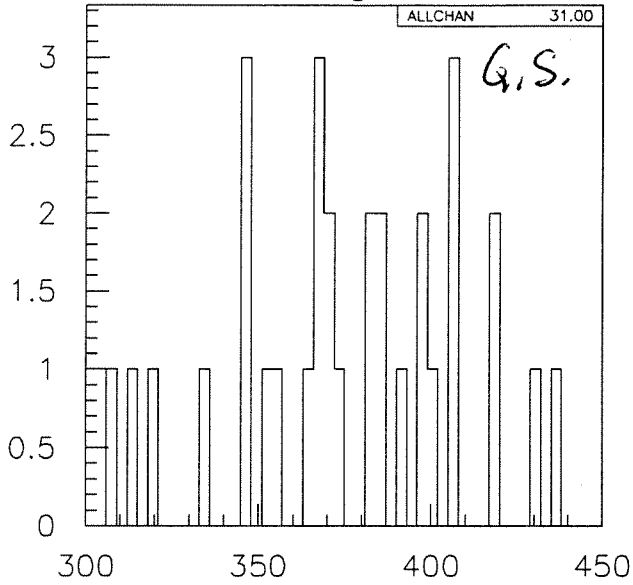
γ_0 $\phi(\text{deg})$ (Mask=804002)

$^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Offline Analysis

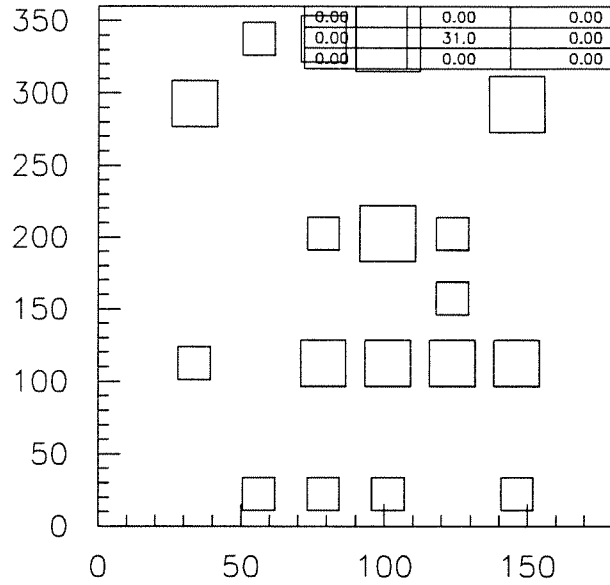
his08403d.rz

$E = 1.31$

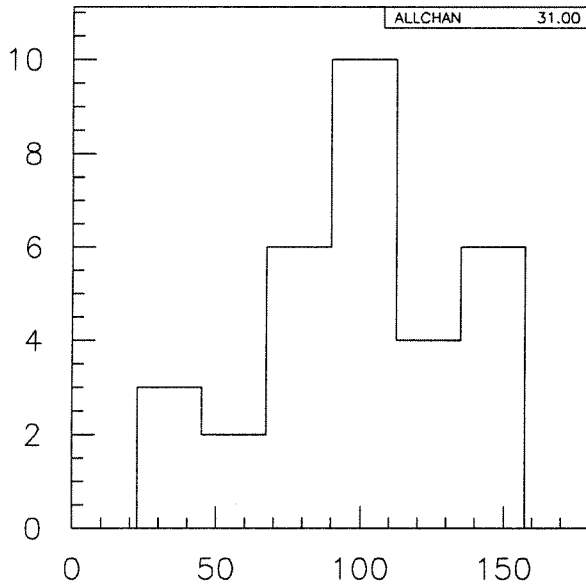
G.S.



