

$^{130}\text{Te}(n,n'\gamma)$  1988Be52

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 93, 33 (2001)	11-May-2001

Includes (n,n) and (n,n').

1988Be52 (also 1980De07): E=reactor fast neutrons, enriched target. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma(\theta)$ ,  $\gamma(\text{lin pol})$ .

1988Wa05: (n,n') E=14.1 MeV. Measured  $\sigma(\theta)$ , deduced  $\beta_3$ .

1981Ko15 (also 1973Ko29): (n,n') E=0.85-1.2 MeV. Measured  $\sigma$ , optical-model analysis.

(n,n) experiments:

1986Ko06: (n,n) E=0.00057 eV, 1.26 eV, 5.2 eV. Measured neutron scattering lengths.

1988Mu16: (n,n) E $\approx$ 0.25 MeV. Measured  $\sigma(\theta)$ , optical-model analysis.

1993Mi06: (n,n) E<300 keV. Measured  $\sigma(\theta)$ .

 $^{130}\text{Te}$  Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	Comments
0.0	0 <sup>+</sup>	
839.494 17	2 <sup>+</sup>	
1588.259 24	2 <sup>+</sup>	
1632.999 22	4 <sup>+</sup>	
1815.37 3	(6) <sup>+</sup>	
1885.702 25	2 <sup>+</sup>	
1964.76 4	0 <sup>+</sup>	
1981.550 23	4 <sup>+</sup>	
2101.26 3	5 <sup>-</sup>	
2138.64 3	3 <sup>+</sup>	
2146.43 4	(7) <sup>-</sup>	
2190.616 23	2 <sup>+</sup>	
2282.595 25	2 <sup>+</sup>	
2300.22 4	(2) <sup>+</sup>	
2330.73 4	(4) <sup>+</sup>	
2404.66 4	6 <sup>-</sup>	
2432.10 6	(7) <sup>-</sup>	
2435.60 4	4 <sup>-</sup>	
2449.48 4	4 <sup>+</sup>	
2466.89 4	2 <sup>+</sup>	
2527.07 3	3 <sup>-</sup>	
2581.15 5	(2) <sup>+</sup>	
2607.33 5	1	
2689.12 5	1	
2714.98? 5	4 <sup>-</sup>	
2719.50? 7	(5) <sup>+</sup>	
2736.35 5	(5)	J $\pi$ : disagrees with J $\pi$ =(4 <sup>+</sup> ) from 6.3-min $^{130}\text{Sb}$ decay.
2743.14? 4	1	
2744.98 4	(2 <sup>+</sup> ,3)	
2770	(3 <sup>-</sup> )	$\beta_3=0.10$ (1988Wa05) E(level): level from (n,n') (1988Wa05).
2770.86 8	(6)	
2782.11 14	(7) <sup>-</sup>	J $\pi$ : 5 <sup>-</sup> proposed by 1988Be52 is unlikely due to $\beta$ feeding of this level from (8 <sup>-</sup> ).
2789.26? 5	(2 <sup>+</sup> ,3)	
2833.38 6	(5 <sup>+</sup> ,6 <sup>+</sup> )	
3155.03? 10		

<sup>†</sup> From least-squares adjustment to  $E\gamma$ 's.

<sup>‡</sup> based on  $\gamma(\theta)$ ,  $\gamma(\text{lin pol})$ , level population data, and statistical model calculation.

<sup>130</sup>Te(n,n'γ) 1988Be52 (continued)

