^{173}Yb(^{24}Mg,Xγ) 1998Fo08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, J. Timar and Z. Elekes	NDS 161, 1 (2019)	1-Apr-2019

1998Fo08: Facility: 88-inch Cyclotron at the LBNL; Beam: ^{24}Mg accelerated to 134.5 MeV; Target: 1 mg/cm^2 enriched in ^{173}Yb on a 7 mg/cm^2 Au backing; Detectors: GAMMASPHERE array, comprising 92 HPGe detectors; Measured: γ-γ-γ- coinc., Eγ, Iγ.

^{105}Ru Levels

E(level)[†]	J$^\pi$[‡]	Comments
0		
208.8[#] *10*	(7/2$^-$)	Additional information 1. E(level): from the Adopted Levels.
574.1[#] *12*	(11/2$^-$)	
1142.9[#] *13*	(15/2$^-$)	
1867.6[#] *14*	(19/2$^-$)	
2710.8[#] *16*	(23/2$^-$)	
3641.4[#] *17*	(27/2$^-$)	

[†] From Eγ.
[‡] From the Adopted Levels.
[#] ΔJ=2 band member.

γ(^{105}Ru)

E$_\gamma$[†]	I$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
365.3 *6*	100	574.1	(11/2$^-$)	208.8	(7/2$^-$)
568.8 *6*	76.4 *5*	1142.9	(15/2$^-$)	574.1	(11/2$^-$)
724.7 *6*	43 *4*	1867.6	(19/2$^-$)	1142.9	(15/2$^-$)
843.2 *6*	18.7 *25*	2710.8	(23/2$^-$)	1867.6	(19/2$^-$)
930.6 *6*	2.4 *6*	3641.4	(27/2$^-$)	2710.8	(23/2$^-$)

[†] From 1998Fo08.

^{173}Yb(^{24}Mg,Xγ) 1998Fo08

Level Scheme

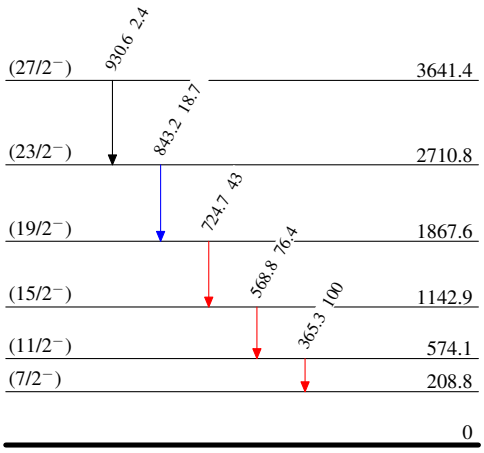
Intensities: Relative I_γ

Legend

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

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

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



$^{105}_{44}Ru_{61}$