

$^{189}\text{Os}(\text{n},\gamma)$ E=6.71 eV **1979Ca02**

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

1979Ca02 (also **1975Ma46,1975Ma31**): E=10.3 eV neutrons were produced from the Brookhaven National Laboratory High Flux Beam Reactor (HFBR). Target was 1.0 g 87.3% enriched ^{189}Os . γ rays were detected with a 35-cm³ Ge(Li) detector. Measured $E\gamma$, $I\gamma$. Deduced levels.

 ^{190}Os Levels

E(level) [‡]	J π [†]
0.0	0 ⁺
186.718 2	2 ⁺
547.853 7	4 ⁺
557.978 5	2 ⁺
756.035 14	3 ⁺
911.78 5	0 ⁺
955.365 15	4 ⁺
1050.5 3	6 ⁺
1114.73 4	2 ⁺
1163.21 3	4 ⁺
1203.8 1	5 ⁺
1382.9 2	0 ⁺
1387.02 3	3 ⁻
1435.78 7	2 ⁺
1446.4 3	(5) ⁺
1545.35 13	0 ⁺
1569.0 2	(3) ⁺
1570.3? 3	
1584.30 14	4 ⁻
1616.00 13	(2) ⁺
1675.74 10	(2) ⁺
1680.6 3	(1)
1681.6 3	5 ⁻
1689.2 2	(2 ⁺)
1709.0 6	(2 ⁺ ,3,4 ⁺)
1732.9 2	0 ⁺
1813.4? 5	
1823.8 2	(1,2) ⁺
1859.2 2	(2 ⁺)
1901.9? 3	
1903.5 3	(3 ⁺ ,4 ⁻)
1910.4 2	(2) ⁺
1918.3 4	(1,2)
1941.7 3	(2 ⁺)
1957.2? 6	
1970.7 3	(1 ⁺ ,2)
1992.3? 3	
1995.0 2	(2) ⁺
2010.2 11	1 ⁽⁺⁾
2025.5? 7	
2042.4? 16	
2047.3 11	(1,2)
2071.4? 11	
2111.2 11	(1,2 ⁺)
2118.4? 5	
2125.0? 4	

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$^{189}\text{Os}(\text{n},\gamma) \text{E}=6.71 \text{ eV}$ **1979Ca02** (continued) ^{190}Os Levels (continued)

E(level) [‡]	J ^π [†]	Comments
2135.7? 5		
2153.7 11	(1,2 ⁺)	
2175.4? 20		
2192.5? 16		
2198.4? 11		
2211.2 16	(1,2)	
2223.6? 16		
2263.1? 11		
2290.1 11	(1,2)	
2306.0? 16		
2313.9? 16		
2347.3? 11		
2382.6? 11		
2467.4 11	(1,2)	
2476.6 11	(1 ⁺ ,2 ⁺)	
S(n)+0.00671	1 ⁻	E(level): S(n)+E(n), where S(n)=7792.34 19 (2017Wa10), E(n)=6.71 eV 1 in 2018MuZZ. J ^π : s-wave neutron capture in ^{189}Os (g.s. J ^π =3/2 ⁻) and γ-ray intensity ratios (1976St14,1975Na02), same J ^π in 2018MuZZ.

[†] From the Adopted Levels.[‡] From least-squares fit to E_γ values. $\gamma(^{190}\text{Os})$

I_γ normalization: Σ(I(γ+ce) to g.s.)=100, assuming that the unplaced intensity of 240 units (relative) deexcites mainly the excited states. Conversion coefficients were taken into account.

E _γ [†]	I _γ ^{‡k}	E _i (level)	J _i ^π	E _f	J _f ^π
182.0 2	4.4 6	1569.0	(3) ⁺	1387.02	3 ⁻
186.718 2	346 26	186.718	2 ⁺	0.0	0 ⁺
197.7 ^{mf} 2	4.8 ^{m@e} 7	756.035	3 ⁺	557.978	2 ⁺
197.7 ^{mf} 2	0.2 ^m 1	955.365	4 ⁺	756.035	3 ⁺
197.7 ^m 2	0.6 ^m 1	1584.30	4 ⁻	1387.02	3 ⁻
203.1 1	1.1 1	1114.73	2 ⁺	911.78	0 ⁺
208.1 ^m 1	1.2 ^{mdg} 1	756.035	3 ⁺	547.853	4 ⁺
208.1 ^m 1	0.3 ^{md} 1	1163.21	4 ⁺	955.365	4 ⁺
223.811 7	5.7 4	1387.02	3 ⁻	1163.21	4 ⁺
^x 312.0 3	1.5 [@] 1				
321.2 2	2.1 2	1435.78	2 ⁺	1114.73	2 ⁺
353.86 7	4.3 3	911.78	0 ⁺	557.978	2 ⁺
358.69 4	6.5 6	1114.73	2 ⁺	756.035	3 ⁺
361.136 6	53 4	547.853	4 ⁺	186.718	2 ⁺
371.260 5	100	557.978	2 ⁺	186.718	2 ⁺
380.1 3	0.60 9	1584.30	4 ⁻	1203.8	5 ⁺
397.388 17	9.5 7	955.365	4 ⁺	557.978	2 ⁺
407.176 25	7.1 7	1163.21	4 ⁺	756.035	3 ⁺
407.543 25	6.6 9	955.365	4 ⁺	547.853	4 ⁺
420.8 4	0.42 9	1584.30	4 ⁻	1163.21	4 ⁺
431.6 1	5.1 4	1387.02	3 ⁻	955.365	4 ⁺
^x 441.7 4	0.24 8				
447.8 1	1.6 1	1203.8	5 ⁺	756.035	3 ⁺

