

$^{28}\text{Si}(^{35}\text{Cl},3\text{p}\gamma)$ 1992CuZY

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

E= 100 MeV, measured γ , $\gamma\gamma$, DCO ratios, NORDBALL array.

 ^{60}Ni Levels

E(level)	J^π [†]	Comments
0.0	0 ⁺	
1332.3 8	2 ⁺	
2158.7 8	2 ⁺	
2505.7 11	4 ⁺	
2625.8 10	3 ⁺	
3119.7 11	4 ⁺	
3184.7 13	2 ⁺ ,3 ⁺	J^π : 3 ⁺ in 1992CuZY.
3670.0 12	4 ⁺	
3732.3 11		
4165.6 13	5 ⁺	
4265.0 13	6 ⁺	
4407.6 12	(5)	
4986.0 12	(6 ⁺)	
5014.8 12	(5 ⁻)	
5148.4 12	(6)	
5191.9 15		
5348.8 12	7 ⁻	
5662.4 13	5,7	J^π : 7 ⁺ in 1992CuZY.
6073.7 15	(8)	
6111.8 14		
6461.2 13	(8 ⁺)	
6666.7 15	(9)	
6811.3 14	9 ⁻	
6837.2 15		
6944.7 18	(10)	
7049.7 18		
7095.7 18	(10)	
7432.2 17	(9 ⁺)	
7621.7 21		
7691.8 15	(9 ⁻)	
7759.3 15	(9 ⁻)	
7807.7 18		
8044.7 [‡] 13	(9 ⁻)	
8521.5 [‡] 15	(10 ⁻)	
8686.3 20		
9133.5 [‡] 18	(11 ⁻)	
9990.5 [‡] 21	(12 ⁻)	
11112.5 [‡] 23	13 ⁻	
12273.5 [‡] 25	14 ⁻	

[†] From Adopted Levels.

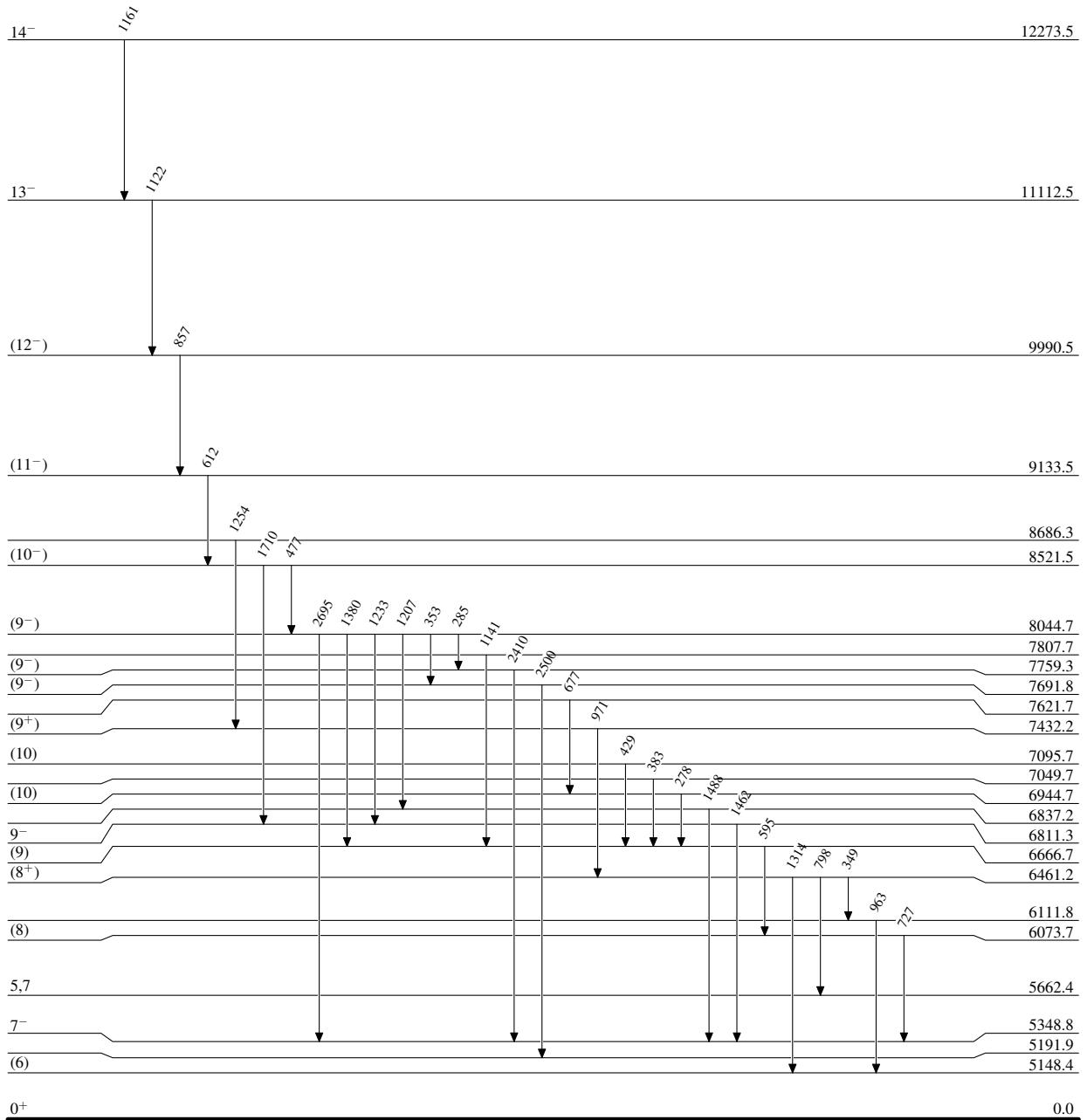
[‡] Band(A): $\Delta J=1$ band (1992CuZY). $J^\pi(8044-12273)=10^-$ to 15 in 1992CuZY.

