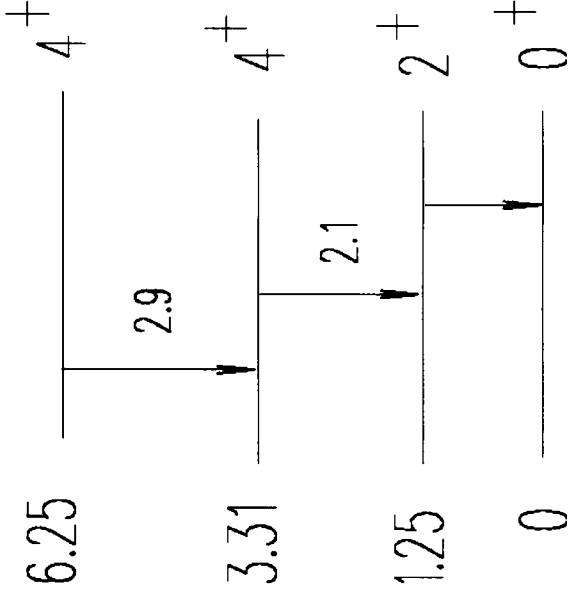
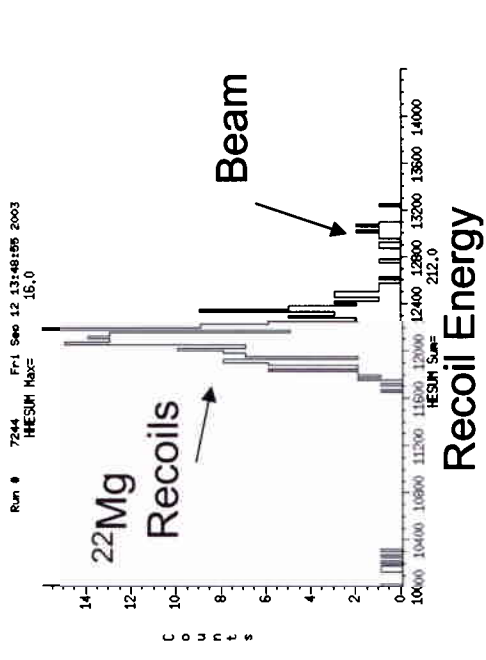
