^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. Tamura	NDS 108, 455 (2007)	30-Sep-2006

See also ^{122}Te(n,n′γ) E=1.7,2.8,3.4 MeV.
1990BeYR: Measured: Eγ, Iγ, Iγ(θ), θ=90°, 105°, 120°, 135°, 150°; γγ-coin, linear polarization; Deduced mult., δ, J^π.
1990Be50: E(level≤2756 keV) and J^π comparison among $^{122-130}$Te isotopes.
1991De27: E(level≤3 MeV) and J^π comparison among $^{106-116}$Cd, $^{114-124}$Sn and $^{122-130}$Te.

^{122}Te Levels

E(level)†	Jπ&	E(level)†	Jπ&	E(level)†	Jπ&	E(level)†	Jπ&
0.0	0^+	2499.47‡ *8*	(0^+)	2778.13‡ *11*	1,2,3	3052.5 *3*	0^+,1,2
564.09 *3*	2^+	2508.66 *7*	$(2)^+$	2789.18 *12*		3061.7‡ *3*	$1^+,2^+$
1181.27 *4*	4^+	2535.75‡ *8*	3,4,5	2796.60‡ *12*	1,2,3	3070.91‡ *8*	3,4,5^-
1256.94 *3*	2^+	2539.00‡ *7*		2800.60 *14*	7^-	3075.12‡ *15*	$1,2^+$
1357.39 *5*	0^+	2557.84‡ *8*	1,2,3	2801.57‡ *10*	(2,3)	3083.8‡ *3*	
1747.06‡ *4*	0^+	2560.73‡# *7*	$^+$	2809.75‡ *11*	$3,4^+$	3086.56 *15*	
1751.34 *6*	6^+	2592.32 *8*	1	2839.80‡ *11*	3^+	3093.83‡ *16*	2^+
1752.57 *4*	2^+	2593.61 *7*	2^+	2860.56‡ *10*	4,5	3113.32‡ *21*	2,3
1909.65 *4*	4^+	2600.96 *7*	3^+	2885.58‡ *8*	$1^+,2^+,3^+$	3132.4‡ *5*	$(2^+,3^+,4^+)$
1940.58 *5*	0^+	2603.77‡ *15*	3,4,5	2911.26 *14*	$1^+,2^+$	3139.6‡ *3*	
1952.02 *5*	3^+	2636.37 *6*	1,2,3	2914.02‡ *9*	(8^+)	3150.20 *21*	0^+,1,2
2041.06 *5*	4^+	2655.07‡ *8*	1,2,3	2915.64‡ *17*	$1,2^+$	3159.32‡ *22*	2^+,3,4^+
2099.26 *7*	$(2)^+$	2669.38 *18*	8^+	2930.09‡ *20*	1,2,3	3171.6‡ *3*	
2196.99 *7*	3^-	2670.09‡ *9*	3^+	2958.2‡ *5*	$3,4^+$	3198.12‡ *21*	1,2,3
2203.85 *7*	$1,2^+$	2679.50‡ *7*	4^+	2972.08 *19*		3224.1‡ *5*	4^+
2283.97 *7*	6^+	2693.51‡ *10*	$3^+,4^+$	2982.83 *20*	$1,2^+$	3247.3‡ *3*	
2287.28 *7*	2^+	2719.13 *8*	$1,2^+$	2993.39‡ *14*	4^+	3283.50‡ *13*	
2297.68‡# *9*	(0^+)	2742.57‡ *10*	1,2,3	2998.10‡ *24*	2^+,3,4^+	3316.7‡ *5*	
2311.07 *7*	$(2)^+$	2756.16 *15*	$0^+,1^+,2^+$	3013.20‡ *16*	3	3335.9‡ *5*	
2407.53 *6*	5^-	2758.83@ *12*	(6^-)	3026.31‡ *14*	$2^+,3^+$	3484.3‡ *5*	$1,2^+$
2407.89 *8*	$(2)^+$	2758.84@ *11*	$(4,5,6)^+$	3031.01‡ *20*		3589.86 *11*	
2448.59‡ *7*	(4^+)	2772.13‡ *9*		3046.51‡ *19*	(3)		

† From 1990BeYR, unless noted otherwise. Evaluator removed the 2439.8 level, $J^\pi=1,2^+$ (1990BeYR) because the 1182.88γ was suitably placed between 1747 and 564 levels.
‡ Additional level placed by evaluator by referring to (n,n′γ) E=1.7,2.8,3.4 MeV.
# Added in 1990Be50.
@ Evaluator modified the level 2758.88 in 1990BeYR into a doublet of 2758.83 (6^-) and 2758.84 $(4,5,6)^+$ as discussed in 2005Hi04.
& From Adopted Levels; 1990BeYR discussed J^π dependence of γ(θ) and of net feeding to respective level. Isotropic γ(θ) indicates 0^+ excitation.

γ(^{122}Te)

E_γ†	I_γ‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.&	Comments
x148.39 *14*	0.070 *10*						
x162.52 *14*	0.090 *13*						
x330.01	1.11 *6*						
351.38# *11*	0.13 *1*	2758.83	(6^-)	2407.53	5^-		
x380.99 *8*	0.22 *2*						
395.18 *9*	0.19 *1*	1752.57	2^+	1357.39	0^+	E2	Mult.: A_2=+0.27, A_4=−0.16; RUL.