${}^{28}\text{Si}({}^{35}\text{Cl},3\text{p}\gamma)$ **1992CuZY (continued)** $\gamma({}^{60}\text{Ni})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
200	5348.8	7 ⁻	5148.4	(6)	1122	11112.5	13 ⁻	9990.5	(12 ⁻)
242	4407.6	(5)	4165.6	5 ⁺	1141	7807.7		6666.7	(9)
278	6944.7	(10)	6666.7	(9)	1145	4265.0	6 ⁺	3119.7	4 ⁺
285	8044.7	(9 ⁻)	7759.3	(9 ⁻)	1161	12273.5	14 ⁻	11112.5	13 ⁻
334	5348.8	7 ⁻	5014.8	(5 ⁻)	1164	3670.0	4 ⁺	2505.7	4 ⁺
349	6461.2	(8 ⁺)	6111.8		1173	2505.7	4 ⁺	1332.3	2 ⁺
353	8044.7	(9 ⁻)	7691.8	(9 ⁻)	1207	8044.7	(9 ⁻)	6837.2	
363	5348.8	7 ⁻	4986.0	(6 ⁺)	1233	8044.7	(9 ⁻)	6811.3	9 ⁻
383	7049.7		6666.7	(9)	1254	8686.3		7432.2	(9 ⁺)
429	7095.7	(10)	6666.7	(9)	1294	2625.8	3 ⁺	1332.3	2 ⁺
467	2625.8	3 ⁺	2158.7	2 ⁺	1314	6461.2	(8 ⁺)	5148.4	(6)
477	8521.5	(10 ⁻)	8044.7	(9 ⁻)	1332	1332.3	2 ⁺	0.0	0 ⁺
595	6666.7	(9)	6073.7	(8)	1345	5014.8	(5 ⁻)	3670.0	4 ⁺
612	9133.5	(11 ⁻)	8521.5	(10 ⁻)	1380	8044.7	(9 ⁻)	6666.7	(9)
676	4407.6	(5)	3732.3		1397	5662.4	5,7	4265.0	6 ⁺
676	5662.4	5,7	4986.0	(6 ⁺)	1462	6811.3	9 ⁻	5348.8	7 ⁻
677	7621.7		6944.7	(10)	1488	6837.2		5348.8	7 ⁻
721	4986.0	(6 ⁺)	4265.0	6 ⁺	1660	4165.6	5 ⁺	2505.7	4 ⁺
727	6073.7	(8)	5348.8	7 ⁻	1710	8521.5	(10 ⁻)	6811.3	9 ⁻
737	4407.6	(5)	3670.0	4 ⁺	1787	3119.7	4 ⁺	1332.3	2 ⁺
741	5148.4	(6)	4407.6	(5)	1895	5014.8	(5 ⁻)	3119.7	4 ⁺
798	6461.2	(8 ⁺)	5662.4	5,7	2159	2158.7	2 ⁺	0.0	0 ⁺
826	2158.7	2 ⁺	1332.3	2 ⁺	2400	3732.3		1332.3	2 ⁺
857	9990.5	(12 ⁻)	9133.5	(11 ⁻)	2410	7759.3	(9 ⁻)	5348.8	7 ⁻
927	5191.9		4265.0	6 ⁺	2480	4986.0	(6 ⁺)	2505.7	4 ⁺
963	6111.8		5148.4	(6)	2500	7691.8	(9 ⁻)	5191.9	
971	7432.2	(9 ⁺)	6461.2	(8 ⁺)	2509	5014.8	(5 ⁻)	2505.7	4 ⁺
1026	3184.7	2 ⁺ ,3 ⁺	2158.7	2 ⁺	2643	5148.4	(6)	2505.7	4 ⁺
1107	3732.3		2625.8	3 ⁺	2695	8044.7	(9 ⁻)	5348.8	7 ⁻

