

$^{190}\text{Os}(\text{n},\text{n}'\gamma),(\text{n},\text{n}')$ **1984KIZY,1989CI08**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, ¹ and Jun Chen ²		NDS 169,1 (2020)	15-Oct-2020

1984KIZY: (n,n' γ) E<3 MeV. Measured $E\gamma$, $I\gamma$, n γ -coin, $\gamma(\theta)$, excitation functions.

1989CI08: (n,n') E=8 MeV. Measured $\sigma(\theta)$. Data reported for first 0^+ , 2^+ , 4^+ and 3^- states.

Others:

1988Hi07: E<10 MeV, measured $\sigma(\theta)$.

1987HiZO (same group as **1988Hi07**): E=2.5, 4.5 MeV. Measured $\sigma(\theta)$. Deduced reduced matrix elements.

1987CaZV: E(n)=6 eV to 500 keV, measured $\sigma(\theta)$ for (n,n).

1982Po07: E(n)=0.15 to 1 MeV. Measured σ for g.s. and first 2^+ level.

1980Bo36, 1971Ru15: E(n)=14.7 MeV, measured σ .

1978He05: E(n)=13 to 17 MeV, measured σ .

1974Be78: E(n)=4 to 300 eV, measured resonances.

1972GrZX: E(n)=2.1 MeV, measured σ .

All data are from **1984KIZY**, unless otherwise noted.

 ^{190}Os Levels

E(level) [†]	J π [‡]	Comments
0.0	0^+	
186.718 2	2^+	$\beta_2=0.168$ 5 (1989CI08) (from $\sigma(\theta)$).
547.858 10	4^+	$\beta_4=-0.03$ 1 (1989CI08) (from $\sigma(\theta)$).
557.973 6	2^+	
756.01 2	3^+	
911.80 7	0^+	
955.35 6	4^+	
1050.5 2	6^+	
1114.35 9	2^+	
1163.15 5	4^+	
1203.72 8	5^+ [#]	
1382.3 3	0^+	
1386.96 5	3^-	$\beta_3=0.06$ (1989CI08) (from $\sigma(\theta)$).
1436.05 9	2^+ [#]	
1446.22 5	$(5)^+$ [#]	
1544.9 3	0^+	
1569.3 3	$(3)^+$ [#]	
1570.3 3	$(1,2)^+$ [#]	
1583.83 8	4^-	
1615.9 2	$(2)^+$	
1675.58 13	$(2)^+$ [#]	
1679.5 3	$(3)^+$ [#]	
1680.6 3	$(1)^+$ [#]	
1681.50 13	5^-	
1688.92 14	[#]	
1689.2 2	(2^+)	
1708.1 2	$(2^+,3,4^+)$	
1732.9 2	0^+	
1802.7 3	$(1,2^+)^+$ [#]	
1813.5 2	$(1^+,2,3^+)^+$ [#]	
1823.7 2	$(1,2)^+$ [#]	
1859.0 2	(2^+)	
1872.46 9	$(5)^-$	

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$^{190}\text{Os}(n,n'\gamma),(n,n')$ **1984KIZY,1989CI08 (continued)** ^{190}Os Levels (continued)

E(level) [†]	J ^π [‡]	Comments
1884.4 2	(1,2,3) [#]	
1902.1 4	(1,2,3) [#]	
1902.9 2		
1903.3 2	(3 ⁺ ,4 ⁻)	
1910.7 2	(2) ⁺	
1918.3 4	(1,2)	
1935.3 2	(2 ⁺ ,3 ⁺ ,4) [#]	
1943.6 4	(2 ⁺)	Excitation function data do not support a 1383γ from this level as suggested by 1979Ca02 in (n,γ).
1958.1 3	(1,2 ⁺)	
1970.3 2	(1 ⁺ ,2)	
1992.4 3	(2,3) [#]	
1994.8 3	(2) ⁺	
2025.5 3	(1,2) [#]	
2070.2 2	(1 ⁺ ,2)	
2112.1 7	(1,2 ⁺)	
2118.5 2	(1 ⁺ ,2) [#]	
2124.6 2	(2,3 ⁺ ,4 ⁺) [#]	
2135.5 3	(0 ⁺ ,1,2) [#]	
2175.5 10	(0 ⁺ ,1,2)	

[†] From least-squares fit to γ-ray energies.[‡] From the Adopted Levels, except when stated otherwise.[#] From γ(θ) and/or excitation function. $\gamma(^{190}\text{Os})$