^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27 (continued)

γ(^{122}Te) (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.&	δ&	Comments
x427.95 *12*	0.13 *1*							
468.34a *14*	0.090a *9*	2508.66	(2)$^+$	2041.06	4$^+$			E_γ: poor fit. Level-energy difference=467.60.
468.34a# *14*	0.090a *9*	3026.31	2$^+$,3$^+$	2557.84	1,2,3			
490.25# *5*	0.37 *2*	1747.06	0$^+$	1256.94	2$^+$			A_2=−0.08 *3*, A_4=−0.03 *4*.
495.52 *6*	0.28 *2*	1752.57	2$^+$	1256.94	2$^+$	M1+E2	−0.6 *3*	Mult.: A_2=−0.13 *8*, A_4=−0.11 *12*; RUL. δ: −0.6 *3* or 1/δ=−0.24 *+8−25*.
532.68 *7*	0.26 *2*	2283.97	6$^+$	1751.34	6$^+$	M1+E2		Mult.: A_2=+0.42 *2*, A_4=+0.04 *3*; RUL. δ: +0.04<δ<+0.50.
564.10 *4*	100	564.09	2$^+$	0.0	0$^+$	E2		Mult.: A_2=+0.198 *1*, A_4=−0.085 *14*; Δπ=no from Adopted Levels.
570.07 *4*	2.48 *12*	1751.34	6$^+$	1181.27	4$^+$	(E2)		Mult.: A_2=+0.422 *15*, A_4=+0.011 *22*; Δπ=no from Adopted Levels.
x575.06	0.11 *1*							
586.99# *5*	0.42 *2*	2539.00		1952.02	3$^+$	D(+Q)		Mult.: A_2=−0.26 *2*, A_4=−0.03 *3*; lin pol=+2.1 *14-8*.
617.23 *4*	19.1 *9*	1181.27	4$^+$	564.09	2$^+$	E2		Mult.: A_2=+0.307 *10*, A_4=−0.070 *14*; RUL.
628.70# *19*	0.13 *1*	2539.00		1909.65	4$^+$			E_γ: poor fit. Level-energy difference=629.36.
652.67 *6*	0.35 *2*	1909.65	4$^+$	1256.94	2$^+$	E2		Mult.: A_2=+0.29 *3*, A_4=−0.09 *5*; RUL.
683.64 *4*	0.81 *4*	1940.58	0$^+$	1256.94	2$^+$			A_2=−0.012 *15*, A_4=−0.040 *20*; lin pol=+1.4 *+6−4*.
692.83 *4*	17.3 *8*	1256.94	2$^+$	564.09	2$^+$	M1+E2	−3.7 *+11−7*	Mult.: A_2=−0.137 *15*, A_4=−0.026 *20*; RUL. δ: −3.7 *+11−7* or −0.81 *+0−11*.
695.29 *20*	2.33 *3*	1952.02	3$^+$	1256.94	2$^+$			
728.34 *4*	1.45 *7*	1909.65	4$^+$	1181.27	4$^+$	M1+E2	−0.69 *3*	Mult.: A_2=−0.079 *11*, A_4=−0.075 *16*; RUL.
x748.70 *10*	0.16 *1*							
770.79 *6*	0.71 *4*	1952.02	3$^+$	1181.27	4$^+$	M1+E2	−4.3 *+8−5*	Mult.: A_2=+0.01 *3*, A_4=−0.02 *4*; RUL; lin pol=+0.25 *+15−17* (if A_4≠0).
793.30 *4*	4.56 *23*	1357.39	0$^+$	564.09	2$^+$			A_2=+0.002 *10*, A_4=−0.015 *14*.
x811.63 *9*	0.06 *1*							
x821.28 *10*	0.082 *8*							
x833.48 *18*	0.062 *7*							
859.81 *4*	0.80 *4*	2041.06	4$^+$	1181.27	4$^+$	D(+Q)	+0.4 *3*	Mult.: A_2=+0.43 *3*, A_4=+0.01 *4*; lin pol=+4.0 *+18−2*.
873.92# *4*	0.036 *6*	3070.91	3,4,5$^-$	2196.99	3$^-$			
x891.83 *15*	0.071 *7*							
x908.75 *17*	0.097 *9*							
918.04 *17*	0.10 *1*	2669.38	8$^+$	1751.34	6$^+$			
939.7 *3*	0.044 *6*	2196.99	3$^-$	1256.94	2$^+$			
x952.90 *5*	0.068 *10*							
x961.8 *3*	0.059 *9*							
994.25# *21*	0.077 *11*	3093.83	2$^+$	2099.26	(2)$^+$			
1007.25 *21*	0.077 *10*	2758.83	(6$^-$)	1751.34	6$^+$			
1037.84 *10*	0.12 *1*	2789.18		1751.34	6$^+$			
x1046.19 *20*	0.059 *9*							
1049.26 *13*	0.12 *1*	2800.60	7$^-$	1751.34	6$^+$			

