

<sup>76</sup>Ge(<sup>12</sup>C,3n $\gamma$ )    1988ZhZW,1981Bu02,1983Lu05

Type	History		
	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 116, 1 (2014)	31-Dec-2013

**1988ZhZW, 1988ZhZV, 1988ZhZU:** E=40, 46 MeV. Measured E $\gamma$ , I $\gamma$ ,  $\gamma\gamma$ ,  $\gamma(\theta)$ , lifetimes by DSA. **1988ZhZW** provide E $\gamma$ , I $\gamma$  data at 40 and 46 MeV; **1988ZhZU**  $\gamma(\theta)$  data coefficients; and **1988ZhZV** lifetime measurements.

**Additional information 1.**

**1983Lu05:** E=42-52 MeV, measured  $\gamma$  and lifetimes by recoil distance Doppler shift.

**1981Bu02:** E=40 MeV, measured E $\gamma$ , I $\gamma$ ,  $\gamma(\theta)$ , and lifetimes by recoil-distance Doppler-shift method. The authors adopt level scheme from ( $\alpha$ ,ny) and ( $\alpha$ ,3ny) study of **1977Ar04**.

**1978Iv02:** E=35-45 MeV, measured excitation functions. This paper is from the same group as **1981Bu02**. The following  $\gamma$  rays were assigned to high-spin levels based on excitation functions: 232, 265, 369, 661, 681, 739, 991, 1111, 1289 and 1659. Weaker lines from **1977Ar04** are verified at 128, 312, 444, 454, 494, 527, 629 and 861.

<sup>85</sup>Sr Levels

E(level)	J $^{\pi}$ #	T <sub>1/2</sub> @	Comments
0.0	9/2 $^{+}$		
231.8 6	7/2 $^{+}$		
238.79 5	1/2 $^{-}$	67.63 min 4	E(level),J $^{\pi}$ ,T <sub>1/2</sub> : from Adopted Levels.
742.7 10	(3/2 $^{-}$ )		
767.4 8	(5/2 $^{+}$ )		
785.7 12	(5/2 $^{-}$ )		
936.7 10	5/2 $^{-}$		
1111.5 7	13/2 $^{+}$	2.56 ps 21	T <sub>1/2</sub> : from <b>1981Bu02</b> . Other: 1.18 ps 35 ( <b>1988ZhZV</b> ). <b>Additional information 2.</b>
1220.9 7	11/2 $^{+}$	0.62 ps 14	
1261.9 7	9/2 $^{+}$		
1626.8 12	9/2 $^{+}$		
1657.8 7	(11/2) $^{+}$		
1850.7 8	13/2 $^{+}$	1.7 ps 4	
2102.6 8	13/2 $^{-}$		
2367.6 10	17/2 $^{-}$	2.4 ns 12	T <sub>1/2</sub> : from <b>1981Bu02</b> . Other: >0.76 ns ( <b>1983Lu05</b> , seems incorrectly assigned to 2102, 17/2 $^{-}$ level and 991 $\gamma$ ).
2400.4 9	17/2 $^{+}$	2.25 ps 21	T <sub>1/2</sub> : weighted average of 2.15 ps 21 ( <b>1981Bu02</b> ) and 2.56 ps 28 ( <b>1983Lu05</b> ). Other: 0.62 ps 21 ( <b>1988ZhZV</b> ).
2525.9 9	15/2 $^{+}$	0.139 ps 35	
2534.5 $^{\ddagger}$ 12	17/2 $^{(-)}$		E(level),J $^{\pi}$ : level from <b>1981Bu02</b> .
2661.7 $^{\ddagger}$ 9	15/2 $^{-}$	0.42 ps 14	
2854.4 $^{\ddagger}$ 14	19/2 $^{(+)}$		E(level): level from <b>1981Bu02</b> .
2861.6 $^{\ddagger}$ 10	17/2 $^{-}$	0.83 ps 35	
3028.5 10	19/2 $^{-}$	1.9 ps 4	T <sub>1/2</sub> : weighted average of 2.1 ps 4 ( <b>1981Bu02</b> ), 3.5 ps 8 ( <b>1983Lu05</b> ), and 1.46 ps 35 ( <b>1988ZhZV</b> ).
3073.2 $^{\ddagger}$ 10	(17/2 $^{+}$ ,19/2 $^{+}$ )		J $^{\pi}$ : 17/2 $^{+}$ in <b>1988ZhZU</b> but 19/2 $^{+}$ in <b>1988ZhZW</b> ; (17/2) $^{+}$ In Adopted Levels.
3081.4 14	(21/2 $^{+}$ )	51 ps 7	T <sub>1/2</sub> : weighted average of 46 ps 4 ( <b>1983Lu05</b> ) and 61 ps 6 ( <b>1981Bu02</b> ). Other:>5.5 ps ( <b>1988ZhZV</b> ).
3228.6 $^{\ddagger}$ 14	(21/2 $^{-}$ )	>2.8 ps	
3380.4 $^{\ddagger}$ 17	21/2 $^{(+)}$		E(level): level from <b>1981Bu02</b> .
3385.3 $^{\ddagger}$ 11	19/2 $^{+}$		
3397.5 14	21/2 $^{-}$	2.27 ps 21	T <sub>1/2</sub> : from weighted average of 2.22 ps 28 ( <b>1981Bu02</b> ) and 2.36 ps 21 ( <b>1983Lu05</b> ), 1.7 ps 6 ( <b>1988ZhZV</b> ). Lifetime not corrected for possible side feedings.
3513.3 $^{\ddagger}$ 11	21/2 $^{+}$		J $^{\pi}$ : from <b>1988ZhZW</b> , (23/2) In <b>1981Bu02</b> .
3825.3 $^{\ddagger}$ 15		6.2 ps 14	J $^{\pi}$ : proposed J=25/2 ( <b>1988ZhZW</b> ) is inconsistent with mult=M1+E2 for 312 $\gamma$ to

