(HI,xnγ): 13-93 ns delayed 1984Ch11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, A. A. Sonzogni	NDS 114, 435 (2013)	1-Apr-2013

See other (HI,xnγ) datasets for data taken in similar conditions.
$T_{1/2}$: from beam-γ(t) delayed coincidence measurements in the time range 13 *93*93 ns;

^{150}Er Levels

E(level)	Jπ†	$T_{1/2}$	E(level)	Jπ†	E(level)	$T_{1/2}$
(0.0)	0^+		4927.5	(14^+)	7372.4	
2797.0	(10^+)	2.55 μs *10*	5222.2	(16^+)	7937.1	
4000.7	(11^-)		6359.3		8483.4	
4243.4	(12^+)		6928.3		9149.0	
4490.7	(13^-)		7153.5		9509.1	43 ns *3*
4884.6	(15^-)		7332.8			

† Tentative assignments, based on shell model calculation (1984Ch11).

γ(^{150}Er)

Eγ	Iγ†	Ei(level)	J_i^π	E_f	J_f^π	Mult.	Comments
39.4 *4*	24 *5*	7372.4		7332.8		E1	Mult.: from level scheme. I(γ+ce)(39.4γ) lower than I(γ+ce)(404.5+973.7) leads to α(39.4γ) lower than 1.4. This agrees only with E1.
219.0 *2*	8 *1*	7372.4		7153.5			
247.4 *2*	34 *3*	4490.7	(13^-)	4243.4	(12^+)		
x286.5 *2*	16 *2*						
294.8 *2*	18 *2*	5222.2	(16^+)	4927.5	(14^+)		
337.6 *2*	103 *6*	5222.2	(16^+)	4884.6	(15^-)		
360.1 *2*	65 *4*	9509.1		9149.0			
393.9 *1*	131 *8*	4884.6	(15^-)	4490.7	(13^-)		
404.5 *2*	40 *3*	7332.8		6928.3			
490.0 *1*	90 *6*	4490.7	(13^-)	4000.7	(11^-)		
546.3 *2*	45 *3*	8483.4		7937.1			
564.7 *2*	42 *3*	7937.1		7372.4			
569.0 *2*	44 *3*	6928.3		6359.3			
665.6 *2*	49 *4*	9149.0		8483.4			
684.1 *2*	23 *2*	4927.5	(14^+)	4243.4	(12^+)		
973.7 *4*	6 *2*	7332.8		6359.3			
1013.1 *3*	60 *4*	7372.4		6359.3			
1137.1 *2*	92 *6*	6359.3		5222.2	(16^+)		
1203.7 *1*	100	4000.7	(11^-)	2797.0	(10^+)		
1211.8 *4*	7 *2*	9149.0		7937.1			
1446.4 *2*	50 *4*	4243.4	(12^+)	2797.0	(10^+)		
1474.6 *4*	15 *3*	6359.3		4884.6	(15^-)		
1931.2 *4*	9 *2*	7153.5		5222.2	(16^+)		

† Normalized to 100 for the 1203.7 transition. Note that the branchings are at variance in the $T_{1/2}$ <13 ns and the delayed datasets.
x γ ray not placed in level scheme.

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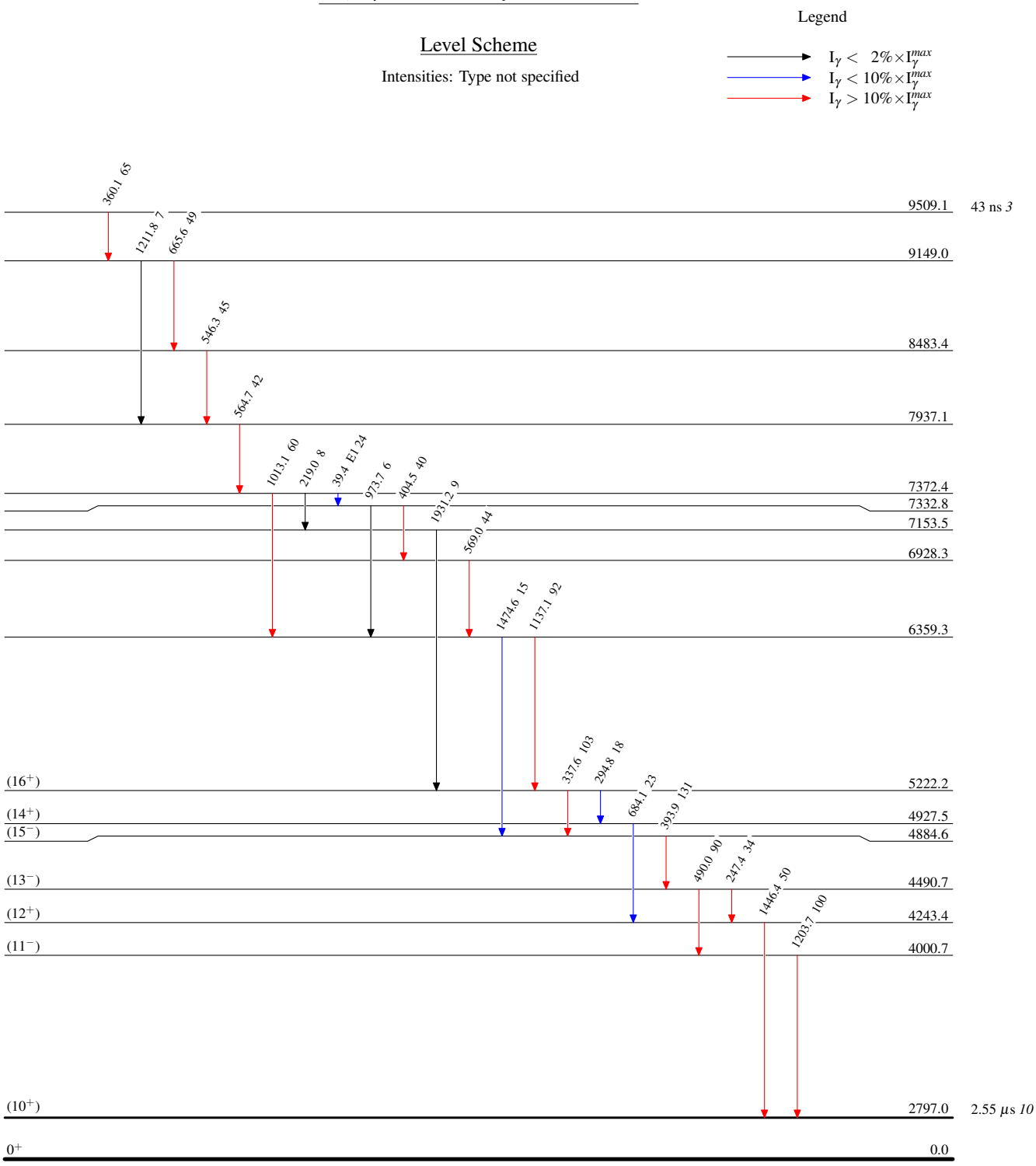
Level Scheme

Intensities: Type not specified



$^{150}_{68}Er_{82}$