Energy levels and branching ratios [00De11]. **$^{110}_{52}$Te**

E^*	J^π	$T_{1/2}$ or		Branching ratios in percentage						
			E_f^*:	0.0	657.70	1403.03	1578.97	1916.82	1927.5	2192.93
[keV]		Γ_{cm}	J_f^π:	0^+	0^+	2^+		4^+	$\langle 5\rangle$	5^+
0.0	0^+	18.6(8) s								
657.70(9)	0^+			100						
1403.03(17)	2^+				100					
1578.97(19)					100					
1916.82(18)	4^+				34(3)	66(3)				
1927.5(4)	$\langle 5\rangle$					100				
2192.93(20)	5^+					73(4)	27(3)			
2227.61(18)	6^+					100				
2442.32(20)	6^+					20(2)		69(3)		
2521.49(20)	6^+					52(3)				20(1)
2575.9(5)	$\langle 6,7\rangle$								100	
2899.7(4)										
3090.81(21)	8^+									
3095.38(24)	7^+,8^+									
3221.4(3)	$\langle 7,8\rangle$									
3224.1(6)	$\langle 7,8,9\rangle$									
3290.5(3)	8^+									
3348.52(25)	8^+									
3509.57(24)	7^-									
3615.00(25)	8^-									
3623.0(5)										
3738.1(2)	9^-									
4168.3(4)	10^-									
4175.8										
4356.3(3)	11^-									
4840.2(4)	12^-									
5084.5(3)	13^-									
5563.1(5)	14^-									
5870.8(3)	$15^{\langle -\rangle}$									
6547.9(5)	16^-									
6644(1)										
6666.1(4)	16									
6683.9(4)	$17^{\langle -\rangle}$									
6857.9(4)	$17^{\langle -\rangle}$									
6865.1(4)	17^-									
6907.1(4)	16^+									
7429.9(4)	18									
7451.3(5)	$\langle 19^-\rangle$									
7588(1)										
7611.7(6)										
7632.7(4)	18^+									
7853.0(4)	19^-									
8375.1(5)	20									
8422.5(6)	$\langle 21^-\rangle$									
8446.2(4)	20^+									

(continued) **$^{110}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage							
		E_f^*:	0.0	657.70	1403.03	1578.97	1916.82	1927.5	2192.93
[keV]		Γ_{cm}	J_f^π:	0^+	0^+	2^+		4^+	$\langle 5\rangle$	5^+
8536.3(6)										
8950.8(4)	21^-									
9384.1(5)										
9418.0(4)	22^+									
10317.5(5)										
10489.6(5)										

Additional data on this isotope can be found in [94Fa12].

Energy levels and branching ratios [00De11]. Part 2 **$^{110}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2227.61	2442.32	2521.49	2575.9	2899.7	3090.81	3095.38	3224.1	3290.5	3348.52
[keV]	J_f^π:	6^+	6^+	6^+	$\langle 6,7\rangle$		8^+	$7^+,8^+$	$\langle 7,8,9\rangle$	8^+	8^+
2442.32(20)	6^+	11.1(11)									
2521.49(20)	6^+	28(2)									
2899.7(4)		100									
3090.81(21)	8^+	34(2)	66(3)								
3095.38(24)	$7^+,8^+$			100							
3221.4(3)	$\langle 7,8\rangle$	100									
3224.1(6)	$\langle 7,8,9\rangle$				100						
3290.5(3)	8^+	100									
3348.52(25)	8^+			96(5)				3.8(4)			
3509.57(24)	7^-	100									
3615.00(25)	8^-						51(3)	49(3)			
3623.0(5)						100					
3738.1(2)	9^-						13.1(7)		8(2)	50(2)	23.7(11)

Energy levels and branching ratios [00De11]. Part 3 **$^{110}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	3509.57	3615.00	3623.0	3738.12	4168.3	4356.33	4840.2	5084.5	5563.1	5870.8
[keV]	J_f^π:	7^-	8^-		9^-	10^-	11^-	12^-	13^-	14^-	$15^{\langle -\rangle}$
3738.1(2)	9^-	4.7(5)									
4168.3(4)	10^-		100								
4175.8				100							
4356.3(3)	11^-				100						
4840.2(4)	12^-					100					
5084.5(3)	13^-						100				
5563.1(5)	14^-							100			

(continued) **$^{110}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	3509.57	3615.00	3623.0	3738.12	4168.3	4356.33	4840.2	5084.5	5563.1	5870.8
[keV]	J_f^π:	7^-	8^-		9^-	10^-	11^-	12^-	13^-	14^-	$15^{\langle-\rangle}$
5870.8(3)	$15^{\langle-\rangle}$								100		
6547.9(5)	16^-									100	
6644(1)											x
6666.1(4)	16										100
6683.9(4)	$17^{\langle-\rangle}$										100
6857.9(4)	$17^{\langle-\rangle}$										100
6865.1(4)	17^-										100
6907.1(4)	16^+										100

Energy levels and branching ratios [00De11]. Part 4 **$^{110}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	6547.9	6643.9	6666.1	6683.9	6857.9	6865.1	6907.1	7429.9	7451.3	7611.7
[keV]	J_f^π:	16^-		16	$17^{\langle-\rangle}$	$17^{\langle-\rangle}$	17^-	16^+	18	$\langle19^-\rangle$	
7429.9(4)	18			100							
7451.3(5)	$\langle19^-\rangle$				67(14)	33(15)					
7588(1)			100								
7611.7(6)		100									
7632.7(4)	18^+						65(3)	35(2)			
7853.0(4)	19^-						100				
8375.1(5)	20								100		
8422.5(6)	$\langle21^-\rangle$									100	
8536.3(6)											100

Energy levels and branching ratios [00De11]. Part 5 **$^{110}_{52}$Te**

E^*	J^π	Branching ratios in percentage					
	E_f^*:	7632.7	7853.0	8375.1	8446.2	8950.8	9418.0
[keV]	J_f^π:	18^+	19^-	20	20^+	21^-	22^+
8446.2(4)	20^+	58(3)	42(2)				
8950.8(4)	21^-		100				
9384.1(5)				x			
9418.0(4)	22^+				83(4)	17(2)	
10317.5(5)							100
10489.6(5)							100

Energy levels and branching ratios [03Bl10, 97Bl10, 00St03]. $^{111}_{52}\mathrm{Te}$

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
0.0	$\langle 5\rangle^+$	19.3(4) s
117.1(3)	$\langle 7\rangle^+$	
538.0(10)	$\langle 7^+\rangle$	
768.1(4)	$\langle 9\rangle^+$	
824.0(10)	$\langle 9^+\rangle$	
839.4(6)	11^-	32.2(14) ns
882.1(4)	$\langle 11\rangle^+$	
1378.5(6)	15^-	
1519.7(5)	$\langle 13\rangle^+$	
1757.4(5)	$\langle 15^+\rangle$	
2061.9(6)	19^-	
2292.6(5)	$\langle 17\rangle^+$	
2495.6(6)	$\langle 17^-\rangle$	
2635.3(5)	$\langle 19\rangle^+$	
2673.7(6)	$\langle 19^-\rangle$	
2777.3(6)	23^-	
3050.5(6)	$\langle 21^-\rangle$	
3382.6(6)	$\langle 23^-\rangle$	
3738.6(6)	$\langle 23^+\rangle$	
3756.3(6)	$\langle 25^-\rangle$	
3768.4(6)	27^-	
3823.5(7)		
3880.6(6)		
4127.1(6)	$\langle 27^-\rangle$	
4315.2(6)	$\langle 27^+\rangle$	
4430.8(7)	$\langle 29\rangle$	
4556.5(6)	$\langle 29^-\rangle$	
4707.3(7)		
4731.4(7)	31^-	
4887.2(6)	$\langle 31^-\rangle$	
5007.8(6)	$\langle 31^+\rangle$	
5345.7(6)	$\langle 33^-\rangle$	
5353.4(7)	$\langle 33\rangle$	
5486.0(8)		
5706.5(7)	35^-	
5796.3(7)	$\langle 35^+\rangle$	
6071.2(7)	$\langle 37\rangle$	
6356.6(8)		
6653.4(7)	$\langle 39^+\rangle$	
6819.2(8)	$\langle 39^-\rangle$	
6990.2(8)	$\langle 41\rangle$	
7491.5(8)		
7677.0(8)	$\langle 43^+\rangle$	
7752.0(8)		
7873.9(8)		

(continued) **$^{111}_{52}$Te**

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
8652.4(9)		
8727.5(9)	$\langle 47^+ \rangle$	
9863.2(9)	$\langle 51^+ \rangle$	
9957.8(9)		

Additional data on this isotope can be found in [00St03].

Energy levels and branching ratios [03Bl10, 97Bl10, 00St03]. Part 2 **$^{111}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	0.0	117.1	768.1	839.4	882.1	1378.5	1519.7	1757.4	2061.9	2292.6
[keV]	$2J_f^\pi$:	$\langle 5 \rangle^+$	$\langle 7 \rangle^+$	$\langle 9 \rangle^+$	11^-	$\langle 11 \rangle^+$	15^-	$\langle 13 \rangle^+$	$\langle 15^+ \rangle$	19^-	$\langle 17 \rangle^+$
117.1(3)	$\langle 7 \rangle^+$	100									
538.0(10)	$\langle 7^+ \rangle$	x									
768.1(4)	$\langle 9 \rangle^+$		100								
824.0(10)	$\langle 9^+ \rangle$	x									
839.4(6)	11^-		x								
882.1(4)	$\langle 11 \rangle^+$		100								
1378.5(6)	15^-				100						
1519.7(5)	$\langle 13 \rangle^+$			80(10)		20(4)					
1757.4(5)	$\langle 15^+ \rangle$					100					
2061.9(6)	19^-						100				
2292.6(5)	$\langle 17 \rangle^+$							84(9)	16(7)		
2495.6(6)	$\langle 17^- \rangle$						56(12)			44(12)	
2635.3(5)	$\langle 19 \rangle^+$								90(9)		9.8(21)
2673.7(6)	$\langle 19^- \rangle$						100				
2777.3(6)	23^-									100	
3050.5(6)	$\langle 21^- \rangle$									25(5)	
3382.6(6)	$\langle 23^- \rangle$									30(6)	

Energy levels and branching ratios [03Bl10, 97Bl10, 00St03]. Part 3 **$^{111}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2495.6	2635.3	2673.7	2777.3	3050.5	3382.6	3738.6	3756.3	3768.4	3880.6
[keV]	$2J_f^\pi$:	$\langle 17^- \rangle$	$\langle 19 \rangle^+$	$\langle 19^- \rangle$	23^-	$\langle 21^- \rangle$	$\langle 23^- \rangle$	$\langle 23^+ \rangle$	$\langle 25^- \rangle$	27^-	
3050.5(6)	$\langle 21^- \rangle$	13(2)	35(5)	13(3)	13(3)						
3382.6(6)	$\langle 23^- \rangle$				70(9)						
3738.6(6)	$\langle 23^+ \rangle$		100								
3756.3(6)	$\langle 25^- \rangle$					85(5)	15(3)				
3768.4(6)	27^-				100						

(continued) **$^{111}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2495.6	2635.3	2673.7	2777.3	3050.5	3382.6	3738.6	3756.3	3768.4	3880.6
[keV]	$2J_f^\pi$:	$\langle 17^- \rangle$	$\langle 19 \rangle^+$	$\langle 19^- \rangle$	23^-	$\langle 21^- \rangle$	$\langle 23^- \rangle$	$\langle 23^+ \rangle$	$\langle 25^- \rangle$	27^-	
3823.5(7)					100						
3880.6(6)			100								
4127.1(6)	$\langle 27^- \rangle$						84(11)			16(5)	
4315.2(6)	$\langle 27^+ \rangle$							42(6)	44(6)		14(2)
4430.8(7)	$\langle 29 \rangle$									100	
4556.5(6)	$\langle 29^- \rangle$								84(11)		
4707.3(7)										100	
4731.4(7)	31^-									100	
4887.2(6)	$\langle 31^- \rangle$									48(9)	