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^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27 (continued)

γ(^{122}Te) (continued)

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ[&]	Comments
1074.80[#] *28*	0.049 *8*	3026.31	$2^+,3^+$	1952.02	3^+			
1102.63 *8*	0.27 *3*	2283.97	6^+	1181.27	4^+			A_2=+0.57 *4*, A_4=+0.16 *5*.
[x]1121.1 *3*	0.053 *8*							
[x]1128.04 *17*	0.11 *1*							
1134.54[a#] *14*	0.094[a] *11*	3075.12	$1,2^+$	1940.58	0^+			
1134.54[a#] *14*	0.094[a] *11*	3086.56		1952.02	3^+			
1161.75[a#b] *17*	0.14[a] *2*	2914.02	(8^+)	1752.57	2^+			
1161.75[a#b] *17*	0.14[a] *2*	3113.32	2,3	1952.02	3^+			
1182.88[#] *4*	0.78 *8*	1747.06	0^+	564.09	2^+			Originally placed between the levels 2439.8, J^π=1,2^+ and 1256.9, J^π=2^+ in 1990BeYR, but evaluator replaced because the present placement is consistent with (n,n′γ) E=1.8,3.7,3.4 MeV in Eγ, Iγ and γ(θ). A_2=+0.001 *17*, A_4=−0.028 *24*.
1188.47 *4*	1.30 *13*	1752.57	2^+	564.09	2^+	D+Q	+0.04 *3*	Mult.: A_2=+0.225 *14*, A_4=−0.019 *19*; RUL; lin pol=+1.9 *+19−7* (if A_4≈0).
1220.74 *18*	0.076 *10*	2972.08		1751.34	6^+			
1226.26 *4*	0.95 *9*	2407.53	5^-	1181.27	4^+	E1(+M2)	+0.04 *2*	Mult.: A_2=−0.184 *8*, A_4=−0.013 *12*; lin pol=+2.0 *+36−9*.
1242.18[#] *10*	0.18 *2*	2499.47	(0^+)	1256.94	2^+			
1251.54 *14*	0.10 *1*	2508.66	$(2)^+$	1256.94	2^+			
1256.84 *4*	2.9 *3*	1256.94	2^+	0.0	0^+	E2		Mult.: A_2=+0.218 *12*, A_4=−0.085 *16*; RUL; linear pol=+1.4 *+7−4*.
1267.31[#] *5*	0.62 *6*	2448.59	(4^+)	1181.27	4^+	D(+Q)		Mult.: A_2=+0.27 *3*, A_4=−0.04 *4*.
1300.86[#] *7*	0.66 *7*	2557.84	1,2,3	1256.94	2^+	D(+Q)		Mult.: A_2=+0.216 *14*, A_4=−0.003 *19*.
[x]1325.7 *3*	0.063 *8*							
1336.65 *6*	0.044 *7*	2593.61	2^+	1256.94	2^+			
1345.58 *6*	1.00 *10*	1909.65	4^+	564.09	2^+	E2		Mult.: A_2=+0.320 *8*, A_4=−0.083 *11*; RUL.
1354.47[#] *7*	0.39 *4*	2535.75	3,4,5	1181.27	4^+			A_2=−0.66 *2*, A_4=+0.17 *3*.
1357.94[#] *12*	0.13 *1*	2539.00		1181.27	4^+			
[x]1364.2 *3*	0.034 *7*							
1376.0 *3*	0.088 *11*	1940.58	0^+	564.09	2^+			
1379.45[a#] *6*	0.94[a] *9*	2560.73	$^+$	1181.27	4^+	D+Q	−0.06 *2*	Mult.: A_2=+0.140 *11*, A_4=−0.020 *15*.
1379.45[a#] *6*	0.94[a] *9*	2636.37	1,2,3	1256.94	2^+	D(+Q)	−0.06 *2*	Mult.: A_2=+0.140 *11*, A_4=−0.020 *15*.
1387.88 *6*	1.10 *11*	1952.02	3^+	564.09	2^+	M1+E2		Mult.: A_2=+0.057 *13*, A_4=+0.132 *18*; RUL; lin pol=+1.2 *+11−5* (if A_4≠0). δ: −70 *9-192*.
1398.12[#] *7*	0.38 *4*	2655.07	1,2,3	1256.94	2^+			A_2=−0.10 *2*, A_4=−0.02 *3*.
1412.0 *3*	0.030 *6*	2593.61	2^+	1181.27	4^+			
1419.67 *7*	0.32 *3*	2600.96	3^+	1181.27	4^+	M1(+E2)	+0.50 *14*	Mult.: A_2=−0.45 *6*, A_4=+0.07 *8*; RUL. δ: +0.50 *14* or +2.7 *+11−7*.
1422.40[#] *7*	0.44 *4*	2679.50	4^+	1256.94	2^+	E2		Mult.: A_2=+0.39 *3*, A_4=−0.04 *3*; RUL.
1422.42[#] *6*	0.44 *4*	2603.77	3,4,5	1181.27	4^+			
[x]1456.80 *20*	0.057 *9*							
1462.4 *3*	0.083 *12*	2719.13	$1,2^+$	1256.94	2^+			
1477.07 *7*	0.85 *9*	2041.06	4^+	564.09	2^+	E2		Mult.: A_2=+0.331 *14*, A_4=−0.081 *20*; RUL.

