^{248}Cm SF decay 2004Ur04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

Parent: ^{248}Cm: E=0.0; $J^\pi=0^+$; $T_{1/2}=3.48\times10^5$ y *6*; %SF decay=?

Measured Eγ, Iγ, γγ with the EUROGAM2 array, which consisted of 52 large Ge detectors in anti-Compton shields including 24 four-crystal (clover) detectors, which also served as Compton polarimeters, and four Low Energy Photon (lep) detectors (2001Ur01).

2004Ur04 level scheme not adopted.

^{117}Pd Levels

E(level)‡	Jπ†
0.0	(3/2+)
34.5 *4*	(5/2+)
131.7 *4*	(5/2+)
203.3 *5*	(9/2−)
266.7# *7*	(11/2−)
706.7# *9*	(15/2−)
1324.6# *10*	(19/2−)
2091.3# *12*	(23/2−)

† Not adopted.
‡ From least-squares fit to Eγ's ΔEγ=0.5 keV assumed for each γ-ray.
# Band(A): (11/2−) band.

γ(^{117}Pd)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.†
34.5	34.5	(5/2+)	0.0	(3/2+)	
63.4	266.7	(11/2−)	203.3	(9/2−)	
71.5	203.3	(9/2−)	131.7	(5/2+)	M2
97.1	131.7	(5/2+)	34.5	(5/2+)	
131.7	131.7	(5/2+)	0.0	(3/2+)	
168.8	203.3	(9/2−)	34.5	(5/2+)	M2
440.0	706.7	(15/2−)	266.7	(11/2−)	
617.9	1324.6	(19/2−)	706.7	(15/2−)	
766.7	2091.3	(23/2−)	1324.6	(19/2−)	

† From literature.

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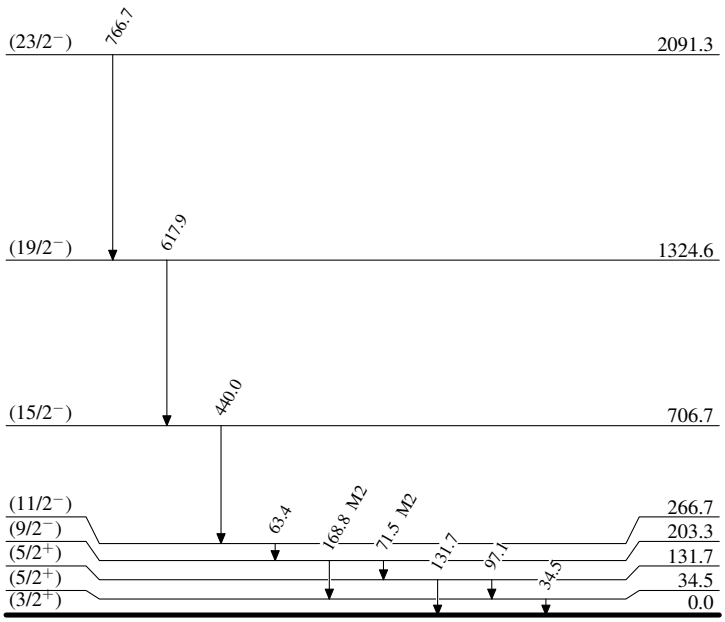
Level Scheme



$^{117}_{46}Pd_{71}$

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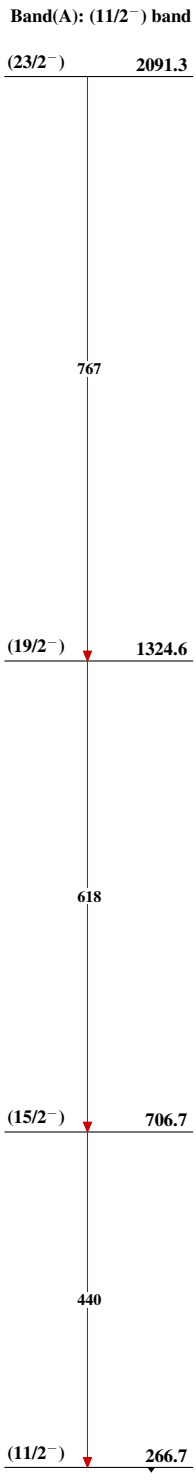

$^{117}_{46}Pd_{71}$