$\gamma(^{130}\text{Te})$									
$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. <sup>‡</sup>	$\delta^\ddagger$	$\alpha^a$	Comments
182.36 2	5.1 6	1815.37	(6) <sup>+</sup>	1632.999	4 <sup>+</sup>				
<sup>x</sup> 188.13 16	0.080 12								
<sup>x</sup> 201.18 13	0.106 14								
<sup>x</sup> 204.81 16	0.072 11								
258.21 3	0.55 6	2404.66	6 <sup>-</sup>	2146.43	(7) <sup>-</sup>	M1+E2 <sup>@</sup>	+0.21 6	0.0516 4	$\alpha(\text{K})=0.04444$ 21; $\alpha(\text{L})=0.00571$ 9; $\alpha(\text{M})=0.00114$ ; $\alpha(\text{N}+..)=0.00027$ $A_2=-0.43$ 8, $A_4=-0.02$ 10.
285.67 4	0.59 7	2432.10	(7) <sup>-</sup>	2146.43	(7) <sup>-</sup>	M1+E2 <sup>@</sup>		0.043 2	$A_2=-0.16$ 6, $A_4=0.00$ 8.
<sup>x</sup> 288.79 15	0.056 14								
303.43 3	0.60 7	2404.66	6 <sup>-</sup>	2101.26	5 <sup>-</sup>	M1(+E2) <sup>@</sup>	+0.02 2	0.0335	$\alpha(\text{K})=0.02896$ ; $\alpha(\text{L})=0.00364$ ; $\alpha(\text{M})=0.00072$ ; $\alpha(\text{N}+..)=0.00017$ $A_2=-0.21$ 4, $A_4=-0.08$ 6.
331.05 2	2.2 3	2146.43	(7) <sup>-</sup>	1815.37	(6) <sup>+</sup>	E1+M2 <sup>@</sup>	+0.070 6		$A_2=-0.110$ 8, $A_4=+0.024$ 13.
334.34 2	2.1 3	2435.60	4 <sup>-</sup>	2101.26	5 <sup>-</sup>	M1+E2 <sup>#</sup>	-0.052 7	0.0261	$\alpha(\text{K})=0.02253$ ; $\alpha(\text{L})=0.00283$ ; $\alpha(\text{M})=0.00056$ ; $\alpha(\text{N}+..)=0.00013$ $A_2=-0.059$ 8, $A_4=+0.006$ 13. POL=+0.68 14.
348.58 2	2.4 3	1981.550	4 <sup>+</sup>	1632.999	4 <sup>+</sup>	M1+E2 <sup>#</sup>	-0.12 3	0.0234	$\alpha(\text{K})=0.02023$ ; $\alpha(\text{L})=0.00254$ ; $\alpha(\text{M})=0.0005$ ; $\alpha(\text{N}+..)=0.00012$ $A_2=+0.251$ 15, $A_4=-0.014$ 21. POL=+2.9 +11-7.
<sup>x</sup> 359.24 17	0.12 2								
468.27 2	8.1 10	2101.26	5 <sup>-</sup>	1632.999	4 <sup>+</sup>	E1(+M2) <sup>#</sup>	+0.03 2		$A_2=-0.206$ 3, $A_4=-0.023$ 6. POL=+1.9 +3-2.