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$^{189}\text{Os}(\text{n},\gamma) \text{E}=6.71 \text{ eV}$ **1979Ca02** (continued) $\gamma(^{190}\text{Os})$ (continued)

E_γ †	I_γ ‡k	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
$^{x477.0} 4$	1.0 1					
481.0 9	0.76 12	1435.78	2 ⁺	955.365	4 ⁺	
490.7 3	0.50# 11	1446.4	(5) ⁺	955.365	4 ⁺	
502.6 3	0.48 15	1050.5	6 ⁺	547.853	4 ⁺	
518.4 3	0.61 11	1681.6	5 ⁻	1163.21	4 ⁺	
524.0 2	1.9 2	1435.78	2 ⁺	911.78	0 ⁺	
$^{x547.8} 3$	0.51 11					
557.972 14	147 11	557.978	2 ⁺	0.0	0 ⁺	
569.310 14	105 8	756.035	3 ⁺	186.718	2 ⁺	
574.6 ⁿ 5	1.3 1	1689.2	(2 ⁺)	1114.73	2 ⁺	
605.26 7	12.4 9	1163.21	4 ⁺	557.978	2 ⁺	
630.9 2	5.2 5	1387.02	3 ⁻	756.035	3 ⁺	
$^{x638.0} 3$	1.3 2					
655.8 3	0.77 11	1203.8	5 ⁺	547.853	4 ⁺	
679.75 9	3.4 3	1435.78	2 ⁺	756.035	3 ⁺	
691.0 ⁿ 4	1.4# 2	1446.4	(5) ⁺	756.035	3 ⁺	
725.07 8	15.5 11	911.78	0 ⁺	186.718	2 ⁺	
$^{x734.0} 10$	0.32 12					
740.3 3	0.63 12	1903.5	(3 ⁺ ,4 ⁻)	1163.21	4 ⁺	
$^{x747.9} 6$	0.41 10					
753.6 6	0.45 9	1709.0	(2 ⁺ ,3,4 ⁺)	955.365	4 ⁺	
$^{x755.9} 6$	0.67# 10					
768.68 10	4.1 3	955.365	4 ⁺	186.718	2 ⁺	
$^{x782.4} 8$	0.45 8					
$^{x787.4} 4$	0.26 8					
812.7 4	0.82 17	1569.0	(3) ⁺	756.035	3 ⁺	
$^{x818.3} 3$	0.56 16					
$^{x823.1} 6$	0.42 16					
828.89 11	7.7 6	1387.02	3 ⁻	557.978	2 ⁺	
839.0 3	2.3 2	1387.02	3 ⁻	547.853	4 ⁺	
859.9 4	1.2 1	1616.00	(2) ⁺	756.035	3 ⁺	
877.73 12	4.0 3	1435.78	2 ⁺	557.978	2 ⁺	
887.9 3	<2.6	1435.78	2 ⁺	547.853	4 ⁺	Additional information 1.
$^{x888.4} 3$	<2.6 ^h					
903.6 ⁿ 4	1.2& 2	1859.2	(2 ⁺)	955.365	4 ⁺	
919.64 14	2.8 2	1675.74	(2) ⁺	756.035	3 ⁺	
927.92 12	18.2 13	1114.73	2 ⁺	186.718	2 ⁺	
932.9 4	1.0 1	1689.2	(2 ⁺)	756.035	3 ⁺	
955.1 ^{cn} 5	0.89 20	1910.4	(2) ⁺	955.365	4 ⁺	
976.6 ⁿ 4	1.0 ^d 2	1163.21	4 ⁺	186.718	2 ⁺	
987.33 13	3.2 3	1545.35	0 ⁺	557.978	2 ⁺	
1011.0 2	3.3 3	1569.0	(3) ⁺	557.978	2 ⁺	
$^{x1018.6} 4$	<0.9 ⁱ					
1021.0 4	<0.9	1569.0	(3) ⁺	547.853	4 ⁺	Additional information 2.
1036.0 3	1.1 2	1584.30	4 ⁻	547.853	4 ⁺	
1057.8 3	3.2 3	1616.00	(2) ⁺	557.978	2 ⁺	
1068.0 ^{ln} 3	2.0 ^l 2	1616.00	(2) ⁺	547.853	4 ⁺	
1068.0 ^{ln} 3	2.0 ^{ld} 2	1823.8	(1,2) ⁺	756.035	3 ⁺	
$^{x1085.2} 5$	1.3 2					
$^{x1088.5} 5$	1.2 2					
1103.1 3	2.8 3	1859.2	(2 ⁺)	756.035	3 ⁺	
1114.7 2	9.1 7	1114.73	2 ⁺	0.0	0 ⁺	
1117.7 2	6.4 5	1675.74	(2) ⁺	557.978	2 ⁺	

