

(HL,xn γ) 1982Br05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, E. Browne		NDS 157, 260 (2019)	1-Mar-2019

$^{76}\text{Ge}(^{12}\text{C},\alpha 2n\gamma)$, E=42 MeV to 52 MeV. Enriched target. Ge(Li), FWHM=1.9 keV to 2.1 keV at 1.33 MeV. Measured $E\gamma$, $I\gamma$, recoil-distance Doppler-shift.

1998PoZX: ^{28}Si , ^{30}Si on ^{176}Yb , E=145 MeV. Measured γ , $\gamma\gamma$, $\gamma\gamma\gamma$ $\Delta J=2$ cascade up to 10^+ level, built on g.s..

 ^{82}Kr Levels

E(level)	J^π [†]	$T_{1/2}$ [‡]	E(level)	J^π [†]	$T_{1/2}$ [‡]	E(level)	J^π [†]	$T_{1/2}$ [‡]
0	0^+		2920.0 13	(6^+)	4 ps 2	3710.0 14	(7^+)	
777.0 8	2^+		3011.0 12	(5^-)	<14 ps	4016.0 17	(8^+)	<2 ps
1475.0 8	2^+	<5 ps	3038.0 16	(6^-)	0.26 ns 7	4171.0 19	(8^-)	
1821.0 11	4^+	<7 ps	3168.0 13	(6^+)		4610.0 19	(10^+)	<7 ps
2094.0 10	3^+		3256.0 14	(6^+)		4668.0 16	(9^-)	<3 ps
2427.0 12	(4^+)		3349.0 16	(6^-)		4747.0 17	(9^-)	
2556.0 12	(4^+)		3462.0 17	(8^+)	86 ps 8	4822.0 19	(10^+)	
2648.0 12	4^-	<7 ps	3496.0 14	(7^-)	<14 ps	5325.0 21	(10^-)	
2828.0 13	$5^{(-)}$	<14 ps	3595.0 12	(7^-)				

[†] From Adopted Levels.

[‡] From recoil-distance Doppler-shift.

