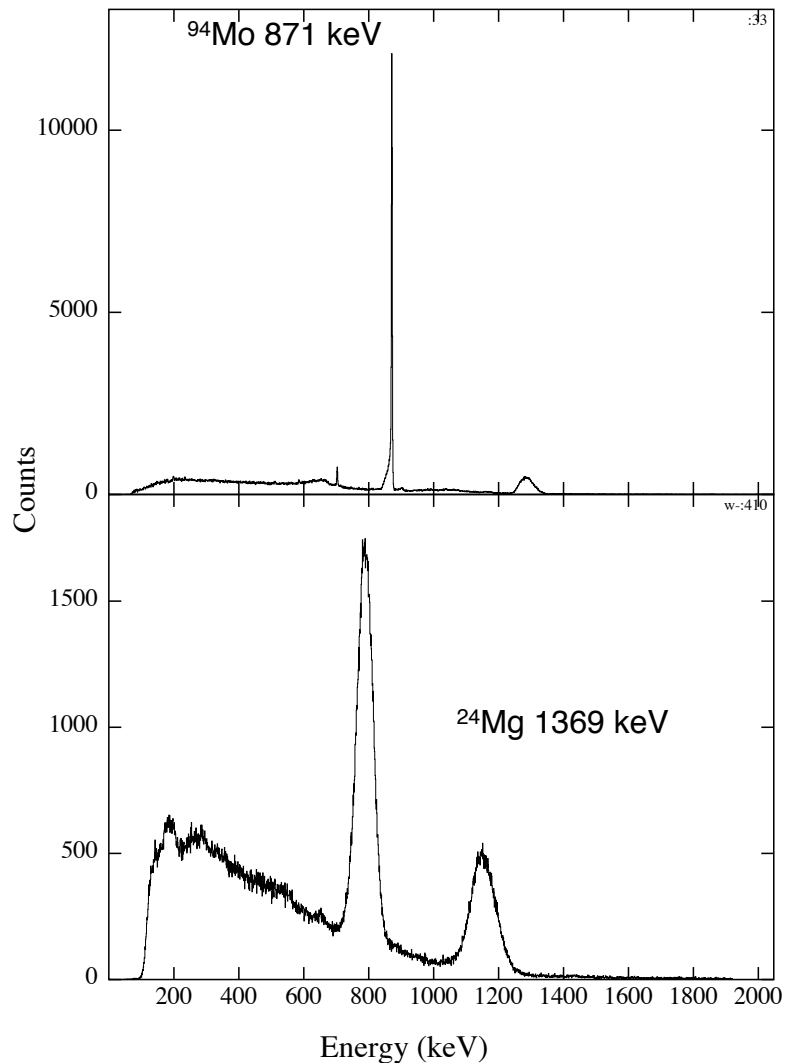


Memo: Clover versus NaI(Tl)

The γ -ray detection efficiency of a [clover](#) and a NaI(Tl) ($5\frac{1}{2} \times 5\frac{1}{2}$ ") detector is compared at 871 keV. The first 2^+ of ^{94}Mo was measured in a projectile excitation experiment at Yale using a Mg target.

Clover target distance 132 mm, NaI to target 152 mm.



The efficiency ratio NaI/clover = 1.75! or the clover counts < 60% of a $5\frac{1}{2} \times 5\frac{1}{2}$ " NaI(Tl) crystal .

The large NaI detector can be still a good choice for precession measurements when the spectra permit.