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^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27 (continued)

γ(^{122}Te) (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ[&]	Comments
1488.90[#] *8*	0.34 *3*	2670.09	3^+	1181.27	4^+			A_2=−0.12 *3*, A_4=−0.06 *5*.
1499.08 *20*	0.064 *9*	2756.16	$0^+,1^+,2^+$	1256.94	2^+			
1512.23 *9*	0.33 *3*	2693.51	$3^+,4^+$	1181.27	4^+			A_2=+0.29 *4*, A_4=−0.06 *5*.
1535.13 *6*	1.60 *16*	2099.26	$(2)^+$	564.09	2^+	M1+E2	+2.6 *2*	Mult.: A_2=+0.169 *10*, A_4=−0.028 *14*; RUL; lin pol=+1.1 *+7−4* (if $A_4\neq0$).
1577.55[#] *11*	0.21 *2*	2758.84	$(4,5,6)^+$	1181.27	4^+			
[x]1583.43 *19*	0.062 *9*							
1590.85[#] *8*	0.50 *5*	2772.13		1181.27	4^+			
1628.47[a#] *10*	0.18[a] *2*	2809.75	$3,4^+$	1181.27	4^+			
1628.47[a#] *10*	0.18[a] *2*	2885.58	$1^+,2^+,3^+$	1256.94	2^+			
1632.90 *6*	2.08 *21*	2196.99	3^-	564.09	2^+	E1(+M2)	+0.02 *2*	Mult.: A_2=−0.214 *11*, A_4=−0.025 *17*; lin pol=+2.3 *+29−8* (if $A_4\approx0$).
1639.76 *7*	0.66 *6*	2203.85	$1,2^+$	564.09	2^+	D(+Q)	−0.05 *10*	Mult.: A_2=0.00 *2*, A_4=0.00 *3*. δ: −0.05 *10* or −3 *1*.
1657.07[#] *8*	0.30 *3*	2914.02	(8^+)	1256.94	2^+			A_2=−0.54 *2*, A_4=−0.04 *3*.
1673.14[#] *19*	0.059 *8*	2930.09	1,2,3	1256.94	2^+			
1679.27[#] *9*	0.22 *2*	2860.56	4,5	1181.27	4^+			A_2=−0.25 *5*, A_4=−0.02 *8*.
1723.19 *7*	0.96 *9*	2287.28	2^+	564.09	2^+	M1+E2	+0.11 *6*	Mult.: A_2=+0.26 *3*, A_4=−0.01 *4*; RUL; lin pol=+1.1 *+18−7*. δ: +0.11 *6* or +1.7 *2*.
1733.57[#] *8*	0.35 *3*	2297.68	(0^+)	564.09	2^+			A_2=−0.04 *4*, A_4=−0.05 *7*.
1746.96 *6*	1.03 *10*	2311.07	$(2)^+$	564.09	2^+			A_2=+0.014 *13*, A_4=−0.019 *18*.
1752.67 *6*	2.79 *28*	1752.57	2^+	0.0	0^+	E2		Mult.: A_2=+0.287 *12*, A_4=−0.144 *16*; RUL.
[x]1764.49 *14*	0.106 *4*							
[x]1771.03 *15*	0.088 *11*							
1777.30[@#]	0.19 *2*	2958.2	$3,4^+$	1181.27	4^+			
1795.5 *3*	0.063 *8*	3052.5	$0^+,1,2$	1256.94	2^+			
1812.10[#] *13*	0.18 *2*	2993.39	4^+	1181.27	4^+			
1816.81[#] *23*	0.17 *2*	2998.10	$2^+,3,4^+$	1181.27	4^+			
1831.91[#] *15*	0.10 *1*	3013.20	3	1181.27	4^+			
1837.02[a#] *27*	0.060[a] *7*	3093.83	2^+	1256.94	2^+			
1837.02[a] *27*	0.060[a] *7*	3589.86		1752.57	2^+			
1843.78 *7*	0.75 *8*	2407.89	$(2)^+$	564.09	2^+	M1+E2		Mult.: A_2=+0.31 *2*, A_4=+0.11 *3*; RUL. δ: +5.5 *6* (if $J^\pi=3^+$) (1990BeYR).
1849.72[#] *19*	0.085 *10*	3031.01		1181.27	4^+			
[x]1860.91 *18*	0.062 *8*							
1865.22[#] *18*	0.062 *9*	3046.51	(3)	1181.27	4^+			
1888.33[@#]	0.26 *3*	3070.91	$3,4,5^-$	1181.27	4^+			
1902.5[a#] *3*	0.035[a] *6*	3083.8		1181.27	4^+			
1902.5[a#] *3*	0.035[a] *6*	3159.32	$2^+,3,4^+$	1256.94	2^+			
1935.86[#] *12*	0.12 *1*	2499.47	(0^+)	564.09	2^+			
1944.41 *7*	0.48 *5*	2508.66	$(2)^+$	564.09	2^+	M1+E2	−0.05 *2*	Mult.: A_2=+0.217 *14*, A_4=+0.025 *19*; RUL. δ: −0.05 *2* (if J=2), +0.36 *3* (if J=3).
[x]1952.0 *3*	0.055 *8*							
1958.3[#] *3*	0.070 *9*	3139.6		1181.27	4^+			
1977.9 *3*	0.045 *7*	3159.32	$2^+,3,4^+$	1181.27	4^+			
1990.3[a#] *3*	0.014[a] *2*	3171.6		1181.27	4^+			
1990.3[a] *3*	0.014[a] *2*	3247.3		1256.94	2^+			