505.63 3	0.48 6	2138.64	3 <sup>+</sup>	1632.999	4 <sup>+</sup>	M1+E2	+1.2 5		$A_2=-0.58$ 3, $A_4=0.05$ 3.
<sup>x</sup> 521.56 5	0.31 4								$A_2=-0.22$ 4, $A_4=-0.08$ 7.
<sup>x</sup> 535.50 4	0.40 10								$A_2=+0.45$ 2, $A_4=+0.02$ 2.
550.36 3	1.27 16	2138.64	3 <sup>+</sup>	1588.259	2 <sup>+</sup>	M1+E2 <sup>#</sup>	+2.4 2		$A_2=+0.455$ 14, $A_4=+0.072$ 21. POL=+0.9 +5-4.
613.72 3	0.91 12	2714.98?	4 <sup>-</sup>	2101.26	5 <sup>-</sup>	M1+E2 <sup>#</sup>	+0.42 2		$A_2=-0.52$ 2, $A_4=-0.01$ 3. POL=+1.2 +12-7.
<sup>x</sup> 647.64 6	0.46 6								$A_2=+0.24$ 3, $A_4=-0.14$ 4.
<sup>x</sup> 658.12 5	0.39 5								$A_2=+0.35$ 3, $A_4=-0.04$ 5.
669.60 7	0.20 3	2770.86	(6)	2101.26	5 <sup>-</sup>	D+Q	+0.15 2		$A_2=-0.01$ 3, $A_4=+0.06$ 5.
680.85 13	0.15 2	2782.11	(7) <sup>-</sup>	2101.26	5 <sup>-</sup>				$A_2=+0.29$ 5, $A_4=-0.18$ 8.
697.73 3	1.11 16	2330.73	(4) <sup>+</sup>	1632.999	4 <sup>+</sup>	(M1+E2)			$A_2=+0.27$ 2, $A_4=-0.04$ 3. $\delta$ : +1.12 8 or -0.08 4.
<sup>x</sup> 732.38 17	0.067 12								
738.1 2	0.061 11	2719.50?	(5) <sup>+</sup>	1981.550	4 <sup>+</sup>				
748.76 2	11.2 16	1588.259	2 <sup>+</sup>	839.494	2 <sup>+</sup>	M1+E2 <sup>#</sup>	+0.65 15		$A_2=+0.290$ 6, $A_4=-0.018$ 7. POL=+0.80 9.
793.53 2	25 4	1632.999	4 <sup>+</sup>	839.494	2 <sup>+</sup>	E2 <sup>@</sup>			$A_2=+0.242$ 5, $A_4=-0.062$ 7.
816.48 3	1.12 16	2449.48	4 <sup>+</sup>	1632.999	4 <sup>+</sup>	M1+E2 <sup>#</sup>	-0.21 2		$A_2=+0.190$ 6, $A_4=-0.011$ 10. POL=+2.6 +40-13.
839.49 2	100 3	839.494	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2 <sup>@</sup>			$A_2=+0.204$ 5, $A_4=-0.082$ 7.
<sup>x</sup> 853.54 6	0.16 6								
859.30 4	0.51 7	2744.98	(2 <sup>+</sup> ,3)	1885.702	2 <sup>+</sup>				$A_2=-0.20$ 2, $A_4=+0.01$ 3.