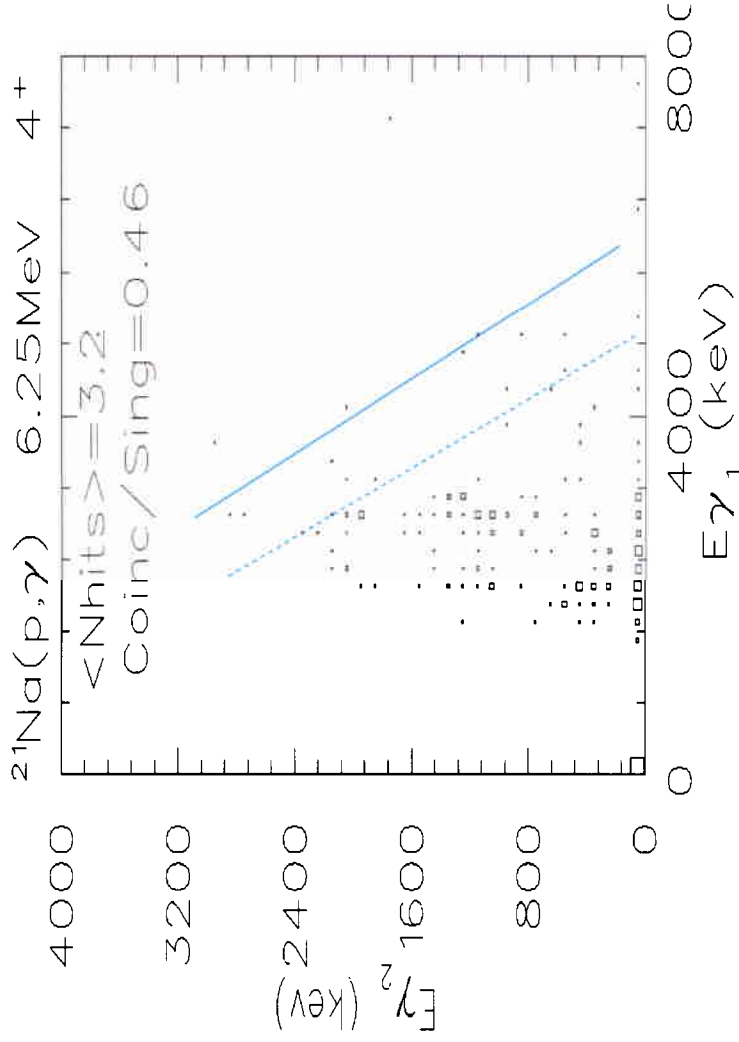
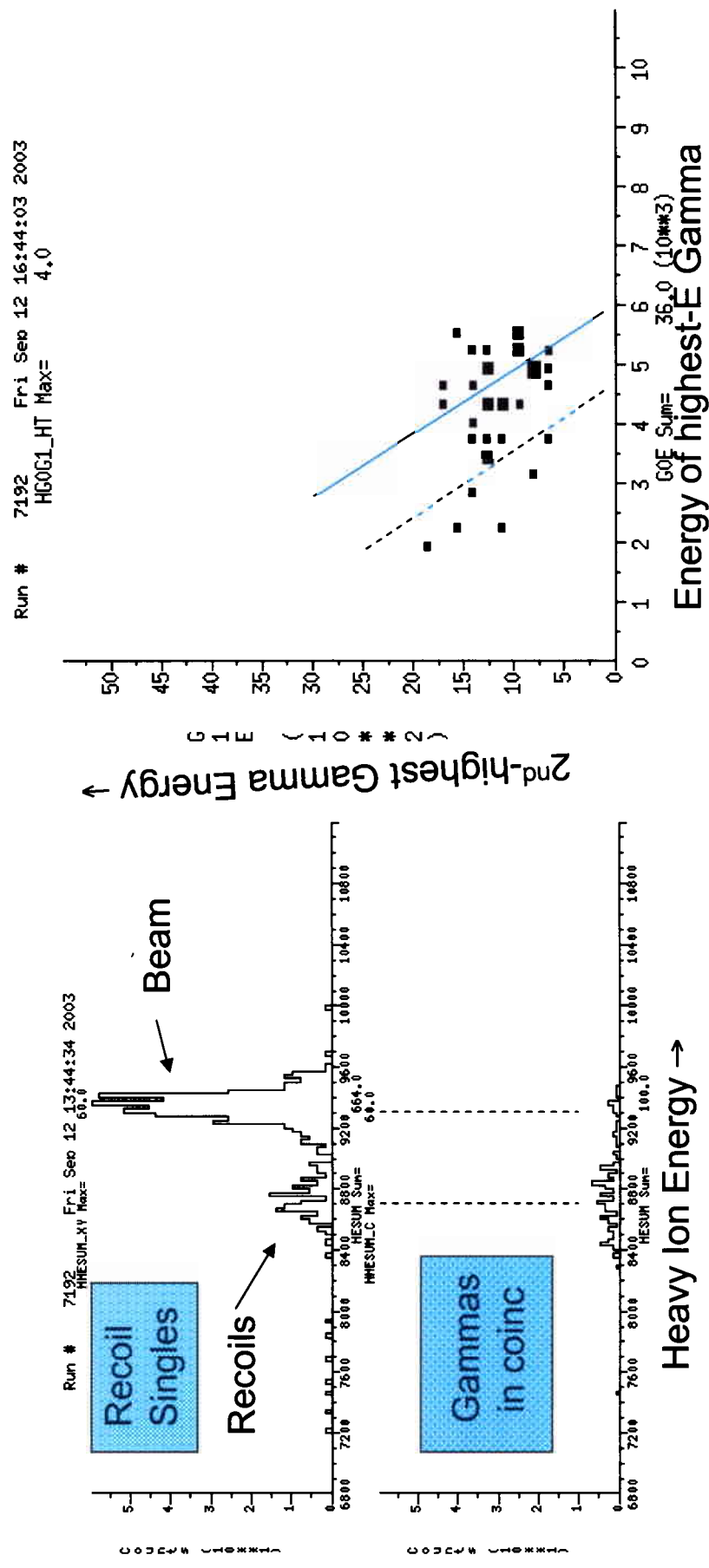