Energy levels and branching ratios [03Bl10, 97Bl10, 00St03]. Part 4 **$^{111}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	4127.1	4315.2	4430.8	4556.5	4707.3	4731.4	4887.2	5007.8	5353.4	5486.0
[keV]	$2J_f^\pi$:	$\langle 27^- \rangle$	$\langle 27^+ \rangle$	$\langle 29 \rangle$	$\langle 29^- \rangle$		31^-	$\langle 31^- \rangle$	$\langle 31^+ \rangle$	$\langle 33 \rangle$	
4556.5(6)	$\langle 29^- \rangle$	16(3)									
4887.2(6)	$\langle 31^- \rangle$	52(7)									
5007.8(6)	$\langle 31^+ \rangle$		81(5)		19(5)						
5345.7(6)	$\langle 33^- \rangle$				56(22)			44(8)			
5353.4(7)	$\langle 33 \rangle$			79(9)			21(3)				
5486.0(8)						100					
5706.5(7)	35^-						100				
5796.3(7)	$\langle 35^+ \rangle$								100		
6071.2(7)	$\langle 37 \rangle$									88(9)	
6356.6(8)											100

Energy levels and branching ratios [03Bl10, 97Bl10, 00St03]. Part 5 **$^{111}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	5706.5	5796.3	6071.2	6653.4	6990.2	7677.0	7752.0	8652.4	8727.5
[keV]	$2J_f^\pi$:	35^-	$\langle 35^+ \rangle$	$\langle 37 \rangle$	$\langle 39^+ \rangle$	$\langle 41 \rangle$	$\langle 43^+ \rangle$			$\langle 47^+ \rangle$
6071.2(7)	$\langle 37 \rangle$	11.5(17)								
6653.4(7)	$\langle 39^+ \rangle$		100							
6819.2(8)	$\langle 39^- \rangle$	100								
6990.2(8)	$\langle 41 \rangle$			100						
7491.5(8)					100					
7677.0(8)	$\langle 43^+ \rangle$				100					
7752.0(8)						100				
7873.9(8)						100				

(continued) **$^{111}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
		E_f^*:	5706.5	5796.3	6071.2	6653.4	6990.2	7677.0	7752.0	8652.4	8727.5
[keV]		$2J_f^\pi$:	35^-	$\langle 35^+ \rangle$	$\langle 37 \rangle$	$\langle 39^+ \rangle$	$\langle 41 \rangle$	$\langle 43^+ \rangle$			$\langle 47^+ \rangle$
8652.4(9)									100		
8727.5(9)	$\langle 47^+ \rangle$							100			
9863.2(9)	$\langle 51^+ \rangle$										100
9957.8(9)										100	

Energy levels and branching ratios [96De55, 94Pa22]. **$^{112}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
			E_f^*:	0.0	689.01	1476.1	2297.4	3082.2	3361.9	3441.9
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	4^+	6^+		8^+	6^+
0.0	0^+	2.0(2) m								
689.01(20)	2^+			100						
1476.1(3)	4^+				100					
2297.4(4)	6^+					100				
3082.2(4)							100			
3361.9(4)	8^+						100			
3441.9(4)	6^+						71	29		
3453.8(5)	8^-								100	
3629.4(5)	9^-								100	
3661.4(5)										100
3785.1(5)									100	
3958.5(5)	9^-								74(15)	
4108.9(5)	10^-									
4225.9(5)	10^+								93(5)	
4328.7(5)	11^-									
4334.5(5)										
4424.8(5)										
4459.9(5)	10^+								100	
4827.1(5)	12^+									
4863.3(6)	12^-									
5040.4(6)										
5061.8(6)										
5123.6(6)	13^-									
5211.7(5)	12^+									
5431.1(6)	14^-									
5540.1(6)	14^+									
5752.6(6)										
5874.1(6)	15^-									
5970.4(6)	14^+									
6294.5(6)	16^+									
6437.5(6)	16^-									
6772.0(6)	16^+									

(continued) **$^{112}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0.0	689.01	1476.1	2297.4	3082.2	3361.9	3441.9
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	4^+	6^+		8^+	6^+
6903.1(7)	17^-									
6950.8(6)	17^-									
7028.7(6)	17^-									
7251.9(6)	18^+									
7634.1(6)	18^+									
7856.3(7)										
7911.6(7)	19^-									
8168.4(7)	20^+									
8211.7(7)	20^+									
8491.1(7)	21									
8904.0(7)	21^-									
9191.5(7)	22^+									
9710.3(7)	23^-									
10054.2(7)										
10617.6(7)										

Energy levels and branching ratios [96De55, 94Pa22]. Part 2 **$^{112}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	3453.8	3629.4	3661.4	3785.1	3958.5	4108.9	4225.9	4328.7	4334.5	4424.8
[keV]	J_f^π:	8^-	9^-			9^-	10^-	10^+	11^-		
3958.5(5)	9^-				26(1)						
4108.9(5)	10^-	93(5)	7.1(4)								
4225.9(5)	10^+				2.61(13)	4.2(2)					
4328.7(5)	11^-		100								
4334.5(5)				100							
4424.8(5)					100						
4827.1(5)	12^+							100			
4863.3(6)	12^-						100				
5040.4(6)											100
5061.8(6)										100	
5123.6(6)	13^-								100		

Energy levels and branching ratios [96De55, 94Pa22]. Part 3 **$^{112}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	4459.9	4827.1	4863.3	5040.4	5123.6	5211.7	5431.1	5540.1	5874.1	5970.4
[keV]	J_f^π:	10^+	12^+	12^-		13^-	12^+	14^-	14^+	15^-	14^+
5211.7(5)	12^+	100									
5431.1(6)	14^-			94(5)		6.3(3)					
5540.1(6)	14^+		100								
5752.6(6)					100						
5874.1(6)	15^-					82(4)		18(1)			
5970.4(6)	14^+						100				
6294.5(6)	16^+								100		
6437.5(6)	16^-							100			
6772.0(6)	16^+										100
6950.8(6)	17^-									100	
7028.7(6)	17^-									100	

Energy levels and branching ratios [96De55, 94Pa22]. Part 4 **$^{112}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	6294.5	6437.5	6772.0	6903.1	7251.9	7911.6	8168.4	8211.7	8904.0	9191.5
[keV]	J_f^π:	16^+	16^-	16^+	17^-	18^+	19^-	20^+	20^+	21^-	22^+
6903.1(7)	17^-		100								
7251.9(6)	18^+	100									
7634.1(6)	18^+			100							
7856.3(7)					100						
7911.6(7)	19^-					100					
8168.4(7)	20^+					100					
8211.7(7)	20^+					100					
8491.1(7)	21								100		
8904.0(7)	21^-						66(3)	34(2)			
9191.5(7)	22^+							65(3)	35(2)		
9710.3(7)	23^-									71(4)	29(1)
10054.2(7)											100

Energy levels and branching ratios [96De55, 94Pa22]. Part 5 **$^{112}_{52}$Te**

E^*	J^π	Branching ratios in percentage		
	E_f^*:	9710.3		10054.2
[keV]	J_f^π:	23^-		
10617.6(7)		50(2)		50(2)

Energy levels and branching ratios [98Bl04]. **$^{113}_{52}$Te**

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}
0	$\langle 7^+ \rangle$	1.7(2) m
0+X	$\langle 11^- \rangle$	
587+X	$\langle 15^- \rangle$	
1312+X	$\langle 19^- \rangle$	
1995+X	$\langle 23^- \rangle$	
3002+X	$\langle 27^- \rangle$	
3114+X	$\langle 25^+ \rangle$	
3470+X	$\langle 27 \rangle$	
3575+X	$\langle 29^+ \rangle$	
3814+X	$\langle 29^+ \rangle$	
4037+X		
4216+X	$\langle 27 \rangle$	
4561+X	$\langle 33^+ \rangle$	
4618+X	$\langle 33^+ \rangle$	
5019+X	$\langle 35^- \rangle$	
5166+X	$\langle 37^+ \rangle$	
5503+X		
5584+X	$\langle 39^+ \rangle$	
5650+X		
6626+X	$\langle 41^+ \rangle$	

Energy levels and branching ratios [98Bl04]. Part 2 **$^{113}_{52}$Te**

E^* [keV]	$2J^\pi$	Branching ratios in percentage									
	E_f^*: $2J_f^\pi$:	0+X $\langle 11^- \rangle$	587+X $\langle 15^- \rangle$	1312+X $\langle 19^- \rangle$	1995+X $\langle 23^- \rangle$	3002+X $\langle 27^- \rangle$	3114+X $\langle 25^+ \rangle$	3470+X $\langle 27 \rangle$	3575+X $\langle 29^+ \rangle$	3814+X $\langle 29^+ \rangle$
587+X	$\langle 15^- \rangle$	100								
1312+X	$\langle 19^- \rangle$		100							
1995+X	$\langle 23^- \rangle$			100						
3002+X	$\langle 27^- \rangle$				100					
3114+X	$\langle 25^+ \rangle$				100					
3470+X	$\langle 27 \rangle$						100			
3575+X	$\langle 29^+ \rangle$					100				
3814+X	$\langle 29^+ \rangle$						100			
4037+X						100				
4216+X	$\langle 27 \rangle$							100		
4561+X	$\langle 33^+ \rangle$								88	
4618+X	$\langle 33^+ \rangle$								35	65

Energy levels and branching ratios [98Bl04]. Part 3

$^{113}_{52}$Te

E^*	$2J^\pi$				Branching ratios in percentage				
		E_f^*:	4037+X	4216+X	4561+X	4618+X	5019+X	5166+X	5584+X
[keV]		$2J_f^\pi$:		⟨27⟩	⟨33^+⟩	⟨33^+⟩	⟨35^-⟩	⟨37^+⟩	⟨39^+⟩
4561+X	⟨33^+⟩		12						
5019+X	⟨35^-⟩			100					
5166+X	⟨37^+⟩				32	68			
5503+X							100		
5584+X	⟨39^+⟩							100	
5650+X								100	
6626+X	⟨41^+⟩								100

Energy levels and branching ratios [02Bl20].

$^{114}_{52}$Te

E^*	J^π	σ (τ,n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
					E_f^*:	0.0	708.74	1342.49	1391.34	1483.83
[keV]		μb/sr	Γ_{cm}		J_f^π:	0^+	2^+	⟨1,2⟩$^+$	2^+	4^+
0.0	0^+	420	15.2(7) m	78Fi06						
708.74(15)	2^+	70		78Fi06		100				
1342.49(20)	⟨1,2⟩$^+$	50		78Fi06		2(1)	98(10)			
1348.1(3)	⟨0^+⟩	incl					100			
1391.34(24)	2^+					1.0(5)	99(29)			
1483.83(24)	4^+						100			
1794.3(3)	⟨2^+⟩					7(4)	75(10)		8(2)	10(2)
1860.68(23)	⟨0^+⟩						100			
1949.7(3)	⟨3^+⟩								100	
1960.3(4)	⟨3^+⟩							100		
2027.02(25)	4^+								67(17)	33(9)
2217.3(3)	6^+									100
2241.9(3)									79(11)	21(5)
2275.9(3)										100
2296.14(25)							100			
2482.4(3)									100	
2606.3(3)	6^+									56(2)
2695.1(3)							10(4)		84(10)	6(3)
3008.17(25)							100			
3088.4(4)	8^+									
3120.9(5)										
3143.5(3)							30(12)			59(12)
3153.5(3)	7^-									
3252.5(5)	7^+									
3278.9(3)	⟨8^-⟩									
3301.1(3)										100
3346.3(3)										100
3507.6(4)	8^+									
3514.0(3)	⟨9^-⟩									

