^{186}W(α,6nγ) 1976Ne03

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

1976Ne03: ^{186}W(α,6nγ), E=75 MeV. θ=90°−165° in 15° increments. Measured Eγ, Iγ, $\gamma\gamma$-coin, $\gamma(\theta)$, γ-γ-t.

^{184}Os Levels

E(level)[†]	J$^\pi$[‡]	E(level)[†]	J$^\pi$[‡]	E(level)[†]	J$^\pi$[‡]	E(level)[†]	J$^\pi$[‡]
0.0[@]	0$^+$	1274.2[@] 6	8$^+$	3357.3[#] 8	14$^+$	4797.2 9	(18$^+$)
119.8[@] 3	2$^+$	1870.4[@] 7	10$^+$	3788.3[#] 8	16$^+$	4997.4[#] 9	20$^+$
383.7[@] 5	4$^+$	2546.3[@] 8	12$^+$	4043.6 9	(16$^+$)	5737.4[#] 10	22$^+$
773.8[@] 6	6$^+$	3259.2[@] 8	14$^+$	4345.9[#] 9	18$^+$		

[†] From least-squares fit to Eγ.
[‡] Authors′ values based on deduced band structure and transition multipolarity.
[#] Band(A): K$^\pi$=10$^+$ band. Band assignment from Adopted Levels. 1976Ne03 instead show the J=16, 18, 20, 22 members As an extention of the g.s. band. the J=14 member is correctly assigned to this side band In 1976Ne03.
[@] Band(B): K$^\pi$=0$^+$ g.s. band. From Adopted Levels, the 4044 and 4797 levels constitute the J=16 and J=18 members of this band and the J=16-22 levels, assigned by 1976Ne03 to the g.s. band, belong to a K$^\pi$=10$^+$ side band.

γ(^{184}Os)

E$_\gamma$	I$_\gamma$[‡]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.[#]	α[@]	I$_{(\gamma+ce)}$[†]	Comments
119.8 3	31.9 22	119.8	2$^+$	0.0	0$^+$	E2	2.13 4	100 7	Mult.: A$_2$=+0.08 2, A$_4$=−0.06 3.
263.9 3	86 7	383.7	4$^+$	119.8	2$^+$	E2	0.1350	98 7	Mult.: A$_2$=+0.21 2, A$_4$=−0.07 3.
390.1 3	74 5	773.8	6$^+$	383.7	4$^+$	E2	0.0433	77 5	Mult.: A$_2$=+0.24 2, A$_4$=−0.08 3.
430.8 3	3.9 10	3788.3	16$^+$	3357.3	14$^+$	E2	0.0332	4 1	Mult.: A$_2$=+0.30 6, A$_4$=−0.07 9.
500.4 3	48 4	1274.2	8$^+$	773.8	6$^+$	E2	0.0227	49 4	Mult.: A$_2$=+0.26 2, A$_4$=−0.08 3.
529.3 3	4.9 10	3788.3	16$^+$	3259.2	14$^+$	E2	0.0198	5 1	Mult.: A$_2$=+0.31 5, A$_4$=−0.11 7.
557.6 3	6 3	4345.9	18$^+$	3788.3	16$^+$	E2	0.01751	6 3	Mult.: A$_2$=+0.19 6, A$_4$=−0.01 9. I$_\gamma$: includes a contaminant line (1976Ne03).
596.2 3	24 3	1870.4	10$^+$	1274.2	8$^+$	E2	0.01497	28 3	Mult.: A$_2$=+0.33 2, A$_4$=−0.10 3.
651.5 3	2.0 10	4997.4	20$^+$	4345.9	18$^+$	E2	0.01223	2 1	Mult.: A$_2$=+0.33 9, A$_4$=−0.01 14.
675.9 3	23.7 20	2546.3	12$^+$	1870.4	10$^+$	E2	0.01127	24 2	Mult.: A$_2$=+0.31 2, A$_4$=−0.13 3.
686.2[&] 3	2.0 10	4043.6	(16$^+$)	3357.3	14$^+$	E2	0.01090	2 1	Mult.: A$_2$=+0.48 10, A$_4$=−0.11 15.
713.1 3	11.9 20	3259.2	14$^+$	2546.3	12$^+$	E2	0.01002	12 2	Mult.: A$_2$=+0.26 3, A$_4$=−0.10 5.
740.0 3	1.0 5	5737.4	22$^+$	4997.4	20$^+$	E2	0.00925	1.0 5	Mult.: A$_2$=+0.36 13, A$_4$=−0.04 19.
753.6 3	2.0 10	4797.2	(18$^+$)	4043.6	(16$^+$)	E2	0.00890	2 1	Mult.: A$_2$=+0.45 13, A$_4$=+0.01 19.
784.4 3	3.0 10	4043.6	(16$^+$)	3259.2	14$^+$	E2	0.00817	3 1	Mult.: A$_2$=+0.20 8, A$_4$=+0.06 12.
810.8 3	5.0 10	3357.3	14$^+$	2546.3	12$^+$	E2	0.00762	5 1	Mult.: A$_2$=+0.30 5, A$_4$=−0.10 7.