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$^{76}\text{Ge}(^{12}\text{C},3\text{n}\gamma)$     **1988ZhZW,1981Bu02,1983Lu05 (continued)** $^{85}\text{Sr}$  Levels (continued)

E(level)	J $\pi^{\#}$	T $_{1/2}^{\pi}$ @	Comments
		21/2 $^{+}$ .	
		T $_{1/2}$ : from 1983Lu05, not corrected for possible side feedings.	
3967.3 <sup>†</sup> 15	23/2 $^{+}$	0.55 ps 21	
3971.5 <sup>†‡</sup> 14	(21/2 $^{-}$ )		
4105.5 <sup>†</sup> 18	23/2 $^{-}$	0.21 ps 7	
4362.5 <sup>†</sup> 18	(25/2 $^{-}$ )	1.6 ps 7	J $\pi$ : (23/2 $^{-}$ ) in Adopted Levels.
4493.3 <sup>†</sup> 18	25/2 $^{+}$	0.45 ps 17	
5072.5 <sup>†</sup> 20	(25/2 $^{-}$ )	0.9 ps 4	
5093.3 <sup>†</sup> 21	27/2 $^{+}$	0.17 ps 6	

<sup>†</sup> Level from 1988ZhZW and 1988ZhZU, some levels are based on revised placement of  $\gamma$  rays or  $\gamma$  cascades in earlier studies.

<sup>‡</sup> Level not listed in Adopted dataset, the associated  $\gamma$  transition is either relocated or non-existent in more recent  $^{76}\text{Ge}(^{13}\text{C},4\text{n}\gamma)$  study by 2012KuZX.

# As proposed in 1988ZhZW and 1988ZhZU.

@ From DSAM (1988ZhZV) unless otherwise stated.

 $\gamma(^{85}\text{Sr})$ 

A<sub>2</sub> and A<sub>4</sub> coefficients are from 1988ZhZU unless otherwise stated. Corresponding values for several transitions are also available from 1981Bu02.

