^{96}Mo(^{3}He,pnγ) 1996As01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

1996As01: 13.5, 15, 16.5, 18 MeV; 96.8% ^{96}Mo-enriched target. Measured pγ-, p$\gamma\gamma$-coin, Eγ, Iγ, $\gamma(\theta)$, DCO, excitation functions.

^{97}Tc Levels

E(level)†	Jπ‡	E(level)†	Jπ‡	E(level)†	Jπ‡
0.0	9/2+#	1579.90 *7*	5/2	1925.46 *12*	
96.64 *6*	1/2−#	1581.42 *9*	11/2+,13/2+,15/2+	1940.4 *20*	
215.77 *4*	7/2+	1582.23 *9*	(3/2,5/2,7/2)	1947.53 *11*	
324.42 *5*	5/2+	1585.7 *2*	(7/2+)	1949.05 *9*	
580.17 *7*	3/2−	1625.26 *20*		1964.35 *13*	
656.91 *6*	5/2−	1650.22 *9*	5/2+,7/2+	1976.64 *13*	
772.67 *6*	13/2+	1654.33 *10*	17/2+	1979.2 *20*	
777.97 *8*	7/2+,9/2+	1677.73 *12*	1/2−,3/2−,5/2−	1987.2 *15*	
785.05 *6*	5/2+	1685.33 *9*	15/2(+)	1992.6 *20*	
832.72 *6*	11/2+	1690.10 *11*	5/2+,7/2+	1994.0 *20*	
855.43 *5*	7/2+	1693.09 *11*	5/2+,7/2+	2001.9 *20*	
861.82 *6*	9/2+	1697.9 *2*		2004.06 *13*	
939.84 *8*	1/2+,(3/2−)	1706.96 *13*		2032.96 *12*	
946.94 *8*	3/2−	1707.44 *11*		2035.7 *20*	
969.78 *8*	7/2+	1720.8 *2*	5/2+	2048.32 *13*	
994.54 *9*	3/2+	1722.4 *15*	5/2+	2054.74 *15*	
1049.07 *8*	5/2−	1732.95 *11*	5/2(+)	2056.1 *20*	
1127.04 *7*	11/2+	1778.6 *15*		2059.6 *20*	
1141.29 *7*	3/2+,5/2+	1797.98 *11*		2067.0 *20*	
1199.59 *6*	9/2+	1801.23 *11*		2069.04 *12*	7/2−,9/2−
1219.99 *7*	7/2+	1815.17 *12*		2095.8 *15*	
1239.96 *7*	5/2−	1834.74 *12*	(9/2+),11/2+	2098.1 *20*	
1274.57 *9*	7/2−	1834.77 *13*	13/2−	2117.5 *15*	
1277.83 *7*	9/2−	1841.73 *13*	3/2+,(5/2)	2119.70 *12*	
1310.18 *11*	7/2+,9/2+	1849.71 *9*	15/2+	2121.49 *10*	(17/2+)
1311.93 *11*		1850.41 *12*		2130.6 *20*	
1373.34 *20*	3/2−	1858.62 *12*		2134.8 *20*	
1380.04 *8*	9/2+	1862.30 *11*		2149.11 *12*	
1393.19 *6*	13/2+	1864.58 *9*		2257.3 *20*	
1400.97 *12*	3/2−,5/2−	1879.2 *20*	(17/2+)	2257.88 *13*	
1409.73 *8*	7/2+	1892.80 *9*	15/2+	2264.35 *13*	
1471.20 *6*	(7/2+),9/2+	1895.68 *12*		2331.1 *20*	
1512.21 *9*	5/2	1897.48 *11*	5/2+,7/2+,9/2+	2337.5 *15*	17/2−#
1518.35 *9*	5/2−	1907.02 *12*		2417.6 *20*	
1523.26 *8*	7/2+	1913.8 *2*		2446.8 *20*	
1527.2 *2*		1919.2 *2*		2449.2 *20*	
1537.95 *12*	11/2+,13/2+	1922.5 *20*		2533.4 *20*	

† From least-squares fit on Eγ's (see also the comment on Eγ column In the γ table).

‡ From 1996As01 based on branching ratios, excitation function, $\gamma(\theta)$, and DCO analyses, except where noted (can differ from values adopted In Adopted Levels, Gammas dataset).

From 1985Ha28 and 1993Ar09 As quoted by 1996As01.

^{96}Mo(^{3}He,pnγ) 1996As01 (continued)

$\gamma(^{97}Tc)$

E_γ[†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
96.60 *20*		96.64	1/2$^-$	0.0	9/2$^+$		
109.2 *3*	17	324.42	5/2$^+$	215.77	7/2$^+$	(M1+E2)	A_2=−0.07 *16*
215.81 *20*	2002	215.77	7/2$^+$	0.0	9/2$^+$	(M1+E2)	A_2=−0.11 *2*
289.8 *3*	8	946.94	3/2$^-$	656.91	5/2$^-$	(M1+E2)	A_2=0.09 *27*
292.83 *20*	10	1239.96	5/2$^-$	946.94	3/2$^-$		
324.44 *20*	1910	324.42	5/2$^+$	0.0	9/2$^+$		A_2=0.04 *2*
332.39 *20*	11	656.91	5/2$^-$	324.42	5/2$^+$		A_2=0.44 *18*
356.23 *20*	58	1141.29	3/2$^+$,5/2$^+$	785.05	5/2$^+$	(M1+E2)	A_2=0.02 *4*
363.54 *20*	22	1834.74	(9/2$^+$),11/2$^+$	1471.20	(7/2$^+$),9/2$^+$	(M1+E2)	A_2=−0.16 *9*
366.69 *20*	60	946.94	3/2$^-$	580.17	3/2$^-$	(M1+E2)	A_2=0.06 *4*
366.92 *20*	50	1199.59	9/2$^+$	832.72	11/2$^+$		
392.13 *20*	57	1049.07	5/2$^-$	656.91	5/2$^-$	(M1+E2)	A_2=0.09 *2*
400.41 *20*	10	2054.74		1654.33	17/2$^+$		
421.56 *20*	61	1199.59	9/2$^+$	777.97	7/2$^+$,9/2$^+$		
422.37 *20*	31	1277.83	9/2$^-$	855.43	7/2$^+$		
426.41 *20*	13	1373.34	3/2$^-$	946.94	3/2$^-$		
429.13 *20*	26	1706.96		1277.83	9/2$^-$		A_2=0.21 *6*
441.0 *3*	6	656.91	5/2$^-$	215.77	7/2$^+$		
456.65 *20*	23	1849.71	15/2$^+$	1393.19	13/2$^+$		
460.55 *20*	58	785.05	5/2$^+$	324.42	5/2$^+$	(M1+E2)	A_2=0.09 *3*
467.18 *20*	10	2121.49	(17/2$^+$)	1654.33	17/2$^+$		
468.96 *20*	30	1049.07	5/2$^-$	580.17	3/2$^-$	(M1+E2)	A_2=0.08 *10*
483.53 *20*	664	580.17	3/2$^-$	96.64	1/2$^-$	(M1+E2)	A_2=−0.06 *2*
483.79 *20*	31	1625.26		1141.29	3/2$^+$,5/2$^+$		
487.6 *3*	10	2337.5	17/2$^-$	1849.71	15/2$^+$		
503.0 *3*	10	2337.5	17/2$^-$	1834.77	13/2$^-$		
530.90 *20*	20	855.43	7/2$^+$	324.42	5/2$^+$		
531.23 *20*	19	1393.19	13/2$^+$	861.82	9/2$^+$		
547.36 *20*	64	1380.04	9/2$^+$	832.72	11/2$^+$	(M1+E2)	A_2=−0.10 *4*
556.94 *20*	65	1834.77	13/2$^-$	1277.83	9/2$^-$	(E2)	A_2=0.29 *5*
560.29 *20*	968	656.91	5/2$^-$	96.64	1/2$^-$		A_2=0.13 *2*
560.48 *20*	29	1393.19	13/2$^+$	832.72	11/2$^+$	(M1+E2)	A_2=−0.28 *5*
569.28 *20*	409	785.05	5/2$^+$	215.77	7/2$^+$	(M1+E2)	A_2=−0.04 *2*
583.10 *20*	67	1239.96	5/2$^-$	656.91	5/2$^-$	(M1+E2)	A_2=0.11 *4*
609.18 *20*	33	1471.20	(7/2$^+$),9/2$^+$	861.82	9/2$^+$		A_2=0.11 *7*
612.0 *3*	6	2446.8		1834.77	13/2$^-$		
615.52 *20*	92	939.84	1/2$^+$,(3/2$^-$)	324.42	5/2$^+$		
615.57 *20*	22	1815.17		1199.59	9/2$^+$		
615.66 *20*	14	1471.20	(7/2$^+$),9/2$^+$	855.43	7/2$^+$	(M1+E2)	A_2=0.22 *10*
617.17 *20*	39	832.72	11/2$^+$	215.77	7/2$^+$		
617.60 *20*	151	1274.57	7/2$^-$	656.91	5/2$^-$	(M1+E2)	A_2=−0.12 *3*
620.63 *20*	30	1393.19	13/2$^+$	772.67	13/2$^+$	(M1+E2)	A_2=0.21 *7*
620.81 *20*	274	1277.83	9/2$^-$	656.91	5/2$^-$	(E2)	A_2=0.25 *2*
639.60 *20*	72	855.43	7/2$^+$	215.77	7/2$^+$	(M1+E2)	A_2=−0.05 *6*
645.27 *20*	159	969.78	7/2$^+$	324.42	5/2$^+$	(M1+E2)	A_2=−0.03 *3*
645.78 *20*	39	861.82	9/2$^+$	215.77	7/2$^+$		
657.3 *3*	10	2067.0		1409.73	7/2$^+$		
659.81 *20*	30	1239.96	5/2$^-$	580.17	3/2$^-$	(M1+E2)	A_2=−0.12 *5*
670.14 *20*	337	994.54	3/2$^+$	324.42	5/2$^+$	(M1+E2)	A_2=0.00 *2*
676.8 *3*	6	2331.1		1654.33	17/2$^+$		
680.36 *20*	45	1650.22	5/2$^+$,7/2$^+$	969.78	7/2$^+$	(M1+E2)	A_2=−0.04 *8*
685.61 *20*	19	1625.26		939.84	1/2$^+$,(3/2$^-$)		
694.45 *20*	22	1274.57	7/2$^-$	580.17	3/2$^-$	(E2)	A_2=0.10 *12*
698.81 *20*	26	1976.64		1277.83	9/2$^-$		
714.8 *3*	7	1992.6		1277.83	9/2$^-$		

