

$^{94}\text{Mo}(n,\gamma)$ E=thermal 1973Ba57

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

Measured γ 's; coaxial Ge(Li), FWHM=15-20 keV at $E_\gamma=3-7$ MeV.

Decay scheme constructed assuming that the 7165 γ feeds the 204 state (S(n)=7369 keV 2 in agreement with S(n)=7369.10 10 from 2003Au03).

Others: 1991Is05 and 1969Ra10.

 ^{95}Mo Levels

E(level)	J^π [†]
0.0	5/2 ⁺
203.8 20	3/2 ⁺
1043 4	1/2 ⁺
1324 7	(3/2 ⁺ ,5/2 ⁺)
2046 3	1/2 ⁺ & (3/2) ⁺
2214 4	1/2 ⁻ , 3/2 ⁻
2491.8 20	3/2 ⁺ , 5/2 ⁺
(7368.8 [‡] 10)	1/2 ⁺ [‡]

[†] From the Adopted Levels, except as noted.

[‡] Energy from 2003Au03, and spin and parity is from the assumption of s-wave capture on an even-even target.

 $\gamma(^{95}\text{Mo})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
4877 2	8.2	(7368.8)	1/2 ⁺	2491.8	3/2 ⁺ , 5/2 ⁺
5155 4	11.3	(7368.8)	1/2 ⁺	2214	1/2 ⁻ , 3/2 ⁻
5323 3	2.6	(7368.8)	1/2 ⁺	2046	1/2 ⁺ & (3/2) ⁺
^x 5922 5	13				
6045 7	7.7	(7368.8)	1/2 ⁺	1324	(3/2 ⁺ , 5/2 ⁺)
6326 4	13	(7368.8)	1/2 ⁺	1043	1/2 ⁺
^x 6721	≈ 14				
7165 2	100	(7368.8)	1/2 ⁺	203.8	3/2 ⁺

^x γ ray not placed in level scheme.

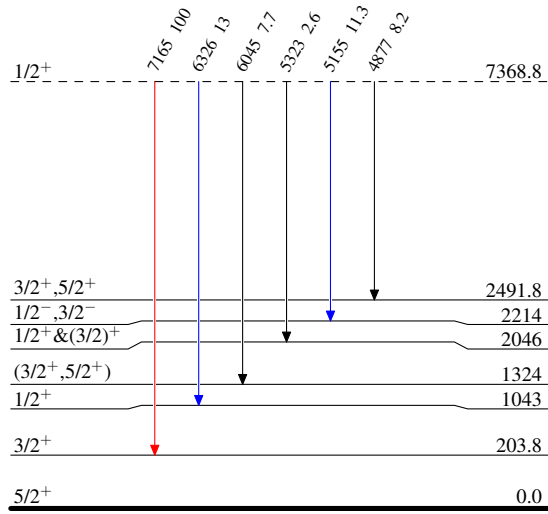
$^{94}\text{Mo}(n,\gamma)$ E=thermal 1973Ba57

Level Scheme

Intensities: Relative I_γ

Legend

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



$^{95}_{42}\text{Mo}_{53}$