^{187}Re(p,4nγ) 1973Ya05

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 111,275 (2010)	1-Oct-2009

1973Ya05: E(p)=37 MeV, measured Eγ, Iγ (Ge(Li) detector). Also measured ^{182}W(α,2nγ), E(α)=30 MeV and ^{185}Re(p,2nγ), E(p)=14 MeV; see separate data set for those data.

^{184}Os Levels

E(level)[†]	J$^\pi$[‡]
0.0[#]	0$^+$
119.80[#] *9*	2$^+$
383.77[#] *11*	4$^+$
774.16[#] *13*	6$^+$
942.79[@] *11*	2$^+$
1081.05[@] *12*	3$^+$
1225.05[@] *12*	4$^+$
1274.89[#] *20*	8$^+$
1428.28[@] *13*	5$^+$
1870.4[#] *9*	10$^+$

[†] From least-squares fit to Eγ.
[‡] From Adopted Levels.
[#] Band(A): K$^\pi$=0$^+$ g.s. band.
[@] Band(B): K$^\pi$=2$^+$ γ band.

γ(^{184}Os)

E$_\gamma$[†]	I$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	E$_\gamma$[†]	I$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
119.3 *5*	32.0 *26*	119.80	2$^+$	0.0	0$^+$	841.5 *5*	12.6 *10*	1225.05	4$^+$	383.77	4$^+$
263.7 *5*	100 *8*	383.77	4$^+$	119.80	2$^+$	943.7 *5*	8.1 *6*	942.79	2$^+$	0.0	0$^+$
390.4 *5*	69 *6*	774.16	6$^+$	383.77	4$^+$	961.7 *5*	15.0 *12*	1081.05	3$^+$	119.80	2$^+$
500.8 *5*	29.0 *23*	1274.89	8$^+$	774.16	6$^+$	1046.1 *5*	10.0 *8*	1428.28	5$^+$	383.77	4$^+$
597.4 *5*	≈10	1870.4	10$^+$	1274.89	8$^+$	1105.9 *5*	8.6 *7*	1225.05	4$^+$	119.80	2$^+$
823.4 *5*	6.1 *5*	942.79	2$^+$	119.80	2$^+$						

[†] Authors quote one set of Eγ values for their (p,2nγ), (p,4nγ) and (α,2nγ) studies.

^{187}Re(p,4nγ) 1973Ya05

Level Scheme

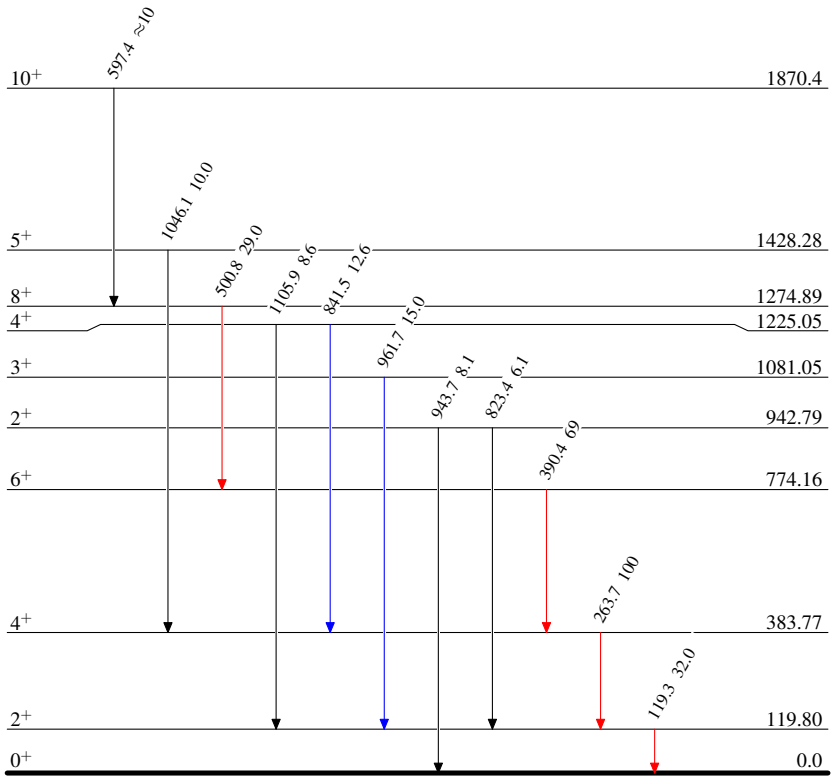
Intensities: Relative I_γ

Legend

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

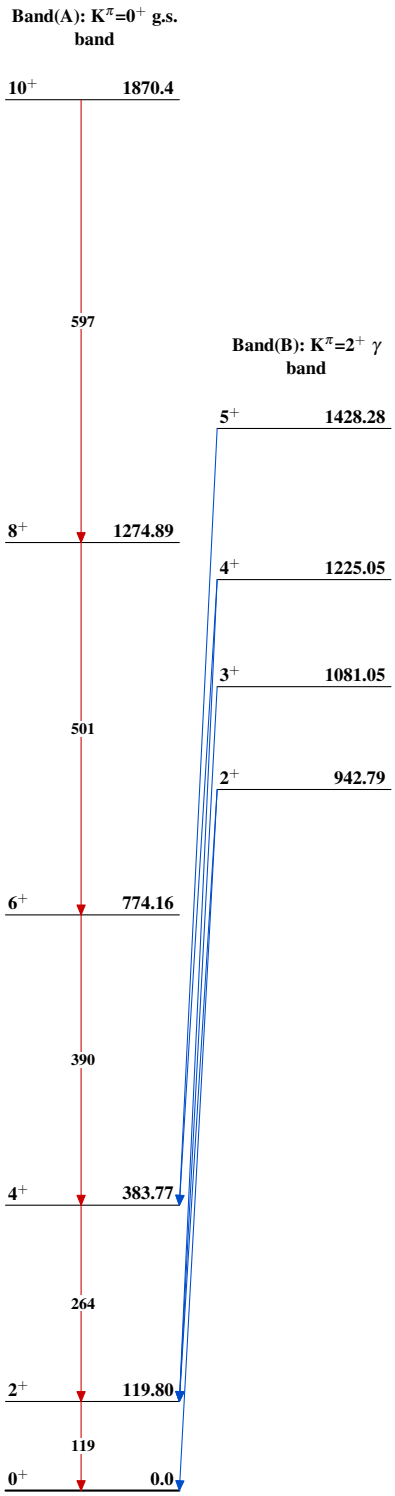
$I_\gamma < 10\% \times I_\gamma^{max}$

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



$^{184}_{76}Os_{108}$

^{187}Re(p,4nγ) 1973Ya05



$^{184}_{76}Os_{108}$