<sup>130</sup>Te(n,n'γ) 1988Be52 (continued)

γ(<sup>130</sup>Te) (continued)

E <sub>γ</sub>	I <sub>γ</sub> <sup>†</sup>	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Mult. <sup>‡</sup>	δ <sup>‡</sup>	Comments
<sup>x</sup> 888.03 11	0.13 2							
894.06 <sup>b</sup> 14	0.082 13	2527.07	3 <sup>-</sup>	1632.999	4 <sup>+</sup>			
904.04 10	0.19 3	2719.50?	(5 <sup>+</sup> )	1815.37	(6) <sup>+</sup>			
921.01 5	0.36 5	2736.35	(5)	1815.37	(6) <sup>+</sup>	D+Q	+0.20 2	A <sub>2</sub> =-0.142 14, A <sub>4</sub> =-0.005 22. A <sub>2</sub> =-0.056 18, A <sub>4</sub> =-0.032 12. A <sub>2</sub> =-0.02 2, A <sub>4</sub> =+0.01 3.
<sup>x</sup> 942.07 3	0.64 9							
<sup>x</sup> 986.52 3	0.23 3							
992.95 13	0.091 14	2581.15	(2 <sup>+</sup> )	1588.259	2 <sup>+</sup>			
<sup>x</sup> 1002.48 9	0.15 2							
1018.01 5	0.27 4	2833.38	(5 <sup>+</sup> ,6 <sup>+</sup> )	1815.37	(6) <sup>+</sup>			A <sub>2</sub> =-0.17 3, A <sub>4</sub> =-0.07 4.
<sup>x</sup> 1022.41 11	0.071 12							
<sup>x</sup> 1030.94 <sup>&amp;</sup> 13	0.14 2							A <sub>2</sub> =+0.38 4, A <sub>4</sub> =+0.06 6.
1046.21 2	5.9 8	1885.702	2 <sup>+</sup>	839.494	2 <sup>+</sup>	M1+E2 <sup>#</sup>	-0.175 10	A <sub>2</sub> =+0.072 5, A <sub>4</sub> =-0.021 7. POL=+1.9 +6-3. A <sub>2</sub> =+0.30 3, A <sub>4</sub> =-0.10 5.
<sup>x</sup> 1053.71 7	0.27 4							
<sup>x</sup> 1066.24 15	0.091 14							
<sup>x</sup> 1070.47 17	0.085 13							
<sup>x</sup> 1075.84 14	0.081 13							
1086.54 9	0.14 2	2719.50?	(5 <sup>+</sup> )	1632.999	4 <sup>+</sup>	(M1+E2)		A <sub>2</sub> =-0.54 13, A <sub>4</sub> =0.04 18. δ: -0.21 11 or -2.6 +7-10.
<sup>x</sup> 1097.26 <sup>&amp;</sup> 5	0.20 3							
<sup>x</sup> 1100.60 4	0.56 8							
1103.29 6	0.12 2	2736.35	(5)	1632.999	4 <sup>+</sup>			
1112.01 9	0.16 2	2744.98	(2 <sup>+</sup> ,3)	1632.999	4 <sup>+</sup>			
<sup>x</sup> 1115.03 5	0.25 4							A <sub>2</sub> =-0.14 4, A <sub>4</sub> =0.00 6.
1125.26 3	1.09 15	1964.76	0 <sup>+</sup>	839.494	2 <sup>+</sup>			A <sub>2</sub> =-0.009 10, A <sub>4</sub> =-0.010 16. POL=+1.1 +15-7.
<sup>x</sup> 1135.36 6	0.19 3							
1142.02 2	1.9 3	1981.550	4 <sup>+</sup>	839.494	2 <sup>+</sup>	E2		A <sub>2</sub> =+0.318 6, A <sub>4</sub> =-0.055 8.
1156.21 14	0.093 15	2789.26?	(2 <sup>+</sup> ,3)	1632.999	4 <sup>+</sup>			
1173.25 17	0.112 17	3155.03?		1981.550	4 <sup>+</sup>			
<sup>x</sup> 1178.24 5	0.18 3							A <sub>2</sub> =-0.01 4, A <sub>4</sub> =-0.01 6.
<sup>x</sup> 1182.45 9	0.099 15							
<sup>x</sup> 1193.54 14	0.085 13							
<sup>x</sup> 1219.05 14	0.078 12							
<sup>x</sup> 1222.25 18	0.074 12							
<sup>x</sup> 1231.92 13	0.15 2							A <sub>2</sub> =-0.11 4, A <sub>4</sub> =-0.17 6.
<sup>x</sup> 1243.55 18	0.076 12							
1299.16 3	1.19 17	2138.64	3 <sup>+</sup>	839.494	2 <sup>+</sup>	M1+E2	+0.32 2	A <sub>2</sub> =+0.157 9, A <sub>4</sub> =-0.015 14.
<sup>x</sup> 1310.1 3	0.082 14							
<sup>x</sup> 1322.2 2	0.078 13							
<sup>x</sup> 1341.2 3	0.074 13							
1351.11 3	1.23 17	2190.616	2 <sup>+</sup>	839.494	2 <sup>+</sup>	M1+E2 <sup>#</sup>	-0.27 2	A <sub>2</sub> =+0.032 7, A <sub>4</sub> =+0.002 10. POL=+1.9 +82-11.
<sup>x</sup> 1358.0 3	0.043 8							
<sup>x</sup> 1368.5 2	0.090 14							
<sup>x</sup> 1374.65 16	0.078 18							

<sup>130</sup>Te(n,n'γ) 1988Be52 (continued)

γ(<sup>130</sup>Te) (continued)