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$^{189}\text{Os}(\text{n},\gamma) \text{E}=6.71 \text{ eV}$ **1979Ca02** (continued) $\gamma(^{190}\text{Os})$ (continued)

E_γ †	I_γ ‡ k	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1131.2 4	1.5 3	1689.2	(2 ⁺)	557.978	2 ⁺	
1141.8 4	1.1 2	1689.2	(2 ⁺)	547.853	4 ⁺	
1154.4 2	3.4 3	1910.4	(2) ⁺	756.035	3 ⁺	
1174.6 3	10.1 8	1732.9	0 ⁺	557.978	2 ⁺	
1195.8 2	16.7 12	1382.9	0 ⁺	186.718	2 ⁺	
1200.0 5	1.2 ^b 4	1387.02	3 ⁻	186.718	2 ⁺	
^x 1203.9 4	2.0 2					
1214.7 4	3.8 3	1970.7	(1 ⁺ ,2)	756.035	3 ⁺	
1236.3 ^{cn} 3	1.7 2	1992.3?		756.035	3 ⁺	
1249.2 3	5.5 4	1435.78	2 ⁺	186.718	2 ⁺	
1254.7 ^{cn} 5	9.2 & 7	1813.4?		557.978	2 ⁺	
1265.7 2	7.6 6	1823.8	(1,2) ⁺	557.978	2 ⁺	
^x 1285.2 4	1.5 3					
1301.0 3	3.6 3	1859.2	(2 ⁺)	557.978	2 ⁺	
1311.5 3	2.8 3	1859.2	(2 ⁺)	547.853	4 ⁺	
^x 1342.4 4	2.3 3					
^x 1350.4 9	1.6 4					
1353.0 ^{cn} 9	1.3 4	1910.4	(2) ⁺	557.978	2 ⁺	
1360.3 9	3.4 & 4	1545.35	0 ⁺	186.718	2 ⁺	
^x 1368.9 9	1.2 3					
^x 1377.7 3	4.3 4					
1383.6 ^l ^{jn} 3	6.1 ^l 5	1382.9	0 ⁺	0.0	0 ⁺	
1383.6 ^l ^{cn} 3	6.1 ^l 5	1570.3?		186.718	2 ⁺	
1383.6 ^l ⁿ 3	6.1 ^l 5	1941.7	(2 ⁺)	557.978	2 ⁺	
1387.4 6	1.4 ^d 2	1387.02	3 ⁻	0.0	0 ⁺	Mult.: (E3) from the Adopted Gammas.
1396.9 ^{cn} 6	6.2 5	1941.7	(2 ⁺)	547.853	4 ⁺	
1412.6 4	4.4 4	1970.7	(1 ⁺ ,2)	557.978	2 ⁺	
1429.4 2	5.7 5	1616.00	(2) ⁺	186.718	2 ⁺	
1437.0 2	12.3 9	1995.0	(2) ⁺	557.978	2 ⁺	
^x 1452.7 6	2.8 & 4					
^x 1462.7 5	4.8 # 5					
1467.5 ^{cn} 9	1.9 3	2025.5?		557.978	2 ⁺	
^x 1482.4 2	1.7 4					
1489.2 2	11.2 9	1675.74	(2) ⁺	186.718	2 ⁺	
^x 1493.2 4	2.7 4					
1502.1 4	2.7 & 4	1689.2	(2 ⁺)	186.718	2 ⁺	
1512.0 ^{cn} 3	6.0 5	2071.4?		557.978	2 ⁺	
1546.3 2	16.0 12	1732.9	0 ⁺	186.718	2 ⁺	
1567.0 ^{cn} 4	4.2 4	2125.0?		557.978	2 ⁺	
^x 1571.5 4	2.7 3					
1577.6 ^{cn} 4	1.4 2	2135.7?		557.978	2 ⁺	
^x 1595.2 3	5.1 4					
^x 1600.9 5	4.0 4					
1616.1 3	7.3 6	1616.00	(2) ⁺	0.0	0 ⁺	
1626.7 ^{cn} 5	2.3 3	1813.4?		186.718	2 ⁺	
^x 1640.5 6	1.6 & 3					
1672.5 3	6.0 5	1859.2	(2 ⁺)	186.718	2 ⁺	
1680.6 3	16.6 12	1680.6	(1)	0.0	0 ⁺	
1715.2 ^{cn} 3	7.9 ^b 6	1901.9?		186.718	2 ⁺	
^x 1720.1 7	2.3 3					
1731.6 ⁿ 4	3.9 4	1918.3	(1,2)	186.718	2 ⁺	

