^{182}Ta(n,γ) E=thermal 1971VaYW

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

J^π(^{182}Ta target)=3$^-$.
Secondary gammas only are reported by the authors.

^{183}Ta Levels

E(level)†	J^π‡	E(level)†	J^π‡	E(level)†	J^π‡	E(level)†	J^π‡
0.0	$7/2^+$	459.1	$(5/2^+)$	806.4		1127.8	$(5/2^+,7/2,9/2^+)$
73.2	$(9/2)^-$	545.6	$(5/2^+,7/2,9/2^+)$	857.0	$(5/2^-)$	1150.7	$(\leq 5/2)$
143.2	$9/2^+$	572.8	$(7/2^+)$	940.2	$(5/2^+,7/2,9/2^+)$		
368.3	(7/2,9/2,11/2)	730.9		971.5			

† From least-squares fit to Eγ assuming the same uncertainty for all data.
‡ From Adopted Levels.

γ(^{183}Ta)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π
73.1	25	73.2	$(9/2)^-$	0.0	$7/2^+$
75.5	2.3	806.4		730.9	
86.5	0.77	545.6	$(5/2^+,7/2,9/2^+)$	459.1	$(5/2^+)$
113.8	12	572.8	$(7/2^+)$	459.1	$(5/2^+)$
143.2	11	143.2	$9/2^+$	0.0	$7/2^+$
158.1	4.4	730.9		572.8	$(7/2^+)$
165.1	0.85	971.5		806.4	
225.1	1.6	368.3	(7/2,9/2,11/2)	143.2	$9/2^+$
233.6	0.17	806.4		572.8	$(7/2^+)$
295.1	0.97	368.3	(7/2,9/2,11/2)	73.2	$(9/2)^-$
311.4	0.13	857.0	$(5/2^-)$	545.6	$(5/2^+,7/2,9/2^+)$
315.9	37	459.1	$(5/2^+)$	143.2	$9/2^+$
321.7	0.34	1127.8	$(5/2^+,7/2,9/2^+)$	806.4	
344.3	0.25	1150.7	$(\leq 5/2)$	806.4	
397.9	0.59	857.0	$(5/2^-)$	459.1	$(5/2^+)$
398.6	1.5	971.5		572.8	$(7/2^+)$
402.4	0.45	545.6	$(5/2^+,7/2,9/2^+)$	143.2	$9/2^+$
459.1	100	459.1	$(5/2^+)$	0.0	$7/2^+$
481.2	3.0	940.2	$(5/2^+,7/2,9/2^+)$	459.1	$(5/2^+)$
663.2	2.8	806.4		143.2	$9/2^+$
668.4	0.49	1127.8	$(5/2^+,7/2,9/2^+)$	459.1	$(5/2^+)$
691.7	4.6	1150.7	$(\leq 5/2)$	459.1	$(5/2^+)$
783.7	8.3	857.0	$(5/2^-)$	73.2	$(9/2)^-$
796.9	1.1	940.2	$(5/2^+,7/2,9/2^+)$	143.2	$9/2^+$
806.5	5.4	806.4		0.0	$7/2^+$
984.6	2.3	1127.8	$(5/2^+,7/2,9/2^+)$	143.2	$9/2^+$

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Level Scheme

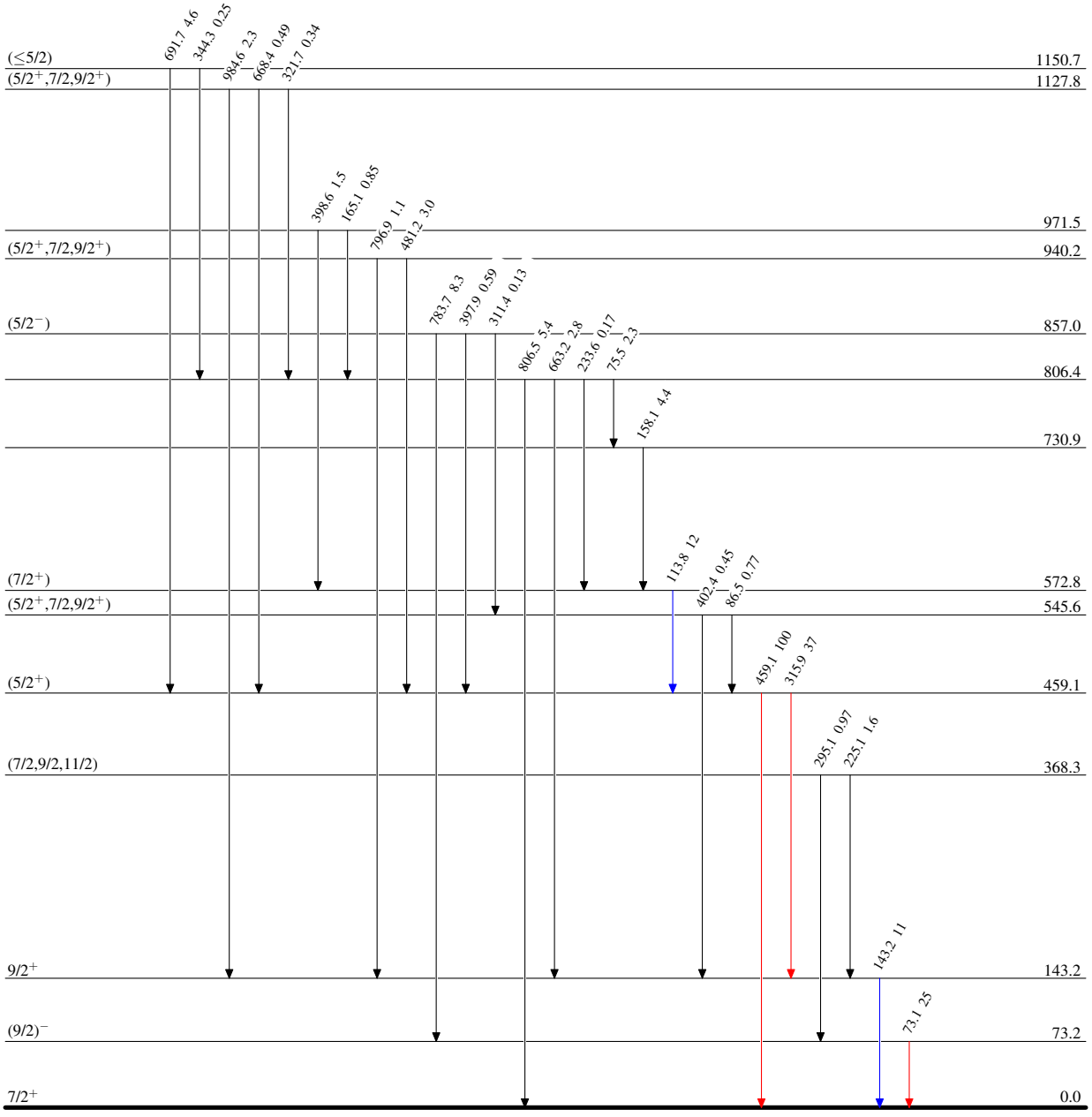
Intensities: Relative I_γ

Legend

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

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

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



$^{183}_{73}Ta_{110}$