<u>E<sub>γ</sub></u>	<u>I<sub>γ</sub><sup>†</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>‡</sup></u>	<u>δ<sup>‡</sup></u>	<u>Comments</u>
<sup>x</sup> 1414.34 16	0.062 11							
1443.09 2	1.66 24	2282.595	2 <sup>+</sup>	839.494	2 <sup>+</sup>	M1+E2 <sup>#</sup>	-0.10 2	A <sub>2</sub> =+0.111 8, A <sub>4</sub> =-0.003 12. POL=+1.8 +52-10.
<sup>x</sup> 1448.18 17	0.043 8							
1460.72 3	1.28 18	2300.22	(2 <sup>+</sup> )	839.494	2 <sup>+</sup>	(M1+E2)	-0.20 2	A <sub>2</sub> =+0.067 13, A <sub>4</sub> =-0.005 19.
<sup>x</sup> 1479.11 15	0.077 16							A <sub>2</sub> =-0.26 7, A <sub>4</sub> =-0.23 12.
1491.24 7	0.32 5	2330.73	(4 <sup>+</sup> )	839.494	2 <sup>+</sup>	(E2)		A <sub>2</sub> =+0.31 3, A <sub>4</sub> =-0.10 4.
<sup>x</sup> 1506.41 11	0.18 3							
1522.14 12	0.13 2	3155.03?		1632.999	4 <sup>+</sup>			A <sub>2</sub> =-0.07 6, A <sub>4</sub> =-0.14 9.
<sup>x</sup> 1533.12 19	0.067 11							
1588.19 8	0.18 3	1588.259	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2		A <sub>2</sub> =+0.21 2, A <sub>4</sub> =-0.06 4.
<sup>x</sup> 1597.7 2	0.067 11							
<sup>x</sup> 1616.9 3	0.047 8							
1627.38 3	0.95 13	2466.89	2 <sup>+</sup>	839.494	2 <sup>+</sup>	M1+E2		A <sub>2</sub> =-0.067 15, A <sub>4</sub> =-0.033 21. δ=-0.48 4 or 1/δ=-0.02 3. A <sub>2</sub> =-0.20 3, A <sub>4</sub> =+0.05 4.
<sup>x</sup> 1636.56 9	0.16 2							
<sup>x</sup> 1657.8 3	0.056 9							
1687.56 2	1.9 3	2527.07	3 <sup>-</sup>	839.494	2 <sup>+</sup>	E1(+M2) <sup>#</sup>	+0.030 6	A <sub>2</sub> =-0.163 7, A <sub>4</sub> =-0.020 10. POL=+1.4 +17-10.
<sup>x</sup> 1721.85 13	0.04 2							
<sup>x</sup> 1728.3 2	0.061 11							
<sup>x</sup> 1735.5 2	0.032 7							
1741.64 4	0.75 11	2581.15	(2 <sup>+</sup> )	839.494	2 <sup>+</sup>	(M1+E2)	+0.18 2	A <sub>2</sub> =+0.327 9, A <sub>4</sub> =-0.003 13.
<sup>x</sup> 1752.7 2	0.12 2							
<sup>x</sup> 1764.76 8	0.28 4							A <sub>2</sub> =-0.12 5, A <sub>4</sub> =-0.02 8.
1767.81 8	0.22 3	2607.33	1	839.494	2 <sup>+</sup>			
<sup>x</sup> 1829.8 3	0.13 2							
1885.69 18	0.12 2	1885.702	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2		A <sub>2</sub> =+0.14 7, A <sub>4</sub> =-0.08 7.
<sup>x</sup> 1893.99 16	0.136 20							
1905.43 4	0.56 8	2744.98	(2 <sup>+</sup> ,3)	839.494	2 <sup>+</sup>	D+Q	+0.018 13	A <sub>2</sub> =-0.176 14, A <sub>4</sub> =-0.027 22.
1949.76 5	0.37 5	2789.26?	(2 <sup>+</sup> ,3)	839.494	2 <sup>+</sup>			A <sub>2</sub> =-0.14 5, A <sub>4</sub> =-0.03 7.
<sup>x</sup> 1987.7 3	0.034 7							
<sup>x</sup> 1995.3 3	0.067 11							
<sup>x</sup> 2048.30 18	0.092 14							
<sup>x</sup> 2106.13 10	0.16 2							
<sup>x</sup> 2114.05 6	0.26 5							
<sup>x</sup> 2117.53 7	0.18 3							A <sub>2</sub> =+0.41 4, A <sub>4</sub> =0.00 6.
<sup>x</sup> 2170.2 2	0.055 9							
2190.60 3	1.31 19	2190.616	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2		A <sub>2</sub> =+0.25 2, A <sub>4</sub> =-0.12 2.
<sup>x</sup> 2243.7 2	0.092 14							
<sup>x</sup> 2271.8 4	0.032 7							
2282.60 7	0.35 5	2282.595	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2		A <sub>2</sub> =+0.20 2, A <sub>4</sub> =-0.11 3.
<sup>x</sup> 2289.1 5	0.044 8							
2300.0 3	0.057 9	2300.22	(2 <sup>+</sup> )	0.0	0 <sup>+</sup>	(E2)		A <sub>2</sub> =+0.19 9, A <sub>4</sub> =+0.03 12.
<sup>x</sup> 2315.0 2	0.081 12							