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^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27 (continued)

γ(^{122}Te) (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π	Comments
2028.10 *20*	0.098 *11*	2592.32	1	564.09	2^+	
2029.75 *20*	0.15 *2*	2593.61	2^+	564.09	2^+	
2036.87 *9*	0.20 *2*	2600.96	3^+	564.09	2^+	
2072.19 *10*	0.19 *2*	2636.37	1,2,3	564.09	2^+	
2099.3 *3*	0.082 *10*	2099.26	$(2)^+$	0.0	0^+	
2104.7 *3*	0.14 *2*	2670.09	3^+	564.09	2^+	E_γ: poor fit. Level-energy difference=2105.89.
2115.77# *11*	0.17 *2*	2679.50	4^+	564.09	2^+	
2154.84 *9*	0.13 *1*	2719.13	$1,2^+$	564.09	2^+	
2178.46# *9*	0.26 *3*	2742.57	1,2,3	564.09	2^+	A_2=+0.10 *2*, A_4=+0.02 *3*.
2192.18 *20*	0.095 *11*	2756.16	$0^+,1^+,2^+$	564.09	2^+	
2203.79 *11*	0.19 *2*	2203.85	$1,2^+$	0.0	0^+	A_2=−0.16 *4*, A_4=−0.14 *5*.
2214.02# *10*	0.25 *3*	2778.13	1,2,3	564.09	2^+	A_2=+0.20 *4*, A_4=+0.03 *6*.
2232.49a# *11*	0.21a *2*	2796.60	1,2,3	564.09	2^+	A_2=+0.11 *5*, A_4=+0.01 *8*.
2232.49a *11*	0.21a *2*	3589.86		1357.39	0^+	Mult.: A_2=+0.11 *5*, A_4=+0.01 *8*.
2237.46# *9*	0.22 *2*	2801.57	(2,3)	564.09	2^+	A_2=−0.31 *4*, A_4=−0.04 *5*.
2275.69# *10*	0.17 *2*	2839.80	3^+	564.09	2^+	A_2=−0.53 *4*, A_4=+0.08 *5*.
2287.16 *20*	0.096 *11*	2287.28	2^+	0.0	0^+	
2321.62# *10*	0.17 *2*	2885.58	$1^+,2^+,3^+$	564.09	2^+	A_2=+0.27 *4*, A_4=0.00 *5*.
2347.14 *13*	0.13 *1*	2911.26	$1^+,2^+$	564.09	2^+	
2351.52# *16*	0.096 *11*	2915.64	$1,2^+$	564.09	2^+	
x2366.06 *19*	0.086 *10*					A_2=−0.19 *13*, A_4=+0.13 *14*.
x2374.64 *13*	0.16 *2*					A_2=+0.30 *5*, A_4=+0.06 *6*.
x2385.88 *28*	0.025 *5*					
2394.0 *5*	0.062 *9*	2958.2	$3,4^+$	564.09	2^+	
x2407.40	0.046 *7*					
2549.20# *20*	0.052 *7*	3113.32	2,3	564.09	2^+	
2568.3# *5*	0.045 *7*	3132.4	$(2^+,3^+,4^+)$	564.09	2^+	
2586.08 *20*	0.11 *1*	3150.20	$0^+,1,2$	564.09	2^+	
2592.31 *8*	0.50 *5*	2592.32	1	0.0	0^+	A_2=−0.11 *2*, A_4=−0.06 *3*.
2634.00# *20*	0.11 *1*	3198.12	1,2,3	564.09	2^+	
2660.0# *5*	0.099 *12*	3224.1	4^+	564.09	2^+	
2719.38a *12*	0.17a *2*	2719.13	$1,2^+$	0.0	0^+	A_2=−0.05 *3*, A_4=−0.05 *3*.
2719.38a# *12*	0.17a *2*	3283.50		564.09	2^+	A_2=−0.05 *3*, A_4=−0.05 *3*.
x2734.2 *5*	0.056 *7*					
2752.6# *5*	0.039 *7*	3316.7		564.09	2^+	
2771.8# *5*	0.039 *6*	3335.9		564.09	2^+	
x2797.0 *4*	0.051 *7*					
x2883.8 *5*	0.059 *8*					
2920.2# *5*	0.11 *1*	3484.3	$1,2^+$	564.09	2^+	
x2935.1 *5*	0.020 *5*					
x2945.4 *5*	0.043 *6*					
2982.79 *20*	0.10 *1*	2982.83	$1,2^+$	0.0	0^+	
3061.7# *3*	0.08 *9*	3061.7	$1^+,2^+$	0.0	0^+	
3094.6# *4*	0.037 *6*	3093.83	2^+	0.0	0^+	

[†] From 1990BeYR.
[‡] Relative to Iγ(564.10γ)=100 for reactor neutron spectra (1990BeYR).
[#] γ placed by evaluator referring to E(level) and γ′s in (n,n′γ) E=1.7,2.8,3.4 MeV from the energy fit to the unplaced γ′s listed in

Continued on next page (footnotes at end of table)

^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27 (continued)

γ(^{122}Te) (continued)

1990BeYR.