E _γ [†]	I _γ [†]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [#]	Comments
186.718 [‡] 2	319 32	186.718	2 ⁺	0.0	0 ⁺		A ₂ =+0.16 I
223.811 [‡] 7	8.4 7	1386.96	3 ⁻	1163.15	4 ⁺		A ₂ =+0.01 9
283.080 16	3.4 4	1446.22	(5) ⁺	1163.15	4 ⁺	D	I _γ : low by ≈50%, as compared to branching in ^{190}Ir ε. A ₂ =-0.21 II I _γ : high by ≈40%, as compared to branching in ^{190}Re β ⁻ and ^{190}Ir ε.
288.66 4	1.0 5	1872.46	(5) ⁻	1583.83	4 ⁻		
^x 291.6 2	1.1 5						
294.7 2	1.7 5	1681.50	5 ⁻	1386.96	3 ⁻		
^x 308.44 14	1.9 4						
^x 312.6 2	2.0 4						
321.701 15	0.9 4	1436.05	2 ⁺	1114.35	2 ⁺		A ₂ =+0.04 II I _γ : low by a factor of ≈3, as compared to branching in (n,γ).
^x 343.85 18	1.1 4						
^x 350.95 16	1.1 3						
353.84 7	1.3 4	911.80	0 ⁺	557.973	2 ⁺		
361.139 [‡] 9	79.1 13	547.858	4 ⁺	186.718	2 ⁺		A ₂ =+0.24 I
371.257 [‡] 6	72.5 11	557.973	2 ⁺	186.718	2 ⁺		A ₂ =-0.08 I
^x 375.4 8	1.3 6						
380.12 4	2.1 4	1583.83	4 ⁻	1203.72	5 ⁺		
^x 388.8 4	0.8 3						

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$^{190}\text{Os}(n,n'\gamma),(n,n')$ **1984KIZY,1989CI08 (continued)** $\gamma(^{190}\text{Os})$ (continued)

E_γ †	I_γ †	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. #	Comments
$^{x394.23}_{18}$	1.1 3						
397.4 ‡ 1	19.2 18	955.35	4 ⁺	557.973	2 ⁺		$A_2=+0.25$ 2
407.33 & 10	15 & 2	955.35	4 ⁺	547.858	4 ⁺	D	$A_2=-0.19$ 3 I _γ : total I _γ for doublet=28 2. Split intensity based on branching at E(n)=1.2 MeV (1984KIZY). A_2 is for doublet.
407.33 & 10	13 & 2	1163.15	4 ⁺	756.01	3 ⁺		
420.71 18	1.3 3	1583.83	4 ⁻	1163.15	4 ⁺		$A_2=+0.52$ 19
431.6 ‡ 1	6.1 5	1386.96	3 ⁻	955.35	4 ⁺		$A_2=-0.07$ 4
447.8 ‡ 1	7.0 6	1203.72	5 ⁺	756.01	3 ⁺		$A_2=+0.27$ 4
$^{x464.1}_3$	1.1 3						
477.7 2	1.2 2	1681.50	5 ⁻	1203.72	5 ⁺		I _γ : high by a factor of ≈4, as compared to branching in ^{190}Ir ε.