<sup>130</sup>Te(n,n'γ) 1988Be52 (continued)

γ(<sup>130</sup>Te) (continued)

<u>E<sub>γ</sub></u>	<u>I<sub>γ</sub><sup>†</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>‡</sup></u>	<u>Comments</u>
<sup>x</sup> 2338.0 4	0.034 7						
<sup>x</sup> 2404.2 3	0.094 14						
2466.94 18	0.10 2	2466.89	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2	A <sub>2</sub> =+0.25 7, A <sub>4</sub> =-0.22 11.
<sup>x</sup> 2480.0 3	0.061 10						
<sup>x</sup> 2500.70 17	0.091 14						
<sup>x</sup> 2560.8 3	0.055 9						
2607.31 6	0.36 5	2607.33	1	0.0	0 <sup>+</sup>		A <sub>2</sub> =-0.07 3, A <sub>4</sub> =-0.04 4.
<sup>x</sup> 2625.59 18	0.11 2						A <sub>2</sub> =-0.20 9, A <sub>4</sub> =+0.17 13.
2689.09 5	0.40 6	2689.12	1	0.0	0 <sup>+</sup>		A <sub>2</sub> =-0.10 2, A <sub>4</sub> =-0.04 3.
<sup>x</sup> 2709.6 4	0.055 9						
2743.11 4	0.40 6	2743.14?	1	0.0	0 <sup>+</sup>	D	A <sub>2</sub> =-0.11 3, A <sub>4</sub> =-0.06 4.
<sup>x</sup> 2755.3 7	0.060 10						
<sup>x</sup> 2784.3 3	0.074 12						
<sup>x</sup> 2813.6 8	0.037 7						
<sup>x</sup> 2889.6 4	0.080 12						
<sup>x</sup> 2945.92 14	0.13 2						
<sup>x</sup> 3095.0 2	0.094 14						
<sup>x</sup> 3110.47 16	0.092 13						
<sup>x</sup> 3127.7 3	0.050 8						
<sup>x</sup> 3196.01 13	0.102 15						
<sup>x</sup> 3241.80 13	0.13 2						
<sup>x</sup> 3342.0 4	0.052 9						
<sup>x</sup> 3493.9 3	0.062 10						
<sup>x</sup> 3567.9 2	0.057 9						
<sup>x</sup> 3648.6 3	0.041 7						
<sup>x</sup> 3983.5 4	0.050 8						

<sup>†</sup> Relative I<sub>γ</sub> observed at 120° to the neutron beam.

<sup>‡</sup> From γ(θ), except as noted.

# From γ(θ) and γ(lin pol).

@ From γ(θ) and α(K)exp in <sup>130</sup>Sb β<sup>-</sup> decay.

& Uncertain G.

<sup>a</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

<sup>b</sup> Placement of transition in the level scheme is uncertain.

