

$^{76}\text{Ge}(^{11}\text{B},\text{p3n}\gamma)$ **2011Ga44**

Type	Author	History
Full Evaluation	E. A. Mccutchan	Citation
		Literature Cutoff Date
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$E(^{11}\text{B})=50$ MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\gamma\gamma(\theta)$ using 12 Compton-suppressed HPGe detectors and a 14-element BGO multiplicity filter; deduced $T_{1/2}$ using Doppler Shift Attenuation method (DSAM). Authors provide only a partial level scheme for states at $E=2470.4$ keV and higher in excitation energy.

 ^{83}Kr Levels

$E(\text{level})^\dagger$	J^π^\ddagger	$T_{1/2}^\#$
2470.4	(17/2 $^-$)	
2510.0	(13/2 $^-$)	
2550.9	17/2 $^+$	
2640.5	(15/2 $^-$)	
2841.2	(17/2 $^-$)	1.73 ps 35
3157.3	(19/2 $^-$)	1.11 ps 7
3602.3	(21/2 $^-$)	0.69 ps 14
4217.4	(23/2 $^-$)	0.42 ps 9
4868.4	(25/2 $^-$)	<0.7 ps
5639.4	(27/2 $^-$)	

† From 2011Ga44.

‡ From the Adopted Levels. These are similar to those proposed by 2011Ga44, with the exception that some parentheses have been added by the evaluator.

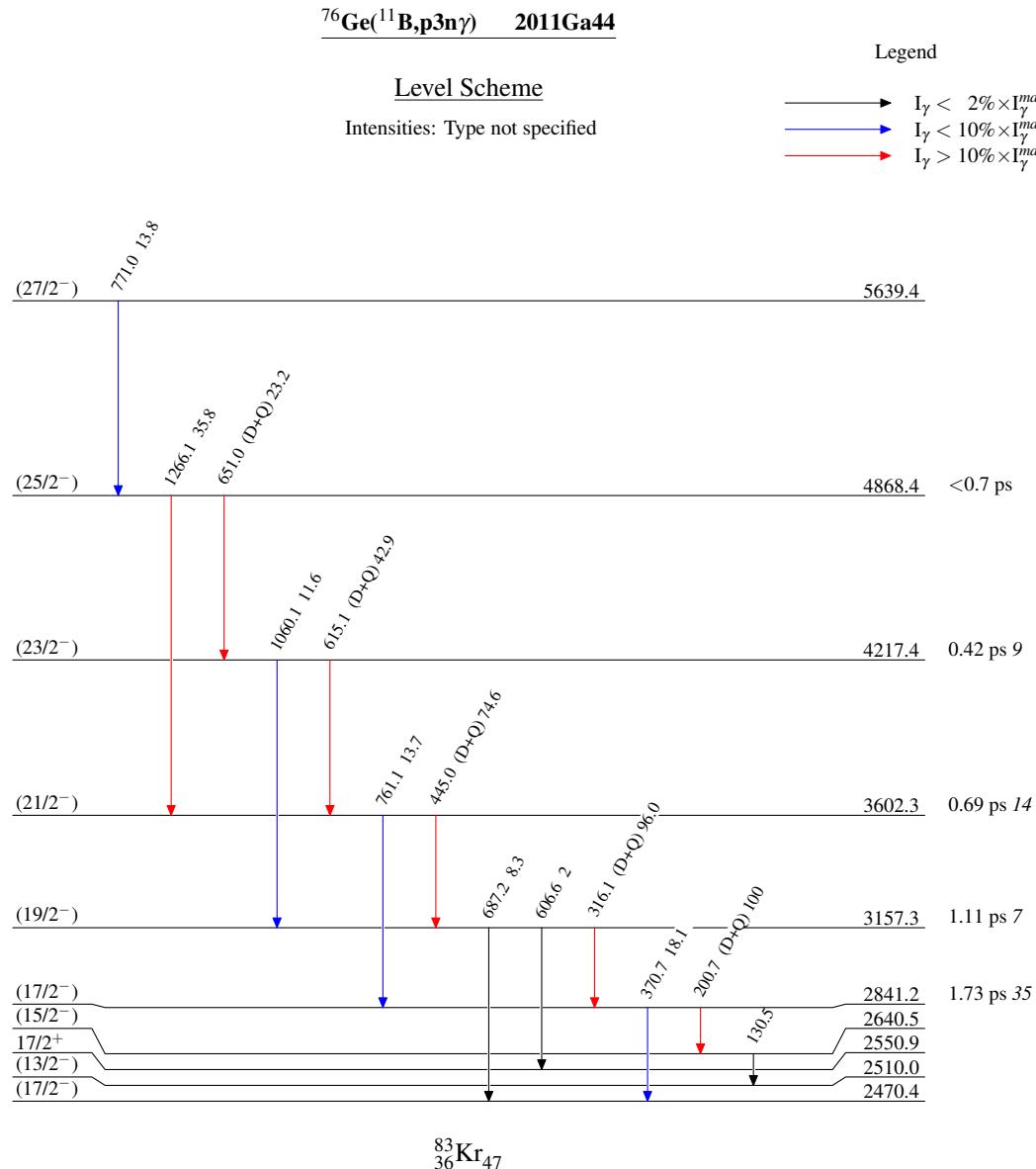
$^\#$ From Doppler Shift Attenuation Method (DSAM) measurements.