484.5 3	1.2 2	1872.46	(5) ⁻	1386.96	3 ⁻		E _γ : poor fit in the decay scheme, deviates by 1.0 keV.
490.3 2	3.3 3	1446.22	(5) ⁺	955.35	4 ⁺		
$^{x492.7}_4$	0.6 2						
502.4 3	3.7 5	1050.5	6 ⁺	547.858	4 ⁺		$A_2=+0.24$ 8
518.4 ‡ 3	5.3 4	1681.50	5 ⁻	1163.15	4 ⁺		$A_2=-0.05$ 5
524.1 5	0.7 3	1436.05	2 ⁺	911.80	0 ⁺		
557.956 ‡ 16	100 8	557.973	2 ⁺	0.0	0 ⁺		$A_2=+0.16$ 1
569.291 ‡ 20	91 7	756.01	3 ⁺	186.718	2 ⁺	D	$A_2=-0.05$ 1
$^{x580.8}_2$	0.6 2						
605.2 ‡ 1	26 2	1163.15	4 ⁺	557.973	2 ⁺		$A_2=+0.26$ 2
$^{x611.8}_4$	0.47 11						
615.6 4	0.67 16	1163.15	4 ⁺	547.858	4 ⁺		
630.9 @ ‡ 2	5.8 @ 4	1386.96	3 ⁻	756.01	3 ⁺		$A_2=+0.26$ 3
630.9 @ 2	5.8 @ 4	1681.50	5 ⁻	1050.5	6 ⁺		I _γ : expected value ≈0.1, as compared to branching in ^{190}Ir ε.
$^{x638.5}_2$	1.6 2					D	$A_2=-0.3$ 2
$^{x641.6}_3$	0.67 19						
655.9 2	3.7 3	1203.72	5 ⁺	547.858	4 ⁺		$A_2=-0.17$ 10
679.7 2	2.32 17	1436.05	2 ⁺	756.01	3 ⁺		$A_2=-0.12$ 11
690.1 2	1.3 2	1446.22	(5) ⁺	756.01	3 ⁺		$A_2=+0.50$ 20
$^{x692.1}_3$	0.88 15						$A_2=-0.4$ 5
$^{x711.4}_3$	0.6 2						
$^{x720.1}_4$	0.4 2						
725.0 ‡ 2	7.2 5	911.80	0 ⁺	186.718	2 ⁺		$A_2=-0.10$ 3 $\gamma(\theta)$ should be isotropic. The 725γ may be mixed with a possible 726γ from 1682 level.
726 ^a		1681.50	5 ⁻	955.35	4 ⁺		Possible γ mixed with 725γ (from 912 level).
740.1 2	2.6 2	1903.3	(3 ⁺ ,4 ⁻)	1163.15	4 ⁺		$A_2=+0.14$ 8
768.6 ‡ 2	7.3 5	955.35	4 ⁺	186.718	2 ⁺		$A_2=+0.23$ 4
$^{x818.4}_2$	1.41 16						$A_2=+0.48$ 11
828.9 ‡ 2	11.3 7	1386.96	3 ⁻	557.973	2 ⁺	D	$A_2=-0.10$ 5
839.1 2	3.2 3	1386.96	3 ⁻	547.858	4 ⁺		$A_2=0.00$ 8
$^{x850.9}_4$	0.5 2						
$^{x854.1}_6$	0.7 2						
859.6 6	1.0 3	1615.9	(2) ⁺	756.01	3 ⁺		
877.7 ‡ 2	2.7 2	1436.05	2 ⁺	557.973	2 ⁺		$A_2=-0.06$ 7
888.4 2	2.6 2	1436.05	2 ⁺	547.858	4 ⁺		$A_2=+0.19$ 6