(continued) **$^{114}_{52}$Te**

E^*	J^π	σ (τ,n)	$T_{1/2}$ orRef.	Branching ratios in percentage					
				E_f^*:	0.0	708.74	1342.49	1391.34	1483.83
[keV]		μb/sr	Γ_{cm}	J_f^π:	0^+	2^+	$\langle 1,2\rangle^+$	2^+	4^+
3550.5(3)								100	
3723.3(4)	9^+								
3881.1(5)	10^+								
3919.6(4)	10^+								
4062.3(5)	$\langle 10^-\rangle$								
4304.0(4)	$\langle 11^-\rangle$								
4515.7(5)	12^+								
4689.2(5)	12^+								
4823.5(5)	$\langle 12^-\rangle$								
5033.1(5)	$\langle 13^-\rangle$								
5253.0(5)	14^+								
5258.6(5)	$\langle 14^-\rangle$								
5309.3(5)	$\langle 13^-\rangle$								
5509.9(5)	14^+								
5635.5(11)	$\langle 14^-\rangle$								
5780.7(5)	$\langle 15^-\rangle$								
5944.6(6)	16^+								
6100	$\langle 15\rangle$								
6307.4(5)	16^+								
6425.6(11)	$\langle 15^-\rangle$								
6471.6(15)	$\langle 16^-\rangle$								
6599.7(12)	$\langle 16^-\rangle$								
6920.6(7)	18^+								
6924.7(11)	$\langle 17^-\rangle$								
6940.0(10)	$\langle 17\rangle$								
7233.1(9)	18^+								
7359.5(18)	$\langle 18^-\rangle$								
7714.7(16)									
7804.0(15)	$\langle 19\rangle$								
7816.2(7)	20^+								
7915.7(12)	20^+								
8203.1(14)	20^+								
8318.5(21)	$\langle 20^-\rangle$								
8513.7(16)	$\langle 21^+\rangle$								
8721.0(18)	$\langle 21\rangle$								
9173.7(19)	$\langle 23^+\rangle$								
9217.0(17)	22^+								
9346.5(23)	$\langle 22^-\rangle$								
9669.6(19)	$\langle 22\rangle$								
9723.0(20)	$\langle 23\rangle$								
10092.7(21)	$\langle 25^+\rangle$								
10299.1(20)	24^+								
10436.5(25)	$\langle 24^-\rangle$								
10788.7(21)	$\langle 24\rangle$								
11225.7(24)	$\langle 26^+\rangle$								

(continued) **$^{114}_{52}$Te**

E^*	J^π	σ (τ,n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
				E_f^*:	0.0	708.74	1342.49	1391.34	1483.83
[keV]		μb/sr	Γ_{cm}	J_f^π:	0^+	2^+	$\langle 1,2\rangle^+$	2^+	4^+
11436.1(22)	26^+								
11642(3)	$\langle 26^-\rangle$								
11841(3)	$\langle 27^+\rangle$								
11962.7(24)	$\langle 26\rangle$								
12636.0(24)	28^+								
12939(3)	$\langle 28^-\rangle$								
12976(3)	$\langle 28^+\rangle$								
13221(3)	$\langle 28\rangle$								
13919(3)	30^+								
14331(3)	$\langle 30^-\rangle$								
14577(3)	$\langle 30\rangle$								
15283(3)	32^+								
15822(4)	$\langle 32^-\rangle$								
16047(3)	$\langle 32\rangle$								
16735(3)	34^+								
17426(4)	$\langle 34^-\rangle$								
17631(3)	$\langle 34\rangle$								
18269(4)	36^+								
19159(4)	$\langle 36^-\rangle$								
19347(4)	$\langle 36\rangle$								
19896(4)	38^+								
21059(4)	$\langle 38^-\rangle$								
21186(4)	$\langle 38\rangle$								
21658(4)	40^+								
23109(4)	$\langle 40^-\rangle$								
23168(4)	$\langle 40\rangle$								
23584(4)	42^+								
25288(4)	$\langle 42^-\rangle$								
25675(4)	44^+								
27933(4)	46^+								
30351(4)	48^+								
32926(4)	$\langle 50^+\rangle$								
		78Fi06		Ref.					

Additional data on this isotope can be found in [05Mo20, 00Gr02, 95Th05, 90Be50].
Three bands are assigned to excited states of this nucleus in [95Th05].

Energy levels and branching ratios [02Bl20]. Part 2 **$^{114}_{52}$Te**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	1949.7	2217.3	2606.3	3088.4	3153.5	3278.9	3507.6	3514.0	3723.3	3881.1
[keV]		J_f^π:	$\langle 3^+ \rangle$	6^+	6^+	8^+	7^-	$\langle 8^- \rangle$	8^+	$\langle 9^- \rangle$	9^+	10^+
2606.3(3)	6^+			44(1)								
3088.4(4)	8^+			99	1							
3120.9(5)				100								
3143.5(3)			11(5)									
3153.5(3)	7^-			98(3)	1.6(4)							
3252.5(5)	7^+			100								
3278.9(3)	$\langle 8^- \rangle$						100					
3507.6(4)	8^+				100							
3514.0(3)	$\langle 9^- \rangle$					79(8)		21(4)				
3723.3(4)	9^+					81(8)				19(4)		
3881.1(5)	10^+					100						
3919.6(4)	10^+					50(5)			36(5)		14(2)	
4062.3(5)	$\langle 10^- \rangle$							100				
4304.0(4)	$\langle 11^- \rangle$									100		
4689.2(5)	12^+											100

Energy levels and branching ratios [02Bl20]. Part 3 **$^{114}_{52}$Te**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	3919.6	4062.3	4304.0	4515.7	4689.2	4823.5	5033.1	5253.0	5258.6	5509.9
[keV]		J_f^π:	10^+	$\langle 10^- \rangle$	$\langle 11^- \rangle$	12^+	12^+	$\langle 12^- \rangle$	$\langle 13^- \rangle$	14^+	$\langle 14^- \rangle$	14^+
4515.7(5)	12^+		100									
4823.5(5)	$\langle 12^- \rangle$			100								
5033.1(5)	$\langle 13^- \rangle$				100							
5253.0(5)	14^+					100						
5258.6(5)	$\langle 14^- \rangle$							67(7)	33(5)			
5309.3(5)	$\langle 13^- \rangle$				100				x			
5509.9(5)	14^+						100					
5635.5(11)	$\langle 14^- \rangle$							x				
5780.7(5)	$\langle 15^- \rangle$								64(5)		36(4)	
5944.6(6)	16^+									100		
6307.4(5)	16^+									37(6)		63(6)
6425.6(11)	$\langle 15^- \rangle$										x	

Energy levels and branching ratios [02Bl20]. Part 4 **$^{114}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	5635.5	5780.7	5944.6	6100	6307.4	6425.6	6471.6	6599.7	6920.6	6940.0
[keV]	J_f^π:	$\langle 14^- \rangle$	$\langle 15^- \rangle$	16^+	$\langle 15 \rangle$	16^+	$\langle 15^- \rangle$	$\langle 16^- \rangle$	$\langle 16^- \rangle$	18^+	$\langle 17 \rangle$
6471.6(15)	$\langle 16^- \rangle$	x									
6599.7(12)	$\langle 16^- \rangle$						100				
6920.6(7)	18^+			100							
6924.7(11)	$\langle 17^- \rangle$		x								
6940.0(10)	$\langle 17 \rangle$				x						
7233.1(9)	18^+			x		x					
7359.5(18)	$\langle 18^- \rangle$							x			
7714.7(16)									x		
7804.0(15)	$\langle 19 \rangle$										x
7816.2(7)	20^+									100	
7915.7(12)	20^+									x	

Energy levels and branching ratios [02Bl20]. Part 5 **$^{114}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	7233.1	7359.5	7804.0	7915.7	8203.1	8318.5	8513.7	8721.0	9173.7	9217.0
[keV]	J_f^π:	18^+	$\langle 18^- \rangle$	$\langle 19 \rangle$	20^+	20^+	$\langle 20^- \rangle$	$\langle 21^+ \rangle$	$\langle 21 \rangle$	$\langle 23^+ \rangle$	22^+
8203.1(14)	20^+	x									
8318.5(21)	$\langle 20^- \rangle$		x								
8513.7(16)	$\langle 21^+ \rangle$				x						
8721.0(18)	$\langle 21 \rangle$			x							
9173.7(19)	$\langle 23^+ \rangle$							x			
9217.0(17)	22^+					x					
9346.5(23)	$\langle 22^- \rangle$						x				
9669.6(19)	$\langle 22 \rangle$							x			
9723.0(20)	$\langle 23 \rangle$								x		
10092.7(21)	$\langle 25^+ \rangle$									x	
10299.1(20)	24^+										x

Energy levels and branching ratios [02Bl20]. Part 6 **$^{114}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	9346.5	9669.6	10092.7	10299.1	10436.5	10788.7	11225.7	11436.1	11642	11841
[keV]	J_f^π:	$\langle 22^- \rangle$	$\langle 22 \rangle$	$\langle 25^+ \rangle$	24^+	$\langle 24^- \rangle$	$\langle 24 \rangle$	$\langle 26^+ \rangle$	26^+	$\langle 26^- \rangle$	$\langle 27^+ \rangle$
10436.5(25)	$\langle 24^- \rangle$	x									
10788.7(21)	$\langle 24 \rangle$		x								
11225.7(24)	$\langle 26^+ \rangle$			x							
11436.1(22)	26^+				x						
11642(3)	$\langle 26^- \rangle$					x					

(continued) **$^{114}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	9346.5	9669.6	10092.7	10299.1	10436.5	10788.7	11225.7	11436.1	11642	11841
[keV]	J_f^π:	$\langle 22^- \rangle$	$\langle 22 \rangle$	$\langle 25^+ \rangle$	24^+	$\langle 24^- \rangle$	$\langle 24 \rangle$	$\langle 26^+ \rangle$	26^+	$\langle 26^- \rangle$	$\langle 27^+ \rangle$
11841(3)	$\langle 27^+ \rangle$							x			
11962.7(24)	$\langle 26 \rangle$						x				
12636.0(24)	28^+								x		
12939(3)	$\langle 28^- \rangle$									x	
12976(3)	$\langle 28^+ \rangle$										x

Energy levels and branching ratios [02Bl20]. Part 7 **$^{114}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	11962.7	12636.0	12939	13221	13919	14331	14577	15283	15822	16047
[keV]	J_f^π:	$\langle 26 \rangle$	28^+	$\langle 28^- \rangle$	$\langle 28 \rangle$	30^+	$\langle 30^- \rangle$	$\langle 30 \rangle$	32^+	$\langle 32^- \rangle$	$\langle 32 \rangle$
13221(3)	$\langle 28 \rangle$	x									
13919(3)	30^+		x								
14331(3)	$\langle 30^- \rangle$			x							
14577(3)	$\langle 30 \rangle$				x						
15283(3)	32^+					x					
15822(4)	$\langle 32^- \rangle$						x				
16047(3)	$\langle 32 \rangle$							x			
16735(3)	34^+								x		
17426(4)	$\langle 34^- \rangle$									x	
17631(3)	$\langle 34 \rangle$										x

Energy levels and branching ratios [02Bl20]. Part 8 **$^{114}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	16735	17426	17631	18269	19159	19347	19896	21059	21186	21658
[keV]	J_f^π:	34^+	$\langle 34^- \rangle$	$\langle 34 \rangle$	36^+	$\langle 36^- \rangle$	$\langle 36 \rangle$	38^+	$\langle 38^- \rangle$	$\langle 38 \rangle$	40^+
18269(4)	36^+	x									
19159(4)	$\langle 36^- \rangle$		x								
19347(4)	$\langle 36 \rangle$			x							
19896(4)	38^+				x						
21059(4)	$\langle 38^- \rangle$					x					
21186(4)	$\langle 38 \rangle$						x				
21658(4)	40^+							x			
23109(4)	$\langle 40^- \rangle$								x		
23168(4)	$\langle 40 \rangle$									x	
23584(4)	42^+										x

Energy levels and branching ratios [02Bl20]. Part 9 **$^{114}_{52}$Te**

E^*	J^π		Branching ratios in percentage				
		E_f^*:	23109	23584	25675	27933	30351
[keV]		J_f^π:	$\langle 40^- \rangle$	42^+	44^+	46^+	48^+
25288(4)	$\langle 42^- \rangle$		x				
25675(4)	44^+			x			
27933(4)	46^+				x		
30351(4)	48^+					x	
32926(4)	$\langle 50^+ \rangle$						x

