^{173}Yb(^{24}Mg,Fγ) 2002Fo03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni	NDS 111, 2555 (2010)	30-Jun-2009

E=134.5 MeV. Measured Eγ, Iγ, γγ, γ(Mo fragments) coin using GAMMASPHERE array with 92 Compton-suppressed HPGe detectors.

^{95}Zr Levels

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	E(level)†
0	5/2+	2629.1 *3*	(13/2)	3398.7 *4*	4661.5 *5*
1676.32 *19*	(9/2+)	2837.2 *3*	(15/2−)	3954.9 *4*	4932.2 *7*
1792.2 *3*	(11/2−)	3078.0 *4*	(15/2−)	4057.9 *5*	
2021.6 *3*	(11/2−)	3180.6 *6*		4236.0 *6*	

† From least-squares fit to Eγ′s, assigning 0.2 keV uncertainty for Iγ>20, 0.4 keV for Iγ=10-20 and 0.7 keV for Iγ<10 based on general comment by 2002Fo03.

‡ Tentative assignments based on systematics and shell model calculations.

γ(^{95}Zr)

E_γ	I_γ	E_i(level)	J^π_i	E_f	J^π_f
103.0 *2*	20 *8*	4057.9		3954.9	
115.9 *2*	100	1792.2	(11/2−)	1676.32	(9/2+)
177.9 *4*	10 *4*	4236.0		4057.9	
208.1 *2*	30 *6*	2837.2	(15/2−)	2629.1	(13/2)
229.4 *2*	71 *5*	2021.6	(11/2−)	1792.2	(11/2−)
240.8 *2*	28 *5*	3078.0	(15/2−)	2837.2	(15/2−)
270.7 *4*	13 *3*	4932.2		4661.5	
425.3 *4*	10 *3*	4661.5		4236.0	
556.2 *4*	19 *5*	3954.9		3398.7	
561.4 *2*	24 *6*	3398.7		2837.2	(15/2−)
603.6 *2*	24 *4*	4661.5		4057.9	
607.5 *2*	24 *8*	2629.1	(13/2)	2021.6	(11/2−)
774.3 *7*	6.8 *20*	3954.9		3180.6	
815.4 *4*	16 *3*	2837.2	(15/2−)	2021.6	(11/2−)
836.8 *2*	22 *4*	2629.1	(13/2)	1792.2	(11/2−)
877.0 *4*	13 *3*	3954.9		3078.0	(15/2−)
1045.3 *4*	16 *3*	2837.2	(15/2−)	1792.2	(11/2−)
1056.4 *7*	6.0 *10*	3078.0	(15/2−)	2021.6	(11/2−)
1159.0 *7*	6.2 *20*	3180.6		2021.6	(11/2−)
1676.3 *2*	80 *10*	1676.32	(9/2+)	0	5/2+
1792.3 *7*	9 *3*	1792.2	(11/2−)	0	5/2+

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Level Scheme

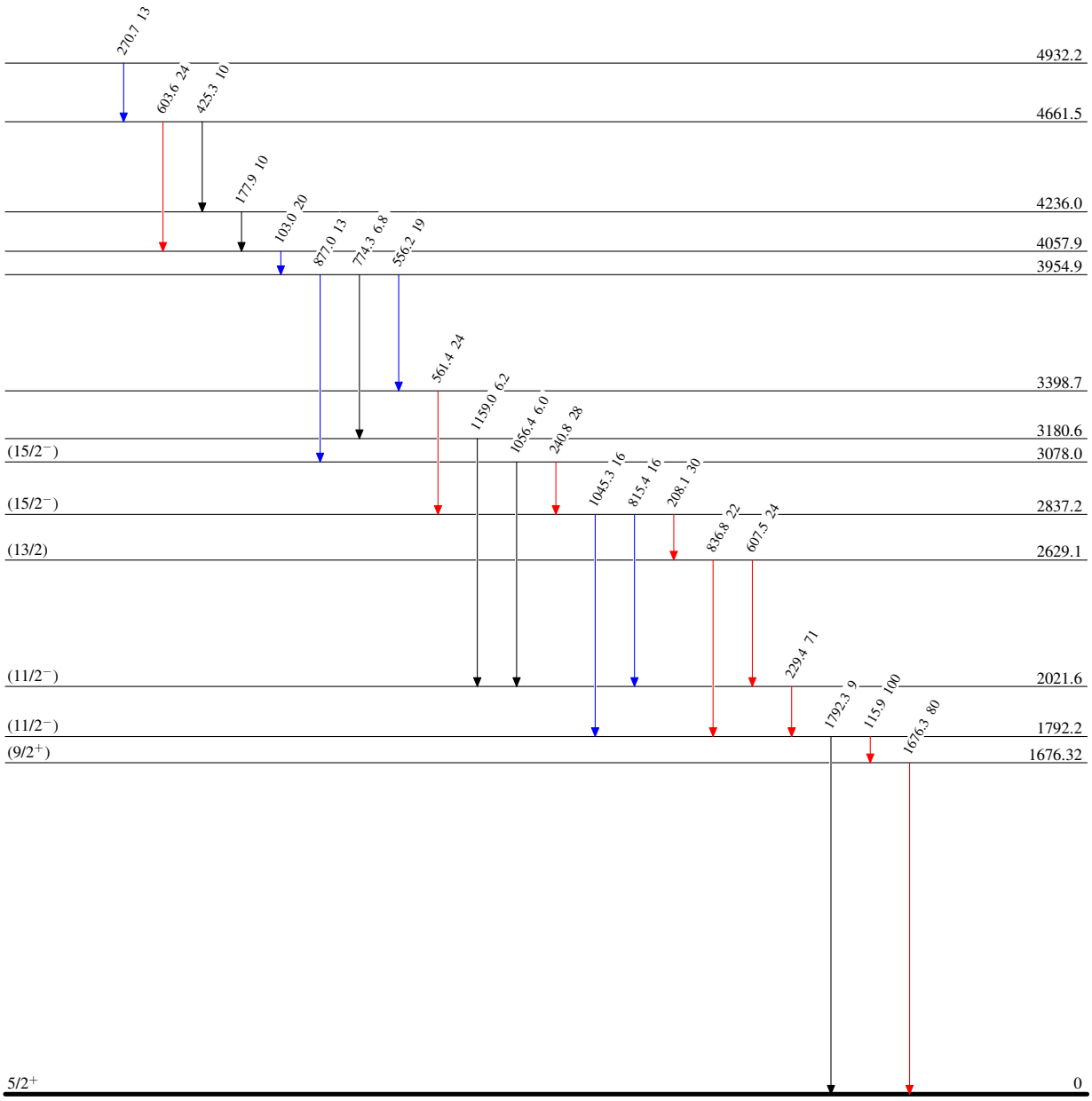
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{95}_{40}Zr_{55}$