^{40}Ca(^{28}Si,5pγ) 1997HaZT

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 196,17 (2024)	30-Sep-2023

1997HaZT: E=120 MeV ^{28}Si beam was produced from the tandem accelerator at the Japan Atomic Energy Research Institute. Target was 300 μg/cm^2 ^{40}Ca on a gold backing. γ rays were detected with an array of 10 Ge detectors with BGO Compton suppressors and charged-particles were detected with a Si ball. Measured Eγ, Iγ, $\gamma\gamma$-coin, $\gamma(\theta)$, $\gamma\gamma$(DCO). Deduced levels. No tabulated data are presented in this report.

All data are from the level scheme in Fig.2 of 1997HaZT.

^{63}Cu Levels

E(level)	J$^\pi$	Comments
0.0	3/2$^-$	
962	5/2$^-$	
1327		
1861	7/2$^-$	
2092	7/2$^-$	
2208	9/2$^-$	
2506	9/2$^+$	
3461		
4156	13/2$^+$	
4498	17/2$^+$	J$^\pi$: 17/2$^-$ in Fig.2 could be a misprint.
4919		
5319		
6284		
7074		

γ(^{63}Cu)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
342	4498	17/2$^+$	4156	13/2$^+$	
413	2506	9/2$^+$	2092	7/2$^-$	
421	4919		4498	17/2$^+$	This γ is placed from 4576 level by 2018Ra15 in ^{52}Cr(^{18}O,αp2nγ) and 2000Mu20 in ^{52}Cr(^{16}O,αpγ), which is adopted in Adopted dataset.
644	2506	9/2$^+$	1861	7/2$^-$	
694	4156	13/2$^+$	3461		
765	2092	7/2$^-$	1327		
790	7074		6284		
821	5319		4498	17/2$^+$	
881	2208	9/2$^-$	1327		
899	1861	7/2$^-$	962	5/2$^-$	
956	3461		2506	9/2$^+$	
962	962	5/2$^-$	0.0	3/2$^-$	
1130	2092	7/2$^-$	962	5/2$^-$	
1179	2506	9/2$^+$	1327		
1650	4156	13/2$^+$	2506	9/2$^+$	
1786	6284		4498	17/2$^+$	
1861	1861	7/2$^-$	0.0	3/2$^-$	

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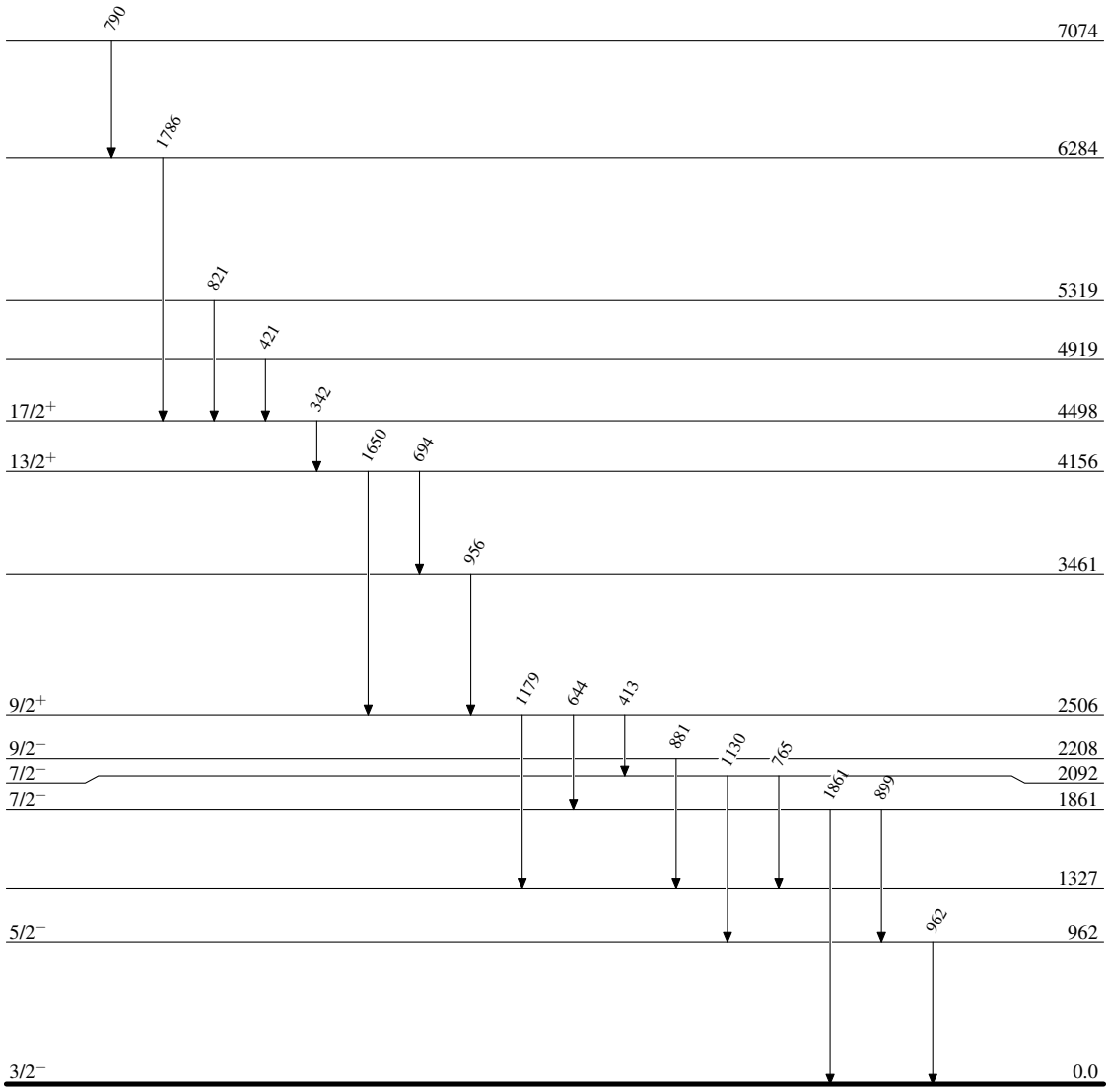
Level Scheme



$^{63}_{29}Cu_{34}$