^{110}Pd(^{86}Kr,xnγ) 1997Re08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 108,2035 (2007)	30-Mar-2007

^{110}Pd(^{86}Kr,xnγ) E=395 MeV. K130 cyclotron of the University of Jyvaskyla.
Measured: γ, $\gamma\gamma$, 12 Compton-suppressed tessa type, Ge detectors.
1998Fo08 using ^{173}Yb(^{24}Mg,xng) E=134.5 MeV show a double gated γ spectrum Eγ of g.s. band transitions: 357.6, 530.3, 601.1, 667.5, 725.5, 763.7, 791.2 seen by 1997Re08 and a weaker γ at 917.8 not given by 1997Re08.

^{104}Ru Levels

E(level)	J$^\pi$	E(level)	J$^\pi$	E(level)	J$^\pi$	E(level)	J$^\pi$
0.0†	0^+	1975.0 *6*	$(6^-,7)$	3075.3‡ *6*	(8,9)	4439.4† *8*	(14^+)
358.0† *3*	2^+	2233.0‡ *5*	$(5,6^+)$	3112.1† *7*	10^+	5357.2†	(16^+)
888.7† *5*	4^+	2320.6† *6*	8^+	3284.9 *7*	$(9,10^+)$		
1556.6† *5*	6^+	2600.9 *6*	$(7,8^+)$	3691.3‡ *7*	(9,10,11)		
1971.1 *5*	(3^-)	2614.0‡ *6*	$(7,8^+)$	3713.6† *8*	(12^+)		

† Band(A): g.s. band.
‡ Band(B): Gamma sequence.

γ(^{104}Ru)

E$_\gamma$†	I$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$	Comments
358.0 *3*	100 *12*	358.0	2^+	0.0	0^+	
381.0 *3*	1.1 *3*	2614.0	$(7,8^+)$	2233.0	$(5,6^+)$	
418.4 *3*	5.0 *7*	1975.0	$(6^-,7)$	1556.6	6^+	
461.3 *3*	5.9 *7*	3075.3	(8,9)	2614.0	$(7,8^+)$	
530.7 *3*	70 *9*	888.7	4^+	358.0	2^+	
601.5 *3*	10.1 *13*	3713.6	(12^+)	3112.1	10^+	
616.0 *3*	3.9 *5*	3691.3	(9,10,11)	3075.3	(8,9)	
667.9 *3*	40 *5*	1556.6	6^+	888.7	4^+	
725.8 *3*	2.4 *4*	4439.4	(14^+)	3713.6	(12^+)	
764.0 *3*	19.8 *24*	2320.6	8^+	1556.6	6^+	
791.5 *3*	11.2 *15*	3112.1	10^+	2320.6	8^+	
917.8		5357.2	(16^+)	4439.4	(14^+)	E$_\gamma$: From 1998Fo08.
964.3 *3*	2.8 *4*	3284.9	$(9,10^+)$	2320.6	8^+	
1044.3 *3*	4.5 *3*	2600.9	$(7,8^+)$	1556.6	6^+	
1057.5 *3*	7.5 *11*	2614.0	$(7,8^+)$	1556.6	6^+	
1344.2 *3*	4.7 *7*	2233.0	$(5,6^+)$	888.7	4^+	
1613.1 *3*	1.4 *3*	1971.1	(3^-)	358.0	2^+	

† ΔE not given, assumed 0.3 keV by evaluator.