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$^{189}\text{Os}(n,\gamma) E=6.71 \text{ eV}$ **1979Ca02** (continued) $\gamma(^{190}\text{Os})$ (continued)

E_γ [†]	I_γ ^{‡k}	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1770.5 ^{cn} 6	4.5 5	1957.2?		186.718	2 ⁺
1807.7 ^{cn} 6	2.1 4	1995.0	(2) ⁺	186.718	2 ⁺
1838.8 ^{cn} 7	4.3 & 5	2025.5?		186.718	2 ⁺
^x 1859.9 5	1.7 4				
1883.9 ^{cn} 5	1.8 3	2071.4?		186.718	2 ⁺
^x 1898.8 7	3.7 6				
^x 1908.9 7	2.3 3				
^x 1918.3 6	4.4 4				
1925.4 ^{cn} 5	6.2 5	2111.2	(1,2) ⁺	186.718	2 ⁺
1931.7 ^{cn} 5	4.2 5	2118.4?		186.718	2 ⁺
1942.5 7	6.4 & 9	1941.7	(2) ⁺	0.0	0 ⁺
1949.2 ^{cn} 8	4.3 5	2135.7?		186.718	2 ⁺
^x 1964.9 6	5.9 6				
^x 1971.9 6	1.9 3				
1988.6 ^{cn} 4	2.2 4	2175.4?		186.718	2 ⁺
^x 2005.3 5	1.7 3				
^x 2010.0 5	3.2 4				
^x 2023.3 4	4.0 4				
^x 2051.9 6	5.0 5				
^x 2075.0 5	4.0 4				
^x 2103.6 7	2.5 4				
^x 2111.1 6	8.5 7				
^x 2143.6 5	2.5 4				
^x 2183.4 5	6.3 & 6				
^x 2192.1 4	5.0 6				
^x 2211.9 9	3.6 5				
^x 2228.9 8	2.0 5				
^x 2261.5 5	2.7 5				
^x 2288.3 6	7.1 6				
^x 2297.1 7	2.8 4				
^x 2359.6 7	4.8 9				
^x 2370.8 8	4.4 5				
^x 2393.0 9	3.9 5				
^x 2405.5 6	4.2 & 6				
^x 2417.4 7	4.1 5				
^x 2454.3 9	2.3 5				
^x 2476.3 7	7.8 6				
5315.5 10	11.6 23	S(n)+0.00671	1 ⁻	2476.6	(1 ⁺ ,2 ⁺)
5324.7 10	7.4 13	S(n)+0.00671	1 ⁻	2467.4	(1,2)
5409.5 ⁿ 10	<1.2	S(n)+0.00671	1 ⁻	2382.6?	
5444.8 ⁿ 10	<1.2	S(n)+0.00671	1 ⁻	2347.3?	
5478.2 ⁿ 15	<1.2	S(n)+0.00671	1 ⁻	2313.9?	
5486.1 ⁿ 15	<1.2	S(n)+0.00671	1 ⁻	2306.0?	
5502.0 10	4.6 7	S(n)+0.00671	1 ⁻	2290.1	(1,2)
5529.0 ⁿ 10	<1.2	S(n)+0.00671	1 ⁻	2263.1?	
5568.5 ⁿ 15	<1.2	S(n)+0.00671	1 ⁻	2223.6?	
5580.9 15	1.6 8	S(n)+0.00671	1 ⁻	2211.2	(1,2)
5593.7 ⁿ 10	<1.3	S(n)+0.00671	1 ⁻	2198.4?	
5599.6 ⁿ 15	<1.3	S(n)+0.00671	1 ⁻	2192.5?	
5616.7 ⁿ 20	<1.3	S(n)+0.00671	1 ⁻	2175.4?	
5638.4 10	9.7 9	S(n)+0.00671	1 ⁻	2153.7	(1,2 ⁺)
5680.9 10	7.9 10	S(n)+0.00671	1 ⁻	2111.2	(1,2 ⁺)

