

(HI,xn γ) 1992Li22,1979Ga02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008

1992Li22: $^{92}\text{Mo}(^{34}\text{S},\alpha p2n\gamma)$ E=150,155 MeV, $^{92}\text{Mo}(^{32}\text{S},\alpha p\gamma)$ E=145 MeV; 15 HPGe detectors, $\theta=79^\circ, 101^\circ, 143^\circ$, 11 scin detectors. Measured γ , $\gamma\gamma$, $\gamma\gamma p$ -coin, $\gamma\gamma\alpha$ -coin, $\gamma(\theta)$ stacked target with two 0.4 mg/cm² thick self-supporting foils.
1979Ga02: $^{106}\text{Cd}(^{16}\text{O},p2n\gamma)$ E<75 MeV, semi excit, enriched target, thickness 3.5 mg/cm². Measured $\gamma\gamma$, $\gamma(\theta)$.

^{119}Cs Levels

E(level)	J $^\pi$ [†]	T _{1/2}	Comments
0.0	9/2 ⁺	43.0 s 2	
0.0+x	(11/2 ⁻)		Additional information 1.
239.7 8	(11/2 ⁺)		
288.0+x 10	(15/2 ⁻)		
509.3 8	(13/2 ⁺)		
762.0+x 15	(19/2 ⁻)		
806.8 10	(15/2 ⁺)		
1128.7 11	(17/2 ⁺)		
1381.0+x 18	(23/2 ⁻)		
1471.6 12	(19/2 ⁺)		
1830.0 13	(21/2 ⁺)		
2111.0+x 20	(27/2 ⁻)		
2199.8 13	(23/2 ⁺)		
2575.9 14	(25/2 ⁺)		
2941.0+x 23	(31/2 ⁻)		
3857.0+x? 25	(35/2 ⁻)		
3871.0+x? 25			
4891+x? 3			

[†] From Adopted Levels.

$\gamma(^{119}\text{Cs})$

E $_\gamma$ [†]	I $_\gamma$ ^{†‡}	E $_i$ (level)	J $^\pi$ _i	E $_f$	J $^\pi$ _f	Comments
240 1	50 10	239.7	(11/2 ⁺)	0.0	9/2 ⁺	
270 1	40 8	509.3	(13/2 ⁺)	239.7	(11/2 ⁺)	
288 1	100	288.0+x	(15/2 ⁻)	0.0+x	(11/2 ⁻)	
297 1	21 4	806.8	(15/2 ⁺)	509.3	(13/2 ⁺)	
321 1	17 4	1128.7	(17/2 ⁺)	806.8	(15/2 ⁺)	
343 1	5 1	1471.6	(19/2 ⁺)	1128.7	(17/2 ⁺)	
359 1	12 3	1830.0	(21/2 ⁺)	1471.6	(19/2 ⁺)	
370 1	16 3	2199.8	(23/2 ⁺)	1830.0	(21/2 ⁺)	
376 1	4 1	2575.9	(25/2 ⁺)	2199.8	(23/2 ⁺)	
474 1	82 16	762.0+x	(19/2 ⁻)	288.0+x	(15/2 ⁻)	
509 1	3 1	509.3	(13/2 ⁺)	0.0	9/2 ⁺	
567 1	4 1	806.8	(15/2 ⁺)	239.7	(11/2 ⁺)	
619 1	45 9	1381.0+x	(23/2 ⁻)	762.0+x	(19/2 ⁻)	
620 1	4 1	1128.7	(17/2 ⁺)	509.3	(13/2 ⁺)	
665 1	13 3	1471.6	(19/2 ⁺)	806.8	(15/2 ⁺)	E $_\gamma$: other: 667 (1979Ga02).
701 1	4 1	1830.0	(21/2 ⁺)	1128.7	(17/2 ⁺)	
728 1	1.0 2	2199.8	(23/2 ⁺)	1471.6	(19/2 ⁺)	
730 1	75 15	2111.0+x	(27/2 ⁻)	1381.0+x	(23/2 ⁻)	E $_\gamma$: other: 734 (1979Ga02).
746 1	19 4	2575.9	(25/2 ⁺)	1830.0	(21/2 ⁺)	
830 1	26 5	2941.0+x	(31/2 ⁻)	2111.0+x	(27/2 ⁻)	

Continued on next page (footnotes at end of table)

(HI,xn γ) 1992Li22,1979Ga02 (continued) $\gamma(^{119}\text{Cs})$ (continued)

E_γ [†]	I_γ ^{†‡}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
916 [#] <i>I</i>	10 2	3857.0+x?	(35/2 ⁻)	2941.0+x	(31/2 ⁻)
930 <i>I</i>		3871.0+x?		2941.0+x	(31/2 ⁻)
1020 <i>I</i>		4891+x?		3871.0+x?	