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Level Scheme

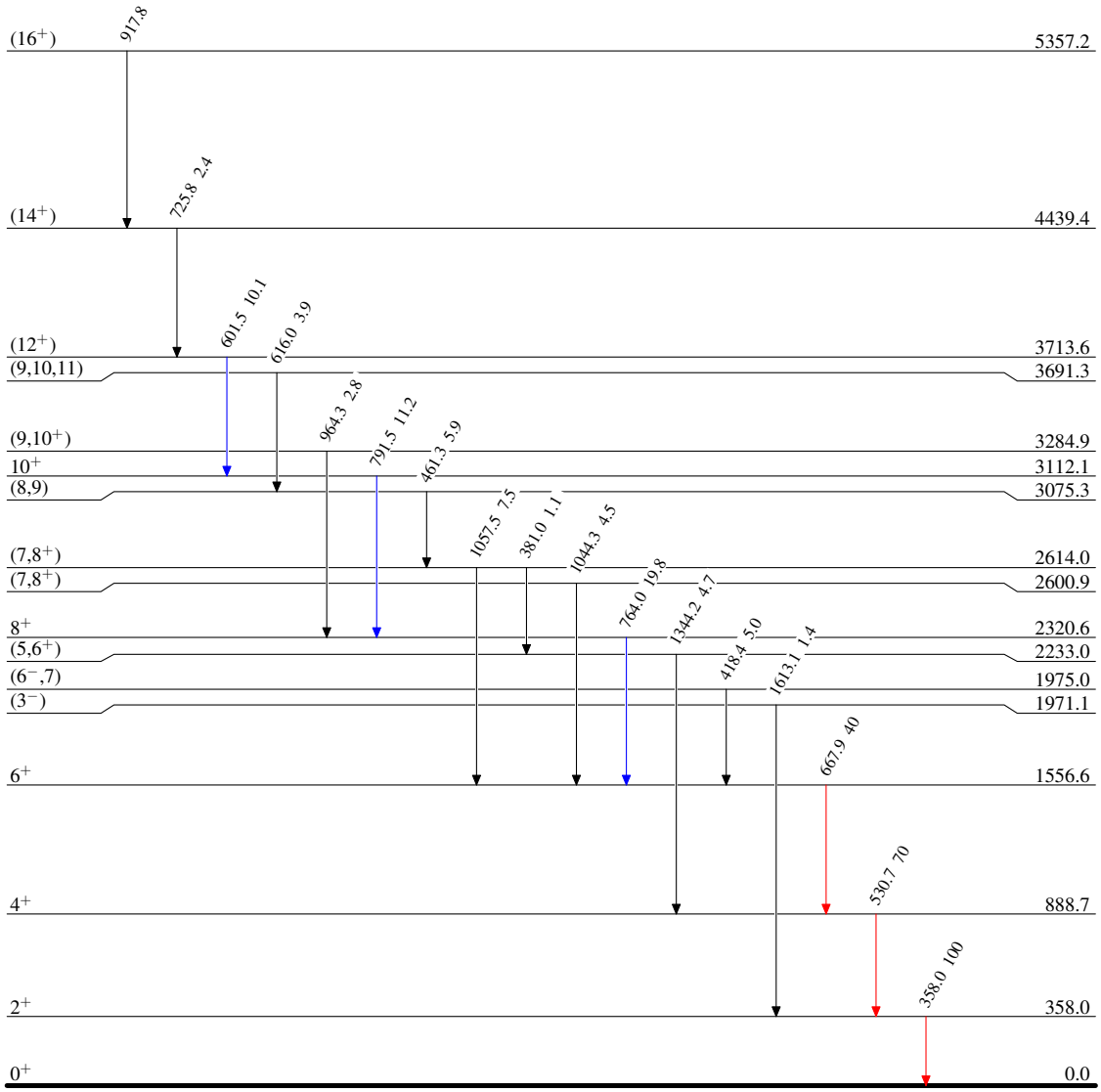
Intensities: Type not specified

Legend

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

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

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



$^{104}_{44}Ru_{60}$

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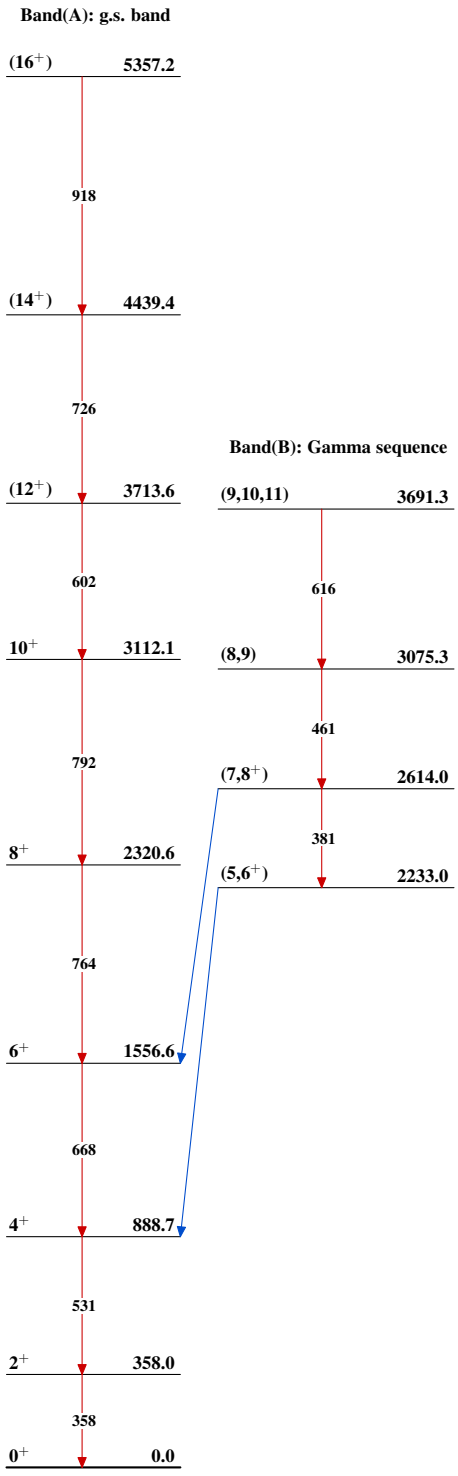

$^{104}_{44}Ru_{60}$