E $_{\gamma}^{\dagger}$	I $_{\gamma}^{\ddagger}$	E $_i$ (level)	J $_{i}^{\pi}$	E $_f$	J $_{f}^{\pi}$	Mult.&	$\delta^{\&}$	Comments
						D @		
128	7.2 2	3513.3	21/2 $^{+}$	3380.4	21/2 $^{(+)}$			Additional information 26. A <sub>2</sub> =-0.32 6, A <sub>4</sub> =-0.06 6 (1981Bu02). I $_{\gamma}$ : 7 at E( $^{12}\text{C}$ )=40 MeV, 10 at 46 MeV (1988ZhZW).
167 <sup>a</sup>		2534.5	17/2 $^{(-)}$	2367.6	17/2 $^{-}$			ordering of 494-167 cascade reversed In 1988ZhZW.
167		3028.5	19/2 $^{-}$	2861.6	17/2 $^{-}$			A <sub>2</sub> =0.00 5; A <sub>4</sub> =-0.03 7
194	1 <sup>#</sup>	936.7	5/2 $^{-}$	742.7	(3/2 $^{-}$ )			A <sub>2</sub> =+0.25 4; A <sub>4</sub> =+0.10 7
200	4 <sup>#</sup>	2861.6	17/2 $^{-}$	2661.7	15/2 $^{-}$			A <sub>2</sub> =+0.10 5; A <sub>4</sub> =-0.02 8
232	23 <sup>#</sup>	231.8	7/2 $^{+}$	0.0	9/2 $^{+}$			A <sub>2</sub> =+0.14 5; A <sub>4</sub> =-0.07 4 Additional information 3.
265	29.9 3	2367.6	17/2 $^{-}$	2102.6	13/2 $^{-}$	E2		Additional information 15. A <sub>2</sub> =+0.23 3, A <sub>4</sub> =-0.12 3 (1981Bu02). I $_{\gamma}$ : 29 at E( $^{12}\text{C}$ )=40 MeV, 32 at 46 MeV (1988ZhZW).
312	4 <sup>#</sup>	3385.3	19/2 $^{+}$	3073.2	(17/2 $^{+}$ ,19/2 $^{+}$ )	D @		A <sub>2</sub> =-0.38 8; A <sub>4</sub> =+0.03 8 Additional information 23.
312 <sup>a</sup>	3.9 1	3825.3		3513.3	21/2 $^{+}$	(M1+E2)	-0.12 7	312 $\gamma$ (I $_{\gamma}$ =5,4) placed from a 3385 level In 1988ZhZU.
369	15.1 3	3397.5	21/2 $^{-}$	3028.5	19/2 $^{-}$	(M1+E2)	-0.09 3	A <sub>2</sub> =-0.43 4, A <sub>4</sub> =-0.03 4 (1981Bu02). Additional information 25.
								A <sub>2</sub> =-0.43 4, A <sub>4</sub> =0 (1981Bu02). I $_{\gamma}$ : 12 at E( $^{12}\text{C}$ )=40 MeV, 17 at 46 MeV (1988ZhZW).
396	1 <sup>#</sup>	1657.8	(11/2) $^{+}$	1261.9	9/2 $^{+}$	D @		A <sub>2</sub> =-0.40 15; A <sub>4</sub> =+0.01 10

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$^{76}\text{Ge}(^{12}\text{C},3\text{n}\gamma)$  1988ZhZW,1981Bu02,1983Lu05 (continued) $\gamma(^{85}\text{Sr})$  (continued)