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$^{189}\text{Os}(n,\gamma) E=6.71 \text{ eV}$ **1979Ca02** (continued) $\gamma(^{190}\text{Os})$ (continued)

$E_\gamma^\dagger$	$I_\gamma^{\ddagger k}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
5720.7 ⁿ 10	<1.3	S(n)+0.00671	1 ⁻	2071.4?	
5744.8 10	6.5 13	S(n)+0.00671	1 ⁻	2047.3	(1,2)
5749.7 ⁿ 15	<2.1	S(n)+0.00671	1 ⁻	2042.4?	
5781.9 10	6.2 6	S(n)+0.00671	1 ⁻	2010.2	1 ⁽⁺⁾
5797.2 10	7.5 7	S(n)+0.00671	1 ⁻	1995.0	(2) ⁺
5821.4 10	5.1 6	S(n)+0.00671	1 ⁻	1970.7	(1 ⁺ ,2)
5850.2 ⁿ 10	<0.9	S(n)+0.00671	1 ⁻	1941.7	(2) ⁺
5873.8 10	2.1 4	S(n)+0.00671	1 ⁻	1918.3	(1,2)
5881.2 ⁿ 10	<0.9	S(n)+0.00671	1 ⁻	1910.4	(2) ⁺
5932.2 10	9.7 10	S(n)+0.00671	1 ⁻	1859.2	(2) ⁺
5968.8 ⁿ 15	<0.9	S(n)+0.00671	1 ⁻	1823.8	(1,2) ⁺
6058.5 10	13.7 12	S(n)+0.00671	1 ⁻	1732.9	0 ⁺
6112.3 15	3.0 4	S(n)+0.00671	1 ⁻	1680.6	(1)
6222.7 ⁿ 15	<0.9	S(n)+0.00671	1 ⁻	1570.3?	
6246.5 ⁿ 10	<0.9	S(n)+0.00671	1 ⁻	1545.35	0 ⁺
6356.6 ⁿ 10	<0.9	S(n)+0.00671	1 ⁻	1435.78	2 ⁺
6408.7 10	10.3 9	S(n)+0.00671	1 ⁻	1382.9	0 ⁺
6677.4 10	1.9 4	S(n)+0.00671	1 ⁻	1114.73	2 ⁺
7035.6 ⁿ 15	<0.7	S(n)+0.00671	1 ⁻	756.035	3 ⁺
7234.3 10	3.9 4	S(n)+0.00671	1 ⁻	557.978	2 ⁺
7605.9 10	7.2 6	S(n)+0.00671	1 ⁻	186.718	2 ⁺
7792.8 10	5.8 5	S(n)+0.00671	1 ⁻	0.0	0 ⁺

[†] Weighted averaged values from E(n)=th and resonance data of different E(n) in **1979Ca02**. Uncertainties on primary γ rays are not given in **1979Ca02** and assigned by the evaluators from a general statement by **1979Ca02** that relative uncertainty varies from 0.5 to 1.5 keV.

[‡] From **1979Ca02**.

Contains an impurity contribution.

@ May contain a small impurity contribution.

& Broad peak.

^a May be in error, since the quoted value is out of order in the γ -ray energy table given by **1979Ca02**.

^b Corrected for contribution from impurity lines.

^c Tentative placement (evaluator) based on results from (n,n' γ); unplaced in **1979Ca02**.

^d Intensity disagrees with results from other experiments, see $^{189}\text{Os}(n,\gamma) E=\text{th}$.

^e Total $I_\gamma=5.6$ 4.

^f 199.3 from level energy difference.

^g Total $I_\gamma=1.5$ 1.

^h $I_\gamma(887.9\gamma+888.4\gamma)=2.6$ 3.

ⁱ $I_\gamma(1018.6\gamma+1021.0\gamma)=0.9$ 3.

^j Placement not supported by results from (n,n' γ). Instead, it is placed with a 1570 level. This placement to 0⁺ g.s. is also unlikely because of $J^\pi(1383)=0^+$ from L(p,t)=0.

