^{95}Mo(α,2nγ)   **1976BrYE,1978HsZY**

		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

Unless otherwise noted, all information is taken from the tentative level scheme proposed by 1976BrYE.

^{97}Ru Levels

1976BrYE: E(α)=17-30 MeV; measured Eγ, $\gamma\gamma$, $\gamma(\theta)$, excit.
1978HsZY: unpublished work, quoted in 1980Bu01 (same authors as in 1976BrYE).
1979HeZQ: measured γ(t).
1982Di18: E(α)=26 MeV; measured g-factor by the time differential perturbed angular distribution method.

E(level)	J$^{\pi\dagger}$	T$_{1/2}$	Comments
0.0	5/2$^+$		
189.4	5/2$^+$		J$^\pi$: adopted value J$^\pi$=3/2$^+$.
421.5	7/2$^+$		
810.9‡	7/2$^+$		
840.5	7/2$^+$		
879.1	9/2$^+$		
1199.3	11/2$^+$		
1595.9	11/2		
1619.7	11/2$^+$		
1651.5‡	9/2$^+$		
1826.6	13/2$^+$		
1845.9	15/2$^+$		
1879.7	11/2		
1953.9‡	11/2$^+$,(15/2$^+$)		
2269.3‡	15/2		
2545.7	17/2$^+$		
2599.6	17/2$^+$		
2697.9‡	15/2$^+$		
2739.4	21/2$^+$	7.8 ns 2	g: 0.88 8; consistent with Configuration=((π g$_{9/2}$8$^+$)(ν d$_{5/2}$)) (1982Di18). T$_{1/2}$: from 1979HeZQ.
2759.6	19/2$^+$		
3048.5‡	15/2$^+$,17/2$^+$		
3400.7‡	19/2$^+$,(15/2$^+$)		
3481.7	21/2$^+$		
3671.4	25/2$^+$		
4264.7	27/2$^+$,29/2$^+$		

† Spin assignments proposed by 1976BrYE (can Be different from J$^\pi$'s In Adopted Levels, Gammas dataset).
‡ Not included in Adopted Levels.

γ(^{97}Ru)

E$_\gamma$†	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Mult.‡	$\delta^\ddagger$
189.4	189.4	5/2$^+$	0.0	5/2$^+$	M1+E2	0.96
193.7	2739.4	21/2$^+$	2545.7	17/2$^+$	E2	
320.1	1199.3	11/2$^+$	879.1	9/2$^+$	M1+E2	0.13
389.3$^\#$	810.9	7/2$^+$	421.5	7/2$^+$		

^{95}Mo(α,2nγ)   **1976BrYE,1978HsZY** (continued)

γ(^{97}Ru) (continued)

$E_\gamma^\dagger$	E_i(level)	J_i^π	E_f	J_f^π	Mult.‡	$\delta^\ddagger$
421.6	421.5	7/2$^+$	0.0	5/2$^+$	M1	
457.4	879.1	9/2$^+$	421.5	7/2$^+$	M1+E2	0.27
593.3	4264.7	27/2$^+$,29/2$^+$	3671.4	25/2$^+$		
646.4	1845.9	15/2$^+$	1199.3	11/2$^+$	E2	
673.4	2269.3	15/2	1595.9	11/2		
699.8	2545.7	17/2$^+$	1845.9	15/2$^+$	M1+E2	0.16
702.8	3400.7	19/2$^+$,(15/2$^+$)	2697.9	15/2$^+$		
716.8	1595.9	11/2	879.1	9/2$^+$		
754.5	1953.9	11/2$^+$,(15/2$^+$)	1199.3	11/2$^+$		
773.0	2599.6	17/2$^+$	1826.6	13/2$^+$		
777.7	1199.3	11/2$^+$	421.5	7/2$^+$	E2	
840.5	840.5	7/2$^+$	0.0	5/2$^+$		
871.3	2697.9	15/2$^+$	1826.6	13/2$^+$		
879.1	879.1	9/2$^+$	0.0	5/2$^+$	E2	
882.1	3481.7	21/2$^+$	2599.6	17/2$^+$		
913.7	2759.6	19/2$^+$	1845.9	15/2$^+$		
932.0	3671.4	25/2$^+$	2739.4	21/2$^+$		
947.4	1826.6	13/2$^+$	879.1	9/2$^+$		
1000.5	1879.7	11/2	879.1	9/2$^+$		
1198.1	1619.7	11/2$^+$	421.5	7/2$^+$		
1202.6	3048.5	15/2$^+$,17/2$^+$	1845.9	15/2$^+$		
1229.9	1651.5	9/2$^+$	421.5	7/2$^+$		

† From 1976BrYE.
‡ From 1978HsZY (δ^2 quoted, sign not given).
$^\#$ Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

- - - - - ► γ Decay (Uncertain)

$^{97}_{44}$Ru$_{53}$