[†] From 1992Li22.

[‡] Evaluators estimated $\Delta I_\gamma = 20\%$.

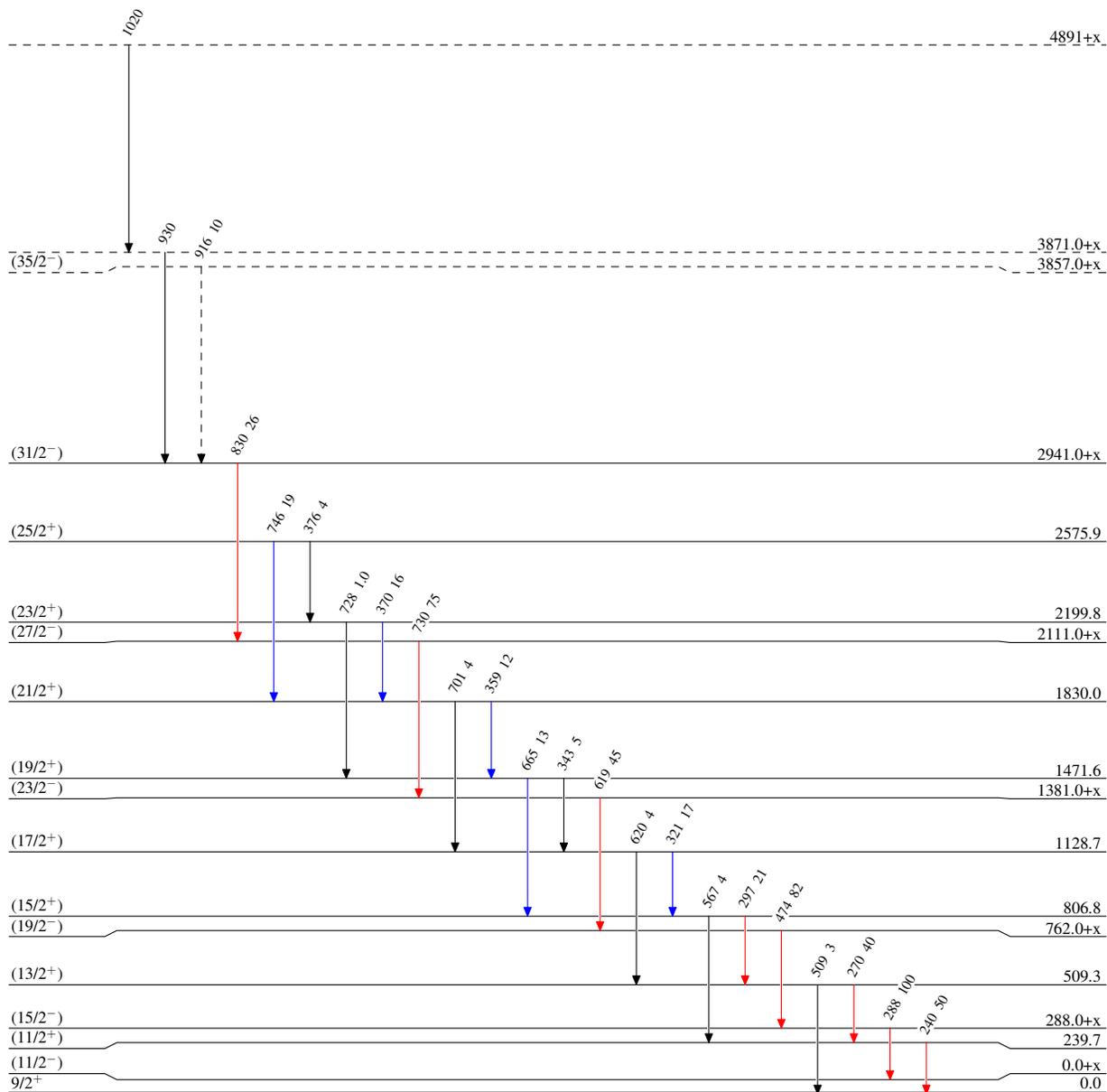
[#] Placement of transition in the level scheme is uncertain.

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Legend

Level SchemeIntensities: Relative I_γ

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- - - γ Decay (Uncertain)



43.0 s 2

 $^{119}_{55}\text{Cs}_{64}$