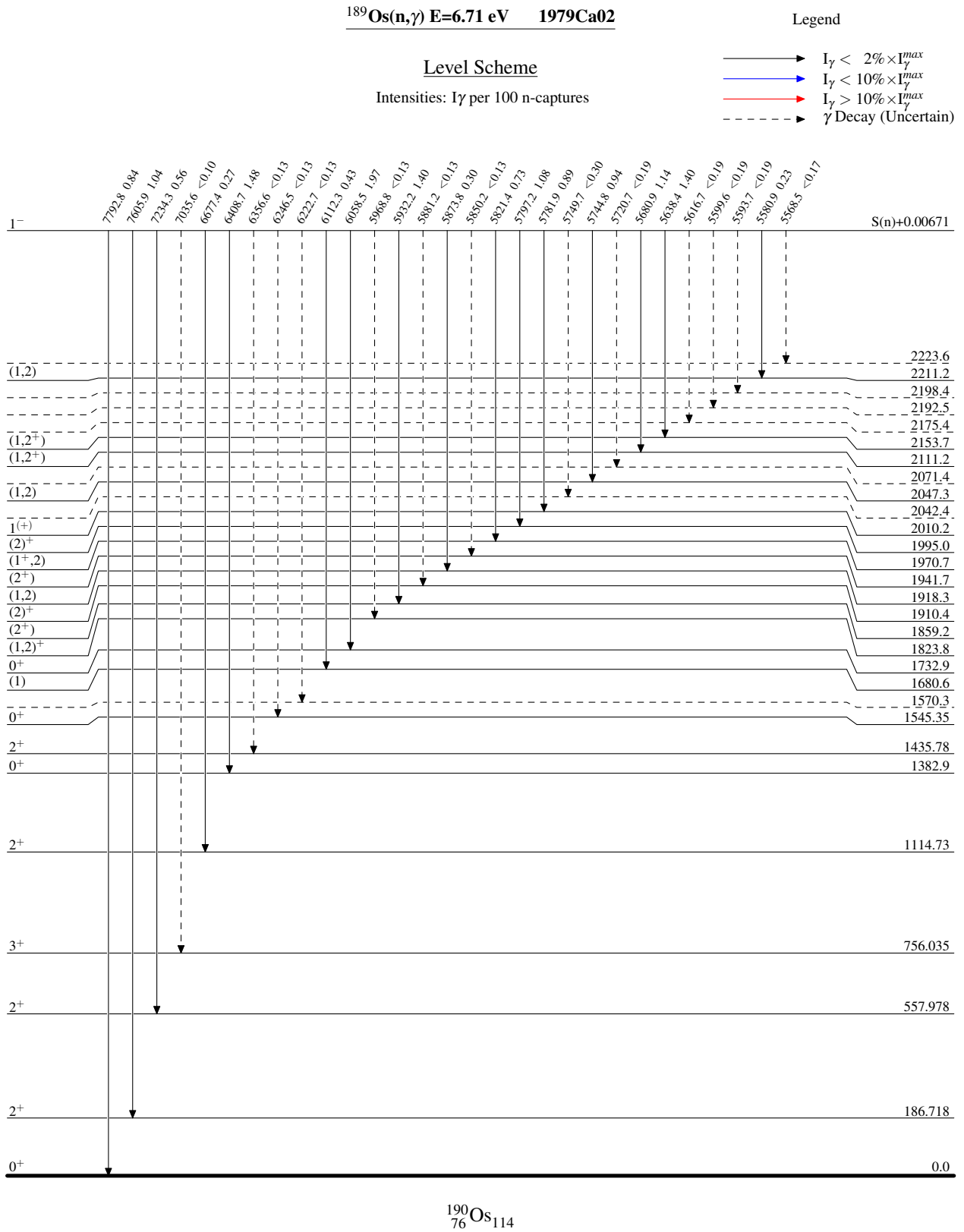
^k For intensity per 100 neutron captures, multiply by 0.144 10.

^l Multiply placed with undivided intensity.

^m Multiply placed with intensity suitably divided.

ⁿ Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.