Energy levels and branching ratios [99Bl28]. **$^{115}_{52}$Te**

E^*	$2J^\pi$	$T_{1/2}$ or		Branching ratios in percentage						
			E_f^*:	0.0	280.05	761.1	871.8	930.59	1144.6	1272.1
[keV]		Γ_{cm}	$2J_f^\pi$:	7^+	11^-	$\langle 9^- \rangle$	11^+	15^-	13^-	$\langle 13^- \rangle$
0.0	7^+	5.8(2) m								
<20	$\langle 1 \rangle^+$	6.7(4) m								
280.05(20)	11^-	7.5(2) μs		100						
761.1(3)	$\langle 9^- \rangle$				x					
871.8(3)	11^+			100						
930.59(24)	15^-				100					
1144.6(3)	13^-				100					
1272.1(3)	$\langle 13^- \rangle$				<48	45		55		
1653.7(3)	19^-							100		
1750.0(4)	15^+						100			
1834.0(3)	17^-							55	21.0	12.9
2000.7(4)								100		
2224.0(4)	$\langle 17^- \rangle$							100		
2286.9(3)	23^-									
2466.5(4)	19^+									
2517.0(3)	21^-									
2639.3(4)	23^-									
2834.3(4)	$\langle 21^- \rangle$									
3193.1(3)	23^+									
3208.6(5)	23^+									
3326.0(4)	27^-									
3331.3(4)	25^+									
3389.0(4)	$\langle 23^- \rangle$									
3529.2(5)	$\langle 25^- \rangle$									
3600.4(4)	$\langle 27^- \rangle$									
3663.6(7)	$27^{\langle - \rangle}$									
3675.3(4)	27^+									
3683.4(4)	$27^{\langle - \rangle}$									
3772.9(4)	$27^{\langle + \rangle}$									
3785.1(4)	$\langle 29 \rangle$									
3946.2(6)	27^+									

(continued) **$^{115}_{52}$Te**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	280.05	761.1	871.8	930.59	1144.6	1272.1
[keV]		Γ_{cm}	$2J_f^\pi$: 7^+	11^-	$\langle 9^- \rangle$	11^+	15^-	13^-	$\langle 13^- \rangle$
4122.9(5)	29								
4245.5(7)	$\langle 27^- \rangle$								
4289.5(4)	$\langle 31^+ \rangle$								
4289.7(4)	$\langle 29^- \rangle$								
4318.5(4)	31^-								
4370.8(4)	29^+								
4387.1(4)	$\langle 31^+ \rangle$								
4500.0(5)	$\langle 31^- \rangle$								
4571.6(5)	$\langle 29 \rangle$								
4711.0									
4766.2(7)	$\langle 31^+ \rangle$								
4794.0(6)									
4829.4(4)	31^-								
5013.6(6)									
5069.0(5)	$\langle 33^- \rangle$								
5102.5(4)	35^+								
5149.5(14)	$\langle 31^- \rangle$								
5252.3(4)	35^-								
5317.6(8)	35^-								
5441.4(7)									
5511.0(5)	37^+								
5661.2(7)	$\langle 35^+ \rangle$								
5911.1(7)	$\langle 37^- \rangle$								
5938.3(4)	$\langle 37 \rangle$								
6070.9(15)	$\langle 35^- \rangle$								
6233.9(8)	39^-								
6320.0(10)	$\langle 39^- \rangle$								
6614.8(5)	41^+								
6624.4(5)									
6837.6(8)	$\langle 41^- \rangle$								
7067.0(18)	$\langle 39^- \rangle$								
7216.3(11)	$\langle 43^- \rangle$								
7361.0(13)	$\langle 43^- \rangle$								
7426.4(6)									
7547.4(5)									
7703.4(5)	45^+								
7799.4(8)									
7813.5(8)	$\langle 45^+ \rangle$								
7855.2(11)	$\langle 45^- \rangle$								
8101.5(6)									
8165.6(18)	$\langle 43^- \rangle$								
8439.3(14)	$\langle 47^- \rangle$								
8464.0(7)	47^+								
9351.4(20)	$\langle 47^- \rangle$								
9562.4(15)	$\langle 51^- \rangle$								

(continued) **$^{115}_{52}$Te**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
		E_f^*:	0.0	280.05	761.1	871.8	930.59	1144.6	1272.1	
[keV]		Γ_{cm}	$2J_f^\pi$:	7^+	11^-	$\langle 9^- \rangle$	11^+	15^-	13^-	$\langle 13^- \rangle$
10585.8(22)	$\langle 51^- \rangle$									
10765.2(20)	$\langle 55^- \rangle$									
11881.0(24)	$\langle 55^- \rangle$									
12022.0(22)	$\langle 59^- \rangle$									
13286(3)	$\langle 59^- \rangle$									
14783(3)	$\langle 63^- \rangle$									

Energy levels and branching ratios [99Bl28]. Part 2 **$^{115}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	1653.7	1750.0	1834.0	2224.0	2286.9	2466.5	2517.0	2639.3	2834.3	3193.1
[keV]		$2J_f^\pi$:	19^-	15^+	17^-	$\langle 17^- \rangle$	23^-	19^+	21^-	23^-	$\langle 21^- \rangle$	23^+
1834.0(3)	17^-		11.3									
2286.9(3)	23^-		100									
2466.5(4)	19^+			100								
2517.0(3)	21^-		20.2		58		22					
2639.3(4)	23^-		73				26.8					
2834.3(4)	$\langle 21^- \rangle$		43(14)			57(9)						
3193.1(3)	23^+						30.3(13)	19.7	50(5)			
3208.6(5)	23^+							100				
3326.0(4)	27^-						62(6)			38(2)		
3331.3(4)	25^+						100					
3389.0(4)	$\langle 23^- \rangle$								100			
3529.2(5)	$\langle 25^- \rangle$						50				50	
3600.4(4)	$\langle 27^- \rangle$									100		
3675.3(4)	27^+											44(3)
3683.4(4)	$27^{\langle - \rangle}$									100		
3772.9(4)	$27^{\langle + \rangle}$											100

Energy levels and branching ratios [99Bl28]. Part 3 **$^{115}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	3208.6	3326.0	3331.3	3389.0	3529.2	3600.4	3663.6	3675.3	3683.4	3785.1
[keV]		$2J_f^\pi$:	23^+	27^-	25^+	$\langle 23^- \rangle$	$\langle 25^- \rangle$	$\langle 27^- \rangle$	$27^{\langle - \rangle}$	27^+	$27^{\langle - \rangle}$	$\langle 29 \rangle$
3663.6(7)	$27^{\langle - \rangle}$			100								
3675.3(4)	27^+				56(3)							
3785.1(4)	$\langle 29 \rangle$							57(5)		43(17)		
3946.2(6)	27^+		100									
4122.9(5)	29				100							

(continued) **$^{115}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	3208.6	3326.0	3331.3	3389.0	3529.2	3600.4	3663.6	3675.3	3683.4	3785.1
[keV]	$2J_f^\pi$:	23^+	27^-	25^+	$\langle 23^- \rangle$	$\langle 25^- \rangle$	$\langle 27^- \rangle$	$27^{\langle - \rangle}$	27^+	$27^{\langle - \rangle}$	$\langle 29 \rangle$
4245.5(7)	$\langle 27^- \rangle$				100						
4289.5(4)	$\langle 31^+ \rangle$								100		
4289.7(4)	$\langle 29^- \rangle$		9			91(5)					
4318.5(4)	31^-		100								
4370.8(4)	29^+			59(6)				14(4)		27	
4500.0(5)	$\langle 31^- \rangle$		100								
4571.6(5)	$\langle 29 \rangle$						100				
4829.4(4)	31^-										11(3)

Energy levels and branching ratios [99Bl28]. Part 4 **$^{115}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	3946.2	4122.9	4245.5	4289.7	4318.5	4370.8	4387.1	4500.0	4571.6	4766.2
[keV]	$2J_f^\pi$:	27^+	29	$\langle 27^- \rangle$	$\langle 29^- \rangle$	31^-	29^+	$\langle 31^+ \rangle$	$\langle 31^- \rangle$	$\langle 29 \rangle$	$\langle 31^+ \rangle$
4387.1(4)	$\langle 31^+ \rangle$				100						
4711.0		100									
4766.2(7)	$\langle 31^+ \rangle$	100									
4794.0(6)									100		
4829.4(4)	31^-		38(2)				51(3)				
5013.6(6)										100	
5069.0(5)	$\langle 33^- \rangle$				100						
5102.5(4)	35^+				63(3)			37(4)			
5149.5(14)	$\langle 31^- \rangle$			100							
5317.6(8)	35^-					100					
5441.4(7)										100	
5661.2(7)	$\langle 35^+ \rangle$										100

Energy levels and branching ratios [99Bl28]. Part 5 **$^{115}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	4829.4	5069.0	5102.5	5149.5	5252.3	5317.6	5511.0	5911.1	5938.3	6070.9
[keV]	$2J_f^\pi$:	31^-	$\langle 33^- \rangle$	35^+	$\langle 31^- \rangle$	35^-	35^-	37^+	$\langle 37^- \rangle$	$\langle 37 \rangle$	$\langle 35^- \rangle$
5252.3(4)	35^-	79(4)		21(2)							
5511.0(5)	37^+					100					
5911.1(7)	$\langle 37^- \rangle$		100								
5938.3(4)	$\langle 37 \rangle$			64(5)		36(13)					
6070.9(15)	$\langle 35^- \rangle$				100						
6233.9(8)	39^-						100				
6320.0(10)	$\langle 39^- \rangle$						100				

(continued) **$^{115}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	4829.4	5069.0	5102.5	5149.5	5252.3	5317.6	5511.0	5911.1	5938.3	6070.9
[keV]	$2J_f^\pi$:	31^-	$\langle 33^- \rangle$	35^+	$\langle 31^- \rangle$	35^-	35^-	37^+	$\langle 37^- \rangle$	$\langle 37 \rangle$	$\langle 35^- \rangle$
6614.8(5)	41^+							100			
6624.4(5)										100	
6837.6(8)	$\langle 41^- \rangle$								100		
7067.0(18)	$\langle 39^- \rangle$										100

Energy levels and branching ratios [99Bl28]. Part 6 **$^{115}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	6233.9	6320.0	6614.8	6624.4	6837.6	7067.0	7361.0	7547.4	7703.4	8165.6
[keV]	$2J_f^\pi$:	39^-	$\langle 39^- \rangle$	41^+		$\langle 41^- \rangle$	$\langle 39^- \rangle$	$\langle 43^- \rangle$		45^+	$\langle 43^- \rangle$
7216.3(11)	$\langle 43^- \rangle$	100									
7361.0(13)	$\langle 43^- \rangle$		100								
7426.4(6)					100						
7547.4(5)				100							
7703.4(5)	45^+			100							
7799.4(8)						100					
7813.5(8)	$\langle 45^+ \rangle$					100					
7855.2(11)	$\langle 45^- \rangle$					100					
8101.5(6)									100		
8165.6(18)	$\langle 43^- \rangle$						100				
8439.3(14)	$\langle 47^- \rangle$							100			
8464.0(7)	47^+									100	
9351.4(20)	$\langle 47^- \rangle$										100

Energy levels and branching ratios [99Bl28]. Part 7 **$^{115}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage						
	E_f^*:	8439.3	9351.4	9562.4	10585.8	10765.2	11881.0	13286
[keV]	$2J_f^\pi$:	$\langle 47^- \rangle$	$\langle 47^- \rangle$	$\langle 51^- \rangle$	$\langle 51^- \rangle$	$\langle 55^- \rangle$	$\langle 55^- \rangle$	$\langle 59^- \rangle$
9562.4(15)	$\langle 51^- \rangle$	100						
10585.8(22)	$\langle 51^- \rangle$		100					
10765.2(20)	$\langle 55^- \rangle$			100				
11881.0(24)	$\langle 55^- \rangle$				100			
12022.0(22)	$\langle 59^- \rangle$					100		
13286(3)	$\langle 59^- \rangle$						100	
14783(3)	$\langle 63^- \rangle$							100