$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_l(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.&	$\delta^&$	Comments
440 <sup>a</sup>	2 <sup>#</sup>	3513.3	21/2 <sup>+</sup>	3073.2	(17/2 <sup>+</sup> ,19/2 <sup>+</sup> )			Additional information 27.
445	13.8 2	2102.6	13/2 <sup>-</sup>	1657.8	(11/2) <sup>+</sup>	D <sup>@</sup>		Additional information 13. $A_2=-0.23$ 2, $A_4=-0.05$ 3 (1981Bu02).
454 <sup>a</sup>		2854.4	19/2 <sup>(+)</sup>	2400.4	17/2 <sup>+</sup>	(M1+E2)	-0.12 4	$I_\gamma$ : 14 at $E(^{12}\text{C})=40$ , 46 MeV (1988ZhZW).
454	11 <sup>#</sup>	3967.3	23/2 <sup>+</sup>	3513.3	21/2 <sup>+</sup>			$454\gamma$ ( $I\gamma=11$ , 17) placed from a 3967 level In 1988ZhZV. $A_2=-0.58$ 4, $A_4=+0.10$ 4 (1981Bu02).
454	3 <sup>#</sup>	2861.6	17/2 <sup>-</sup>	2367.6	17/2 <sup>-</sup>			$A_2=-0.13$ 7; $A_4=-0.04$ 9
494	3.3 1	3028.5	19/2 <sup>-</sup>	2534.5	17/2 <sup>(-)</sup>	(M1+E2)	+0.30 15	Additional information 29. $A_2=-0.70$ 20; $A_4=0$ 494 $\gamma$ ( $I\gamma=3$ ) placed from a 2862 level In 1988ZhZU. Note that ordering of 454-167 cascade is reversed In other studies. $A_2=+0.26$ 2, $A_4=0$ (1981Bu02).
504	2 <sup>#</sup>	742.7	(3/2 <sup>-</sup> )	238.79	1/2 <sup>-</sup>			Additional information 4.
526 <sup>a</sup>		3380.4	21/2 <sup>(+)</sup>	2854.4	19/2 <sup>(+)</sup>	(M1+E2)	-1.8 3	526 $\gamma$ ( $I\gamma=6$ , 12) placed from a 4493 level In 1988ZhZU. $A_2=-0.77$ 12, $A_4=+0.14$ 13 (1981Bu02).
526	6 <sup>#</sup>	4493.3	25/2 <sup>+</sup>	3967.3	23/2 <sup>+</sup>	D <sup>@</sup>		$A_2=-0.35$ 5; $A_4=+0.01$ 9 Additional information 33.
536	1 <sup>#</sup>	767.4	(5/2 <sup>+</sup> )	231.8	7/2 <sup>+</sup>	D <sup>@</sup>		$A_2=-0.29$ 6; $A_4=-0.01$ 7
547 <sup>b</sup>	6 <sup>#</sup>	785.7	(5/2 <sup>-</sup> )	238.79	1/2 <sup>-</sup>	@		$A_2=-0.70$ 20; $A_4=0$ $A_2$ value is inconsistent with $\Delta J=2$ , E2 transition. Additional information 5.
547 <sup>b</sup>	4 <sup>#</sup>	3073.2	(17/2 <sup>+</sup> ,19/2 <sup>+</sup> )	2525.9	15/2 <sup>+</sup>			$A_2=+0.30$ 10; $A_4=0$ Additional information 19.
559	4 <sup>#</sup>	2661.7	15/2 <sup>-</sup>	2102.6	13/2 <sup>-</sup>			$A_2=+0.54$ 8; $A_4=-0.09$ 8
600	2 <sup>#</sup>	5093.3	27/2 <sup>+</sup>	4493.3	25/2 <sup>+</sup>	D <sup>@</sup>		$A_2=-0.08$ 5; $A_4=-0.05$ 10 Additional information 35. note that a 600 $\gamma$ is placed from a 3981 level In ( $\alpha$ ,3n $\gamma$ ) (1977Ar04).
628	9.6 4	3028.5	19/2 <sup>-</sup>	2400.4	17/2 <sup>+</sup>	D <sup>@</sup>		Additional information 17. $A_2=-0.28$ 8, $A_4=+0.09$ 7 (1981Bu02).
661	13.7 3	3028.5	19/2 <sup>-</sup>	2367.6	17/2 <sup>-</sup>	(M1+E2)	-0.09 3	$I_\gamma$ : 7 at $E(^{12}\text{C})=40$ MeV, 10 at 46 MeV (1988ZhZW). Additional

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$^{76}\text{Ge}(^{12}\text{C},3\text{n}\gamma)$     1988ZhZW,1981Bu02,1983Lu05 (continued) $\gamma(^{85}\text{Sr})$  (continued)

