^{252}Cf SF decay 2006Jo01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni, M. Fadil, and B. Pfeiffer	NDS 110,2815 (2009)	30-Sep-2009

Parent: ^{252}Cf: E=0; $J^\pi=0^+$; $T_{1/2}$=2.645 y *8*; %SF decay=3.092 *8*

Measured Eγ, Iγ, γγ using Gammasphere array with 102 Compton-suppressed Ge detectors.

^{84}Se Levels

E(level)[†]	J^π[‡]	Comments
0.0[#]	0^+	
1455.1[#] *10*	(2^+)	
2122.2[#] *14*	(4^+)	
3371.8 *17*		
3482.2? *17*		This level is uncertain in view of a 1361.5γ feeding 3537 level from a 4898 level in 2013DrZY and 2004Pr10.
3537.2 *16*	(5^+)	
3702.2[#] *16*	(6^+)	
4405.7 *19*	(7^+)	

[†] From least-squares fit Eγ, assuming ΔEγ=1 keV.
[‡] From Adopted Levels.
[#] Band(A): Yrast sequence.

γ(^{84}Se)

Eγ	E_i(level)	J_i^π	E_f	J_f^π	Comments
165	3702.2	(6^+)	3537.2	(5^+)	
667.1	2122.2	(4^+)	1455.1	(2^+)	
703.5	4405.7	(7^+)	3702.2	(6^+)	
1249.6	3371.8		2122.2	(4^+)	
1360[†]	3482.2?		2122.2	(4^+)	Note that a 1361.5γ in ^{238}U(p,Fγ) is placed from a 4898 to 3537 level, and similar placement for a 1361.4γ in ^{208}Pb(^{18}O,Xγ).
1415	3537.2	(5^+)	2122.2	(4^+)	
1455.1	1455.1	(2^+)	0.0	0^+	
1580	3702.2	(6^+)	2122.2	(4^+)	

[†] Placement of transition in the level scheme is uncertain.

Legend

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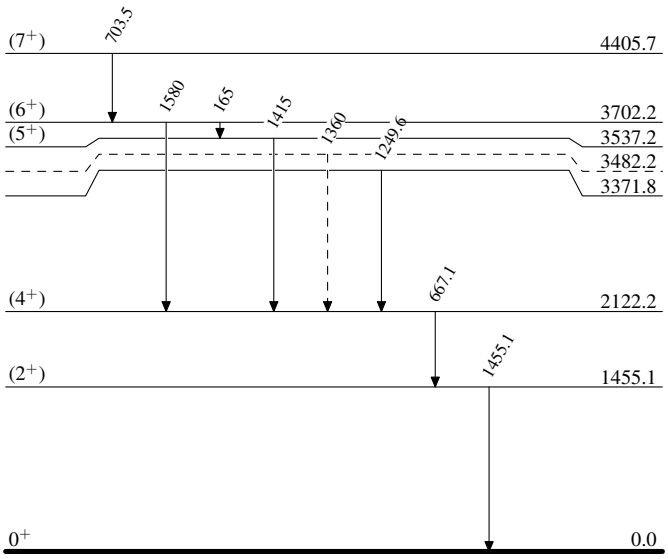
Level Scheme

γ Decay (Uncertain)



$^{84}_{34}Se_{50}$

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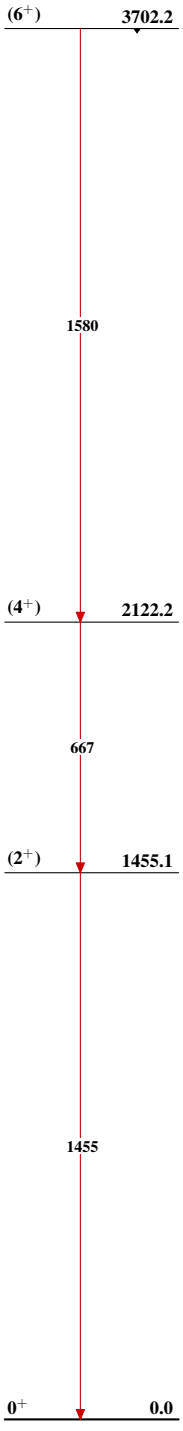
Band(A): Yrast sequence



$^{84}_{34}Se_{50}$