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^{96}Mo(^{3}He,pnγ) 1996As01 (continued)

$\gamma(^{97}Tc)$ (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
716.8 *3*	7	1373.34	3/2$^-$	656.91	5/2$^-$		
724.60 *20*	54	1049.07	5/2$^-$	324.42	5/2$^+$		A_2=0.15 *4*
726.3 *3*	14	1720.8	5/2$^+$	994.54	3/2$^+$	(M1+E2)	A_2=−0.18 *8*
728.1 *3*	27	1722.4	5/2$^+$	994.54	3/2$^+$		
748.75 *20*	38	1581.42	11/2$^+$,13/2$^+$,15/2$^+$	832.72	11/2$^+$	(M1+E2)	A_2=0.32 *7*
752.4 *3*	24	1722.4	5/2$^+$	969.78	7/2$^+$	(M1+E2)	A_2=−0.18 *6*
752.6 *3*	13	1409.73	7/2$^+$	656.91	5/2$^-$		
754.01 *20*	202	969.78	7/2$^+$	215.77	7/2$^+$	(M1+E2)	A_2=0.03 *2*
765.28 *20*	28	1537.95	11/2$^+$,13/2$^+$	772.67	13/2$^+$	(M1+E2)	A_2=−0.04 *11*
765.64 *20*	17	1892.80	15/2$^+$	1127.04	11/2$^+$		
772.65 *20*	557	772.67	13/2$^+$	0.0	9/2$^+$	(E2)	A_2=0.29 *2*
777.90 *20*	51	777.97	7/2$^+$,9/2$^+$	0.0	9/2$^+$	(M1+E2)	A_2=0.20 *5*
785.02 *20*	46	785.05	5/2$^+$	0.0	9/2$^+$		A_2=0.03 *9*
794.86 *20*	18	1650.22	5/2$^+$,7/2$^+$	855.43	7/2$^+$	(M1+E2)	A_2=−0.04 *8*
808.70 *20*	36	1581.42	11/2$^+$,13/2$^+$,15/2$^+$	772.67	13/2$^+$	(M1+E2)	A_2=0.37 *4*
816.78 *20*	182	1141.29	3/2$^+$,5/2$^+$	324.42	5/2$^+$	(M1+E2)	A_2=−0.02 *2*
820.79 *20*	42	1400.97	3/2$^-$,5/2$^-$	580.17	3/2$^-$	(M1+E2)	A_2=0.10 *3*
823.5 *3*	8	2098.1		1274.57	7/2$^-$		
832.71 *20*	367	832.72	11/2$^+$	0.0	9/2$^+$	(M1+E2)	A_2=0.37 *3*
843.27 *20*	193	939.84	1/2$^+$,(3/2$^-$)	96.64	1/2$^-$	(M1+E2)	A_2=0.03 *3*
847.4 *3*	7	1841.73	3/2$^+$,(5/2)	994.54	3/2$^+$		
850.19 *20*	208	946.94	3/2$^-$	96.64	1/2$^-$	(M1+E2)	A_2=−0.04 *4*
852.65 *20*	39	1685.33	15/2$^{(+)}$	832.72	11/2$^+$	(E2)	A_2=0.25 *7*
855.27 *20*	32	1512.21	5/2	656.91	5/2$^-$	(M1+E2)	A_2=0.06 *4*
855.38 *20*	360	855.43	7/2$^+$	0.0	9/2$^+$	(M1+E2)	A_2=−0.05 *2*
861.75 *20*	282	861.82	9/2$^+$	0.0	9/2$^+$	(M1+E2)	A_2=0.14 *2*
875.18 *20*	71	1199.59	9/2$^+$	324.42	5/2$^+$		A_2=0.17 *3*
879.1 *3*	6	2533.4		1654.33	17/2$^+$		
881.68 *20*	105	1654.33	17/2$^+$	772.67	13/2$^+$	(E2)	A_2=0.34 *4*
895.41 *20*	60	1219.99	7/2$^+$	324.42	5/2$^+$	(M1+E2)	A_2=−0.12 *3*
897.87 *20*	17	994.54	3/2$^+$	96.64	1/2$^-$		
901.89 *20*	24	1841.73	3/2$^+$,(5/2)	939.84	1/2$^+$,(3/2$^-$)	(M1+E2)	A_2=−0.18 *9*
911.2 *3*	6	2449.2		1537.95	11/2$^+$,13/2$^+$		
911.24 *20*	62	1127.04	11/2$^+$	215.77	7/2$^+$	(E2)	A_2=0.30 *10*
912.62 *20*	37	1685.33	15/2$^{(+)}$	772.67	13/2$^+$	(M1+E2)	A_2=0.0
915.64 *20*	16	1239.96	5/2$^-$	324.42	5/2$^+$		
923.20 *20*	23	1579.90	5/2	656.91	5/2$^-$		
925.16 *20*	45	1582.23	(3/2,5/2,7/2)	656.91	5/2$^-$		
925.42 *20*	18	1141.29	3/2$^+$,5/2$^+$	215.77	7/2$^+$		
938.18 *20*	43	1518.35	5/2$^-$	580.17	3/2$^-$	(M1(+E2))	A_2=−0.21 *3*
949.9 *3*	5	1274.57	7/2$^-$	324.42	5/2$^+$		
970.6 *3*	13	969.78	7/2$^+$	0.0	9/2$^+$		
980.05 *20*	11	2257.88		1277.83	9/2$^-$		
983.81 *20*	101	1199.59	9/2$^+$	215.77	7/2$^+$	(M1+E2)	A_2=−0.38 *3*
993.6 *3*	9	1778.6		785.05	5/2$^+$		
999.65 *20*	20	1579.90	5/2	580.17	3/2$^-$	D(+Q)	A_2=−0.19 *5*
1004.39 *20*	22	1219.99	7/2$^+$	215.77	7/2$^+$	(M1+E2)	A_2=0.02 *6*
1008.91 *20*	12	1864.58		855.43	7/2$^+$		
1009.52 *20*	20	2004.06		994.54	3/2$^+$		
1012.5 *3*	8	1797.98		785.05	5/2$^+$		
1020.6 *3*	9	1677.73	1/2$^-$,3/2$^-$,5/2$^-$	656.91	5/2$^-$		
1024.20 *20*	24	1239.96	5/2$^-$	215.77	7/2$^+$		A_2=−0.06 *6*
1024.2 *3*	9	1994.0		969.78	7/2$^+$		
1024.51 *20*	13	1964.35		939.84	1/2$^+$,(3/2$^-$)		
1049.0 *3*	19	1373.34	3/2$^-$	324.42	5/2$^+$		