$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.&	$\delta^{\&}$	Comments
								information 18.
								$A_2=-0.42$ 4, $A_4=+0.10$ 4 (1981Bu02).
								$I_\gamma$ : 14 at $E(^{12}\text{C})=40$ MeV, 21 at 46 MeV (1988ZhZW).
673	2 <sup>#</sup>	3073.2	(17/2 <sup>+</sup> ,19/2 <sup>+</sup> )	2400.4	17/2 <sup>+</sup>			Additional information 20.
681	11.4 3	3081.4	(21/2 <sup>+</sup> )	2400.4	17/2 <sup>+</sup>	E2		Additional information 21.
								$A_2=+0.24$ 5, $A_4=-0.08$ 6 (1981Bu02).
								$I_\gamma$ : 11 at $E(^{12}\text{C})=40$ MeV, 14 at 46 MeV (1988ZhZW).
698	3 <sup>#</sup>	936.7	5/2 <sup>-</sup>	238.79	1/2 <sup>-</sup>			Additional information 6.
708	3 <sup>#</sup>	4105.5	23/2 <sup>-</sup>	3397.5	21/2 <sup>-</sup>			Additional information 31.
739	6 <sup>#</sup>	1850.7	13/2 <sup>+</sup>	1111.5	13/2 <sup>+</sup>	(M1)		$A_2=+0.32$ 12; $A_4=-0.14$ 10 Additional information 12.
767	1 <sup>#</sup>	767.4	(5/2 <sup>+</sup> )	0.0	9/2 <sup>+</sup>			$A_2=+0.27$ 7; $A_4=0$
811	3 <sup>#</sup>	2661.7	15/2 <sup>-</sup>	1850.7	13/2 <sup>+</sup>	D@		$A_2=-0.24$ 6; $A_4=-0.09$ 9
861 <sup>d</sup>	7 <sup>d#</sup>	3228.6	(21/2 <sup>-</sup> )	2367.6	17/2 <sup>-</sup>	(E2)		$A_2=+0.21$ 4; $A_4=-0.07$ 4 Additional information 22.
861 <sup>ca</sup>	7.3 <sup>c</sup> 1	3397.5	21/2 <sup>-</sup>	2534.5	17/2 <sup>(-)</sup>	E2		$A_2=+0.21$ 2, $A_4=-0.06$ 2 (1981Bu02).
943 <sup>a</sup>	3 <sup>#</sup>	3971.5	(21/2 <sup>-</sup> )	3028.5	19/2 <sup>-</sup>			Additional information 30.
965	2 <sup>#</sup>	4362.5	(25/2 <sup>-</sup> )	3397.5	21/2 <sup>-</sup>			$A_2=+0.4$ 2; $A_4=0$ Additional information 32.
967	2 <sup>#</sup>	5072.5	(25/2 <sup>-</sup> )	4105.5	23/2 <sup>-</sup>	D@		$A_2=-0.6$ 2; $A_4=0$ Additional information 34.
985	4 <sup>#</sup>	3385.3	19/2 <sup>+</sup>	2400.4	17/2 <sup>+</sup>			$A_2=+0.3$ 1; $A_4=0$ Additional information 24.
989	1 <sup>#</sup>	1220.9	11/2 <sup>+</sup>	231.8	7/2 <sup>+</sup>			
991	19.6 4	2102.6	13/2 <sup>-</sup>	1111.5	13/2 <sup>+</sup>	D+Q	+0.65 30	Additional information 14.
								$A_2=+0.28$ 4, $A_4=0$ (1981Bu02).
								$I_\gamma$ : 23 at $E(^{12}\text{C})=40$ MeV, 24 at 46 MeV (1988ZhZW).
1030	3 <sup>#</sup>	1261.9	9/2 <sup>+</sup>	231.8	7/2 <sup>+</sup>	D@		$A_2=-0.32$ 8; $A_4=-0.05$ 5
1111	100.0 12	1111.5	13/2 <sup>+</sup>	0.0	9/2 <sup>+</sup>	E2		Additional information 7.
								$A_2=+0.22$ 2, $A_4=-0.11$ 3 (1981Bu02).
1113	4 <sup>#</sup>	3513.3	21/2 <sup>+</sup>	2400.4	17/2 <sup>+</sup>			Additional information 28.
1221	12 <sup>#</sup>	1220.9	11/2 <sup>+</sup>	0.0	9/2 <sup>+</sup>	D@		$A_2=-0.57$ 7; $A_4=-0.02$ 4 Additional information 8.
1262	2 <sup>#</sup>	1261.9	9/2 <sup>+</sup>	0.0	9/2 <sup>+</sup>			$A_2=+0.2$ 1; $A_4=0$
1289	40.4 4	2400.4	17/2 <sup>+</sup>	1111.5	13/2 <sup>+</sup>	E2		Additional

