^{64}Zn(^{36}Ar,2p2nγ) 1989Al05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 109, 2501 (2008)	1-Apr-2008

Measured: γ, γγ, γ(θ), γ(θ,H,t), γ(t).

^{96}Pd Levels

E(level)‡	Jπ†	$T_{1/2}$#	Comments
0.0	0^+		
1415	2^+		
2099	(4^+)		
2424	(6^+)	7.5 ns *10*	
2530	(8^+)	2.2 μs *3*	g=+1.371 *7* (1983Gr01)
2648	(5^-)		
3783	(10^+)		
4573	(12^+)		
6728	(13^+)		
7039	(15^+)	35 ns *4*	g=+0.83 *5* (1989Al05)

† Adopted values.
‡ From Eγ values.
# From γ(t) in 1989Al05.

γ(^{96}Pd)

463γ and 662γ populate level 4573 and belong to γ-spectra from γ-decay of 7039 isomer with $T_{1/2}$=35 ns.

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α†	Comments
106	2530	(8^+)	2424	(6^+)	[E2]	1.134	
224	2648	(5^-)	2424	(6^+)			
311	7039	(15^+)	6728	(13^+)	[E2]	0.0263	
325	2424	(6^+)	2099	(4^+)	[E2]	0.0227	
x463							
549	2648	(5^-)	2099	(4^+)			
x662							
684	2099	(4^+)	1415	2^+			
790	4573	(12^+)	3783	(10^+)	(E2)		Mult.: A_2=+0.25 *3* if A_4=0.0.
1253	3783	(10^+)	2530	(8^+)	(E2)		Mult.: A_2=+0.17 *4* if A_4=0.0.
1415	1415	2^+	0.0	0^+			
2155	6728	(13^+)	4573	(12^+)			

† Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
x γ ray not placed in level scheme.

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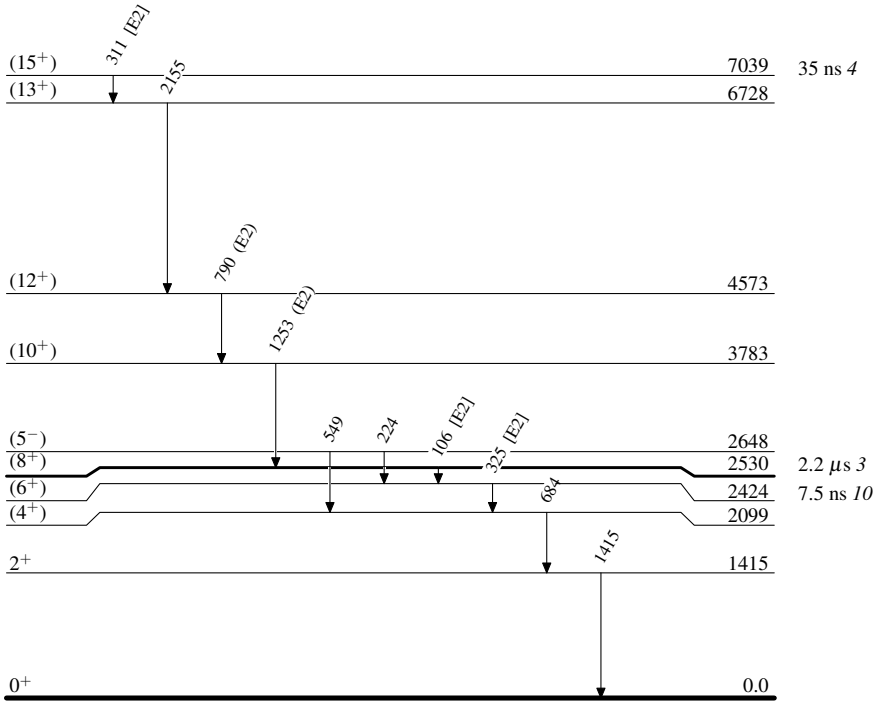
Level Scheme



$^{96}_{46}Pd_{50}$