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^{96}Mo(^{3}He,pnγ) 1996As01 (continued)

$\gamma(^{97}Tc)$ (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
1053.78 *20*	12	2048.32		994.54	$3/2^+$		
1062.18 *20*	18	1277.83	$9/2^-$	215.77	$7/2^+$		
1062.95 *20*	13	1895.68		832.72	$11/2^+$		
1076.90 *20*	43	1849.71	$15/2^+$	772.67	$13/2^+$	(M1+E2)	A_2=−0.25 *5*
1085.25 *20*	21	1409.73	$7/2^+$	324.42	$5/2^+$	(M1+E2)	A_2=−0.19 *9*
1093.69 *20*	28	1949.05		855.43	$7/2^+$		
1094.40 *20*	65	1310.18	$7/2^+$,$9/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=−0.24 *6*
1096.15 *20*	24	1311.93		215.77	$7/2^+$		
1097.55 *20*	21	1677.73	$1/2^-$,$3/2^-$,$5/2^-$	580.17	$3/2^-$	(M1+E2)	A_2=−0.05 *5*
1101.4 *3*	7	2095.8		994.54	$3/2^+$		
1106.5 *3*	9	1879.2	$(17/2^+)$	772.67	$13/2^+$	(E2)	A_2=0.42 *23*
1120.24 *20*	21	1892.80	$15/2^+$	772.67	$13/2^+$	(M1+E2)	A_2=−0.04 *8*
1126.95 *20*	128	1127.04	$11/2^+$	0.0	$9/2^+$	(M1+E2)	A_2=−0.63 *2*
1134.35 *20*	23	1907.02		772.67	$13/2^+$		
1143.0 *3*	10	2417.6		1274.57	$7/2^-$		
1146.5 *3*	9	1979.2		832.72	$11/2^+$		
1153.0 *3*	7	1732.95	$5/2^{(+)}$	580.17	$3/2^-$		
1160.8 *3*	6	2130.6		969.78	$7/2^+$		
1163.92 *20*	15	1949.05		785.05	$5/2^+$		
1164.22 *20*	62	1380.04	$9/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=−0.42 *4*
1171.13 *20*	11	2032.96		861.82	$9/2^+$		
1187.81 *20*	45	1512.21	5/2	324.42	$5/2^+$	(M1+E2)	A_2=0.04 *8*
1193.49 *20*	11	1850.41		656.91	$5/2^-$		
1194.01 *20*	39	1409.73	$7/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=0.06 *4*
1194.2 *3*	7	1518.35	$5/2^-$	324.42	$5/2^+$		
1197.8 *3*	6	2059.6		861.82	$9/2^+$		
1198.95 *20*	70	1523.26	$7/2^+$	324.42	$5/2^+$	(M1+E2)	A_2=−0.24 *6*
1201.70 *20*	11	1858.62		656.91	$5/2^-$		
1202.8 *3*	9	1527.2		324.42	$5/2^+$		
1219.96 *20*	59	1219.99	$7/2^+$	0.0	$9/2^+$	(M1+E2)	A_2=0.06 *10*
1240.2 *3*	8	2095.8		855.43	$7/2^+$		
1255.46 *20*	15	1579.90	5/2	324.42	$5/2^+$		
1255.56 *20*	10	1471.20	$(7/2^+)$,$9/2^+$	215.77	$7/2^+$		
1255.9 *3*	10	2117.5		861.82	$9/2^+$		
1257.96 *20*	15	1582.23	(3/2,5/2,7/2)	324.42	$5/2^+$		
1261.3 *3*	6	1585.7	$(7/2^+)$	324.42	$5/2^+$	(M1+E2)	A_2=−0.25 *16*
1265.6 *3*	6	1922.5		656.91	$5/2^-$		
1268.54 *20*	19	1925.46		656.91	$5/2^-$		
1276.68 *20*	64	1373.34	$3/2^-$	96.64	$1/2^-$	(M1+E2)	A_2=−0.03 *4*
1283.4 *3*	9	2056.1		772.67	$13/2^+$		
1294.56 *20*	7	2264.35		969.78	$7/2^+$		
1295.8 *3*	8	1512.21	5/2	215.77	$7/2^+$		
1307.37 *20*	12	1523.26	$7/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=−0.15 *5*
1310.7 *3*	36	1310.18	$7/2^+$,$9/2^+$	0.0	$9/2^+$	(M1+E2)	A_2=0.16 *11*
1325.6 *3*	6	1650.22	$5/2^+$,$7/2^+$	324.42	$5/2^+$	(M1+E2)	
1329.9 *3*	6	1987.2		656.91	$5/2^-$		
1348.79 *20*	10	2121.49	$(17/2^+)$	772.67	$13/2^+$	(E2)	A_2=0.50 *19*
1362.1 *3*	8	2134.8		772.67	$13/2^+$		
1363.99 *20*	12	1579.90	5/2	215.77	$7/2^+$		
1366.2 *3*	7	1582.23	(3/2,5/2,7/2)	215.77	$7/2^+$		
1368.5 *3*	9	1693.09	$5/2^+$,$7/2^+$	324.42	$5/2^+$		
1378.8 *3*	8	2035.7		656.91	$5/2^-$		
1383.01 *20*	16	1707.44		324.42	$5/2^+$		
1393.33 *20*	97	1393.19	$13/2^+$	0.0	$9/2^+$	(E2)	A_2=0.25 *6*
1407.4 *3*	6	1987.2		580.17	$3/2^-$		

Continued on next page (footnotes at end of table)

^{96}Mo(^{3}He,pnγ) 1996As01 (continued)

$\gamma(^{97}Tc)$ (continued)