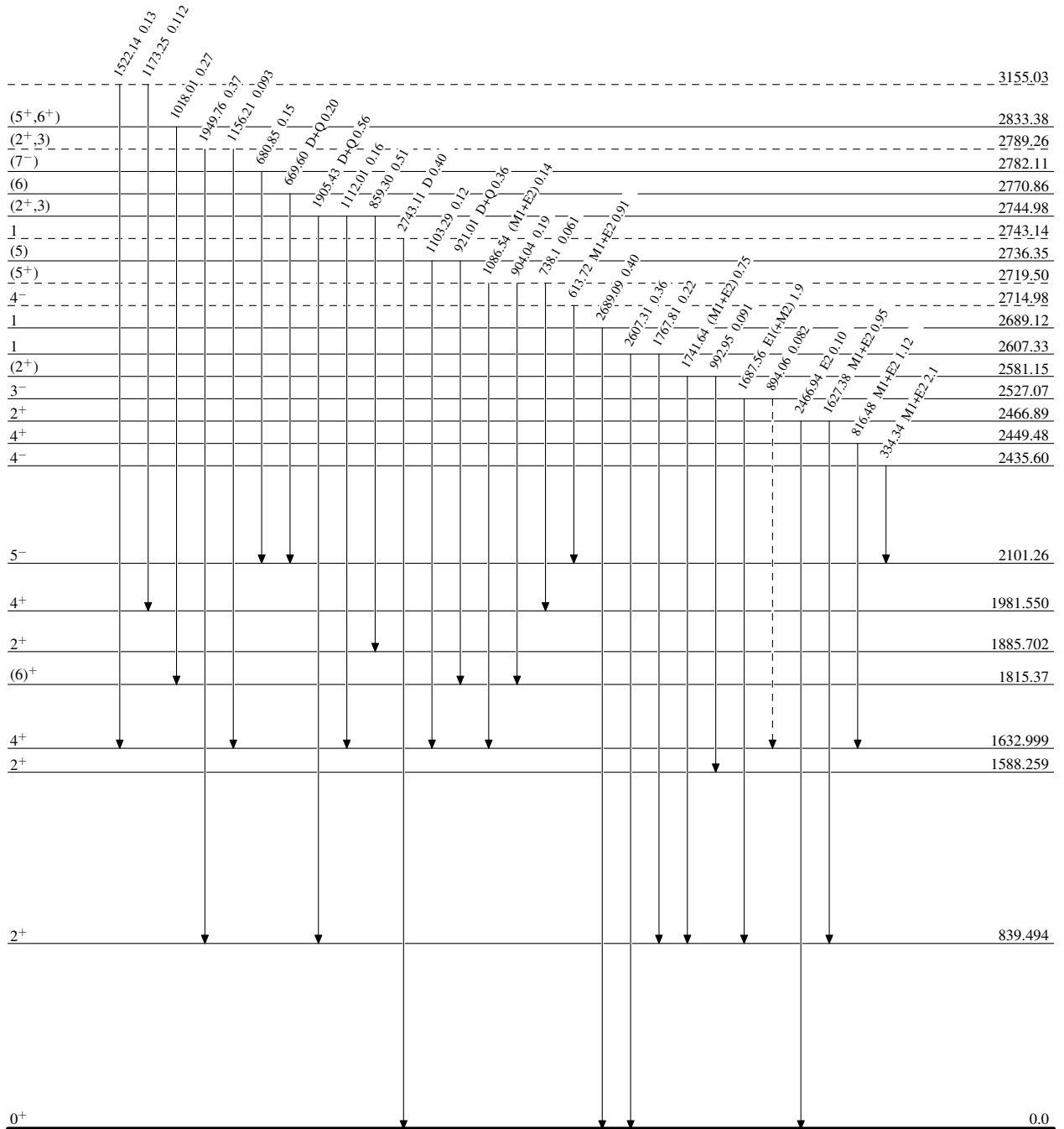
<sup>x</sup> γ ray not placed in level scheme.

<sup>130</sup>Te(n,n'γ) 1988Be52

Legend

Level Scheme  
Intensities: Relative I<sub>γ</sub>

- I<sub>γ</sub> < 2% × I<sub>γ</sub><sup>max</sup>
- I<sub>γ</sub> < 10% × I<sub>γ</sub><sup>max</sup>
- I<sub>γ</sub> > 10% × I<sub>γ</sub><sup>max</sup>
- - - - - γ Decay (Uncertain)