@ Composite peak.

& From γ(θ), γ(lin pol) and RUL: transitions with $A_2 \approx +0.3$ and $A_4 \approx -0.1$ are assigned as stretched Q, further applying RUL conditions from known $T_{1/2}$, mult.=E2 are deduced; D(+Q) transitions with large δ are assigned as M1(+E2) using RUL conditions. If the J^π of parent level is known, ΔJ and/or Δπ change(s) are used for the mult. assignments.

a Multiply placed with undivided intensity.

b Placement of transition in the level scheme is uncertain.

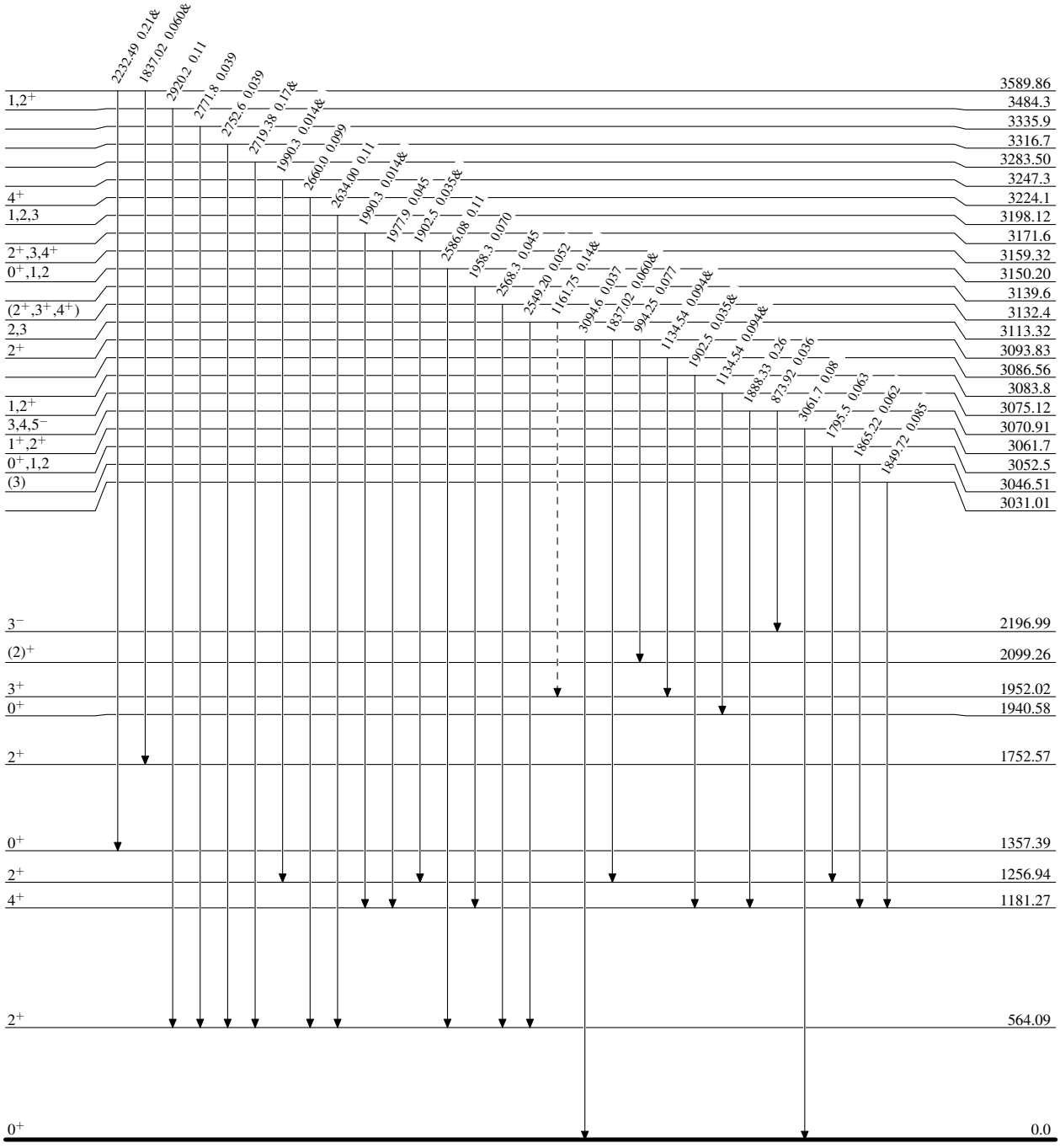
x γ ray not placed in level scheme.