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$^{190}\text{Os}(n,n'\gamma),(n,n')$ **1984KIZY,1989CI08 (continued)** $\gamma(^{190}\text{Os})$ (continued)

E_γ [†]	I_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [#]	Comments
^x 891.9 3	0.8 2						
919.4 2	2.6 3	1675.58	(2) ⁺	756.01	3 ⁺		$A_2 = -0.19$ 7
928.0 [‡] 2	9.7 5	1114.35	2 ⁺	186.718	2 ⁺		$A_2 = +0.15$ 4
933.2 2	1.4 2	1689.2	(2 ⁺)	756.01	3 ⁺		$A_2 = +0.2$ 2
951.6 3	1.7 4	1708.1	(2 ⁺ ,3,4 ⁺)	756.01	3 ⁺	D	$A_2 = -0.46$ 7
955.7 3	1.2 2	1910.7	(2) ⁺	955.35	4 ⁺		$A_2 = +0.7$ 4
976.3 ^a 3	1.4 2	1163.15	4 ⁺	186.718	2 ⁺		$A_2 = -0.2$ 3
							Placement based on the Adopted Gammas.
979.6 3	1.1 2	1935.3	(2 ⁺ ,3 ⁺ ,4)	955.35	4 ⁺		$A_2 = 0.0$ 2
^x 982.6 3	0.8 2						
986.9 3	4.0 3	1544.9	0 ⁺	557.973	2 ⁺		$A_2 = -0.07$ 8
^x 989.2 6	1.0 2						
1011.0 [‡] 3	4.9 3	1569.3	(3) ⁺	557.973	2 ⁺	D	$A_2 = -0.50$ 9
^x 1019.4 4	1.3 2						
1021.9 4	0.9 2	1569.3	(3) ⁺	547.858	4 ⁺		
1035.9 3	2.2 2	1583.83	4 ⁻	547.858	4 ⁺		$A_2 = +0.24$ 8
^x 1041.0 3	1.2 2						
1046.3 3	1.2 2	1958.1	(1,2 ⁺)	911.80	0 ⁺		
1057.8 [‡] 3	3.4 2	1615.9	(2) ⁺	557.973	2 ⁺		$A_2 = +0.04$ 8
1067.9 ^{&} 3	2.0 ^{&} 2	1615.9	(2) ⁺	547.858	4 ⁺		$A_2 = +0.1$ 4
							I_γ : total $I_\gamma = 2.2$ 2. Intensity split based on branching at $E(n) = 1.2$ MeV (1984KIZY). A_2 is for doublet.
1067.9 ^{&} 3	0.2 ^{&} 2	1823.7	(1,2) ⁺	756.01	3 ⁺		
^x 1084.8 3	1.6 2						$A_2 = +0.34$ 11
^x 1088.2 4	1.1 2						$A_2 = 0.1$ 2
1103.6 3	2.0 2	1859.0	(2 ⁺)	756.01	3 ⁺	D	$A_2 = -0.17$ 9
1114.7 [‡] 2	5.8 3	1114.35	2 ⁺	0.0	0 ⁺		$A_2 = +0.27$ 6
1117.7 [‡] 2	5.6 3	1675.58	(2) ⁺	557.973	2 ⁺		$A_2 = +0.26$ 4
^x 1124.0 2	1.0 2						
1127.9 3	0.8 2	1884.4	(1,2,3)	756.01	3 ⁺		
1131.0 2	2.1 2	1688.92		557.973	2 ⁺	D	$A_2 = -0.43$ 11
1141.0 2	1.4 2	1688.92		547.858	4 ⁺		$A_2 = 0.0$ 2
1146.9 2	2.1 2	1902.9		756.01	3 ⁺		$A_2 = -0.34$ 15
1150.7 3	2.1 2	1708.1	(2 ⁺ ,3,4 ⁺)	557.973	2 ⁺		$A_2 = +0.25$ 14
							I_γ : high by a factor of ≈ 3 , as compared to branching in ^{190}Ir ϵ .
1154.4 3	6.0 3	1910.7	(2) ⁺	756.01	3 ⁺		$A_2 = +0.22$ 5
1174.6 [‡] 3	4.9 3	1732.9	0 ⁺	557.973	2 ⁺		$A_2 = +0.02$ 7
1179.7 4	1.1 2	1935.3	(2 ⁺ ,3 ⁺ ,4)	756.01	3 ⁺	D	$A_2 = -0.7$ 4
1195.6 3	4.1 2	1382.3	0 ⁺	186.718	2 ⁺		$A_2 = -0.06$ 8
1199.4 3	1.6 2	1386.96	3 ⁻	186.718	2 ⁺	D	$A_2 = -0.24$ 16
							E_γ : poor fit in the level scheme, deviates by 0.8 keV.
1214.0 3	2.6 3	1970.3	(1 ⁺ ,2)	756.01	3 ⁺		$A_2 = +0.15$ 11
^x 1217.0 4	1.1 3						
1236.4 3	3.6 3	1992.4	(2,3)	756.01	3 ⁺		$A_2 = +0.19$ 8
1244.6 4	0.86 17	1802.7	(1,2 ⁺)	557.973	2 ⁺		
1249.0 3	5.1 3	1436.05	2 ⁺	186.718	2 ⁺		
^x 1253.9 3	3.5 6						$A_2 = -0.16$ 14
1255.4 3	5.0 6	1813.5	(1 ⁺ ,2,3 ⁺)	557.973	2 ⁺		$A_2 = +0.20$ 10
1265.8 [‡] 3	6.7 3	1823.7	(1,2) ⁺	557.973	2 ⁺		$A_2 = +0.17$ 5
^x 1285.8 4	1.3 2						
^x 1293.1 4	0.5 2						
1300.4 3	3.5 3	1859.0	(2 ⁺)	557.973	2 ⁺		$A_2 = +0.28$ 12