Energy levels and branching ratios [01Bl04]. **$^{116}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	678.9	1059.8	1219.1	1359.4	1811.8	2002.2
[keV]		Γ_{cm}	J_f^π: 0^+	2^+		2^+	4^+	4^+	6^+
0.0	0^+	2.49(4) h							
678.92(3)	2^+		100						
1059.78(8)				100					
1219.10(5)	2^+		x	x					
1359.39(15)	4^+			100					
1637.59(5)	3^+			86(13)	14(4)				
1746.0(8)	4^+					100			
1811.77(9)	4^+			47(23)		28(6)	25(5)		
2002.24(25)	6^+						100		
2080.94(5)	$\langle 1,2^+\rangle$		4(4)	64(3)		32(2)			
2119.1(3)	3^-,4^-,5^-						100		
2339.87(22)	$\langle 5\rangle^+$						33(7)	12(6)	56(11)
2556.1(4)	3^-,4^-,5^-						100		
2564.5(4)	$\langle 6\rangle^+$								
2773.1(4)	8^+								100
2966.2(4)	$\langle 6\rangle^-$								42(20)
3027.3(4)	7^-								100
3175.0(5)	8^-								
3190.1(4)	$\langle 7\rangle^-$								100
3245.1(4)	$\langle 7\rangle^+$								
3341.8(5)									
3429.9(8)	9^-								
3574.8(4)	10^+								
3683.8(11)	10^+								
3698.8(8)	10^+								
3746.5(11)	$\langle 9^-\rangle$								
3751.9(4)	10^-								
3993.7(6)	10^-								
4228.2(10)	$\langle 11\rangle^-$								
4328.5(15)	$\langle 11^-\rangle$								
4339.5(9)	12^+								
4436.6(5)	$\langle 12^-\rangle$								
4585.6(15)	$\langle 12^+\rangle$								
4704.7(12)	12^-								
4920.0(10)	$\langle 13\rangle^-$								
4995.2(18)	$\langle 13^-\rangle$								
5110.5(10)	14^+								
5197.5(20)	$\langle 14\rangle^-$								
5236.3(5)	$\langle 14^-\rangle$								
5472.6(6)	$\langle 14^+\rangle$								
5621.9(11)	16^+								
5721.5(5)	$\langle 15^-\rangle$								
5775.8(21)	$\langle 15^-\rangle$								
6106.0(5)	$\langle 16^+\rangle$								
6128.8(5)	$\langle 16^-\rangle$								

(continued) **$^{116}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage						
		E_f^*:	0.0	678.9	1059.8	1219.1	1359.4	1811.8	2002.2
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	2^+	4^+	4^+	6^+
6141.9(6)	$\langle 16^- \rangle$								
6274.4(7)	$\langle 16^+ \rangle$								
6651.9(5)	$\langle 17^- \rangle$								
6659.3(5)	$\langle 17 \rangle$								
6673.2(5)	18^+								
7091.8(5)	19^-								
7160.4(17)	$\langle 18^+ \rangle$								
7173.7(10)	$\langle 18^- \rangle$								
7307.4(7)	$\langle 18^- \rangle$								
7642.0(5)	$\langle 19 \rangle$								
7642.1(6)	20^+								
7729.1(6)	$\langle 19^- \rangle$								
8119.6(5)	21^-								
8123.3(17)	$\langle 20^+ \rangle$								
8173.2(11)	$\langle 20^- \rangle$								
8667.6(6)	22^-								
8683.2(7)	$\langle 21 \rangle$								
8995.5(6)	23^-								
9171.9(17)	$\langle 22^+ \rangle$								
9204.9(13)	$\langle 22^- \rangle$								
9756.4(6)	24^-								
9775.6(9)	$\langle 23 \rangle$								
10058.6(6)	25^-								
10303.6(17)	$\langle 24^+ \rangle$								
10324.7(14)	$\langle 24^- \rangle$								
10949.6(10)	$\langle 25 \rangle$								
11129.8(6)	27^-								
11494.4(18)	$\langle 26^+ \rangle$								
11538.8(15)	$\langle 26^- \rangle$								
12714.9(18)	$\langle 28^+ \rangle$								
12841.7(17)	$\langle 28^- \rangle$								
13988.4(19)	$\langle 30^+ \rangle$								
14228.1(18)	$\langle 30^- \rangle$								
15335.8(20)	$\langle 32^+ \rangle$								
15671(3)	$\langle 32^- \rangle$								
16743.6(21)	$\langle 34^+ \rangle$								
18231.2(22)	$\langle 36^+ \rangle$								
19871(3)	$\langle 38^+ \rangle$								
21702(3)	$\langle 40^+ \rangle$								
23721(4)	$\langle 42^+ \rangle$								

Additional data on this isotope can be found in [00Gr02, 97Mo23, 97Se04, 93Sh20, 90Be50].

Energy levels and branching ratios [01Bl04]. Part 2 **$^{116}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2119.1	2339.87	2773.1	3027.3	3175.0	3190.1	3429.9	3574.8	3683.8	3698.8
[keV]	J_f^π:		$\langle 5\rangle^+$	8^+	7^-	8^-	$\langle 7\rangle^-$	9^-	10^+	10^+	10^+
2564.5(4)	$\langle 6\rangle^+$		100								
2966.2(4)	$\langle 6\rangle^-$	58(29)									
3175.0(5)	8^-				100						
3245.1(4)	$\langle 7\rangle^+$		100								
3341.8(5)							100				
3429.9(8)	9^-			79(8)		21(2)					
3574.8(4)	10^+			100							
3683.8(11)	10^+			100							
3698.8(8)	10^+			100							
3746.5(11)	$\langle 9^-\rangle$			100							
3751.9(4)	10^-					100					
3993.7(6)	10^-					100					
4228.2(10)	$\langle 11\rangle^-$							89(10)			11(2)
4328.5(15)	$\langle 11^-\rangle$								29(4)		
4339.5(9)	12^+								87(9)		12.5(15)
4585.6(15)	$\langle 12^+\rangle$									100	

Energy levels and branching ratios [01Bl04]. Part 3 **$^{116}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	3746.5	3751.9	3993.7	4228.2	4328.5	4339.5	4436.6	4585.6	4704.7	4920.0
[keV]	J_f^π:	$\langle 9^-\rangle$	10^-	10^-	$\langle 11\rangle^-$	$\langle 11^-\rangle$	12^+	$\langle 12^-\rangle$	$\langle 12^+\rangle$	12^-	$\langle 13\rangle^-$
4328.5(15)	$\langle 11^-\rangle$	71(7)									
4436.6(5)	$\langle 12^-\rangle$		100								
4704.7(12)	12^-			92(12)	8(3)						
4920.0(10)	$\langle 13\rangle^-$				100						
4995.2(18)	$\langle 13^-\rangle$					100					
5110.5(10)	14^+						100				
5197.5(20)	$\langle 14\rangle^-$									49(3)	51(3)
5236.3(5)	$\langle 14^-\rangle$							100			
5472.6(6)	$\langle 14^+\rangle$								100		
5721.5(5)	$\langle 15^-\rangle$										56(3)

Energy levels and branching ratios [01Bl04]. Part 4 **$^{116}_{52}$Te**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	4995.2	5110.5	5197.5	5236.3	5472.6	5621.9	5721.5	5775.8	6128.8	6141.9
[keV]		J_f^π:	$\langle 13^- \rangle$	14^+	$\langle 14 \rangle^-$	$\langle 14^- \rangle$	$\langle 14^+ \rangle$	16^+	$\langle 15^- \rangle$	$\langle 15^- \rangle$	$\langle 16^- \rangle$	$\langle 16^- \rangle$
5621.9(11)	16^+			100								
5721.5(5)	$\langle 15^- \rangle$				44(3)							
5775.8(21)	$\langle 15^- \rangle$		100									
6106.0(5)	$\langle 16^+ \rangle$			100								
6128.8(5)	$\langle 16^- \rangle$				100							
6141.9(6)	$\langle 16^- \rangle$					100						
6274.4(7)	$\langle 16^+ \rangle$						100					
6651.9(5)	$\langle 17^- \rangle$								100			
6659.3(5)	$\langle 17 \rangle$									100		
6673.2(5)	18^+							100				
7173.7(10)	$\langle 18^- \rangle$											x
7307.4(7)	$\langle 18^- \rangle$										100	

Energy levels and branching ratios [01Bl04]. Part 5 **$^{116}_{52}$Te**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	6274.4	6651.9	6659.3	6673.2	7091.8	7160.4	7173.7	7642.1	8119.6	8123.3
[keV]		J_f^π:	$\langle 16^+ \rangle$	$\langle 17^- \rangle$	$\langle 17 \rangle$	18^+	19^-	$\langle 18^+ \rangle$	$\langle 18^- \rangle$	20^+	21^-	$\langle 20^+ \rangle$
7091.8(5)	19^-					100						
7160.4(17)	$\langle 18^+ \rangle$		0									
7642.0(5)	$\langle 19 \rangle$				100							
7642.1(6)	20^+					100						
7729.1(6)	$\langle 19^- \rangle$			100								
8119.6(5)	21^-						x			100		
8123.3(17)	$\langle 20^+ \rangle$							100				
8173.2(11)	$\langle 20^- \rangle$								100			
8667.6(6)	22^-										100	
8683.2(7)	$\langle 21 \rangle$									100		
8995.5(6)	23^-										100	
9171.9(17)	$\langle 22^+ \rangle$											100

Energy levels and branching ratios [01Bl04]. Part 6 **$^{116}_{52}$Te**

E^*	J^π					Branching ratios in percentage						
		E_f^*:	8173.2	8667.6	8683.2	8995.5	9171.9	9204.9	9756.4	9775.6	10058.6	10303.6
[keV]		J_f^π:	$\langle 20^- \rangle$	22^-	$\langle 21 \rangle$	23^-	$\langle 22^+ \rangle$	$\langle 22^- \rangle$	24^-	$\langle 23 \rangle$	25^-	$\langle 24^+ \rangle$
9204.9(13)	$\langle 22^- \rangle$		100									
9756.4(6)	24^-			6.4(3)		94						
9775.6(9)	$\langle 23 \rangle$				100							

(continued) **$^{116}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	8173.2	8667.6	8683.2	8995.5	9171.9	9204.9	9756.4	9775.6	10058.6	10303.6
[keV]	J_f^π:	$\langle 20^- \rangle$	22^-	$\langle 21 \rangle$	23^-	$\langle 22^+ \rangle$	$\langle 22^- \rangle$	24^-	$\langle 23 \rangle$	25^-	$\langle 24^+ \rangle$
10058.6(6)	25^-							100			
10303.6(17)	$\langle 24^+ \rangle$					100					
10324.7(14)	$\langle 24^- \rangle$						100				
10949.6(10)	$\langle 25 \rangle$								100		
11129.8(6)	27^-									100	
11494.4(18)	$\langle 26^+ \rangle$										100

Energy levels and branching ratios [01Bl04]. Part 7 **$^{116}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	10324.7	11494.4	11538.8	12714.9	12841.7	13988.4	14228.1	15335.8	16743.6	18231.2
[keV]	J_f^π:	$\langle 24^- \rangle$	$\langle 26^+ \rangle$	$\langle 26^- \rangle$	$\langle 28^+ \rangle$	$\langle 28^- \rangle$	$\langle 30^+ \rangle$	$\langle 30^- \rangle$	$\langle 32^+ \rangle$	$\langle 34^+ \rangle$	$\langle 36^+ \rangle$
11538.8(15)	$\langle 26^- \rangle$	100									
12714.9(18)	$\langle 28^+ \rangle$		100								
12841.7(17)	$\langle 28^- \rangle$			100							
13988.4(19)	$\langle 30^+ \rangle$				100						
14228.1(18)	$\langle 30^- \rangle$					100					
15335.8(20)	$\langle 32^+ \rangle$						100				
15671(3)	$\langle 32^- \rangle$							100			
16743.6(21)	$\langle 34^+ \rangle$								100		
18231.2(22)	$\langle 36^+ \rangle$									100	
19871(3)	$\langle 38^+ \rangle$										100

Energy levels and branching ratios [01Bl04]. Part 8 **$^{116}_{52}$Te**

E^*	J^π	Branching ratios in percentage		
		E_f^*:	19871	21702
[keV]		J_f^π:	$\langle 38^+ \rangle$	$\langle 40^+ \rangle$
21702(3)	$\langle 40^+ \rangle$		100	
23721(4)	$\langle 42^+ \rangle$			100

Energy levels and branching ratios [02Bl10, 93Sh01].