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 $^{76}\text{Ge}({}^{12}\text{C},3\text{n}\gamma)$     **1988ZhZW,1981Bu02,1983Lu05 (continued)**


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 $\gamma(^{85}\text{Sr})$  (continued)

	$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. &	$\delta^&$	Comments
									information 16.
									$A_2=+0.25~2, A_4=-0.12~2$ ( <a href="#">1981Bu02</a> ). $I_\gamma$ : 40 at $E({}^{12}\text{C})=40$ MeV, 47 at 46 MeV ( <a href="#">1988ZhZW</a> ).
1305	2 <sup>#</sup>	2525.9	15/2 <sup>+</sup>	1220.9	11/2 <sup>+</sup>	(E2)			$A_2=+0.3~I; A_4=0$
1395	8 <sup>#</sup>	1626.8	9/2 <sup>+</sup>	231.8	7/2 <sup>+</sup>				$A_2=+0.20~5; A_4=+0.05~3$ <a href="#">Additional information 9</a> .
1414	4 <sup>#</sup>	2525.9	15/2 <sup>+</sup>	1111.5	13/2 <sup>+</sup>	(M1)			$A_2=-0.50~15; A_4=0$ <a href="#">Additional information 10</a> .
1426	6.4 2	1657.8	(11/2) <sup>+</sup>	231.8	7/2 <sup>+</sup>	Q			$A_2=+0.22~5, A_4=-0.07~5$ ( <a href="#">1981Bu02</a> ). $I_\gamma$ : 7 at $E({}^{12}\text{C})=40$ MeV, 6 at 46 MeV ( <a href="#">1988ZhZW</a> ).
1658	8.5 2	1657.8	(11/2) <sup>+</sup>	0.0	9/2 <sup>+</sup>	(M1+E2)	-1.1 +7-5		<a href="#">Additional information 11</a> . $A_2=-0.77~9, A_4=+0.10~6$ ( <a href="#">1981Bu02</a> ). $I_\gamma$ : 13 at $E({}^{12}\text{C})=40$ MeV, 11 at 46 MeV ( <a href="#">1988ZhZW</a> ).
1851	4 <sup>#</sup>	1850.7	13/2 <sup>+</sup>	0.0	9/2 <sup>+</sup>	(E2)			$A_2=+0.45~20; A_4=0$

<sup>†</sup> From [1988ZhZW](#) unless otherwise stated.

<sup>‡</sup> From [1981Bu02](#) at  $E({}^{12}\text{C})=40$  MeV, unless otherwise stated. These values are comparable to those from [1988ZhZW](#) at 40 and 46 MeV.

<sup>#</sup> From [1988ZhZW](#) at  $E({}^{12}\text{C})=40$  MeV. Values at 46 MeV are given under comments, when different.

<sup>@</sup> Dipole, most likely  $\Delta J=1$ , from negative  $A_2$  value in  $\gamma(\theta)$  data.

<sup>&</sup> From  $\gamma(\theta)$  data in [1981Bu02](#) and [1988ZhZU](#); RUL used when level lifetimes are available.

<sup>a</sup> Gamma either relocated or non-existent in Adopted dataset based on more recent  $^{76}\text{Ge}({}^{13}\text{C},4\text{n}\gamma)$  study by [2012KuZX](#).

<sup>b</sup> Multiply placed.

<sup>c</sup> Multiply placed with undivided intensity.

<sup>d</sup> Multiply placed with intensity suitably divided.