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$^{190}\text{Os}(n,n'\gamma),(n,n')$ **1984KIZY,1989CI08 (continued)** $\gamma(^{190}\text{Os})$ (continued)

E_γ †	I_γ †	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. #	Comments
							I_γ : high by a factor of ≈ 2 , as compared to branching in (n, γ).
1310.6 4	1.0 3	1859.0	(2 ⁺)	547.858	4 ⁺		$A_2=+0.20$ 16
1326.9 3	2.9 3	1884.4	(1,2,3)	557.973	2 ⁺		$A_2=-0.01$ 9
^x 1342.2 4	0.8 4						
^x 1349.9 4	1.8 3						
1352.5 4	1.2 3	1910.7	(2 ⁺)	557.973	2 ⁺		
1362.8 4	1.9 3	1910.7	(2 ⁺)	547.858	4 ⁺		
1368.6 3	1.5 4	2124.6	(2,3 ⁺ ,4 ⁺)	756.01	3 ⁺		
1383.6 [‡] 3	4.2 3	1570.3	(1,2)	186.718	2 ⁺		$A_2=-0.17$ 11
1387.6 3	3.4 3	1935.3	(2 ⁺ ,3 ⁺ ,4)	547.858	4 ⁺		$A_2=+0.35$ 8
1395.9 4	1.3 3	1943.6	(2 ⁺)	547.858	4 ⁺		
^x 1398.1 4	2.1 3						$A_2=+0.09$ 8
1412.7 3	3.0 3	1970.3	(1 ⁺ ,2)	557.973	2 ⁺		$A_2=-0.07$ 11
1429.2 [‡] 3	5.9 7	1615.9	(2 ⁺)	186.718	2 ⁺		$A_2=0.07$ 5
1436.7 3	5.3 6	1994.8	(2 ⁺)	557.973	2 ⁺		$A_2=+0.05$ 6
^x 1453.1 3	1.3 2						$A_2=-0.15$ 19
1467.5 3	2.5 2	2025.5	(1,2)	557.973	2 ⁺		$A_2=+0.16$ 12
^x 1482.6 3	2.5 3						$A_2=+0.3$ 3
1489.0 [‡] 3	5.1 3	1675.58	(2 ⁺)	186.718	2 ⁺		$A_2=+0.01$ 8
1492.8 3	3.2 3	1679.5	(3)	186.718	2 ⁺		$A_2=+0.02$ 9
1502.5 3	2.5 3	1689.2	(2 ⁺)	186.718	2 ⁺		$A_2=+0.54$ 11
1512.1 3	5.2 4	2070.2	(1 ⁺ ,2)	557.973	2 ⁺		$A_2=+0.04$ 6
^x 1521.8 3	0.88 11						
^x 1526.0 4	0.99 12						
^x 1535.4 4	1.8 2						
^x 1540.7 2	2.0 2						
1546.3 [‡] 2	9.7 5	1732.9	0 ⁺	186.718	2 ⁺		$A_2=+0.13$ 5
							$\gamma(\theta)$ should be isotropic. The 1546 γ may be contaminated by an impurity.
^x 1550.9 6	0.84 11						
1560.5 2	2.0 2	2118.5	(1 ⁺ ,2)	557.973	2 ⁺		$A_2=+0.47$ 18
1566.7 2	2.6 2	2124.6	(2,3 ⁺ ,4 ⁺)	557.973	2 ⁺		$A_2=+0.23$ 12
^x 1571.4 3	2.7 2						$A_2=-0.08$ 11
1577.5 3	0.8 2	2135.5	(0 ⁺ ,1,2)	557.973	2 ⁺		
^x 1582.6 4	0.52 11						
^x 1595.4 3	1.2 2						
^x 1600.8 3	2.5 3						$A_2=+0.12$ 16
1616.1 ^{&‡} 3	4.3 ^{&} 7	1615.9	(2 ⁺)	0.0	0 ⁺		$A_2=-0.20$ 3
							I_γ : total $I_\gamma=10.1$ 8. Intensity split based on branching at $E(n)=1.2$ MeV (1984KIZY). A_2 is for doublet.
1616.1 ^{&‡} 3	5.8 ^{&} 7	1802.7	(1,2 ⁺)	186.718	2 ⁺		
1626.9 3	1.58 16	1813.5	(1 ⁺ ,2,3 ⁺)	186.718	2 ⁺		$A_2=+0.09$ 14
1636.6 4	1.66 16	1823.7	(1,2 ⁺)	186.718	2 ⁺		
^x 1640.6 3	1.54 15						
1672.7 3	3.1 3	1859.0	(2 ⁺)	186.718	2 ⁺		$A_2=+0.13$ 10
1680.6 [‡] 3	11.8 6	1680.6	(1)	0.0	0 ⁺	D	$A_2=-0.15$ 4
^x 1699.2 4	1.5 2						
^x 1702.4 4	1.0 2						
1715.4 4	6.1 3	1902.1	(1,2,3)	186.718	2 ⁺		$A_2=-0.01$ 6
^x 1725.1 5	1.5 3						$A_2=+0.20$ 18
1731.6 [‡] 4	2.3 3	1918.3	(1,2)	186.718	2 ⁺		$A_2=-0.10$ 13
1771.5 5	2.2 2	1958.1	(1,2 ⁺)	186.718	2 ⁺		$A_2=+0.01$ 9

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$^{190}\text{Os}(\text{n},\text{n}'\gamma),(\text{n},\text{n}')$ **1984KIZY,1989CI08** (continued) $\gamma(^{190}\text{Os})$ (continued)

$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1808.9 7	0.7 2	1994.8	(2) ⁺	186.718	2 ⁺	
1838.8 [‡] 7	3.6 3	2025.5	(1,2)	186.718	2 ⁺	$A_2=+0.24$ 8
1883.9 5	3.1 3	2070.2	(1 ⁺ ,2)	186.718	2 ⁺	$A_2=-0.10$ 16
1925.4 7	1.4 2	2112.1	(1,2 ⁺)	186.718	2 ⁺	$A_2=-0.03$ 20
1932.1 7	3.3 2	2118.5	(1 ⁺ ,2)	186.718	2 ⁺	$A_2=+0.24$ 10
1942.8 8	2.3 3	1943.6	(2 ⁺)	0.0	0 ⁺	$A_2=-0.05$ 22
1949.2 8	1.9 3	2135.5	(0 ⁺ ,1,2)	186.718	2 ⁺	$A_2=-0.02$ 13
^x 1960.7 9	1.2 3					
^x 1965.2 9	3.1 4					$A_2=0.07$ 9
^x 1981.0 14	0.74 13					
1988.8 10	1.5 2	2175.5	(0 ⁺ ,1,2)	186.718	2 ⁺	

[†] For E(n)=2.5 MeV (**1984KIZY**).