E_γ [†]	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
1412.11 *20*	16	2069.04	$7/2^-$,$9/2^-$	656.91	$5/2^-$	(E2)	A_2=0.30 *38*
1421.69 *20*	18	1518.35	$5/2^-$	96.64	$1/2^-$		
1421.7 *3*	9	2001.9		580.17	$3/2^-$		
1471.35 *20*	78	1471.20	$(7/2^+)$,$9/2^+$	0.0	$9/2^+$	(M1+E2)	A_2=0.19 *7*
1473.55 *20*	17	1797.98		324.42	$5/2^+$		
1474.31 *20*	27	1690.10	$5/2^+$,$7/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=−0.08 *5*
1476.80 *20*	14	1801.23		324.42	$5/2^+$		
1477.31 *20*	33	1693.09	$5/2^+$,$7/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=−0.03 *5*
1482.1 *3*	10	1697.9		215.77	$7/2^+$		
1491.1 *3*	8	1815.17		324.42	$5/2^+$		
1492.18 *20*	12	2149.11		656.91	$5/2^-$		
1517.16 *20*	32	1732.95	$5/2^{(+)}$	215.77	$7/2^+$		A_2=−0.04 *2*
1537.1 *3*	7	2117.5		580.17	$3/2^-$		
1537.87 *20*	35	1862.30		324.42	$5/2^+$		
1538.1 *3*	28	1537.95	$11/2^+$,$13/2^+$	0.0	$9/2^+$		
1539.51 *20*	11	2119.70		580.17	$3/2^-$		
1540.39 *20*	14	1864.58		324.42	$5/2^+$		
1562.8 *3*	10	1778.6		215.77	$7/2^+$		
1589.4 *3*	9	1913.8		324.42	$5/2^+$		
1594.8 *3*	8	1919.2		324.42	$5/2^+$		
1599.9 *3*	6	1815.17		215.77	$7/2^+$		
1616.0 *3*	8	1940.4		324.42	$5/2^+$		
1623.10 *20*	22	1947.53		324.42	$5/2^+$		
1640.1 *3*	7	1964.35		324.42	$5/2^+$		
1677.1 *3*	10	2257.3		580.17	$3/2^-$		
1681.69 *20*	20	1897.48	$5/2^+$,$7/2^+$,$9/2^+$	215.77	$7/2^+$	(M1+E2)	A_2=−0.18 *9*

[†] According to 1996As01, $\Delta E\gamma$ of $E\gamma'$s reported with two decimals is 0.05 keV, while less accurately measured $E\gamma'$s are indicated by one decimal (for which the evaluator adopted $\Delta E\gamma$=0.1 keV), which gave discrepant least-squares fit of levels to $E\gamma'$s (χ-sq norm=8.4 > χ-sq critical= 1.4). ADOPTED here are $\Delta E\gamma$=0.2 keV and $\Delta E\gamma$=0.3 for the γ's In the two respective categories, for which the discrepancy is removed latter category, which together with $\Delta E\gamma'$s of the former category, gave discrepant least-squares fit of levels to $E\gamma'$s (χ-sq norm=8.4 > χ-sq critical= 1.4). ADOPTED here are $\Delta E\gamma'$s twice As large, for which the discrepancy is removed.

[‡] Deduced by evaluator based on $\gamma(\theta)$, DCO, and excitation function from 1996As01. Because of the light projectile, the A_2 coefficients (A_4's are not given) are smaller than the typical values, particularly for small spins, which makes the assignments weak.

