

${}^{90}\text{Zr}({}^{16}\text{O}, {}^{12}\text{C}\gamma)$ 1972Bo43

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|-------------------------------|---------|----------------------|------------------------|
| Full Evaluation | D. Abriola(a), A. A. Sonzogni | | NDS 107, 2423 (2006) | 1-Jan-2006 |

E=42.5 MeV to 57.0 MeV. Enriched target. Measured excitation functions, E_γ , I_γ in coincidence with ${}^{12}\text{C}$.

 ${}^{94}\text{Mo}$ Levels

| E(level) | J^π [†] |
|----------|----------------------|
| 0 | 0 ⁺ |
| 870 | 2 ⁺ |
| 1572 | 4 ⁺ |
| 1863 | 2 ⁺ |
| 2066 | 2 ⁺ |
| 2392 | 2 ⁺ |
| 2421 | 6 ⁺ |
| 2738 | 1 ⁺ |

[†] From Adopted Levels.

 $\gamma({}^{94}\text{Mo})$

No higher-energy γ 's have been found ($I_\gamma < 10\%$).

| E_γ | I_γ [†] | $E_i(\text{level})$ | J_i^π | E_f | J_f^π |
|------------|-------------------------|---------------------|----------------|-------|----------------|
| 702 | 32 4 | 1572 | 4 ⁺ | 870 | 2 ⁺ |
| 849 | 1.3 10 | 2421 | 6 ⁺ | 1572 | 4 ⁺ |
| 870 | 100 | 870 | 2 ⁺ | 0 | 0 ⁺ |
| 993 | 12 3 | 1863 | 2 ⁺ | 870 | 2 ⁺ |
| 1196 | 23 5 | 2066 | 2 ⁺ | 870 | 2 ⁺ |
| 1522 | 2.3 20 | 2392 | 2 ⁺ | 870 | 2 ⁺ |
| 1868 | 26 9 | 2738 | 1 ⁺ | 870 | 2 ⁺ |

[†] Relative in-beam intensity at E=51 MeV, $\theta=90^\circ$.

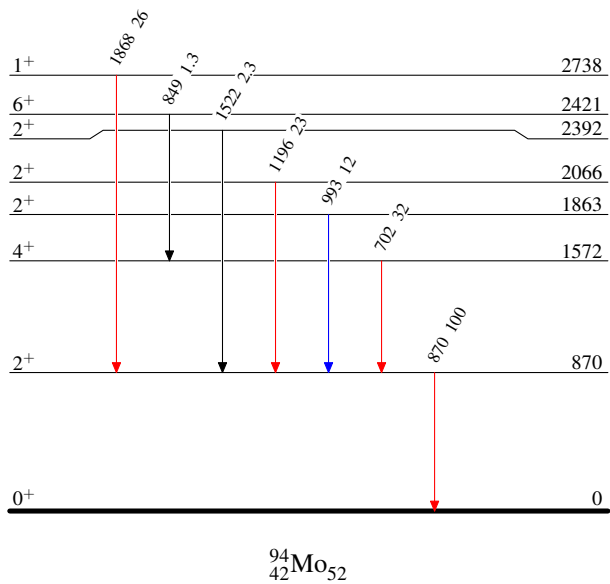
$^{90}\text{Zr}(^{16}\text{O}, ^{12}\text{C}\gamma)$ 1972Bo43

Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

 $^{94}_{42}\text{Mo}_{52}$