 $\gamma(^{83}\text{Kr})$

E_γ	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ‡	δ^\ddagger	Comments
130.5		2640.5	(15/2 $^-$)	2510.0	(13/2 $^-$)			E_γ : only shown in authors Figure 1.
200.7	100 6	2841.2	(17/2 $^-$)	2640.5	(15/2 $^-$)	(D+Q)	+0.035 10	Mult.: $R_{DCO}=0.49$ 6 gated on 316γ .
316.1	96.0 53	3157.3	(19/2 $^-$)	2841.2	(17/2 $^-$)	(D+Q)	+0.008 30	Mult.: $R_{DCO}=0.93$ 7 gated on 201γ .
370.7	18.1 33	2841.2	(17/2 $^-$)	2470.4	(17/2 $^-$)			
445.0	74.6 52	3602.3	(21/2 $^-$)	3157.3	(19/2 $^-$)	(D+Q)	-0.042 2	Mult.: $R_{DCO}=0.94$ 7 gated on 316γ .
606.6	2 1	3157.3	(19/2 $^-$)	2550.9	17/2 $^+$			
615.1	42.9 75	4217.4	(23/2 $^-$)	3602.3	(21/2 $^-$)	(D+Q)	-0.21 19	Mult.: $R_{DCO}=1.19$ 14 gated on 316γ .
651.0	23.2 51	4868.4	(25/2 $^-$)	4217.4	(23/2 $^-$)	(D+Q)		Mult.: $R_{DCO}=1.2$ 6 gated on 316γ .
687.2	8.3 24	3157.3	(19/2 $^-$)	2470.4	(17/2 $^-$)			
761.1	13.7 36	3602.3	(21/2 $^-$)	2841.2	(17/2 $^-$)			
771.0	13.8 37	5639.4	(27/2 $^-$)	4868.4	(25/2 $^-$)			
1060.1	11.6 44	4217.4	(23/2 $^-$)	3157.3	(19/2 $^-$)			
1266.1	35.8 71	4868.4	(25/2 $^-$)	3602.3	(21/2 $^-$)			

† Relative intensity normalized to $I\gamma(201\gamma)=100$.

‡ From R_{DCO} measurements defined as $R_{DCO}=I\gamma(144^\circ)/I\gamma(98^\circ)$ gated by γ at 98° / $I\gamma(98^\circ)$ gated by γ at 144° .

 $^{83}_{36}\text{Kr}_{47}$