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme

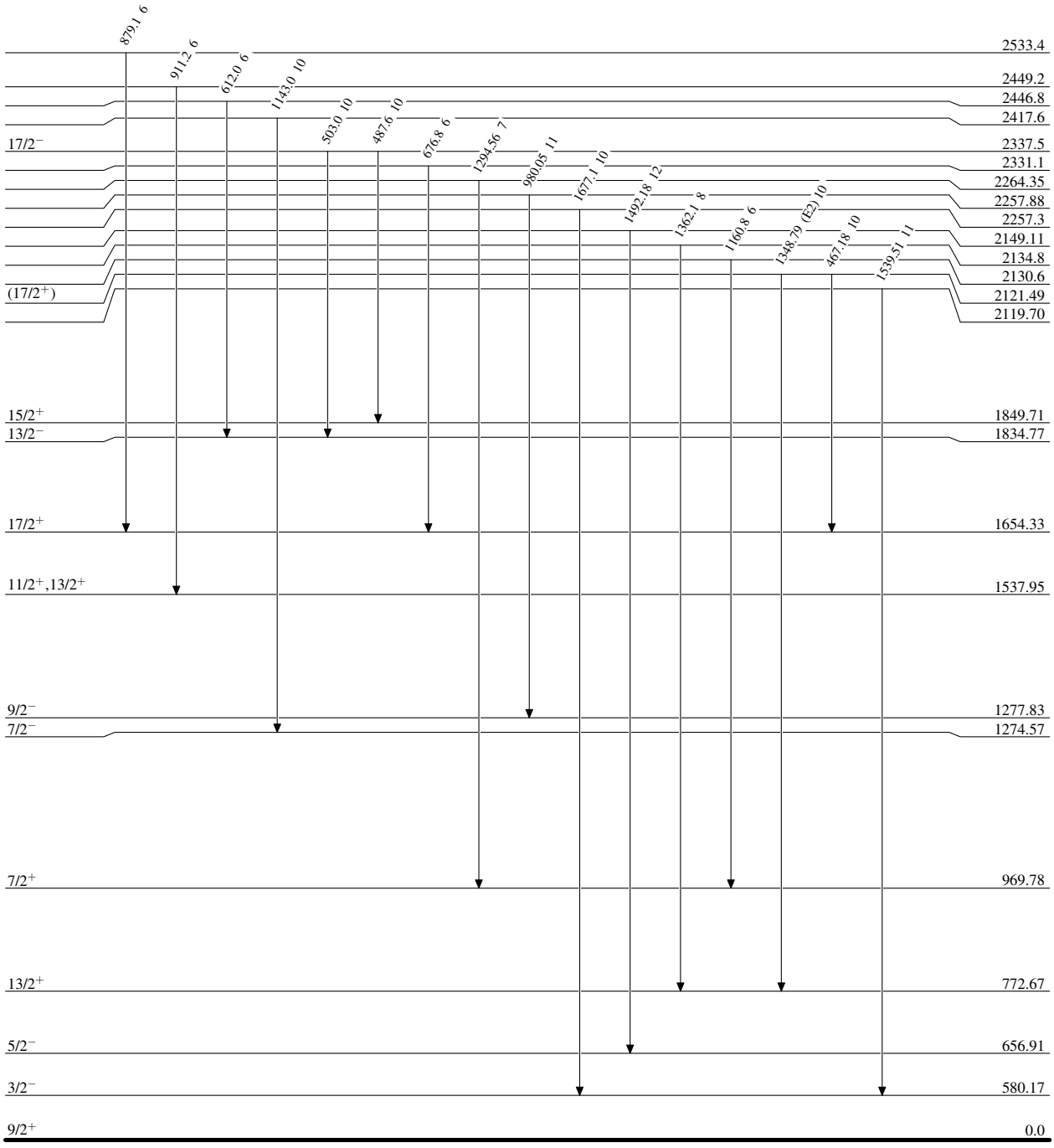
Intensities: Relative I_γ

Legend

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

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

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



$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

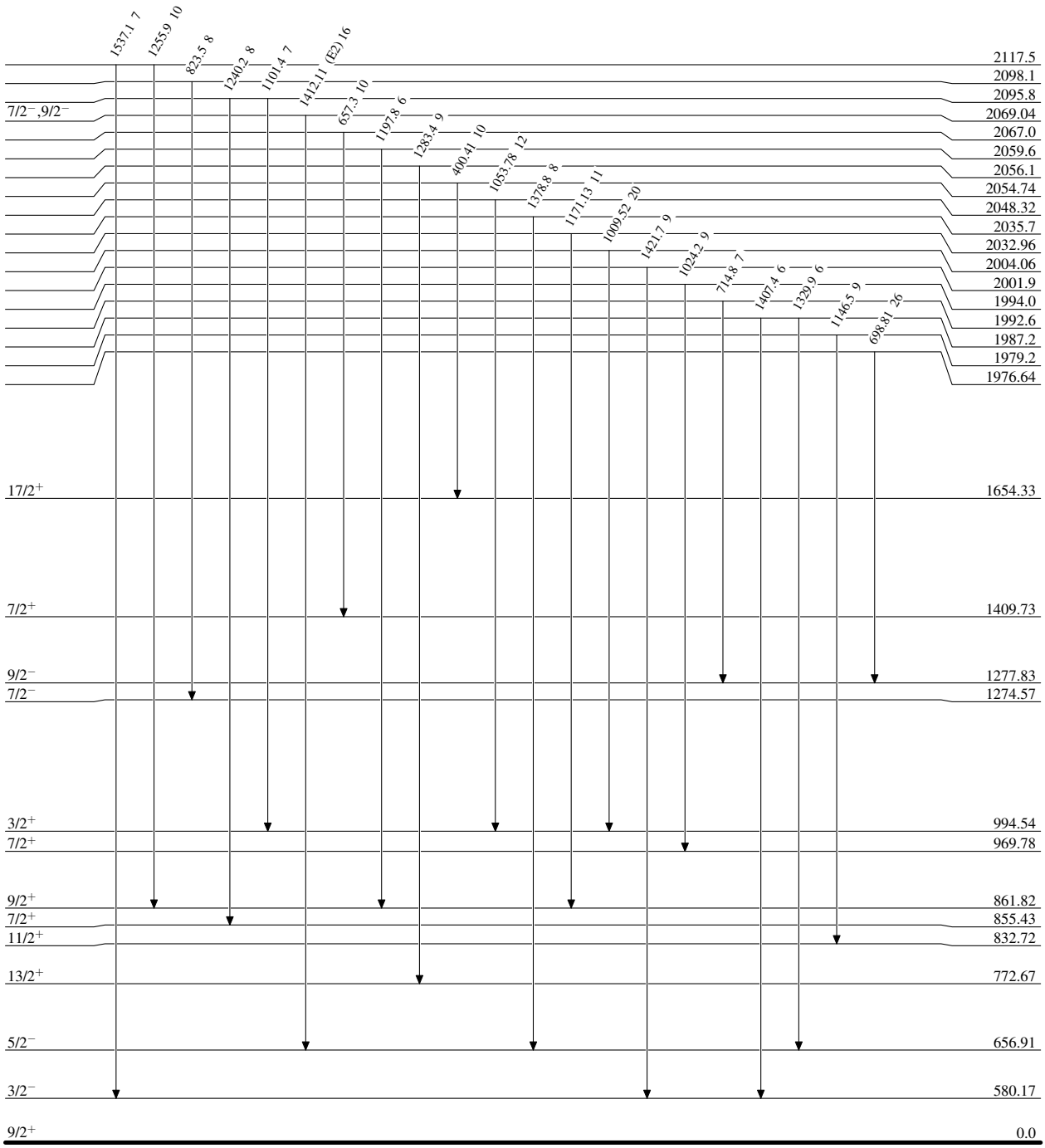
Intensities: Relative I_γ

