^{208}Pb(^{64}Ni,Xγ)   **2000Wi18**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan	NDS 136, 1 (2016)	1-Jul-2016

E(^{64}Ni)=360 MeV. Measured Eγ, Iγ, $\gamma\gamma\gamma$ using Gammasphere array consisting of 83 Compton-suppressed HPGe detectors.
Similar results are given in 1997Be77.

^{70}Zn Levels

E(level)[†]	J$^{\pi}$[‡]	Comments
0[#]	0$^+$	
885.4[#]	2$^+$	
1787.6[#]	4$^+$	
2896.5[#]	(6$^+$)	
3039.7	5$^-$	J$^{\pi}$: proposed as J$^{\pi}$=4$^+$ in 2000Wi18.
3477.7		
3600.8		J$^{\pi}$: proposed as J$^{\pi}$=(5$^+$) in 2000Wi18.
3756.8[#]	(8$^+$)	
3790.1		J$^{\pi}$: proposed as J$^{\pi}$=(6$^+$) in 2000Wi18.
4937.3[#]	(10$^+$)	
6117.7[#]	(12$^+$)	

[†] From a least-squares fit to Eγ, by evaluators.
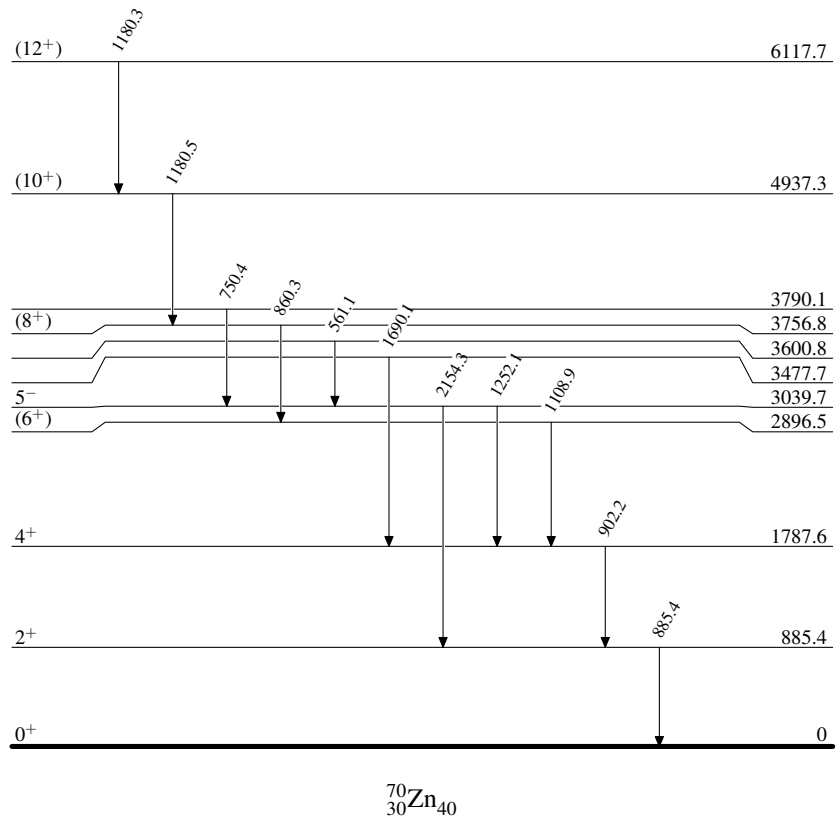[‡] From the Adopted Levels. Differences in assignments as proposed by 2000Wi18 are indicated in the comments.
[#] Band(A): Yrast band.

γ(^{70}Zn)

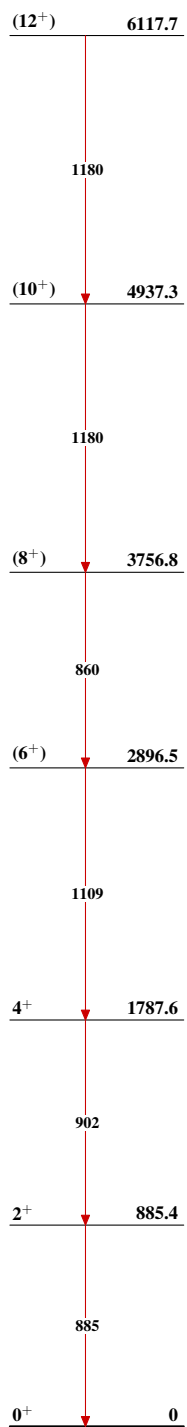| Eγ	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$	Comments
561.1	3600.8		3039.7	5$^-$	
750.4	3790.1		3039.7	5$^-$	
860.3	3756.8	(8$^+$)	2896.5	(6$^+$)	
885.4	885.4	2$^+$	0	0$^+$	
902.2	1787.6	4$^+$	885.4	2$^+$	
1108.9	2896.5	(6$^+$)	1787.6	4$^+$	
1180.3	6117.7	(12$^+$)	4937.3	(10$^+$)	
1180.5	4937.3	(10$^+$)	3756.8	(8$^+$)	
1252.1	3039.7	5$^-$	1787.6	4$^+$	
1690.1	3477.7		1787.6	4$^+$	
2154.3	3039.7	5$^-$	885.4	2$^+$	Eγ: The adopted J$^{\pi}$ requires E3 or M4 for this transition. This transition depopulates another level in ^{70}Zn(n,n') dataset. The evaluators adopted the ^{70}Zn(n,n') placement for this transition in Adopted Levels.

^{208}Pb(^{64}Ni,Xγ)   2000Wi18

Level Scheme

$^{70}_{30}$Zn$_{40}$

^{208}Pb(^{64}Ni,Xγ)   2000Wi18

Band(A): Yrast band

(12$^+$)   6117.7

1180

(10$^+$)   4937.3

1180

(8$^+$)   3756.8

860

(6$^+$)   2896.5

1109

4$^+$ 1787.6

902

2$^+$ 885.4

885

0$^+$ 0

$^{70}_{30}$Zn$_{40}$