$^{117}_{52}$Te

E^*	$2J^\pi$	$T_{1/2}$ or		Branching ratios in percentage						
			E_f^*:	0	274.4	296.0	296.1	325.9	636.5	681.5
[keV]		Γ_{cm}	$2J_f^\pi$:	1^+	5^+	$\langle 7^+\rangle$	$\langle 11^-\rangle$	$\langle 3\rangle^+$	$\langle 9^-\rangle$	$\langle 7\rangle^+$
0	1^+	62(2) m								
274.4(1)	5^+	19.9(4) n		100						
296.0(2)	$\langle 7^+\rangle$				100					
296.1	$\langle 11^-\rangle$	103(3) m								
325.9(3)	$\langle 3\rangle^+$			99(5)	0.5(1)	0.1(1)				
577.7(3)	$\langle 3,5,7\rangle^+$				100					
636.5(5)	$\langle 9^-\rangle$					100				
681.5(2)	$\langle 7\rangle^+$				84	16(5)				
821.2(3)	$\langle 9^+\rangle$				26(8)	65(3)				9(3)
929.7(2)	9^+				48	41(11)				11(1)
935.7(5)				8(3)	85			8(3)		
958.4(5)					100					
964.4(8)				18(2)	16(2)			66		
967.0	$\langle 15^-\rangle$						100			
1042.6(3)	11^+					100				
1094.0	$\langle 13^-\rangle$					100				
1176.9(4)	$\langle 13^-\rangle$					50			50	
1186.9(2)	$\langle 11^+\rangle$									60(4)
1244.4(5)					64	36(10)				
1416.3(4)	$\langle 13^+\rangle$									
1480.9(5)	$\langle 13^+\rangle$									
1577.3(5)					100					
1680.0(5)	$\langle 19^-\rangle$									
1696.6(3)	$\langle 15^+\rangle$									
1726.0	$\langle 17^-\rangle$									
1787.0(4)	$\langle 15^+\rangle$									
2021.2(4)	$\langle 17^+\rangle$									
2127.6(4)	$\langle 17^+\rangle$									
2303.4(5)	$\langle 23^-\rangle$									
2344.1(5)	$\langle 21^-\rangle$									
2366.5(4)	$\langle 19^+\rangle$									
2609.1(5)	$\langle 23^-\rangle$									
2737.5(6)	$\langle 21^+\rangle$									
2903.0(4)	$\langle 21^+\rangle$									
3111.4(4)	$\langle 23^+\rangle$									
3126.6(4)	$\langle 23^+\rangle$									
3296.1(5)	$\langle 25^-\rangle$									
3315.3(5)	$\langle 25^+\rangle$									
3347.5(5)	$\langle 27^-\rangle$									
3428.9(6)										
3524.2(7)	$\langle 25^+\rangle$									
3597.8(4)	$\langle 27^+\rangle$									
3618.1(5)	$\langle 27^-\rangle$									
3719.2(5)	$\langle 27^+\rangle$									
3744.6(5)	$\langle 21^+\rangle$									

(continued) **$^{117}_{52}$Te**

E^*	$2J^\pi$	$T_{1/2}$ or	Branching ratios in percentage							
			E_f^*:	0	274.4	296.0	296.1	325.9	636.5	681.5
[keV]		Γ_{cm}	$2J_f^\pi$:	1^+	5^+	$\langle 7^+\rangle$	$\langle 11^-\rangle$	$\langle 3\rangle^+$	$\langle 9^-\rangle$	$\langle 7\rangle^+$
3764.2(5)	$\langle 29^+\rangle$									
3934.4(5)	$\langle 27^+\rangle$									
4173.2(5)	$\langle 29^+\rangle$									
4299.9(5)	$\langle 31^-\rangle$									
4366.2(8)	$\langle 29^+\rangle$									
4502.2(5)	$\langle 31^+\rangle$									
4533.0(8)	$\langle 31^-\rangle$									
4691.8(6)	$\langle 31\rangle$									
4702.9(5)	$\langle 33^+\rangle$									
5014.8(5)	$\langle 35^+\rangle$									
5145.2(6)	$\langle 33^+\rangle$									
5214.4(5)	$\langle 37^+\rangle$									
5284.3(7)	$\langle 35^-\rangle$									
5291.4(9)	$\langle 33^+\rangle$									
5378.5(10)	$\langle 35^-\rangle$									
5878.3(6)	$\langle 39^-\rangle$									
5924.2(7)	$\langle 39\rangle$									
6117.1(6)	$\langle 39^-\rangle$									
6335.1(8)	$\langle 37\rangle$									
6532.3(7)	$\langle 43^-\rangle$									
6845.5(6)	$\langle 43^-\rangle$									
7362.2(7)	$\langle 45^+\rangle$									
7443.8(8)	$\langle 45\rangle$									
7458.8(9)	$\langle 39\rangle$									
7594.9(8)	$\langle 45\rangle$									
7821.2(7)	$\langle 47^-\rangle$									
8309.9(7)	$\langle 49^+\rangle$									
8885.1(8)	$\langle 51\rangle$									
9214.6(8)	$\langle 53^+\rangle$									
9574.5(9)	$\langle 55\rangle$									
10426.1(9)	$\langle 55\rangle$									

Additional data on this isotope can be found in [94Du06].

Energy levels and branching ratios [02Bl10, 93Sh01]. Part 2 **$^{117}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	821.2	929.7	967.0	1042.6	1094.0	1176.9	1186.9	1416.3	1480.9	1680.0
[keV]		$2J_f^\pi$:	$\langle 9^+\rangle$	9^+	$\langle 15^-\rangle$	11^+	$\langle 13^-\rangle$	$\langle 13^-\rangle$	$\langle 11^+\rangle$	$\langle 13^+\rangle$	$\langle 13^+\rangle$	$\langle 19^-\rangle$
1186.9(2)	$\langle 11^+\rangle$		34(19)	6(2)								
1416.3(4)	$\langle 13^+\rangle$		83	17(6)								
1480.9(5)	$\langle 13^+\rangle$		11(4)	19(5)					70			
1680.0(5)	$\langle 19^-\rangle$				100							

(continued) **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	821.2	929.7	967.0	1042.6	1094.0	1176.9	1186.9	1416.3	1480.9	1680.0
[keV]	$2J_f^\pi$:	$\langle 9^+ \rangle$	9^+	$\langle 15^- \rangle$	11^+	$\langle 13^- \rangle$	$\langle 13^- \rangle$	$\langle 11^+ \rangle$	$\langle 13^+ \rangle$	$\langle 13^+ \rangle$	$\langle 19^- \rangle$
1696.6(3)	$\langle 15^+ \rangle$				76			24			
1726.0	$\langle 17^- \rangle$			25(3)		46	29				
1787.0(4)	$\langle 15^+ \rangle$							100			
2021.2(4)	$\langle 17^+ \rangle$								100		
2127.6(4)	$\langle 17^+ \rangle$									100	
2303.4(5)	$\langle 23^- \rangle$										100
2344.1(5)	$\langle 21^- \rangle$										23
2609.1(5)	$\langle 23^- \rangle$										85

Energy levels and branching ratios [02Bl10, 93Sh01]. Part 3 **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1696.6	1726.0	1787.0	2021.2	2127.6	2303.4	2344.1	2366.5	2609.1	2737.5
[keV]	$2J_f^\pi$:	$\langle 15^+ \rangle$	$\langle 17^- \rangle$	$\langle 15^+ \rangle$	$\langle 17^+ \rangle$	$\langle 17^+ \rangle$	$\langle 23^- \rangle$	$\langle 21^- \rangle$	$\langle 19^+ \rangle$	$\langle 23^- \rangle$	$\langle 21^+ \rangle$
2344.1(5)	$\langle 21^- \rangle$		77								
2366.5(4)	$\langle 19^+ \rangle$	92		8							
2609.1(5)	$\langle 23^- \rangle$						15				
2737.5(6)	$\langle 21^+ \rangle$				100						
2903.0(4)	$\langle 21^+ \rangle$					100					
3111.4(4)	$\langle 23^+ \rangle$								100		
3126.6(4)	$\langle 23^+ \rangle$								100		
3296.1(5)	$\langle 25^- \rangle$						24	76			
3315.3(5)	$\langle 25^+ \rangle$						92			8	
3347.5(5)	$\langle 27^- \rangle$						73			27	
3428.9(6)							100				
3524.2(7)	$\langle 25^+ \rangle$										100
3618.1(5)	$\langle 27^- \rangle$						20			80	

Energy levels and branching ratios [02Bl10, 93Sh01]. Part 4 **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2903.0	3111.4	3126.6	3296.1	3315.3	3347.5	3524.2	3597.8	3618.1	3719.2
[keV]	$2J_f^\pi$:	$\langle 21^+ \rangle$	$\langle 23^+ \rangle$	$\langle 23^+ \rangle$	$\langle 25^- \rangle$	$\langle 25^+ \rangle$	$\langle 27^- \rangle$	$\langle 25^+ \rangle$	$\langle 27^+ \rangle$	$\langle 27^- \rangle$	$\langle 27^+ \rangle$
3597.8(4)	$\langle 27^+ \rangle$		27	9	16	49					
3719.2(5)	$\langle 27^+ \rangle$		47			21			33		
3744.6(5)	$\langle 21^+ \rangle$	100									
3764.2(5)	$\langle 29^+ \rangle$						38		62		
3934.4(5)	$\langle 27^+ \rangle$		57	43							
4173.2(5)	$\langle 29^+ \rangle$					96					

(continued) **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	2903.0	3111.4	3126.6	3296.1	3315.3	3347.5	3524.2	3597.8	3618.1	3719.2
[keV]	$2J_f^\pi$:	$\langle 21^+\rangle$	$\langle 23^+\rangle$	$\langle 23^+\rangle$	$\langle 25^-\rangle$	$\langle 25^+\rangle$	$\langle 27^-\rangle$	$\langle 25^+\rangle$	$\langle 27^+\rangle$	$\langle 27^-\rangle$	$\langle 27^+\rangle$
4299.9(5)	$\langle 31^-\rangle$						100				
4366.2(8)	$\langle 29^+\rangle$							100			
4502.2(5)	$\langle 31^+\rangle$								39		61
4533.0(8)	$\langle 31^-\rangle$						7			93	

Energy levels and branching ratios [02Bl10, 93Sh01]. Part 5 **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	3764.2	4173.2	4299.9	4366.2	4502.2	4533.0	4691.8	4702.9	5014.8	5214.4
[keV]	$2J_f^\pi$:	$\langle 29^+\rangle$	$\langle 29^+\rangle$	$\langle 31^-\rangle$	$\langle 29^+\rangle$	$\langle 31^+\rangle$	$\langle 31^-\rangle$	$\langle 31\rangle$	$\langle 33^+\rangle$	$\langle 35^+\rangle$	$\langle 37^+\rangle$
4173.2(5)	$\langle 29^+\rangle$	4									
4691.8(6)	$\langle 31\rangle$	100									
4702.9(5)	$\langle 33^+\rangle$		100								
5014.8(5)	$\langle 35^+\rangle$					55			45		
5145.2(6)	$\langle 33^+\rangle$	28						72			
5214.4(5)	$\langle 37^+\rangle$								81	19	
5284.3(7)	$\langle 35^-\rangle$			100							
5291.4(9)	$\langle 33^+\rangle$				100						
5378.5(10)	$\langle 35^-\rangle$			7			93				
5878.3(6)	$\langle 39^-\rangle$										x
5924.2(7)	$\langle 39\rangle$										100
6117.1(6)	$\langle 39^-\rangle$										85

Energy levels and branching ratios [02Bl10, 93Sh01]. Part 6 **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	5284.3	5378.5	5878.3	6117.1	6335.1	6532.3	6845.5	7362.2	7821.2	8309.9
[keV]	$2J_f^\pi$:	$\langle 35^-\rangle$	$\langle 35^-\rangle$	$\langle 39^-\rangle$	$\langle 39^-\rangle$	$\langle 37\rangle$	$\langle 43^-\rangle$	$\langle 43^-\rangle$	$\langle 45^+\rangle$	$\langle 47^-\rangle$	$\langle 49^+\rangle$
5878.3(6)	$\langle 39^-\rangle$		100								
6117.1(6)	$\langle 39^-\rangle$			15							
6335.1(8)	$\langle 37\rangle$	100									
6532.3(7)	$\langle 43^-\rangle$			63	37						
6845.5(6)	$\langle 43^-\rangle$			100							
7362.2(7)	$\langle 45^+\rangle$						21	79			
7443.8(8)	$\langle 45\rangle$						100				
7458.8(9)	$\langle 39\rangle$					100					
7594.9(8)	$\langle 45\rangle$						100				
7821.2(7)	$\langle 47^-\rangle$							100			
8309.9(7)	$\langle 49^+\rangle$								83	17	