Legend

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

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

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



$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

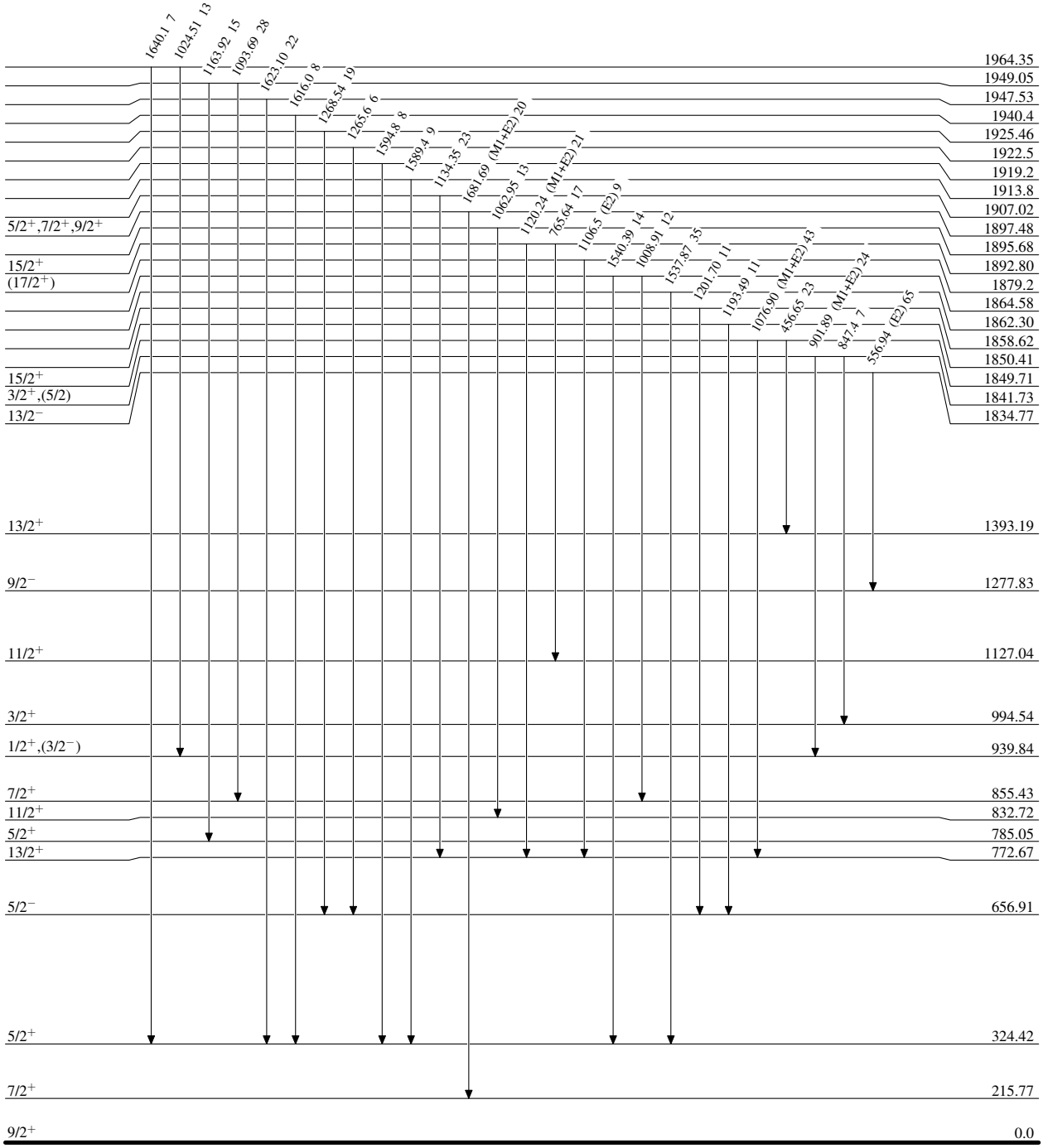
Intensities: Relative I_γ

Legend

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

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