The 733 keV resonance ($E_x = 6.25$ MeV)



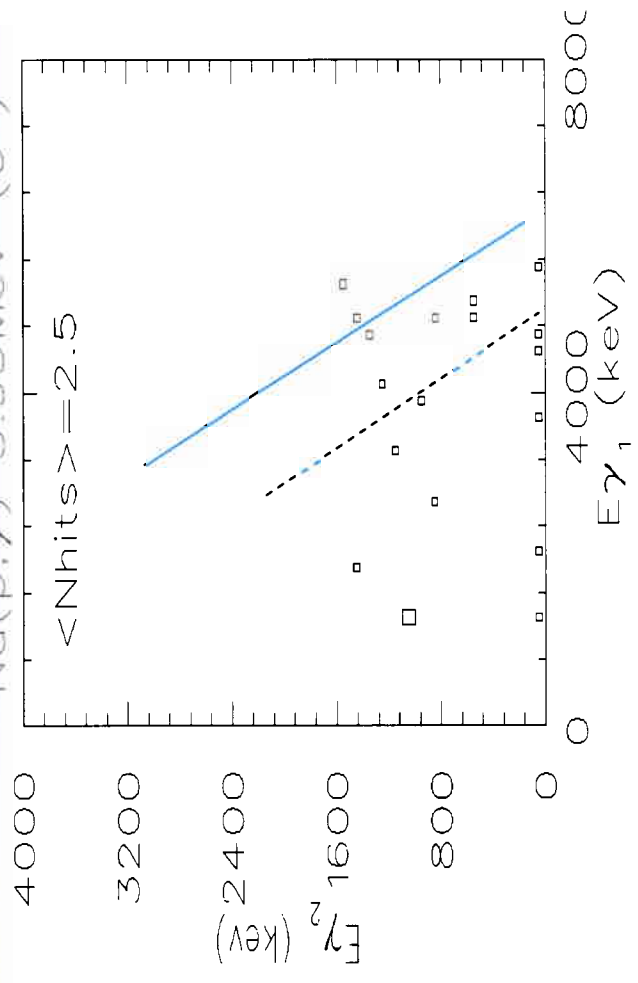
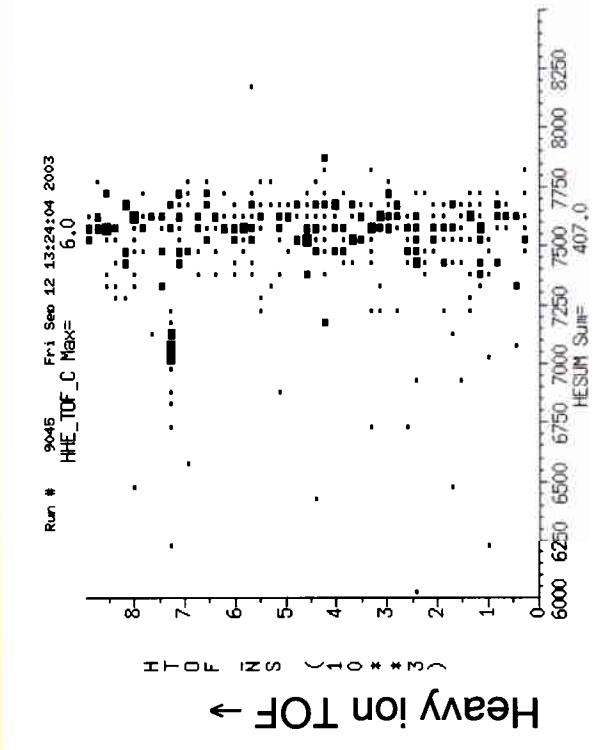
- $\omega\gamma \approx 250$ meV
- with $J = 4 \rightarrow \Gamma_\gamma \geq 220$ meV
- compare $^{22}\text{Ne} (6.35, 4^+)$:
 $\tau = 19 (4) \text{ fs} \rightarrow \Gamma_\gamma \leq 35 (7) \text{ meV}$

The 538 keV resonance ($E_x = 6.04$ MeV)



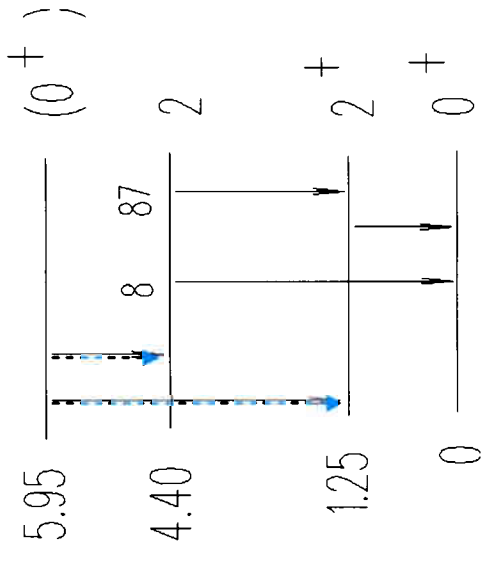
- $\omega\gamma \approx 10$ meV
- B.Davids et al. find $\Gamma_p/\Gamma \approx 1$, suggest $J^\pi = 1^- \rightarrow \Gamma_\gamma \approx 30$ meV
- compare ^{22}Ne (6.69 MeV?): $\Gamma_\gamma = 2(1)$ meV