[†] From 1976Ne03; authors do not indicate values of α assumed In order to convert measured Iγ to I(γ+ce).
[‡] From I(γ+ce) and α; authors give I(γ+ce) only and do not list the α values they assumed.
[#] Q from $\gamma(\theta)$; not M2 from RUL assuming T$_{1/2}$≤2.2 ns based on $\gamma\gamma$ coin timing.
[@] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
[&] Placement of transition in the level scheme is uncertain.

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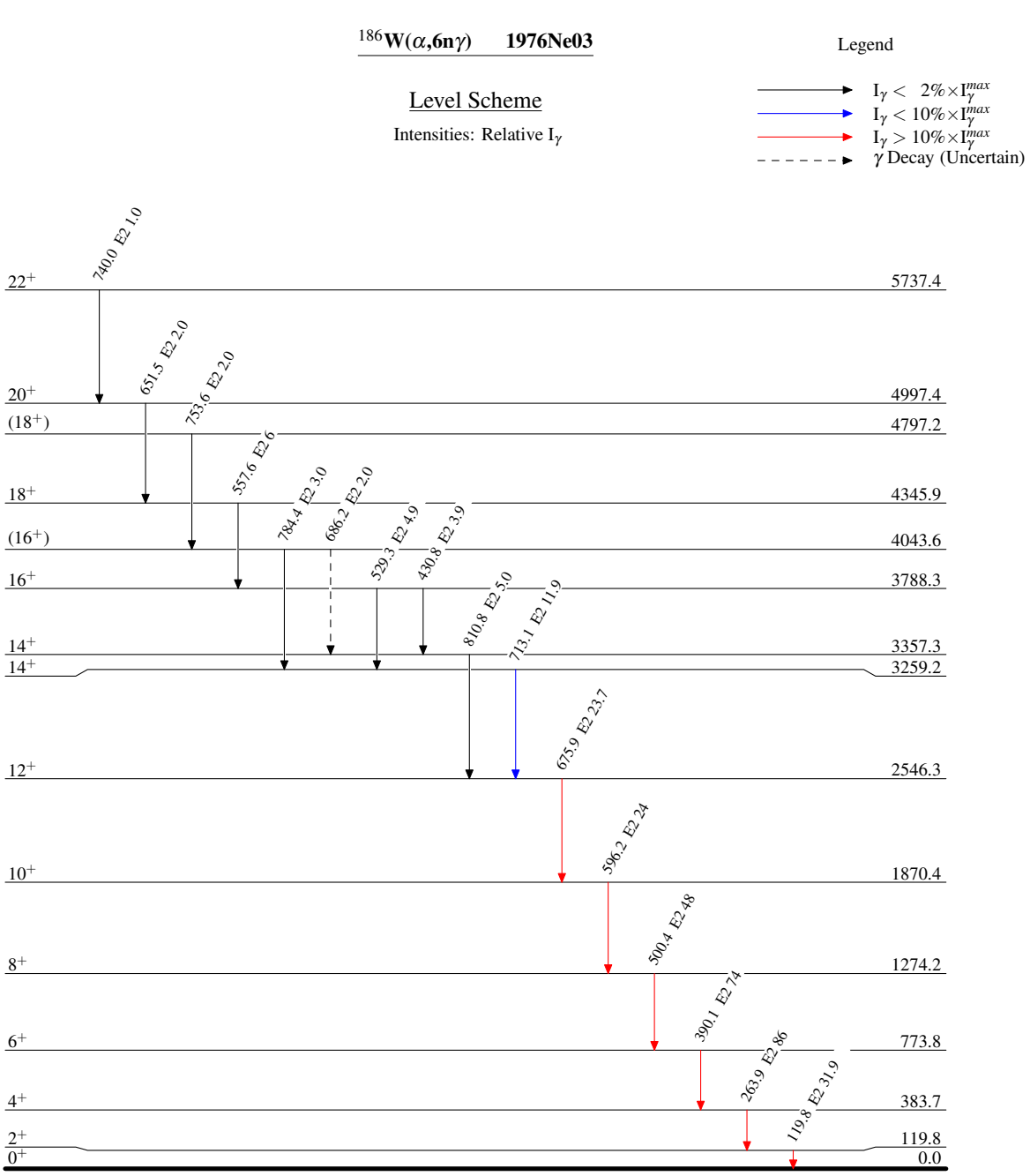
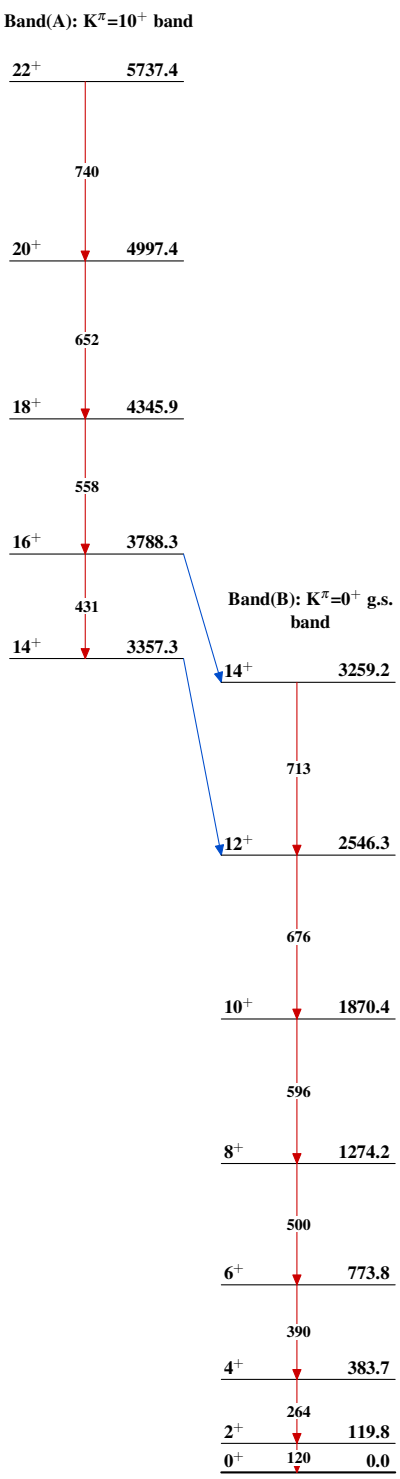
Level Scheme

Intensities: Relative I_γ



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

$^{186}W(\alpha,6n\gamma)$ 1976Ne03



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