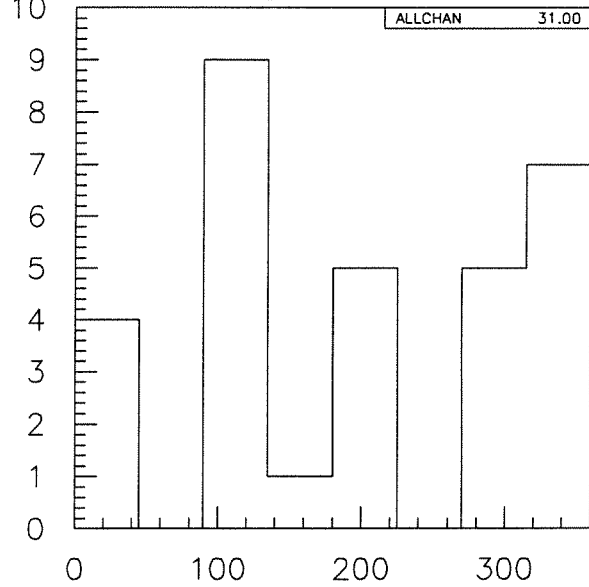
his08403d.rz



$c\gamma 0$ Energy (Mask=804000)
his08403d.rz



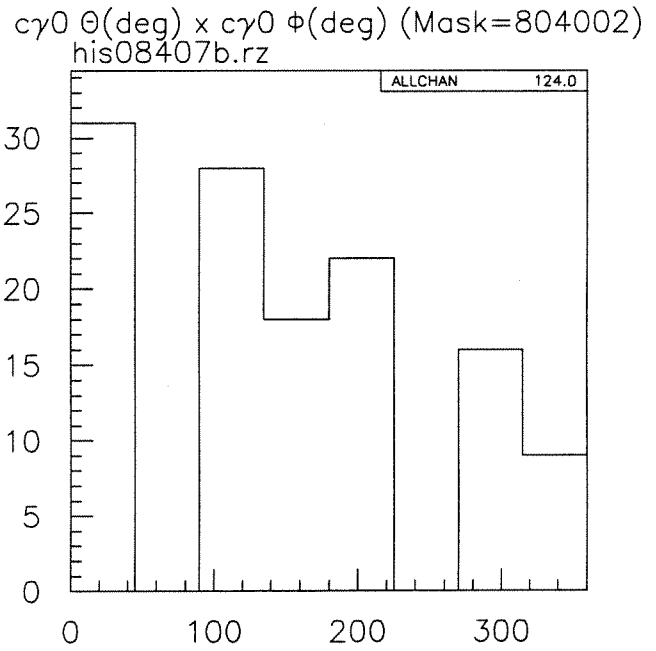
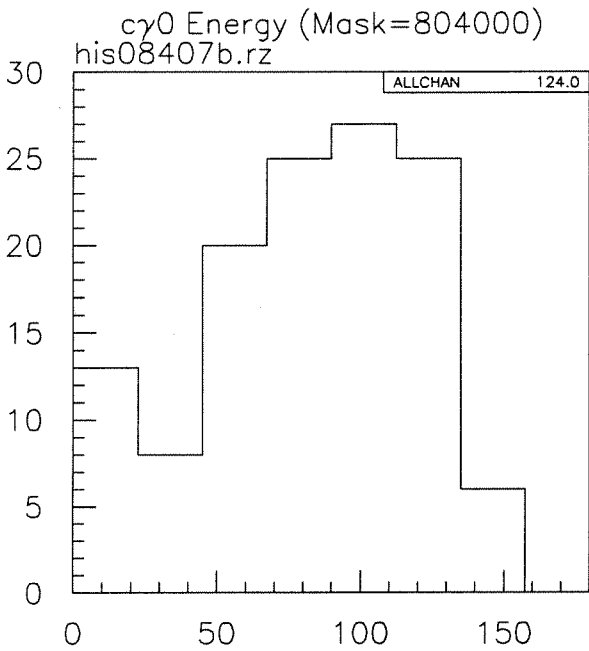
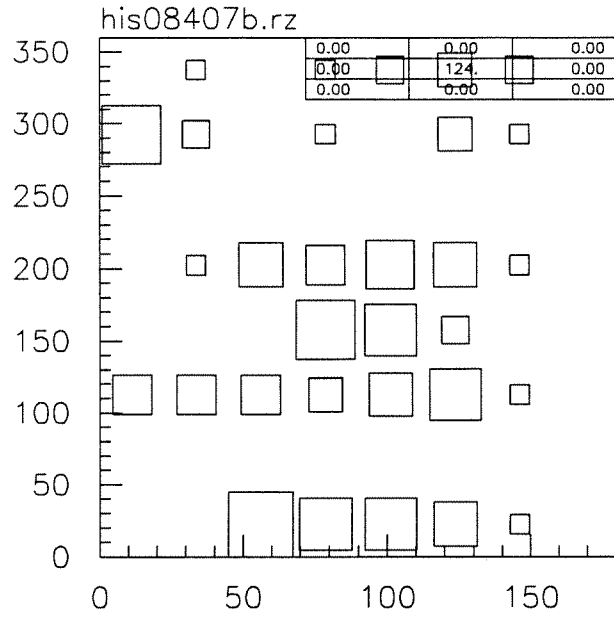
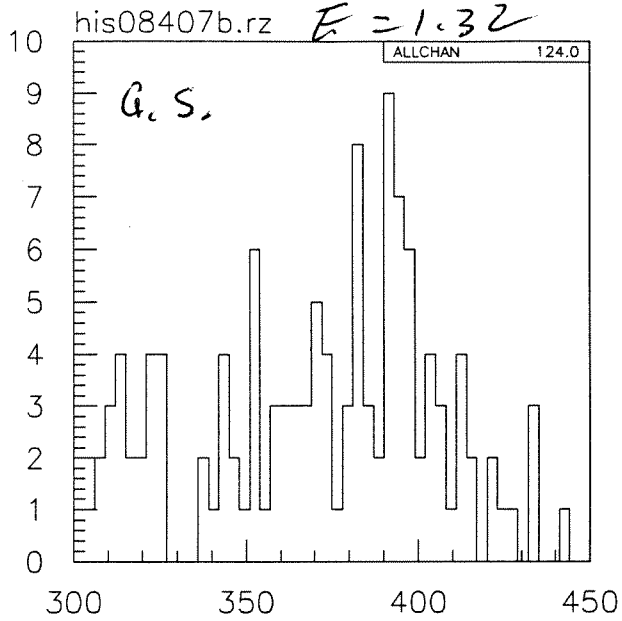
$c\gamma 0$ $\theta(\text{deg}) \times c\gamma 0$ $\phi(\text{deg})$ (Mask=804002)
his08403d.rz



$c\gamma 0$ $\theta(\text{deg}) \times c\gamma 0$ $\phi(\text{deg})$ (Mask=804002)

$c\gamma 0$ $\phi(\text{deg})$ (Mask=804002)

$^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Offline Analysis



$\text{c}\gamma 0$ $\theta(\text{deg}) \times \text{c}\gamma 0$ $\phi(\text{deg})$ (Mask=804002)

$\text{c}\gamma 0$ $\phi(\text{deg})$ (Mask=804002)