^{238}U(^{64}Ni,Xγ) 2009Pa16

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 2425 (2010)	1-Aug-2009

Additional information 1.

E=430 MeV. Measured Eγ, Iγ, $\gamma\gamma$ using Gammasphere array with 100 Compton-suppressed HPGe detectors at Argonne National Lab facility.

^{65}Co Levels

E(level)†	J$^\pi$	E(level)†	J$^\pi$	E(level)†	J$^\pi$
0.0‡	(7/2$^-$)	1642.02 *17*	(11/2$^-$)	2669.23‡ *22*	(13/2$^-$)
883	(3/2$^-$)	1959	(1/2$^-$,3/2$^-$)	2892.0 *6*	
1095	(1/2$^-$)	1997	(3/2$^-$)	2926.2 *3*	
1223	(3/2$^-$)	2184	(1/2$^-$,3/2$^-$)	3028.4‡ *3*	(15/2$^-$)
1479.22‡ *17*	(9/2$^-$)	2479.13‡ *19*	(11/2$^-$)	3271.2‡ *4*	(15/2$^-$,17/2$^+$)

† Deduced by evaluators from least-squares fit to Eγ's.

‡ Band(A): γ cascade.

γ(^{65}Co)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$
190.1† *2*	27† *5*	2669.23	(13/2$^-$)	2479.13	(11/2$^-$)
212		1095	(1/2$^-$)	883	(3/2$^-$)
242.8† *2*	20† *2*	3271.2	(15/2$^-$,17/2$^+$)	3028.4	(15/2$^-$)
340		1223	(3/2$^-$)	883	(3/2$^-$)
359.2† *2*	26† *4*	3028.4	(15/2$^-$)	2669.23	(13/2$^-$)
412.9† *5*	2† *1*	2892.0		2479.13	(11/2$^-$)
447.1† *2*	9† *2*	2926.2		2479.13	(11/2$^-$)
736		1959	(1/2$^-$,3/2$^-$)	1223	(3/2$^-$)
774		1997	(3/2$^-$)	1223	(3/2$^-$)
837.1† *2*	13† *3*	2479.13	(11/2$^-$)	1642.02	(11/2$^-$)
864		1959	(1/2$^-$,3/2$^-$)	1095	(1/2$^-$)
883		883	(3/2$^-$)	0.0	(7/2$^-$)
961		2184	(1/2$^-$,3/2$^-$)	1223	(3/2$^-$)
999.9† *2*	27† *2*	2479.13	(11/2$^-$)	1479.22	(9/2$^-$)
1089		2184	(1/2$^-$,3/2$^-$)	1095	(1/2$^-$)
1190.0† *2*	72† *6*	2669.23	(13/2$^-$)	1479.22	(9/2$^-$)
1479.2† *2*	100†	1479.22	(9/2$^-$)	0.0	(7/2$^-$)
1642.0† *2*	11† *2*	1642.02	(11/2$^-$)	0.0	(7/2$^-$)

† From e-mail reply to the evaluators from D. Pauwels on May 12, 2009. The data are from prompt $\gamma\gamma\gamma$-coincidence matrix.

