

$^{96}\text{Ru}({}^{40}\text{Ca},4\text{p}\gamma)$ **1989Mo10**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	10-Feb-2005

1989Mo10: E=180 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, lifetimes by recoil-distance method.

 ^{132}Nd Levels

E(level)	$J^\pi \ddagger$	$T_{1/2} \dagger$	Comments
0.0 [#]	0 ⁺		
213.16 [#] 12	(2 ⁺)	186 ps 13	
610.94 [#] 14	(4 ⁺)	<28 ps	
1132.88 [#] 15	(6 ⁺)		
1598.55 18			E(level): corresponding level is at 2692 in Adopted Levels. The 565-466-522 cascade is reordered as 565-466-1092-522 in Adopted Levels, gammas; based on results from 1988Wa01 and 1997Pe27 .
1712.29 [#] 16	(8 ⁺)		
2163.4 5			E(level): corresponding level is at 3257 in Adopted Levels. The 565-466-522 cascade is reordered as 565-466-1092-522 in Adopted Levels, gammas; based on results from 1988Wa01 and 1997Pe27 .
2311.67 [#] 17	(10 ⁺)		
2947.98 [#] 19	(12 ⁺)		
3633.79 [#] 21	(14 ⁺)		
4373.2 [#] 4	(16 ⁺)		
5177.9? [#] 5	(18 ⁺)		

[†] Recoil-distance method ([1989Mo10](#)).

[‡] As suggested by [1989Mo10](#).

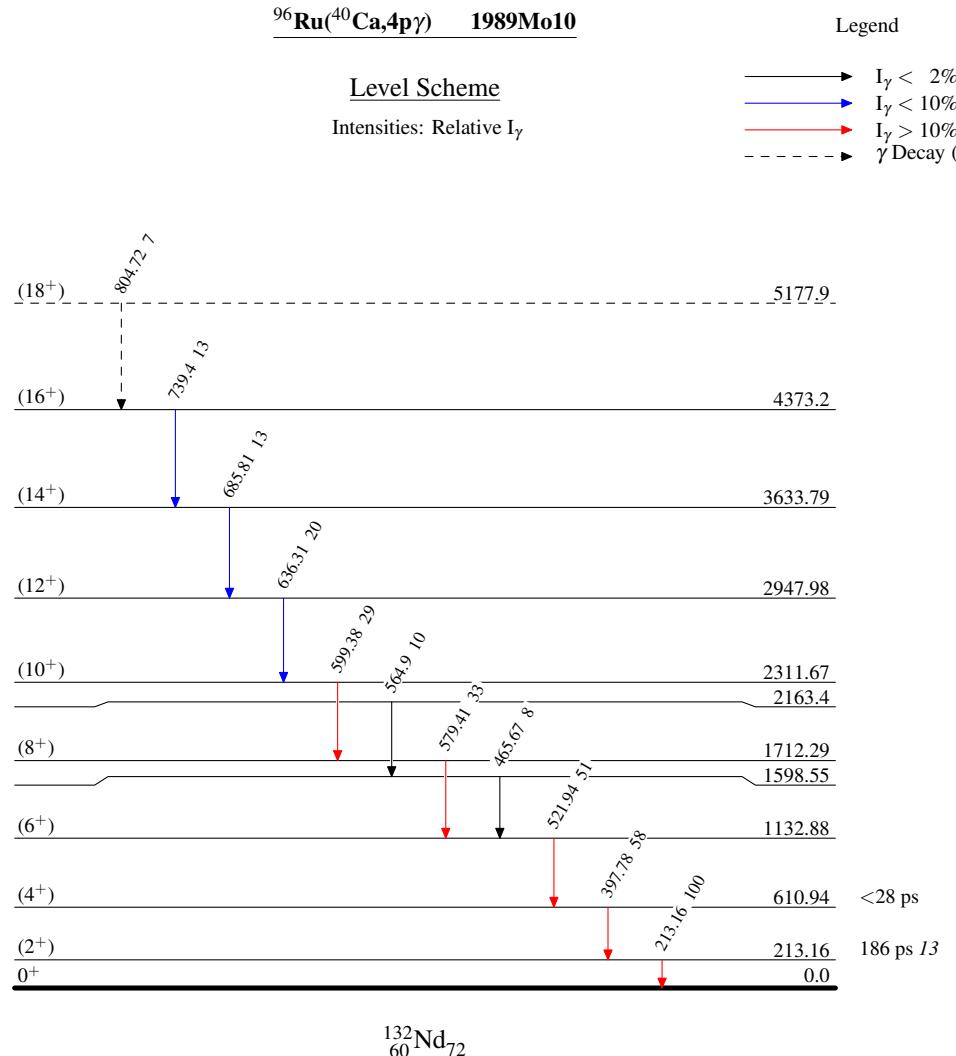
[#] Band(A): Yrast band.

 $\gamma(^{132}\text{Nd})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
213.16 12	100 5	213.16	(2 ⁺)	0.0	0 ⁺	
397.78 6	58 3	610.94	(4 ⁺)	213.16	(2 ⁺)	
465.67 [†] 11	8 2	1598.55		1132.88	(6 ⁺)	
521.94 5	51 3	1132.88	(6 ⁺)	610.94	(4 ⁺)	
564.9 [†] 4	10 2	2163.4		1598.55		
579.41 6	33 6	1712.29	(8 ⁺)	1132.88	(6 ⁺)	
599.38 7	29 2	2311.67	(10 ⁺)	1712.29	(8 ⁺)	
636.31 8	20 2	2947.98	(12 ⁺)	2311.67	(10 ⁺)	
685.81 9	13 2	3633.79	(14 ⁺)	2947.98	(12 ⁺)	
739.4 3	13 3	4373.2	(16 ⁺)	3633.79	(14 ⁺)	
804.72 [‡] 25	7 2	5177.9?	(18 ⁺)	4373.2	(16 ⁺)	E_γ : corresponds to 812 γ in ${}^{104}\text{Pd}({}^{32}\text{S},2\text{p}2\text{n}\gamma)$.

[†] The 565-466-522 cascade is reordered as 565-466-1092-522 in Adopted Levels, gammas; based on results from [1988Wa01](#) and [1997Pe27](#).

[‡] Placement of transition in the level scheme is uncertain.



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