[‡] **1984KIZY** take energy from $^{189}\text{Os}(\text{n},\gamma)$ (**1979Ca02**) and use it for calibration.

Mult=D assigned by evaluators from negative A_2 .

@ Multiply placed with undivided intensity.

& Multiply placed with intensity suitably divided.

^a Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

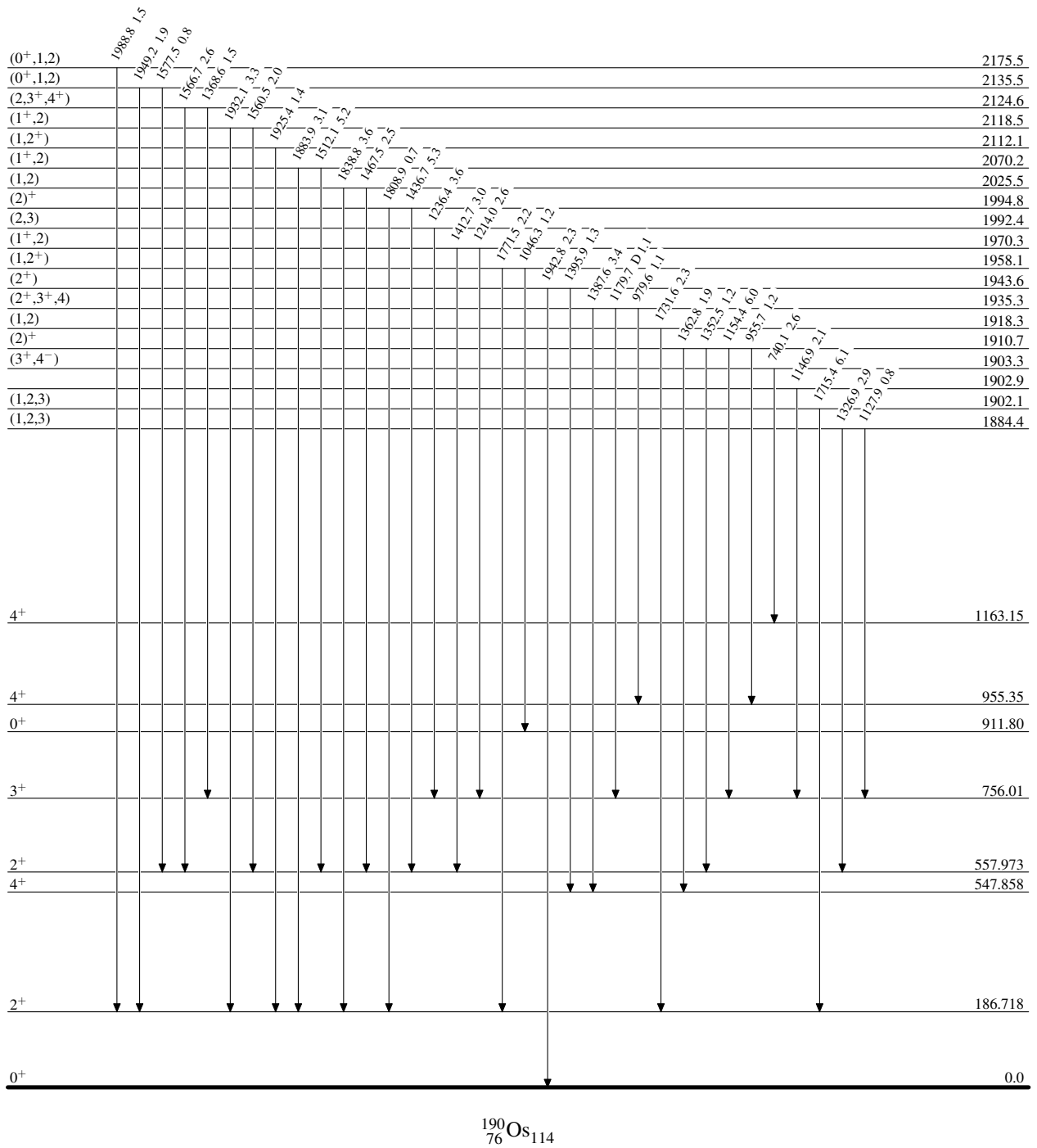
$^{190}\text{Os}(n,n'\gamma),(n,n')$ 1984KIZY,1989CI08