(continued) **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	5284.3	5378.5	5878.3	6117.1	6335.1	6532.3	6845.5	7362.2	7821.2	8309.9
[keV]	$2J_f^\pi$:	$\langle 35^- \rangle$	$\langle 35^- \rangle$	$\langle 39^- \rangle$	$\langle 39^- \rangle$	$\langle 37 \rangle$	$\langle 43^- \rangle$	$\langle 43^- \rangle$	$\langle 45^+ \rangle$	$\langle 47^- \rangle$	$\langle 49^+ \rangle$
8885.1(8)	$\langle 51 \rangle$										100
9214.6(8)	$\langle 53^+ \rangle$										100

Energy levels and branching ratios [02Bl10, 93Sh01]. Part 7 **$^{117}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage			
	E_f^*:	8885.1	9214.6	296.1-X	
[keV]	$2J_f^\pi$:	$\langle 51 \rangle$	$\langle 53^+ \rangle$		
296.1	$\langle 11^- \rangle$			100	
9574.5(9)	$\langle 55 \rangle$	100			
10426.1(9)	$\langle 55 \rangle$		100		

Energy levels and branching ratios [95Ki07, 02Pa19]. **$^{118}_{52}$Te**

E^*	J^π	σ (τ,n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage							
					E_f^*:	0.0	605.7	957	1151	1206	1482	1703
[keV]		μb/sr	Γ_{cm}		J_f^π:	0^+	2^+	0^+	2^+	4^+	1^+,2^+	$\langle 4 \rangle^+$
0.0	0^+	260	6.00(2) d	78Fi06								
605.706(20)	2^+		8.8(14) ps*			100						
934.2(10)		55		78Fi06			100					
957.48(19)	0^+	incl	55(45) ps	78Fi06		x	100					
1150.82(4)	2^+	incl		78Fi06		21(2)	79(2)					
1163.7(10)							100					
1206.42(3)	4^+		4.4(8) ps*				100					
1482.11(13)	1^+,2^+					9(1)	76(8)	11(1)	3.9(4)			
1517.31(21)	0^+					x	56(5)	x	44(5)			
1661.5(3)							100					
1702.74(6)	$\langle 4 \rangle^+$						13(1)		57(6)	30(3)		
1820.84(4)	6^+									100		
1863.07(17)	$1,2^+$						75(8)	9(1)	16(2)			
1891.92(10)	$\langle 3 \rangle^+$						21(2)		61(6)	19(2)		
1944.51(17)	3^-						95(9)		1.0(1)	4.1(5)		
1976.18(19)	$\langle 4^+ \rangle$						68(7)			32(3)		
2020.57(22)							85(8)		15(2)			
2150.16(4)	$\langle 6 \rangle^+$		3.4(5) ps*							55(2)		8.5(3)
2225.7(4)												
2229.56(19)	$\langle 4 \rangle^+$								18(3)	67(7)		15(1)
2285.3(3)							100					
2322.32(23)									52		48(5)	

(continued) **$^{118}_{52}$Te**

E^*	J^π	σ (τ,n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage						
					E_f^*:	0.0	605.7	957	1151	1206	1482	1703
[keV]		μb/sr	Γ_{cm}		J_f^π:	0^+	2^+	0^+	2^+	4^+	1^+,2^+	$\langle 4\rangle^+$
2352.7(3)							100					
2367.76(8)	$\langle 5\rangle^+$									56(3)		12(2)
2372.8(5)							100					
2422.4(3)												100
2438.1(3)										100		
2500.96(18)							36(3)		43(5)		21(2)	
2517.20(15)	6^+									34(4)		27(2)
2531.6(3)										100		
2571.17(23)										75(7)		
2573.90(5)	8^+		1.2(4) ps*									
2611.5(3)									100			
2622.4(3)							100					
2730.4(3)										100		
2762.1(3)							100					
2813.3(6)									100			
2852.3(3)							100					
2862.7(5)							100					
2914.42(15)	$\langle 6^+\rangle$											
2919.44(8)	$\langle 7\rangle^+$											
2968.10(22)												
2999.44(7)	8^+											
2999.75(9)	$\langle 6^-,7^-\rangle$											
3078.92(16)	$\langle 6^+\rangle$									2.6(3)		
3108.22(19)												
3114.3(3)												
3168.51(22)												
3189.18(9)	$\langle 8^-\rangle$		0.23(8) ns									
3191.6(3)												
3247	8^+											
3253.48(19)									48(5)		30(3)	
3359.92(6)	10^+											
3400.10(6)	$\langle 8^-,9\rangle$											
3438.9(3)									100			
3444.69(6)	10^+		0.87(20) ps*									
3460.44(8)	$\langle 8^-,9\rangle$											
3586.63(9)	$\langle 9\rangle^+$											
3602.2(6)											100	
3679.92(14)	$\langle 8^-,9\rangle$											
3834.61(8)	$\langle 9,10\rangle^+$											
3881.23(10)	$\langle 10^-\rangle$											
3985	10^+											
4138.04(8)	$\langle 10^-,11\rangle$											
4172.00(6)	12^+											
4219.32(12)	12^+		0.40(8) ps*									
4220.52(11)	$\langle 10^-,11\rangle$											

(continued) **$^{118}_{52}$Te**

E^*	J^π	σ (τ,n)	$T_{1/2}$ or	Ref.	Branching ratios in percentage							
					E_f^*:	0.0	605.7	957	1151	1206	1482	1703
[keV]		μb/sr	Γ_{cm}		J_f^π:	0^+	2^+	0^+	2^+	4^+	1^+,2^+	$\langle 4\rangle^+$
4288.43(14)	$\langle 12^-\rangle$											
4347.82(11)	$\langle 11\rangle^+$											
4582.09(12)	$X^{\langle -\rangle}$											
4817	12^+											
4855.73(14)												
4867.67(12)	$\langle 12^-,13\rangle$											
4945.98(8)	14^+											
4964.7(10)												
5122.76(15)	$\langle 14^+\rangle$		0.28(5) ps*									
5346.67(13)												
5544.7(10)												
5599.2(10)												
5721	14^+											
5926	16^+		0.35(14) ps*									
6103	16^+		0.28(9) ps*									
6715.5(10)	18^+		0.28(12) ps*									
6743												
7049	18^+											
7184	18^+											
7615												
7862												
8049												
8423												
8907												
9028												
9536												
9924												
10538												
11851												
		78Fi06		Ref.								

Additional data on this isotope can be found in [02Pa19, 01Pa38, 00Ju01, 00Ha65, 00Gr02, 98Ef04, 90Be50].

* New data for mean time τ from [02Pa19]; see a discussion there on all other τ given in Supplement.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [95Ki07, 02Pa19]. Part 2 **$^{118}_{52}$Te**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	1821	1863.1	1891.9	1944.5	1976.2	2150.2	2229.6	2367.8	2517.2
[keV]		J_f^π:	6^+	$1,2^+$	$\langle 3\rangle^+$	3^-	$\langle 4^+\rangle$	$\langle 6\rangle^+$	$\langle 4\rangle^+$	$\langle 5\rangle^+$	5
2150.16(4)	$\langle 6\rangle^+$		36.3(4)								
2225.7(4)			100								
2367.76(8)	$\langle 5\rangle^+$				31(2)						
2517.20(15)	6^+		30(2)					9(1)			
2571.17(23)						25(1)					
2573.90(5)	8^+		100								
2914.42(15)	$\langle 6^+\rangle$		47(5)				16(1)	35(3)			2.8(4)
2919.44(8)	$\langle 7\rangle^+$		29(5)					35(2)		35(2)	
2968.10(22)			37(4)					63(7)			
2999.44(7)	8^+							100			
2999.75(9)	$\langle 6^-,7^-\rangle$		87(2)					13(3)			
3078.92(16)	$\langle 6^+\rangle$		58(5)					23(2)			
3108.22(19)			56(6)					44(4)	x		
3114.3(3)			100								
3168.51(22)			61(6)					39(5)			
3191.6(3)								100			
3253.48(19)				22(2)							

Energy levels and branching ratios [95Ki07, 02Pa19]. Part 3 **$^{118}_{52}$Te**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	2573.9	2914.4	2919.4	2999.4	2999.7	3189.2	3359.9	3400.1	3444.7
[keV]		J_f^π:	8^+	$\langle 6^+\rangle$	$\langle 7\rangle^+$	8^+	$\langle 6^-,7^-\rangle$	$\langle 8^-\rangle$	10^+	$\langle 8^-,9\rangle$	10^+
3078.92(16)	$\langle 6^+\rangle$			17(2)							
3189.18(9)	$\langle 8^-\rangle$						100				
3359.92(6)	10^+		100								
3400.10(6)	$\langle 8^-,9\rangle$		73(1)			27(3)					
3444.69(6)	10^+		56(2)			44(1)					
3460.44(8)	$\langle 8^-,9\rangle$		48(4)			52(4)					
3586.63(9)	$\langle 9\rangle^+$				100						
3679.92(14)	$\langle 8^-,9\rangle$		100								
3834.61(8)	$\langle 9,10\rangle^+$					100					
3881.23(10)	$\langle 10^-\rangle$							100			
4138.04(8)	$\langle 10^-,11\rangle$									100	
4172.00(6)	12^+								57(2)		43(2)
4219.32(12)	12^+								100		
4220.52(11)	$\langle 10^-,11\rangle$								52(5)		

Energy levels and branching ratios [95Ki07, 02Pa19]. Part 4 **$^{118}_{52}$Te**

E^*	J^π	Branching ratios in percentage										
	E_f^*:	3586.6	3679.9	3881.2	4138.0	4172.0	4219.3	4220.5	4946.0	5346.7	5544.7	
[keV]	J_f^π:	$\langle 9\rangle^+$	$\langle 8^-,9\rangle$	$\langle 10^-\rangle$		12^+	12^+		14^+			
4220.52(11)	$\langle 10^-,11\rangle$		48(3)									
4288.43(14)	$\langle 12^-\rangle$			100								
4347.82(11)	$\langle 11\rangle^+$	100										
4582.09(12)	$X^{\langle -\rangle}$			100								
4855.73(14)								100				
4867.67(12)	$\langle 12^-,13\rangle$				100							
4945.98(8)	14^+					100						
4964.7(10)							x					
5122.76(15)	$\langle 14^+\rangle$						100					
5346.67(13)									100			
5544.7(10)										100		
5599.2(10)									x			
6715.5(10)	18^+									x		
6743											x	

Energy levels and branching ratios [95Ki07, 02Pa19]. Part 5 **$^{118}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	6715.5	6743	7615	7862	8049	8423	8907	9028	9536	10538
[keV]	J_f^π:										
7615			x								
7862		x									
8423				x							
8907					x						
9028						x	x				
9536									x		
9924								x			
10538										x	
11851											x

Energy levels and branching ratios [00Bu19, 00Oh01]. **$^{119}_{52}$Te**

E^*	$2J^\pi$	σ (d,t)	σ (τ,α)	σ (d,t)	C^2S	$S_{\ell j}$	$S_{\ell j}$	L	S_n^-	Ref.
[keV]		μb/sr	μb/sr	μb/sr	(d,t)	(d,t)	(τ, α)		eval	
0.0	1^+	2576	20	181	0.40	0.9	0.6	0	0.9	00Bu19
257.484(21)	3^+	984		220	0.56	1.4		2	1.4	87Ro15
260.96(5)	11^-		1195		$\langle 0.3\rangle$		3.8	5	3.8	87Ro15
320.506(20)	5^+	2247	237	533	1.20	2.7	2.9	2	2.8	87Ro15