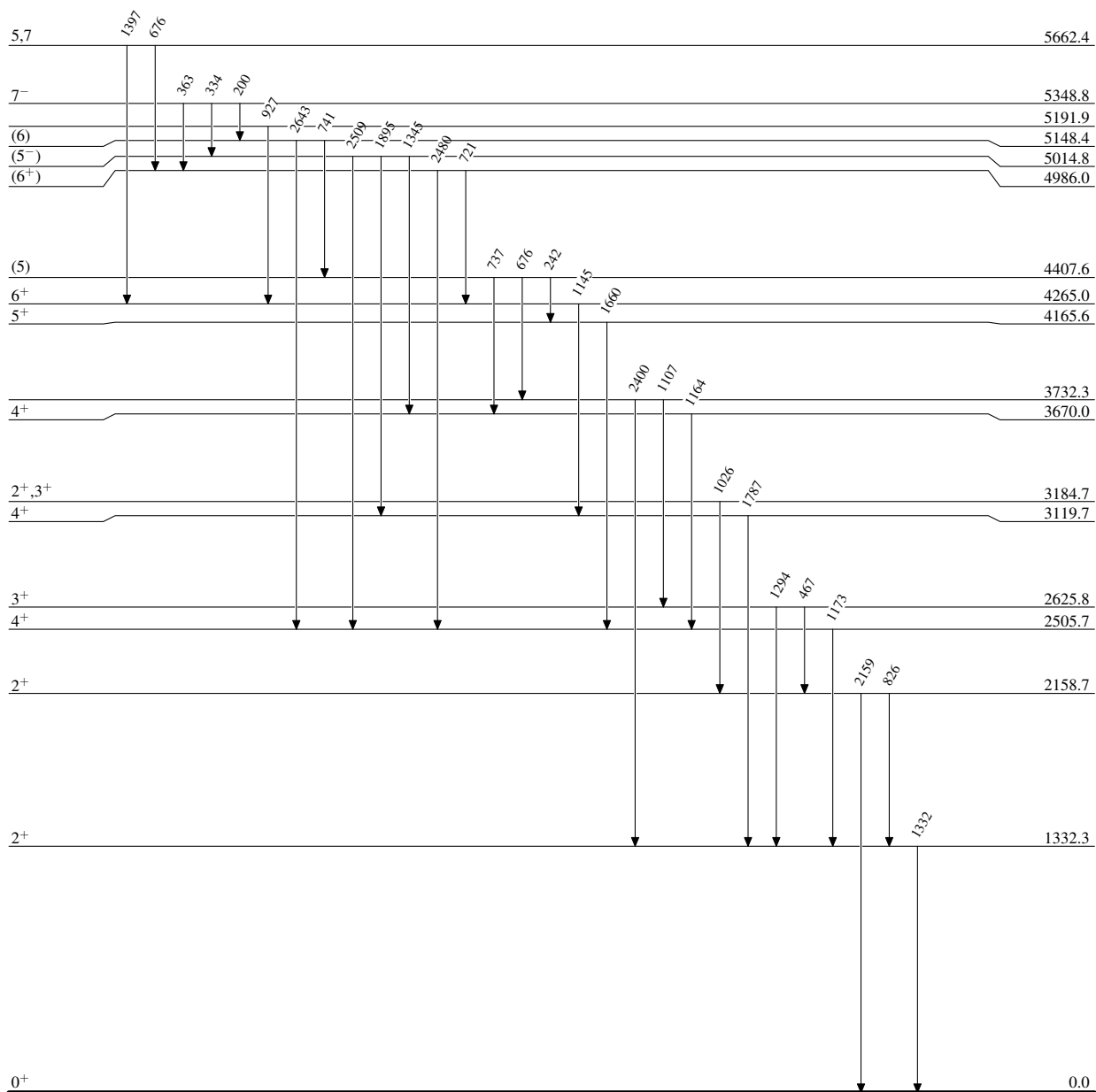
$^{28}\text{Si}(^{35}\text{Cl}, 3p\gamma)$ 1992CuZY

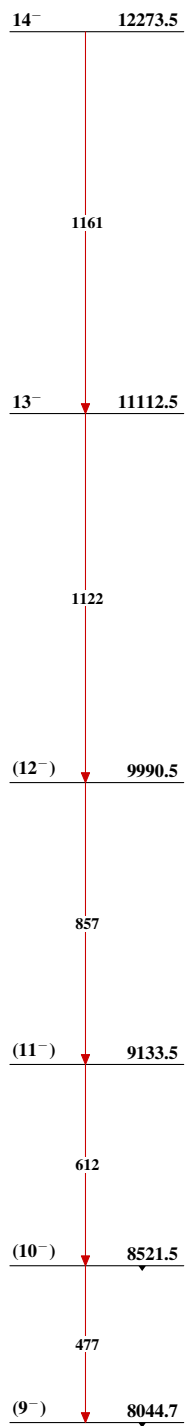
Level Scheme

 $^{60}_{28}\text{Ni}_{32}$

$^{28}\text{Si}(^{35}\text{Cl},3p\gamma)$ 1992CuZY

Level Scheme (continued)

 $^{60}_{28}\text{Ni}_{32}$

${}^{28}\text{Si}({}^{35}\text{Cl},3p\gamma)$ 1992CuZYBand(A): $\Delta J=1$ band
(1992CuZY) ${}^{60}_{28}\text{Ni}_{32}$