^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27

Level Scheme

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



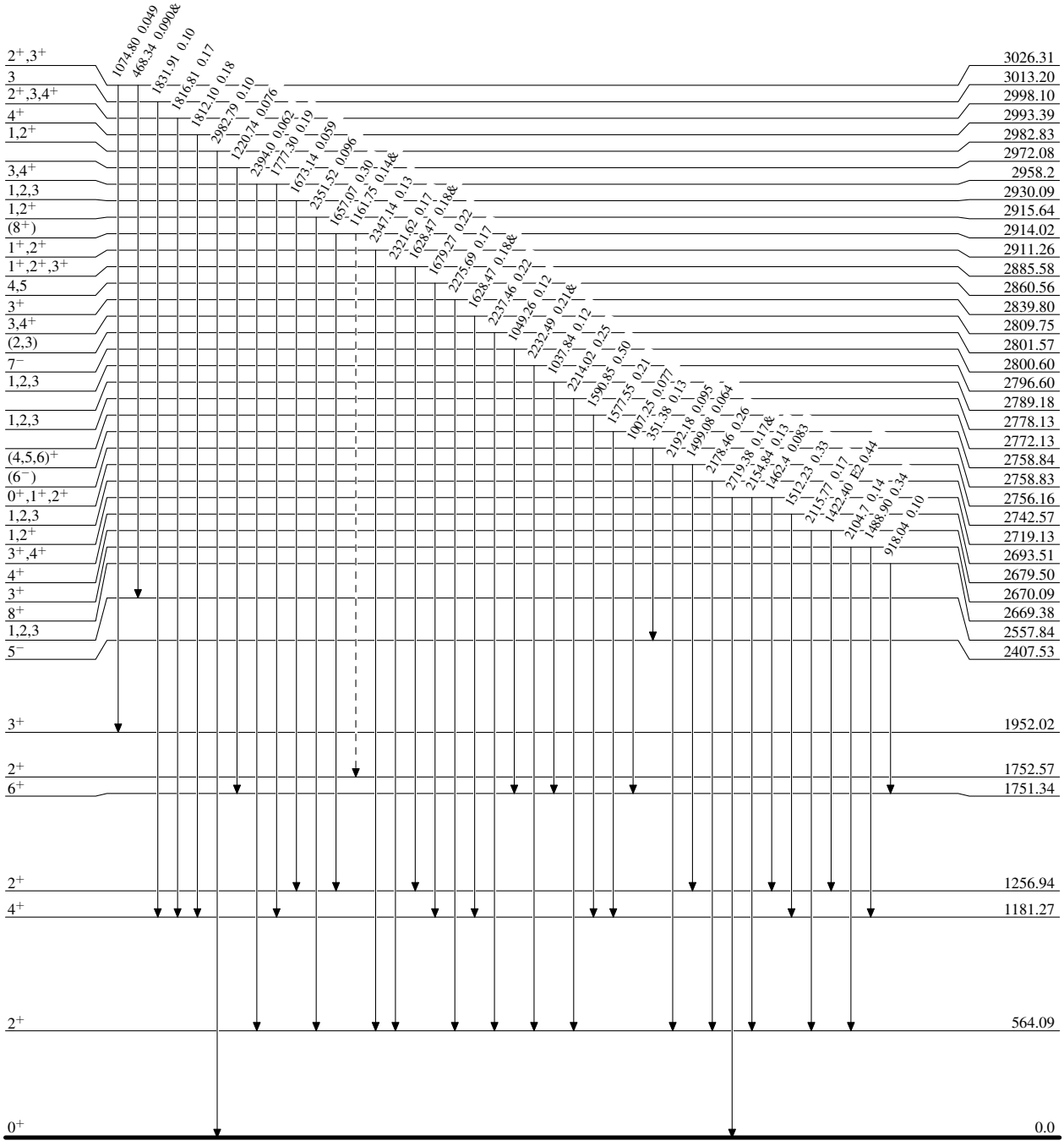
$^{122}_{52}Te_{70}$

^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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



