

${}^{208}\text{Pb}({}^{64}\text{Ni}, \text{X}\gamma)$ 2000Wi18,1997Be77

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

$E({}^{64}\text{Ni})=360$ MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma\gamma$ using Gammasphere array consisting of 83 Compton-suppressed HPGe detectors.

 ${}^{68}\text{Zn}$ Levels

<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>	<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>	<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>	<u>$E(\text{level})^\dagger$</u>	<u>J^π^\ddagger</u>
0.0 [#]	0 ⁺ @	2959.7	4 ⁺	3688.7 [#]	(6 ⁺)@	4867.6	(10 ⁻)
1076.6 [#]	2 ⁺ @	3459.6	5 ⁻ @	3944.6	(8 ⁻)	5992.3	(12 ⁻)
2417.9 [#]	4 ⁺ @	3611.7	(6) ⁻ @	4399.1 [#]	(8 ⁺)@		

[†] From least-squares fit to $E\gamma$'s by evaluator.

[‡] Taken from figure 5 of 2000Wi18, no detailed arguments on J^π assignments given by authors.

[#] Band(A): Yrast band.

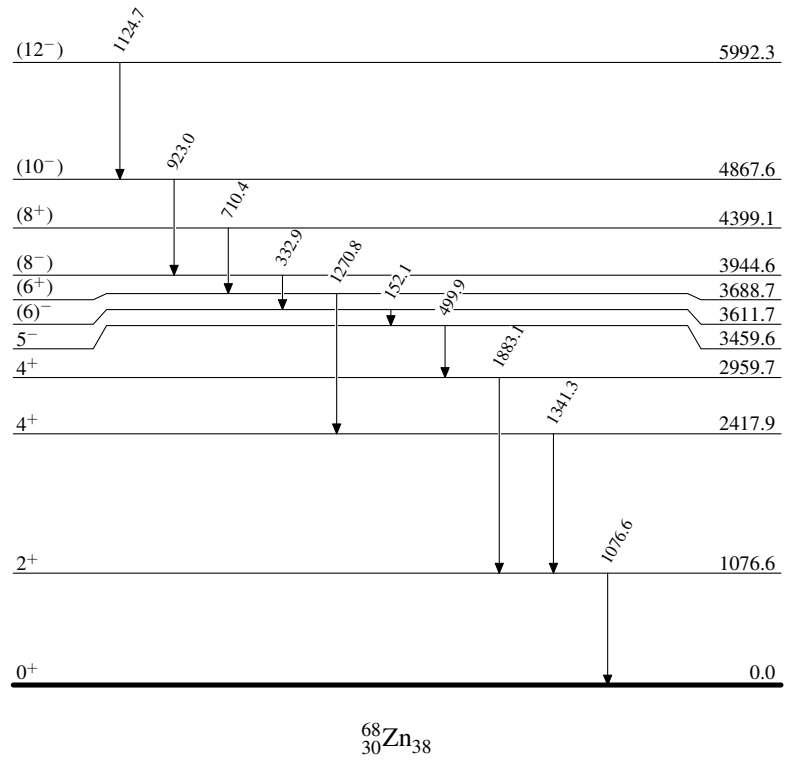
@ From the Adopted Levels.

 $\gamma({}^{68}\text{Zn})$

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
152.1	3611.7	(6) ⁻	3459.6	5 ⁻
332.9	3944.6	(8) ⁻	3611.7	(6) ⁻
499.9	3459.6	5 ⁻	2959.7	4 ⁺
710.4	4399.1	(8 ⁺)	3688.7	(6 ⁺)
923.0	4867.6	(10 ⁻)	3944.6	(8 ⁻)
1076.6	1076.6	2 ⁺	0.0	0 ⁺
1124.7	5992.3	(12 ⁻)	4867.6	(10 ⁻)
1270.8	3688.7	(6 ⁺)	2417.9	4 ⁺
1341.3	2417.9	4 ⁺	1076.6	2 ⁺
1883.1	2959.7	4 ⁺	1076.6	2 ⁺

${}^{208}\text{Pb}({}^{64}\text{Ni}, \text{X}\gamma)$ 2000Wi18,1997Be77

Level Scheme



${}^{208}\text{Pb}({}^{64}\text{Ni}, X\gamma)$ 2000Wi18,1997Be77

Band(A): Yrast band

 (8^+) 4399.1

710

 (6^+) 3688.7

1271

 4^+ 2417.9

1341

 2^+ 1076.6

1077

 0^+ 0.0 ${}^{68}_{30}\text{Zn}_{38}$