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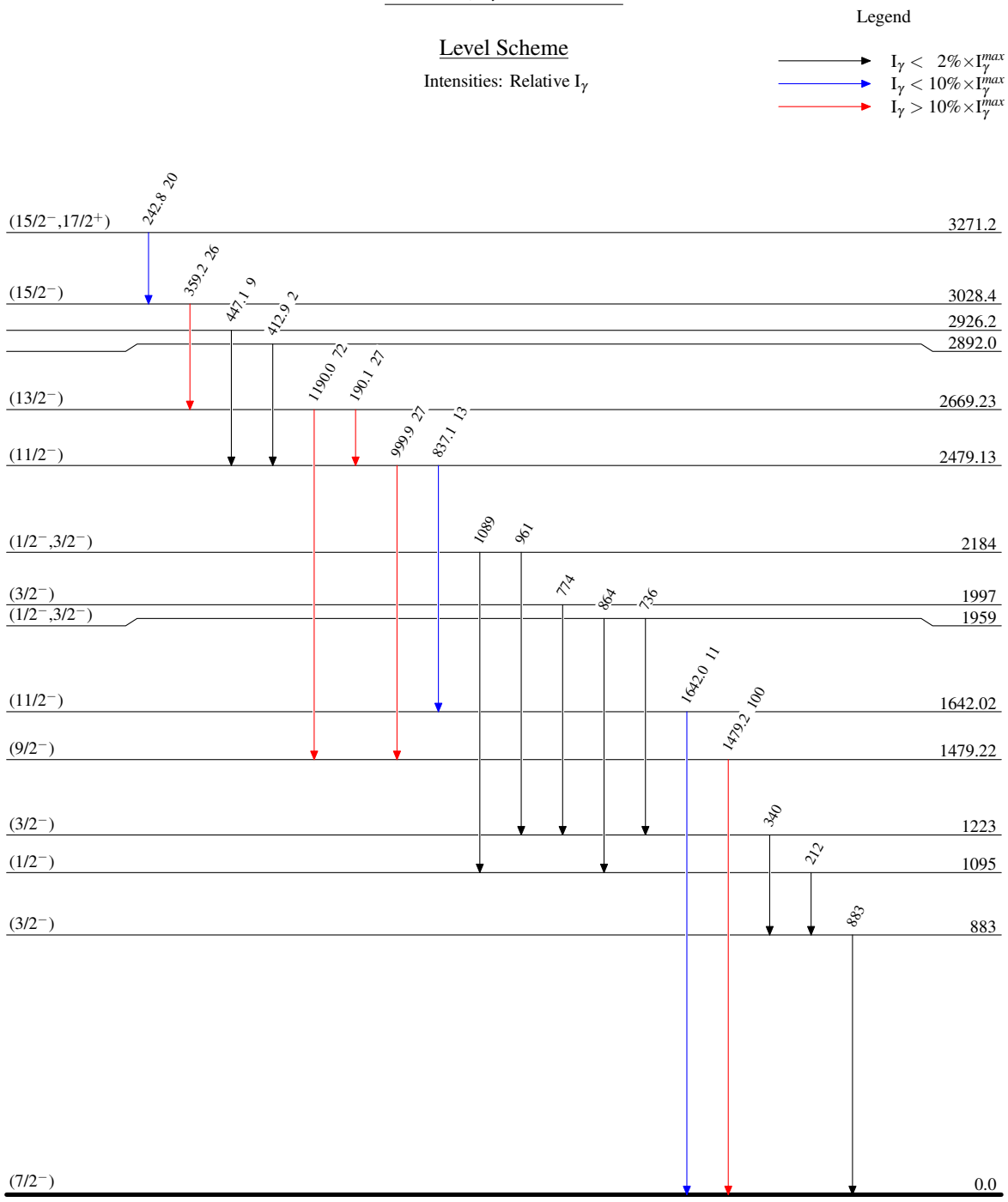
Level Scheme

Intensities: Relative I_γ



$^{65}_{27}Co_{38}$

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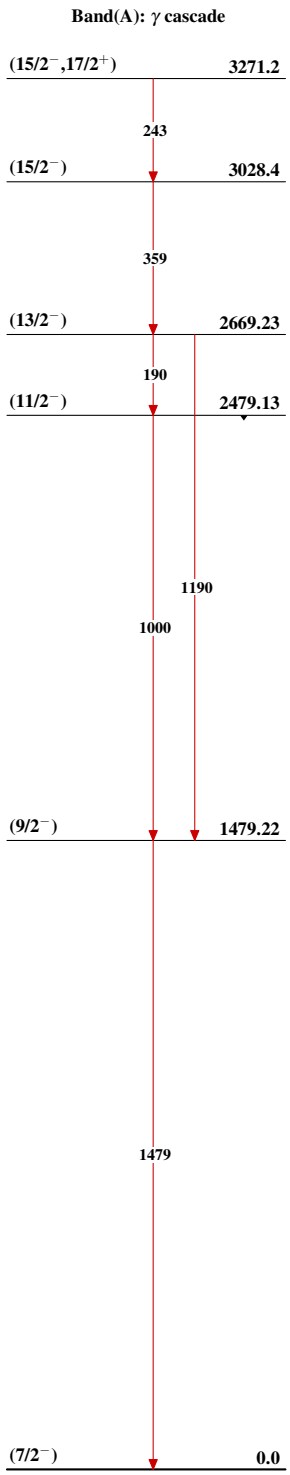

$^{65}_{27}Co_{38}$