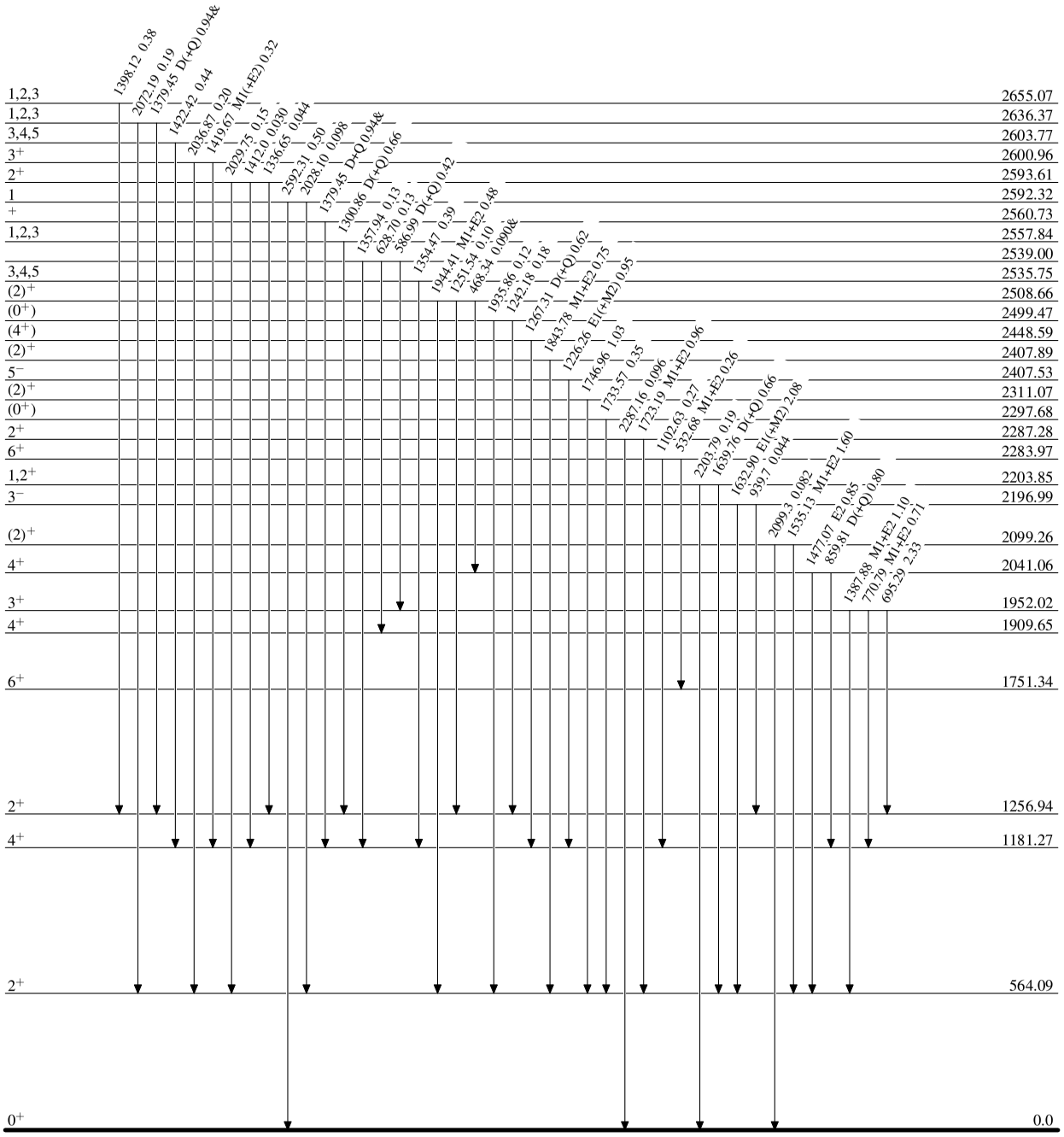
$^{122}_{52}Te_{70}$

^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

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

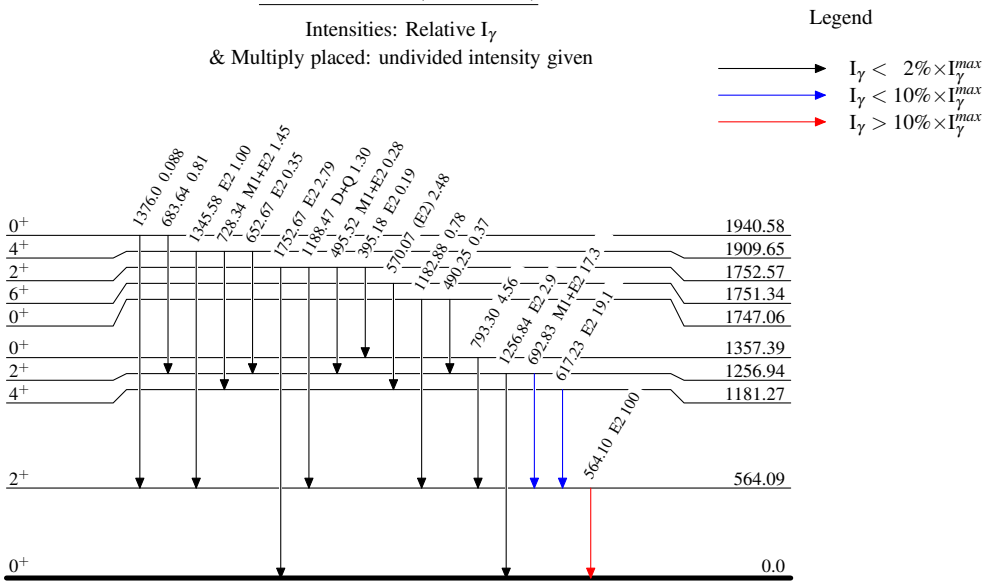


$^{122}_{52}Te_{70}$

^{122}Te(n,n′γ) E=fast 1990BeYR,1990Be50,1991De27

Level Scheme (continued)

Intensities: Relative I_γ
& Multiply placed: undivided intensity given



$^{122}_{52}Te_{70}$