The 454 keV resonance ($E_x = 5.96$ MeV)



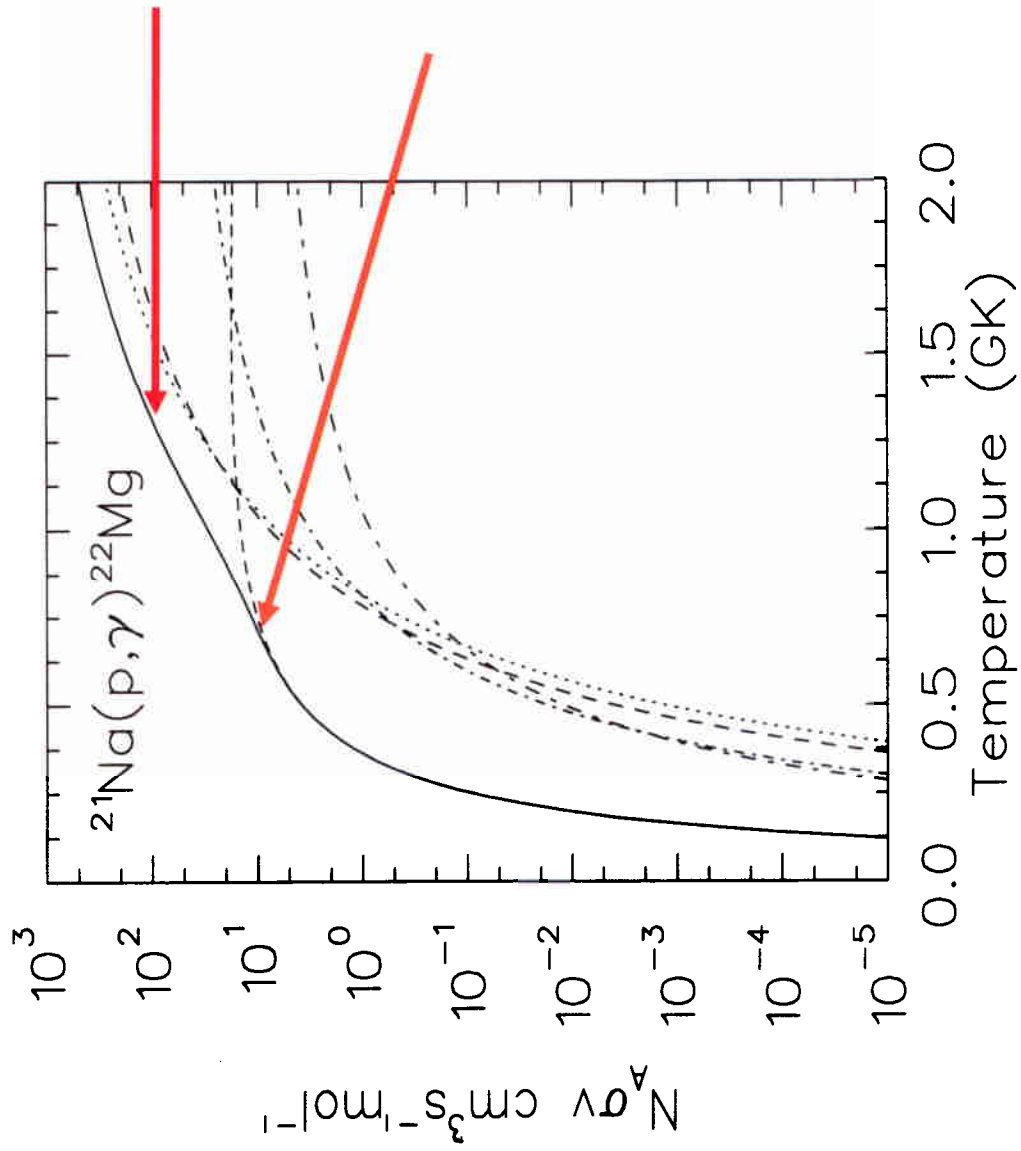
Heavy ion Energy \rightarrow

- $\omega\gamma \approx 1$ meV
- B. Davids et al. find $\Gamma_p/\Gamma \approx 1$, suggest $J = 0 \rightarrow \Gamma_\gamma \approx 8$ meV
- compare ^{22}Ne (6.24, 0^+):



$\Gamma_\gamma \approx (1-7)$ meV

Stellar Rate – all ^{22}Mg levels



Sum of levels
measured in this
work.

Below 0.8 GK only
the 206 keV
resonance matters