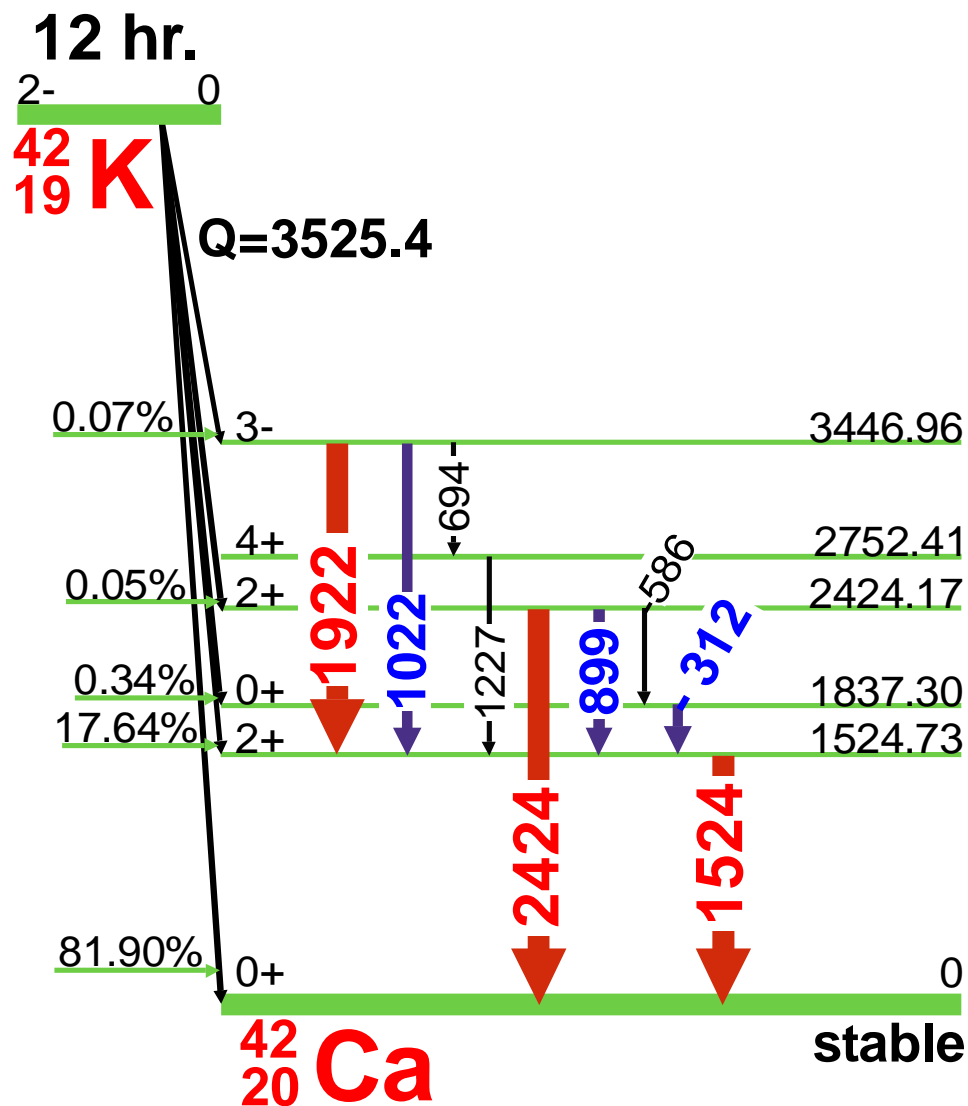


**$^{42}\text{K}$ (12 hr.) Decay Scheme****GAMMA-RAY ENERGIES AND INTENSITIES**Nuclide:  $^{42}\text{K}$ 

Half Life: 12.360(3) hr.

Detector: 55 cm<sup>3</sup> coaxial Ge (Li)Method of Production:  $^{41}\text{K}(n,\gamma)$ 

| $E_\gamma$ (keV) | $\sigma E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | $\sigma I_\gamma$ | S |
|------------------|-------------------|------------------|----------------|-------------------|---|
| 312.6            |                   | 1.68             | 0.336          | 0.020             | 2 |
| 586.87           |                   |                  | 0.0004         |                   | 4 |
| 694.54           |                   |                  | 0.0033         | 0.0007            | 4 |
| 899.43           |                   | 0.304            | 0.0515         | 0.0025            | 3 |
| 1022.78          |                   | 0.162            | 0.0201         | 0.0014            | 4 |
| 1227.66          |                   |                  | 0.0024         | 0.0011            | 4 |
| 1524.7           |                   | 100              | 18.08          | 0.09              | 1 |
| 1922.18          |                   | 0.232            | 0.041          | 0.004             | 1 |
| 2424.09          |                   | 0.122            | 0.0199         | 0.0029            | 1 |

 $E_\gamma, \sigma E_\gamma, I_\gamma, \sigma I_\gamma$  - 1998 ENSDF Data