$^{94}\text{Zr}(\alpha,4n\gamma)$ **1969MeZY**

History

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

E=16 MeV to 43 MeV. Ge(Li) detector. Measured Eγ, $\gamma(\theta)$, a-γ(t).

^{94}Mo Levels

E(level)	J$^{\pi\dagger}$	T$_{1/2}$
0	0$^+$	
870.9	2$^+$	
1573.6	4$^+$	
2423.3	6$^+$	
2872.4	6$^+$	
2955.5	8$^+$	104‡ ns *4*
3897.4	(10$^+$)	

† From Adopted Levels.
‡ From γ(t) (1970AbZT). Other: $\approx$150 ns (1969MeZY).

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

E$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
83.2	2955.5	8$^+$	2872.4	6$^+$
449.1	2872.4	6$^+$	2423.3	6$^+$
532.2	2955.5	8$^+$	2423.3	6$^+$
702.7	1573.6	4$^+$	870.9	2$^+$
849.7	2423.3	6$^+$	1573.6	4$^+$
870.9	870.9	2$^+$	0	0$^+$
941.9	3897.4	(10$^+$)	2955.5	8$^+$

† Deduced by the evaluator from level energy differences.

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Level Scheme

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