 $\gamma(^{82}\text{Kr})$

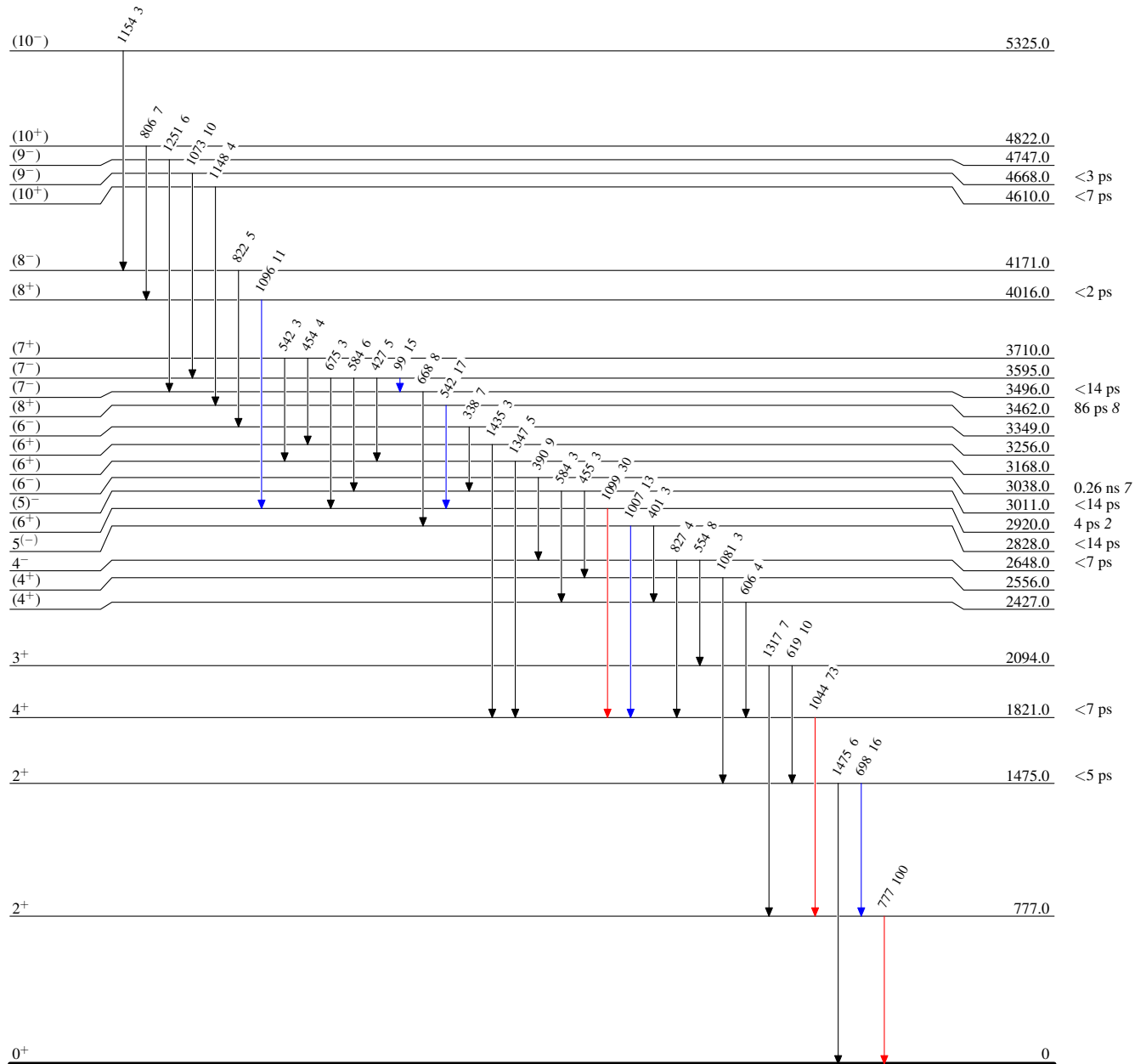
E_γ [†]	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ [†]	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
99	15 5	3595.0	(7^-)	3496.0	(7^-)	777	100	777.0	2^+	0	0^+
338	7 3	3349.0	(6^-)	3011.0	(5^-)	806	7 4	4822.0	(10^+)	4016.0	(8^+)
390	9 2	3038.0	(6^-)	2648.0	4^-	822	5 2	4171.0	(8^-)	3349.0	(6^-)
401	3 2	2828.0	$5^{(-)}$	2427.0	(4^+)	827	4 2	2648.0	4^-	1821.0	4^+
427	5 2	3595.0	(7^-)	3168.0	(6^+)	1007	13 2	2828.0	$5^{(-)}$	1821.0	4^+
454	4 2	3710.0	(7^+)	3256.0	(6^+)	1044	73 2	1821.0	4^+	777.0	2^+
455	3 2	3011.0	(5^-)	2556.0	(4^+)	1073	10 2	4668.0	(9^-)	3595.0	(7^-)
542	17 2	3462.0	(8^+)	2920.0	(6^+)	1081	3 1	2556.0	(4^+)	1475.0	2^+
542	3 2	3710.0	(7^+)	3168.0	(6^+)	1096	11 2	4016.0	(8^+)	2920.0	(6^+)
554	8 3	2648.0	4^-	2094.0	3^+	1099	30 2	2920.0	(6^+)	1821.0	4^+
584	3 2	3011.0	(5^-)	2427.0	(4^+)	1148	4 3	4610.0	(10^+)	3462.0	(8^+)
584	6 3	3595.0	(7^-)	3011.0	(5^-)	1154	3 2	5325.0	(10^-)	4171.0	(8^-)
606	4 2	2427.0	(4^+)	1821.0	4^+	1251	6 3	4747.0	(9^-)	3496.0	(7^-)
619	10 4	2094.0	3^+	1475.0	2^+	1317	7 3	2094.0	3^+	777.0	2^+
668	8 2	3496.0	(7^-)	2828.0	$5^{(-)}$	1347	5 2	3168.0	(6^+)	1821.0	4^+
675	3 2	3595.0	(7^-)	2920.0	(6^+)	1435	3 2	3256.0	(6^+)	1821.0	4^+
698	16 2	1475.0	2^+	777.0	2^+	1475	6 2	1475.0	2^+	0	0^+

[†] Deduced by the evaluators from the level energies quoted by 1982Br05.

(HI,xn γ) 1982Br05**Level Scheme**Intensities: Relative I_γ

Legend

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

 $^{82}_{36}\text{Kr}_{46}$