Level Scheme

Intensities: Relative I_γ

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\max}$



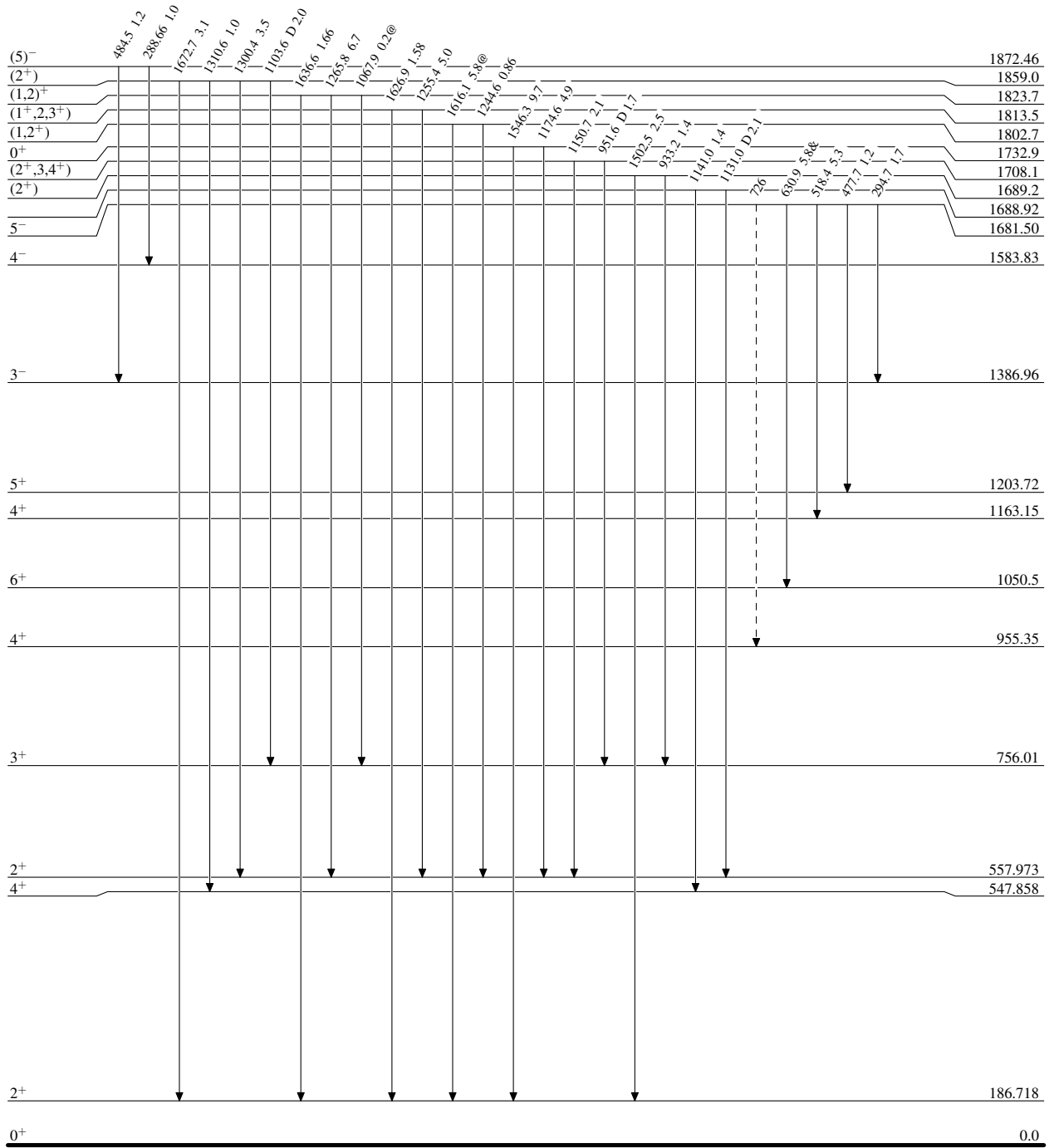
$^{190}\text{Os}(n,n'\gamma),(n,n')$ 1984KIZY,1989C108

Level Scheme (continued)

Legend

Intensities: Relative I_γ
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

—→ $I_\gamma < 2\% \times I_\gamma^{\max}$
 —→ $I_\gamma < 10\% \times I_\gamma^{\max}$
 —→ $I_\gamma > 10\% \times I_\gamma^{\max}$
 - - - - -→ γ Decay (Uncertain)