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

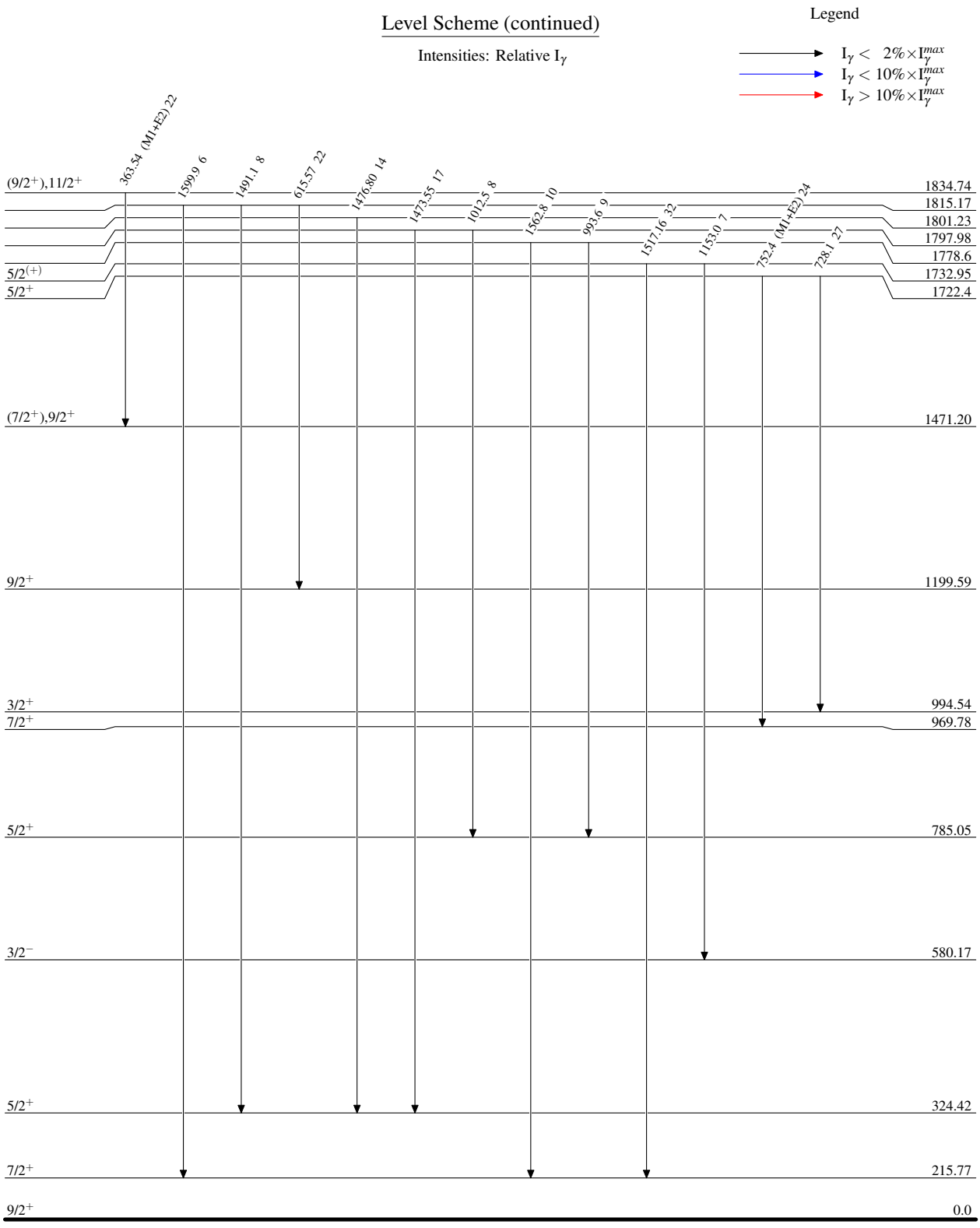


$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

Intensities: Relative I_γ

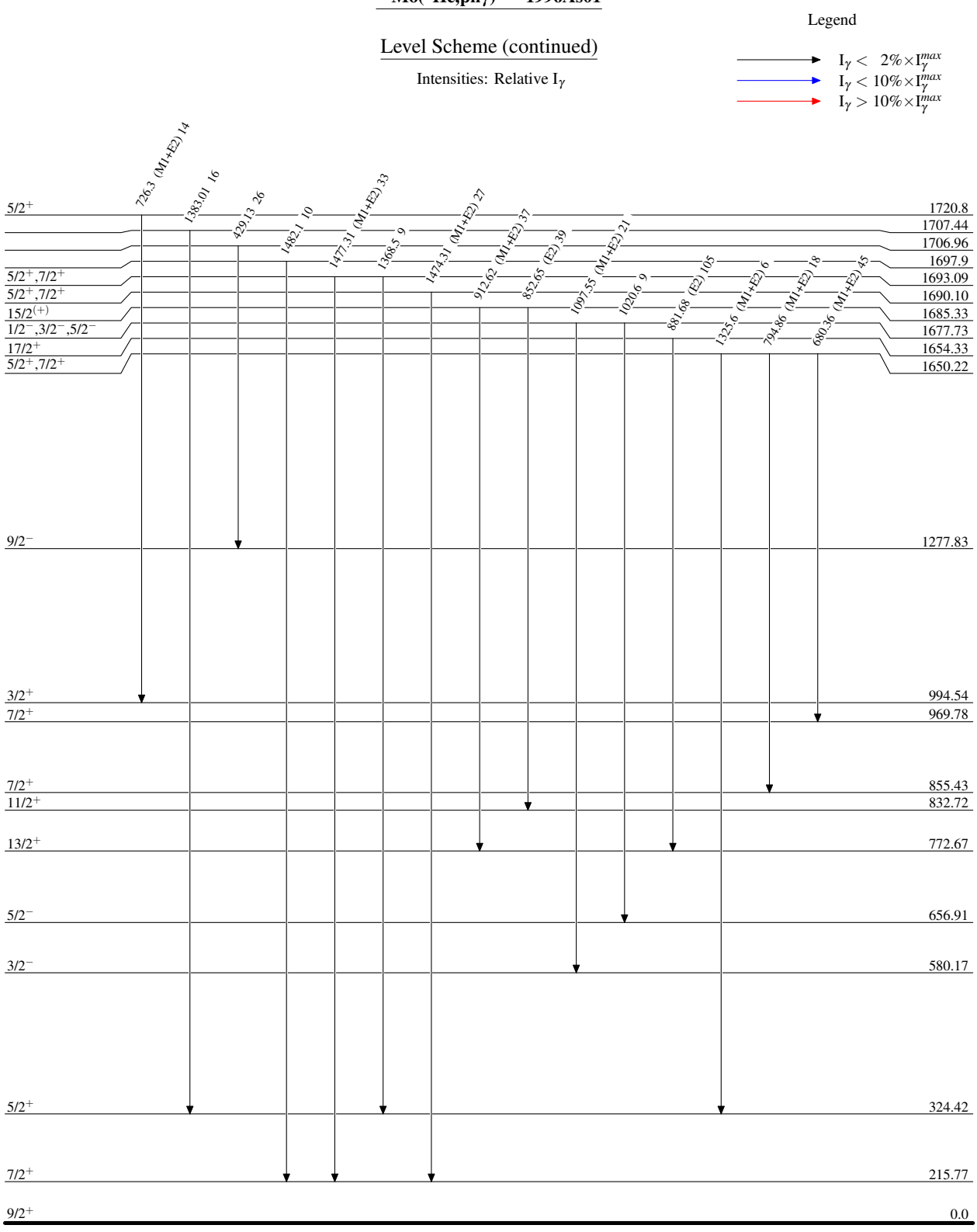


$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

Intensities: Relative I_γ



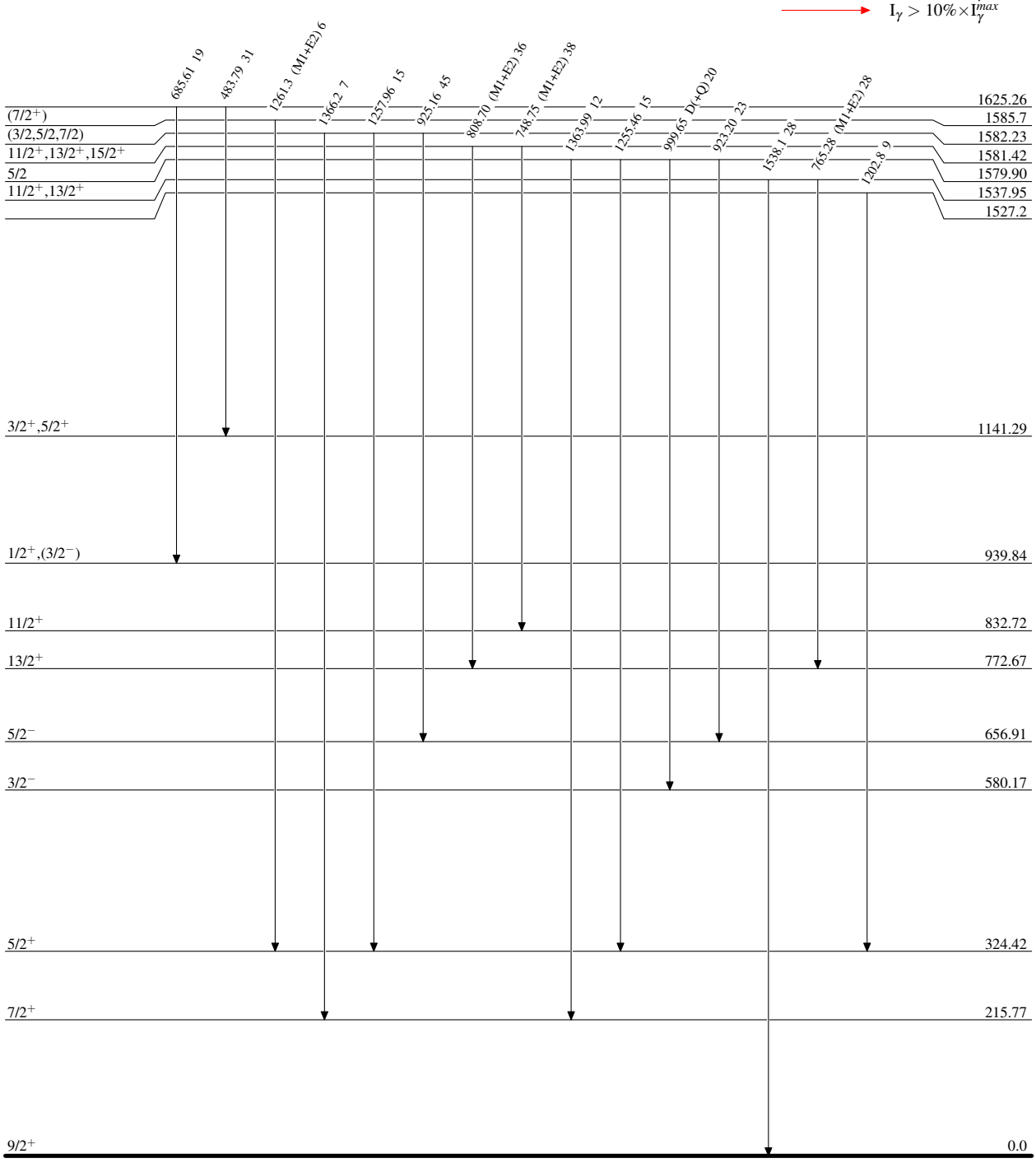
$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