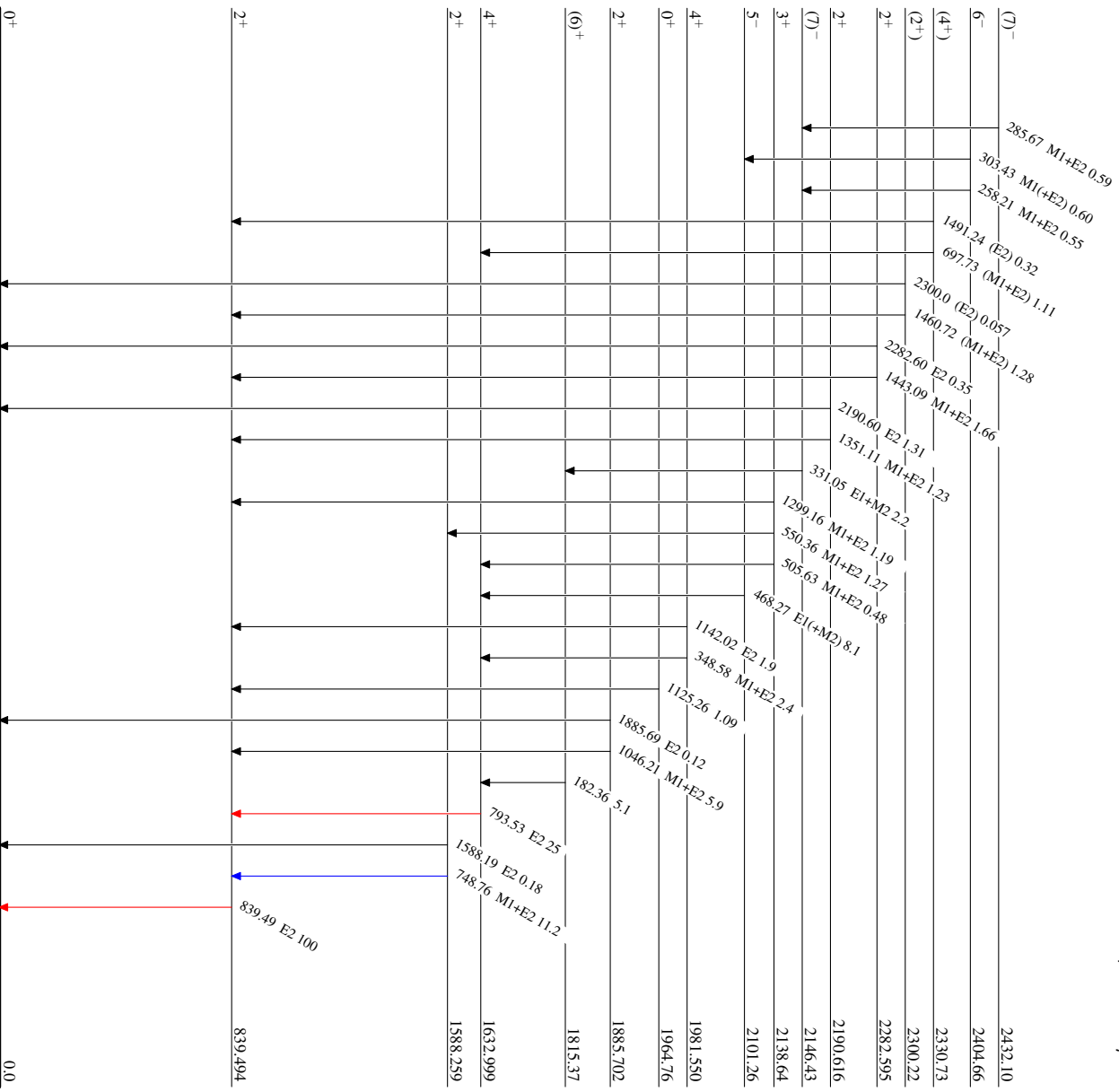
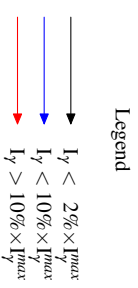


<sup>130</sup>Te<sub>78</sub>

$^{130}\text{Te}(n, \gamma) \quad ^{1988}\text{Be52}$

Level Scheme (continued)

Intensities: Relative  $I_\gamma$



$^{130}\text{Te}_{78}$