^{208}Pb(^{64}Ni,Xγ) 2000Wi18,1997Be77

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 111,1 (2010)	1-May-2009

^{72}Zn populated through multi-nucleon transfer reaction, E=350 MeV. Measured Eγ, Iγ and $\gamma\gamma$, using the Gammasphere array of 83 Compton-suppressed Ge detectors.

^{72}Zn Levels

E(level)[†]	J$^\pi$
0[‡]	0$^+$
653.0[‡] *3*	2$^+$
1500.1[‡] *4*	(4$^+$)
2653.4[‡] *5*	(6$^+$)
2924.2 *5*	
3026.8 *5*	
3569.7[‡] *6*	(8$^+$)
4770.3[‡] *7*	(10$^+$)

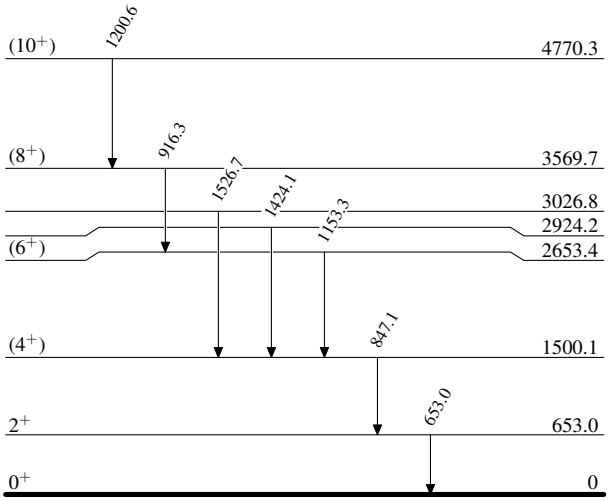
[†] From Eγ's, assuming Δ(Eγ)=0.3 keV for each gamma ray.
[‡] Band(A): Yrast band.

γ(^{72}Zn)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
653.0	653.0	2$^+$	0	0$^+$
847.1	1500.1	(4$^+$)	653.0	2$^+$
916.3	3569.7	(8$^+$)	2653.4	(6$^+$)
1153.3	2653.4	(6$^+$)	1500.1	(4$^+$)
1200.6	4770.3	(10$^+$)	3569.7	(8$^+$)
1424.1	2924.2		1500.1	(4$^+$)
1526.7	3026.8		1500.1	(4$^+$)

^{208}Pb(^{64}Ni,Xγ) 2000Wi18,1997Be77

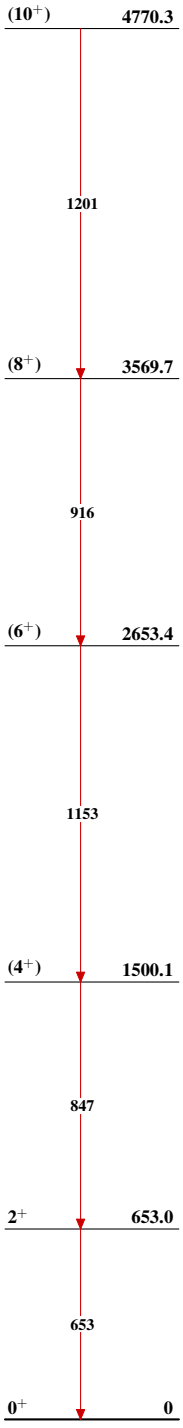
Level Scheme



$^{72}_{30}Zn_{42}$

^{208}Pb(^{64}Ni,Xγ) 2000Wi18,1997Be77

Band(A): Yrast band



$^{72}_{30}Zn_{42}$