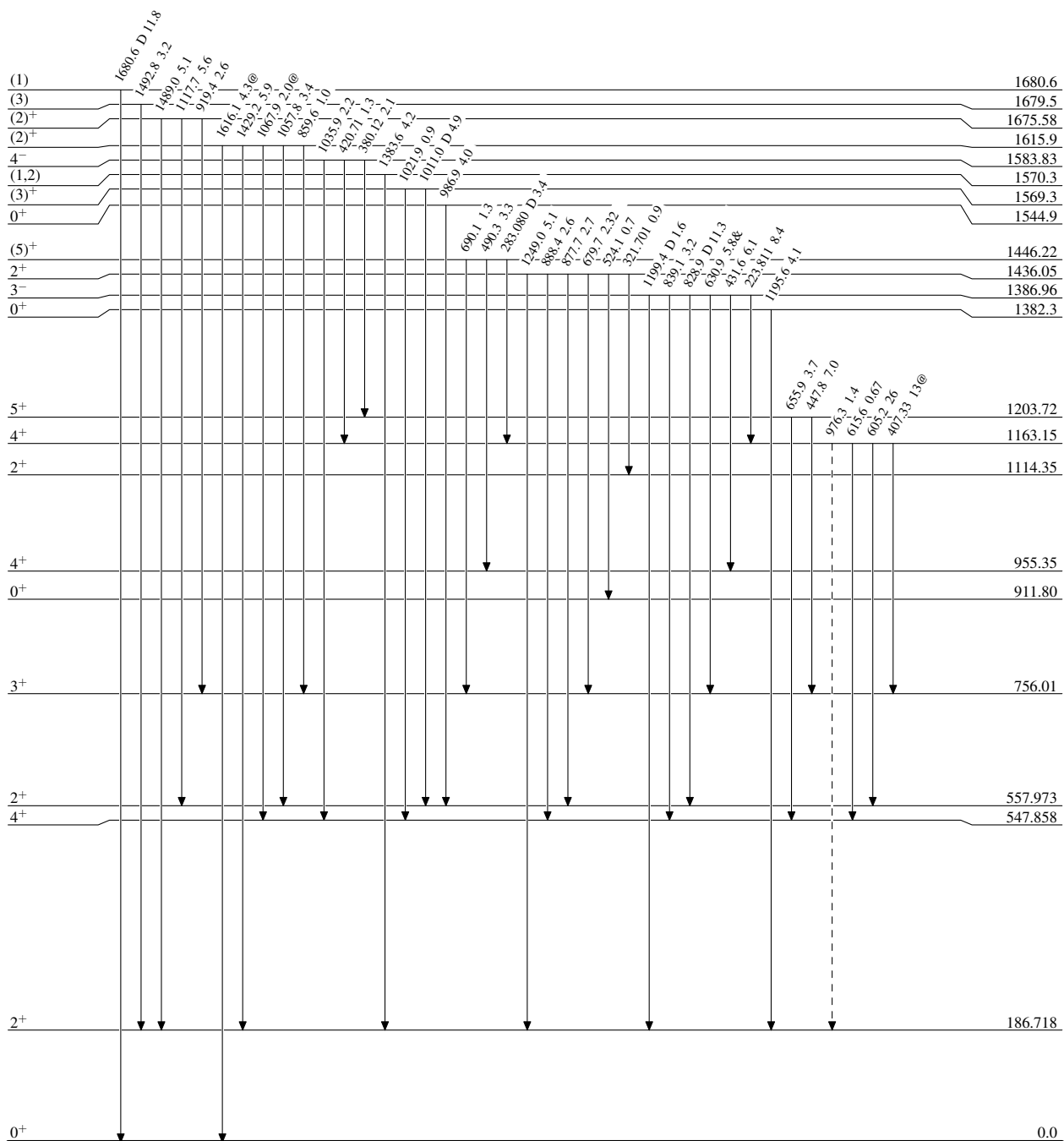
$^{190}\text{Os}(n,n'\gamma),(n,n')$ 1984KIZY,1989C108

Level Scheme (continued)

Legend

Intensities: Relative I_γ
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

→ $I_\gamma < 2\% \times I_\gamma^{\max}$
 → $I_\gamma < 10\% \times I_\gamma^{\max}$
 → $I_\gamma > 10\% \times I_\gamma^{\max}$
 - - - - - γ Decay (Uncertain)



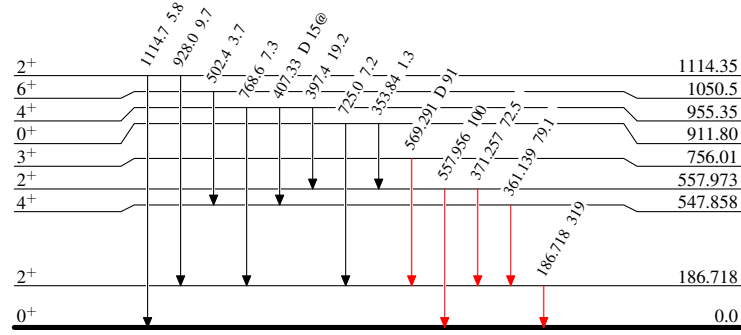
$^{190}\text{Os}(n,n'\gamma),(n,n')$ 1984KIZY,1989CI08

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

Legend

→ $I_\gamma < 2\% \times I_\gamma^{\max}$
→ $I_\gamma < 10\% \times I_\gamma^{\max}$
→ $I_\gamma > 10\% \times I_\gamma^{\max}$

 $^{190}_{76}\text{Os}_{114}$