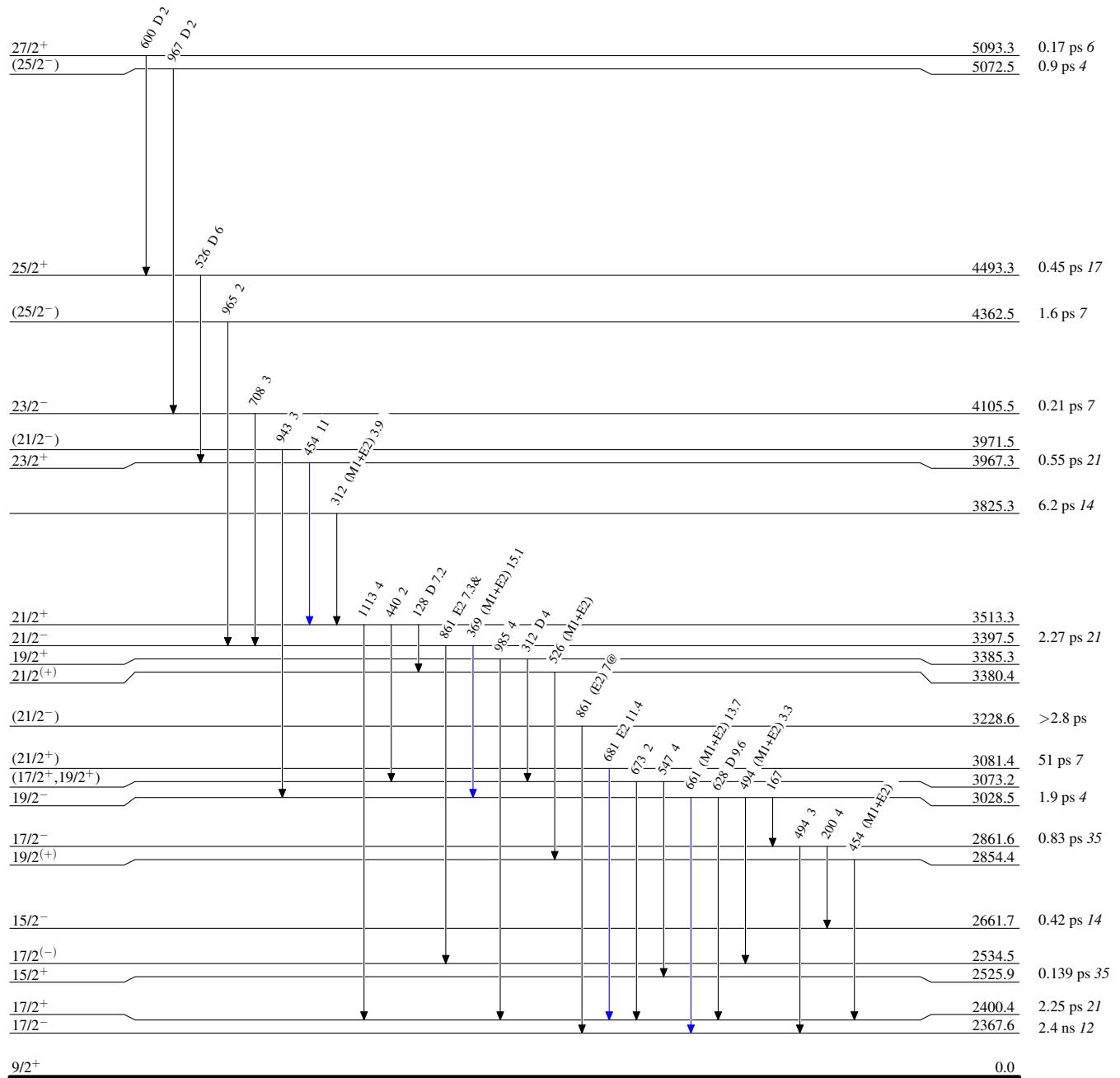
$^{76}\text{Ge}(^{12}\text{C},3n\gamma)$     1988ZhZW,1981Bu02,1983Lu05Level SchemeIntensities: Relative  $I_\gamma$ 

&amp; Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided

## Legend

- $I_\gamma < 2\% \times I_{\gamma}^{\max}$
- $I_\gamma < 10\% \times I_{\gamma}^{\max}$
- $I_\gamma > 10\% \times I_{\gamma}^{\max}$



$^{76}\text{Ge}(^{12}\text{C},3\text{n}\gamma)$  1988ZhZW,1981Bu02,1983Lu05

## Level Scheme (continued)

## Legend

Intensities: Relative  $I_\gamma$ 

&amp; Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided

- $I_\gamma < 2\% \times I_{\gamma}^{\max}$
- $I_\gamma < 10\% \times I_{\gamma}^{\max}$
- $I_\gamma > 10\% \times I_{\gamma}^{\max}$