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



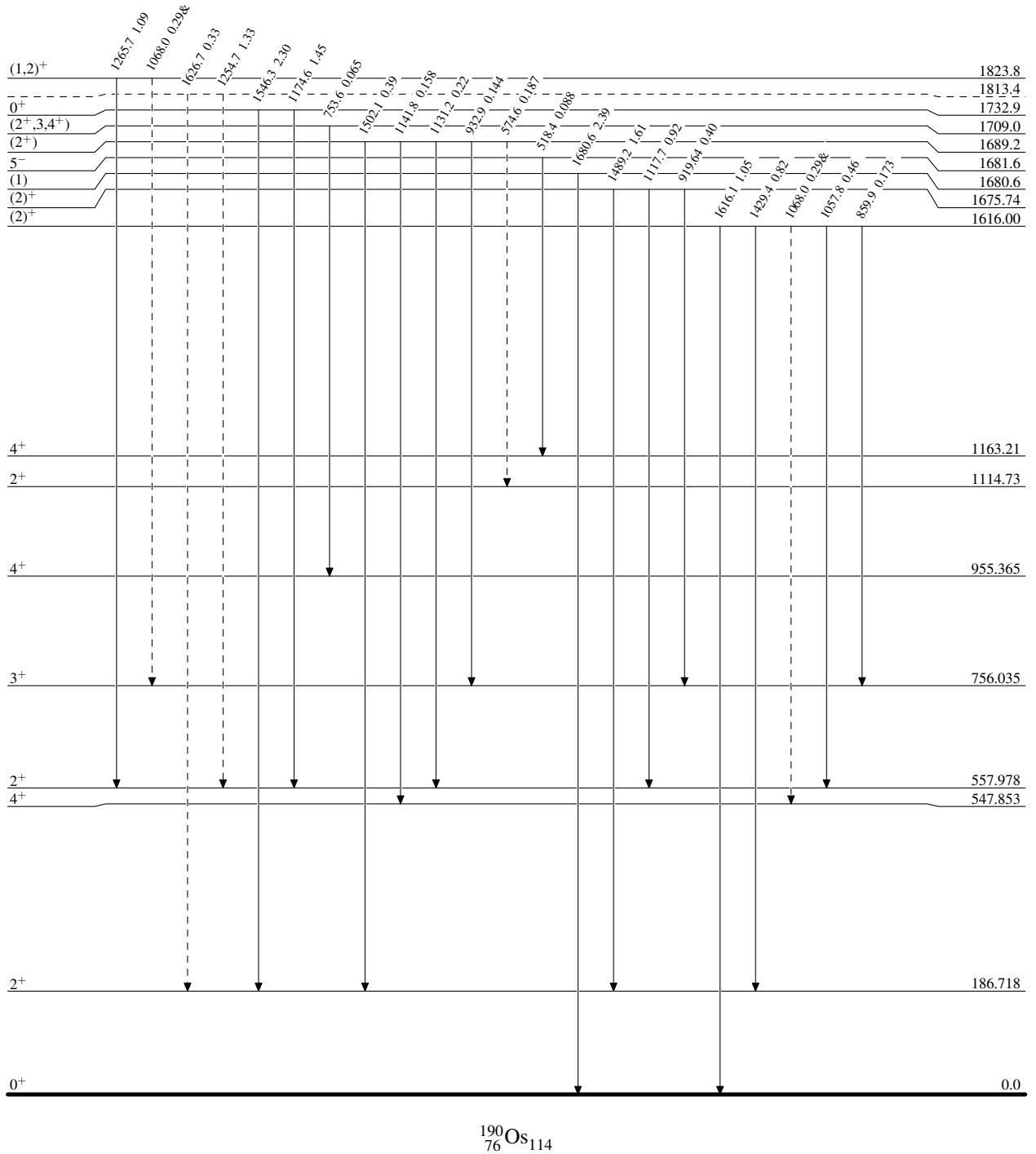
$^{189}\text{Os}(n,\gamma) E=6.71 \text{ eV}$ 1979Ca02

Level Scheme (continued)