Intensities: Relative I_γ

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

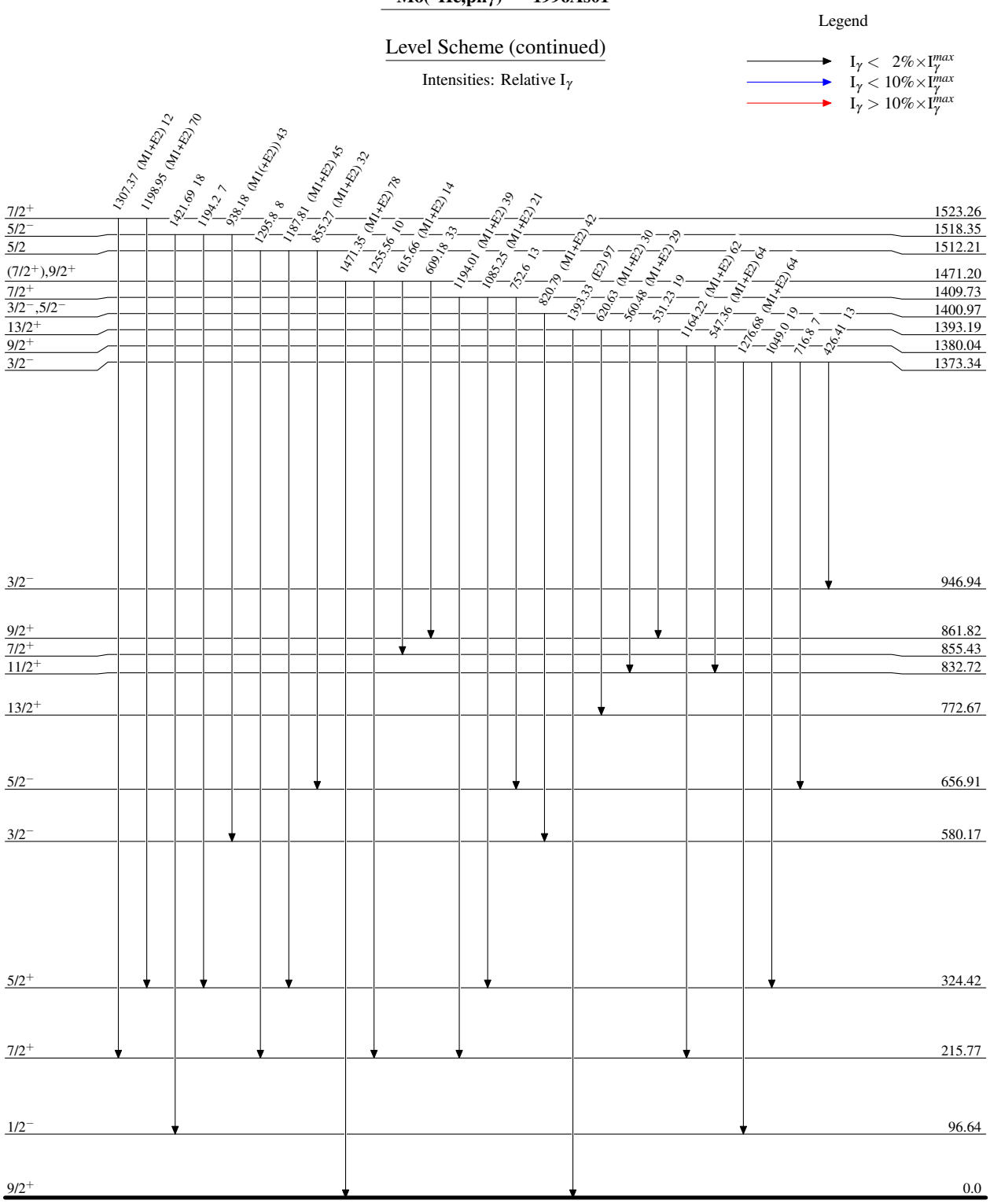


$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

Intensities: Relative I_γ

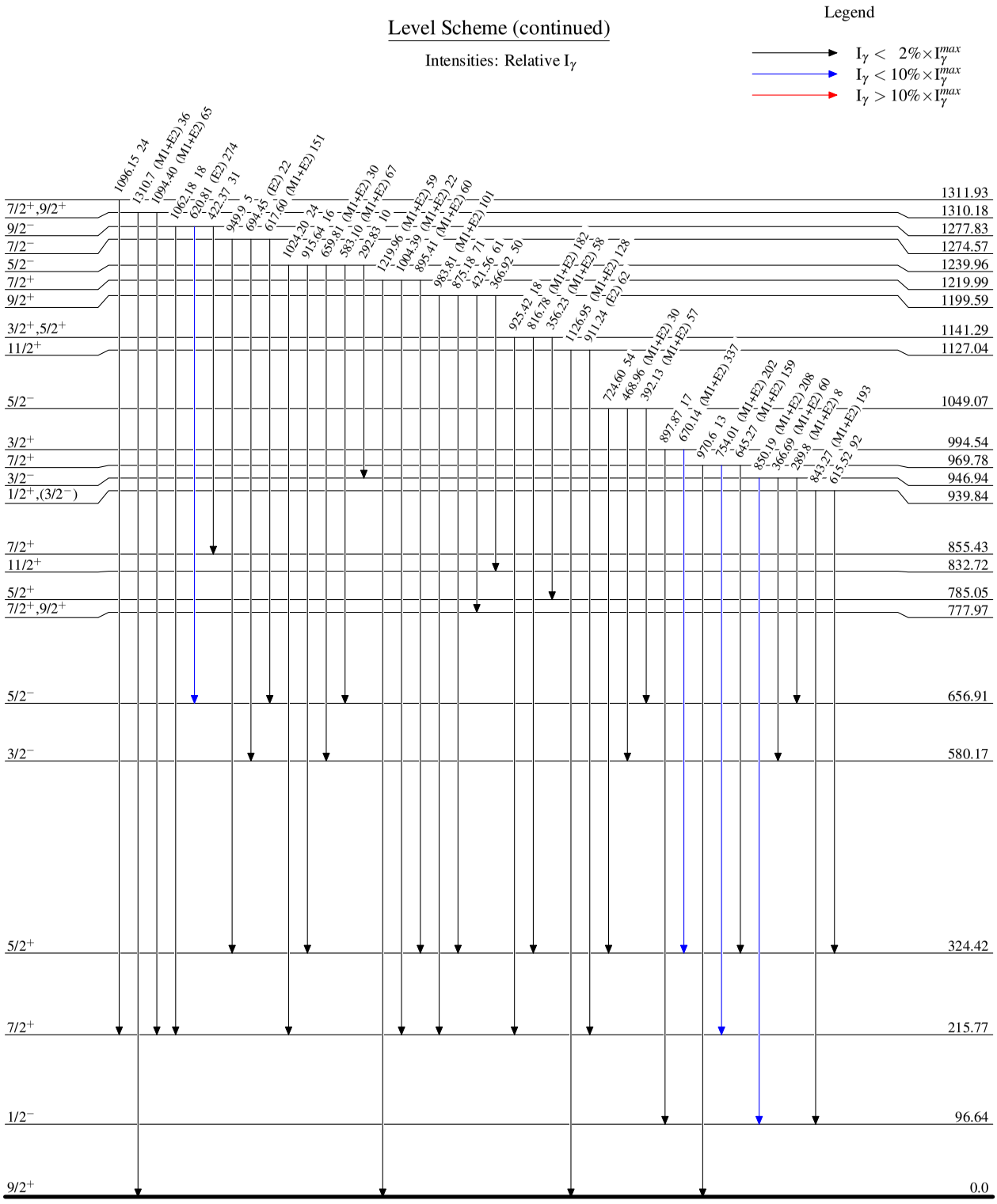


$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

Intensities: Relative I_γ

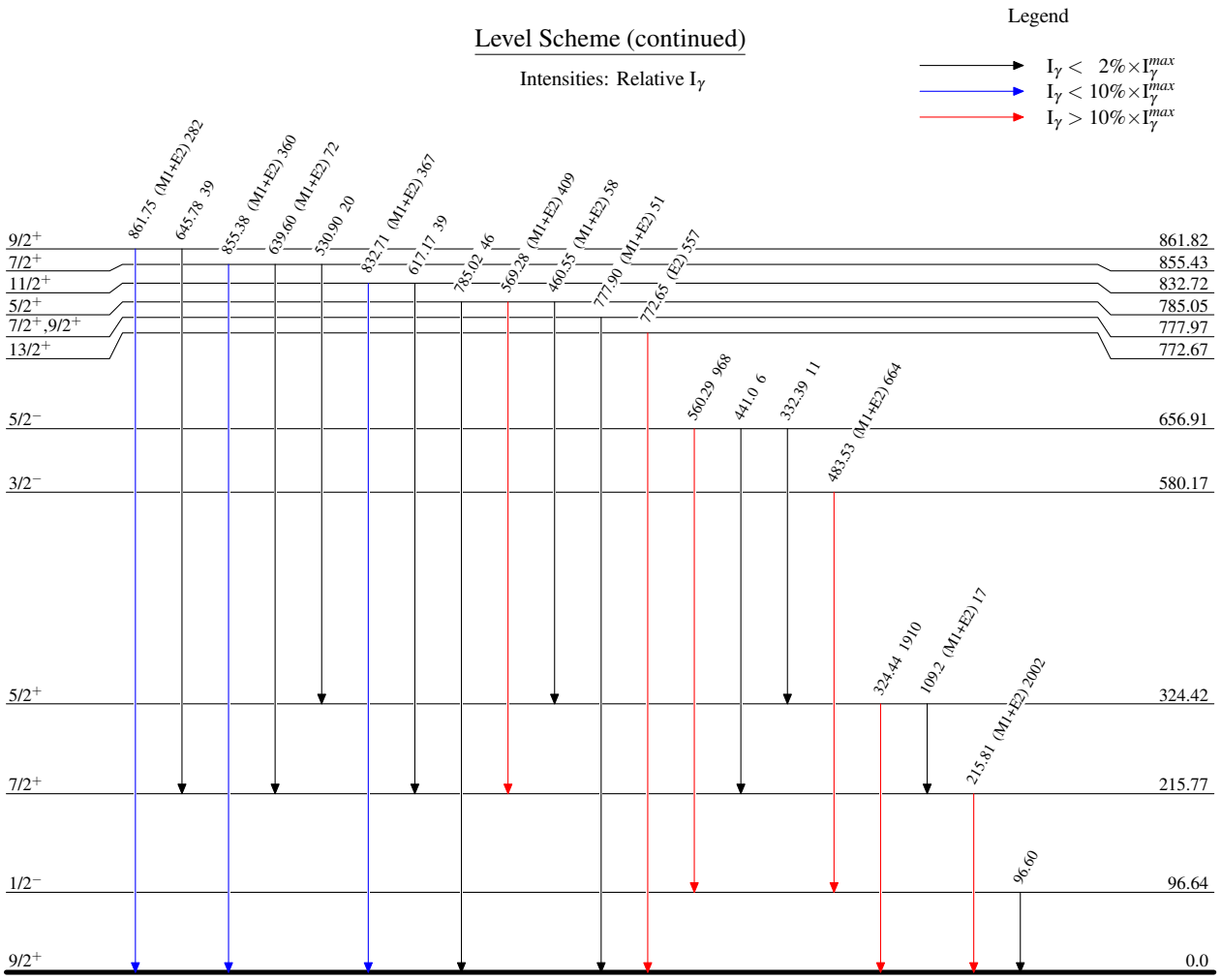


$^{97}_{43}Tc_{54}$

^{96}Mo(^{3}He,pnγ) 1996As01

Level Scheme (continued)

Intensities: Relative I_γ



$^{97}_{43}Tc_{54}$