Intensities: I_γ per 100 n-captures
& Multiply placed: undivided intensity given

Legend

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

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

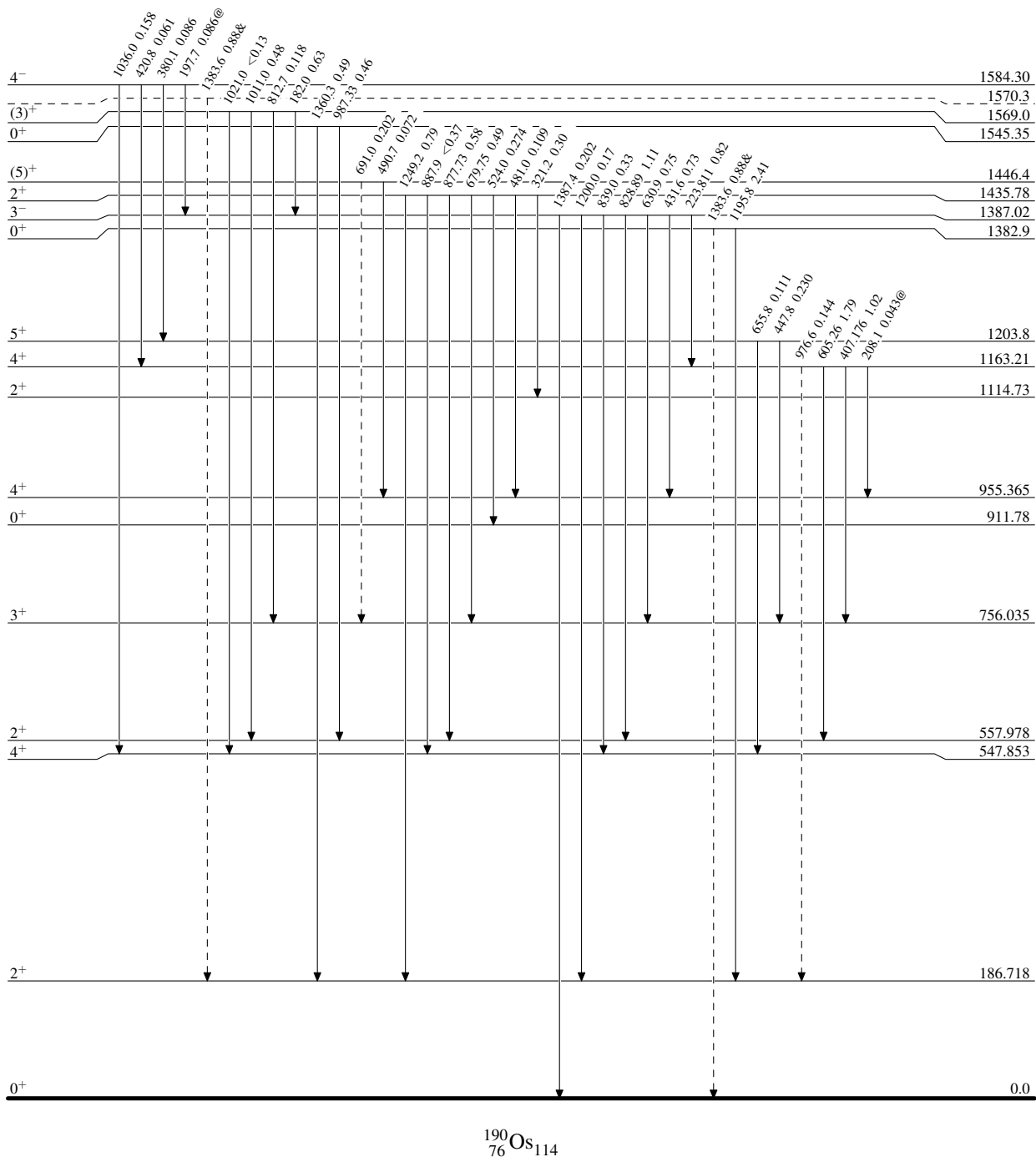
$^{189}\text{Os}(n,\gamma) E=6.71 \text{ eV}$ 1979Ca02

Level Scheme (continued)

Intensities: I_γ per 100 n-captures
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

Legend

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



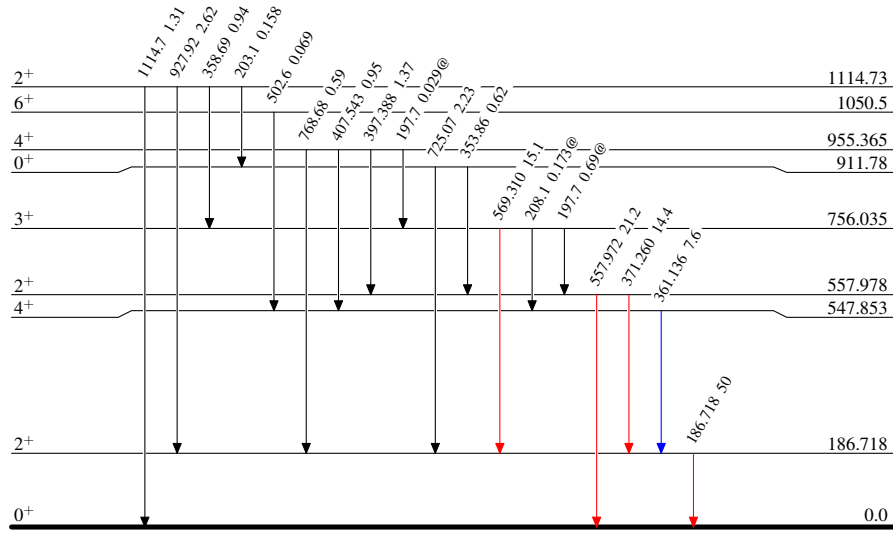
$^{189}\text{Os}(n,\gamma) E=6.71 \text{ eV}$ 1979Ca02

Level Scheme (continued)

Intensities: I_γ per 100 n-captures
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided

Legend

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

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