(continued) **$^{119}_{52}$Te**

E^* [keV]	$2J^\pi$	σ (d,t) μb/sr	σ (τ,α) μb/sr	σ (d,t) μb/sr	C^2S (d,t)	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	L	S_n^- eval	Ref.
360.39(3)	7^+	370	593	26.8	2.24	6.6	5.3	4	5.9	87Ro15
467.96(4)	9^-		47				⟨0.1⟩			00Oh01
501.10(4)	7^-	133	92	19.7	0.27	0.3		3	0.3	87Ro15
557.17(3)	5^+	287	32	87.6	0.20	0.7	0.3	2	0.5	87Ro15
598.18(21)										00Oh01
635.86(3)	3^+	207	27	45.4	0.12	0.3	⟨0.1⟩	2	0.3	87Ro15
661.27(4)	7^-			1.1	0.02					00Oh01
669.31(4)	7^+	51	96	2.5	0.21	1.0	0.6	4	0.8	87Ro15
703.08(20)	⟨7^+⟩									00Oh01
707.68(5)	1^+	173		11.9	0.03	0.07		0	0.07	87Ro15
723.99(4)	5^+	105	23	26.2	0.06	0.2	0.2	2	0.2	87Ro15
743.08(6)	⟨7⟩$^-$			0.86	0.12					00Bu19
747(20)	⟨3^+,5^+⟩	28			0.03	⟨0.05⟩		⟨2⟩		00Oh01
766.6(2)	⟨7⟩$^-$			5.8	0.09					00Bu19
773.2(5)	⟨5^-⟩	70	47	2.3	0.12	0.2	⟨0.1⟩	3	0.2	87Ro15
813.31(4)	3^+	161	24	33.8	0.09	0.2	0.2	2	0.2	87Ro15
877.45(5)	3^+	43	13	8.8	0.025	0.09	⟨0.07⟩	2		87Ro15
889.07(3)	3^+	incl	incl	2.8	0.008	incl	incl			00Bu19
901.0(6)	⟨5^-⟩			1.2	0.03					00Bu19
901.26(10)	15^-		79							00Oh01
903(20)	⟨3^+,5^+⟩	40				⟨0.05⟩		⟨2⟩		000h01
906(10)										00Oh01
945.92(18)	⟨9^+⟩									00Oh01
957.1(4)				≈3						00Bu19
964.21(4)	5^+	897	177	251	0.59	1.5	1.8	2	1.6	87Ro15
979.96(13)	⟨13^-⟩									00Oh01
984.6(3)	7^+	79	126	2.6	0.19				[1.2]	87Ro15
993.2(4)	5^-	incl	incl	9.5	0.25					00Bu19
1003.99(3)	1^+	496		43.9	0.09	0.3		0	0.3	87Ro15
1055.6(8)	⟨7^+⟩			0.6	0.034					00Bu19
1092.5(7)				0.3						00Bu19
1104.87(9)	⟨7^+,9^+⟩		16				⟨0.1⟩	⟨4⟩		00Oh01
1113.57(3)**	5^+	16		2.8	0.006					87Ro15
1132.1(4)	1^+			0.6	0.002					00Bu19
1154.7(4)	1^-			4.1	0.025					00Bu19
1162.32(9)	7^-,9^-	28								00Oh01
1184.79(6)	5^-,7^+									00Oh01
1189.0(3)	7^+			1.3	0.15					00Bu19
1197.13(6)	5^+	152	69	39.2	0.09	0.4	⟨0.2⟩	2	0.4	87Ro15
1197.71(7)	3^-,5,7		incl				0.3	4	0.3	00Oh01
1201.50(17)	⟨1–5^+⟩									00Oh01
1215.5(3)										00Oh01
1251.0(5)				0.6						00Bu19
1264.3(4)	⟨1^+⟩			0.7	0.001					00Bu19
1277.2(4)	1^+			3.6	0.007					00Bu19

(continued) **$^{119}_{52}$Te**

E^* [keV]	$2J^\pi$	σ (d,t) μb/sr	σ (τ,α) μb/sr	σ (d,t) μb/sr	C^2S (d,t)	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	L	S_n^- eval	Ref.
1280.83(19)	$\langle 11^+ \rangle$									00Oh01
1290.8(5)	1^+			0.7	0.002					00Bu19
1296.1(4)										00Oh01
1361.1(5)	3^+			2.1	0.007					00Bu19
1370.86(6)	3^-,5^+		15	1.2						87Ro15
1373.29(10)			incl							00Oh01
1400.9(4)	7^+			1.1	0.075					00Bu19
1418.0(4)**	7^+		66	3.0	0.109		0.4	4	0.4	87Ro15
1434.0(4)	$\langle 7^+ \rangle$			0.8	0.022					00Bu19
1443(10)	7^+,9^+		29				0.3	4	0.3	00Oh01
1444.6(4)	1^+			14.7	0.024					00Bu19
1505.1(5)	1^+			8.1	0.017					00Bu19
1512.88(7)	$\langle 5^+ \rangle$		18	10.7	0.03		$\langle 0.1 \rangle$	$\langle 2 \rangle$		87Ro15
1528.31(8)	$\langle 1^+$–$5^+ \rangle$		incl							00Oh01
1530.55(3)	$\langle 3 \rangle^+$		incl	1.5	0.004			$\langle 4 \rangle$		87Ro15
1540.2(5)	7^+			0.6	0.05					00Bu19
1586.43(22)	$\langle 13^+ \rangle$									00Oh01
1592.8(4)	3^+			1.9	0.005					00Bu19
1598.67(14)	$\langle 17^- \rangle$									00Oh01
1604(10)	7^+,9^+		15				$\langle 0.1 \rangle$	$\langle 4 \rangle$		00Oh01
1618.96(16)	$\langle 19^- \rangle$									00Oh01
1620.0(5)	1^-			0.3	0.002					00Bu19
1624.25(8)	$3,5^+$									00Oh01
1632.05(15)	$\langle 1$–$5^+ \rangle$									00Oh01
1654.8(5)	3^+,5^+		24	12.3	0.03		$\langle 0.1 \rangle$	$\langle 2 \rangle$		87Ro15
1674.23(4)	$\langle 5^+ \rangle$			2.7	0.008					00Bu19
1680.2(5)	$\langle 5^-$,$7^- \rangle$			3.2	0.08					00Bu19
1705.2(4)	$\langle 7^+$,$9^+ \rangle$		16	0.7	0.04		$\langle 0.2 \rangle$	$\langle 4 \rangle$		87Ro15
1720.0(5)	1^-			1.8	0.011					00Bu19
1729.21(6)	$3,5^+$									00Oh01
1739.05(5)	$3,5^+$									00Oh01
1741.3(5)	$\langle 5^-$,$7^- \rangle$			3.4	0.06					00Bu19
1748(10)	$\langle 7^+$,$9^+ \rangle$		28					$\langle 4 \rangle$		00Oh01
1770.5(5)	5^-,7^-			2.7	0.05					00Bu19
1796.4(8)				0.3						00Bu19
1808.9(5)	1^+			2.7	0.006					00Bu19
1819(10)	$\langle 7^+$,$9^+ \rangle$		17					$\langle 4 \rangle$		00Oh01
1823.7(6)	$\langle 7^- \rangle$			1.2	0.02					00Bu19
1833.8(6)	3^+			1.8	0.005					00Bu19
1834.91(5)	$\langle 5^-$,$7^+ \rangle$									00Oh01
1863.9(11)	1^-			1.0	0.006					00Bu19
1877.1(9)	1^+			10.9	0.02					00Bu19
1888(10)	$\langle 3^+$,$5^+ \rangle$		26					$\langle 2 \rangle$		00Oh01
1889.0(5)										00Oh01
1892.3(9)	7^+,9^+			0.7	0.03					00Bu19

(continued) **$^{119}_{52}$Te**

E^* [keV]	$2J^\pi$	σ (d,t) μb/sr	σ (τ,α) μb/sr	σ (d,t) μb/sr	C^2S (d,t)	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	L	S_n^- eval	Ref.
1910.3(10)	$\langle 1^- \rangle$			0.3	0.002					00Bu19
1924(10)	$\langle 7^+,9^+ \rangle$		21					$\langle 4 \rangle$		00Oh01
1939.83(24)	$\langle 15^+ \rangle$									00Oh01
1936.4(10)	$\langle 5 \rangle^+$			1.9	0.04					00Bu19
1969(10)	$\langle 7^+,9^+ \rangle$		16					$\langle 4 \rangle$		00Oh01
1973.6(10)	1^+			0.3	0.000					00Bu19
1999(2)										
2005(2)										
2010(10)	$\langle 7^+,9^+ \rangle$		19					$\langle 4 \rangle$		00Oh01
2014.5(10)	$\langle 1^+ \rangle$			0.4	0.001					00Bu19
2024.55(15)	3^+–7^+									00Oh01
2048.3(10)	1^+			2.0	0.003					00Bu19
2059.1(8)	1^-			0.6	0.003					00Bu19
2075.5(8)	7^+			0.6	0.06					00Bu19
2078.45(7)	$3^+,5^+$									00Oh01
2081(10)	$\langle 7^+,9^+ \rangle$		27					$\langle 4 \rangle$		00Oh01
2089.6(8)	1^+			1.9	0.000					00Bu19
2101.87(15)	$\langle 21^- \rangle$									00Oh01
2105.95(5)	3^+–7^+									00Oh01
2113.09(10)	3^+–7^+									00Oh01
2138.4(9)	$\langle 3^+ \rangle$			1.0	0.012					00Bu19
2153.4(9)	1^-			1.4	0.004					00Bu19
2217.5(12)	$\langle 7^+ \rangle$		27	0.8	0.05			$\langle 4 \rangle$		87Ro15
2239.0(9)	3^+			3.2	0.009					00Bu19
2254(2)	1^+			0.8	0.001					00Bu19
2266.8(9)**	3^+			3.8	0.007					00Bu19
2272.46(17)	$\langle 23^- \rangle$									00Oh01
2276(10)	$\langle 7^+,9^+ \rangle$		30					$\langle 4 \rangle$		00Oh01
2302.77(18)	$23^-,25^-$									00Oh01
2325.8(9)	$\langle 3^+ \rangle$			1.5	0.004					00Bu19
2346.0(8)	3^+			8.3	0.023					00Bu19
2347(10)	$\langle 7^+,9^+ \rangle$		39					$\langle 4 \rangle$		00Oh01
2376.5(9)	3^+			6.5	0.013					00Bu19
2389.1(9)	$3^+,5^+$		31	1.9	0.005			$\langle 2 \rangle$		87Ro15
2405.0(9)	3^-			1.0	0.003					00Bu19
2418.4(12)	1^+			0.7	0.001					00Bu19
2466.5(9)	3^+			1.6	0.005					00Bu19
2480.0(9)	3^-			1.5	0.003					00Bu19
2506.2(12)				0.6						00Bu19
2518.8(10)	$3^+,5^+$			4.6	0.011					00Bu19
2629.12(21)	$\langle 23^- \rangle$									00Oh01
3006.8(4)	$\langle 25^- \rangle$									00Oh01
3010.1(6)										00Oh01
3181.12(23)	$\langle 25^- \rangle$									00Oh01
3348.21(24)	$\langle 27^- \rangle$									00Oh01

(continued) **$^{119}_{52}$Te**

E^* [keV]	$2J^\pi$	σ (d,t) μb/sr	σ (τ,α) μb/sr	σ (d,t) μb/sr	C^2S (d,t)	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	L	S_n^- eval	Ref.
3381.9(3)	⟨27⟩									00Oh01
3623.83(25)	⟨27$^-$⟩									00Oh01
3668.5(5)	⟨29$^-$⟩									00Oh01
3762.7(4)	⟨27$^-$⟩									00Oh01
3804.8(5)	⟨29⟩									00Oh01
4378.4(3)	⟨31$^-$⟩									00Oh01
4449.4(6)	⟨33$^-$⟩									00Oh01
4571.95(25)	⟨31$^-$⟩									00Oh01
4669.5(9)										00Oh01
4730.3(8)										00Oh01
5032.1(8)	⟨37$^-$⟩									00Oh01
5254.4(3)	⟨35$^-$⟩									00Oh01
5446.8(4)	⟨39$^-$⟩									00Oh01
5449.3(11)	⟨41⟩									00Oh01
6003.9(6)	⟨43$^-$⟩									00Oh01
6054.1(8)										00Oh01
6466.9(7)	⟨45$^-$⟩									00Oh01
6513.2(6)	⟨41$^-$⟩									00Oh01
6727.7(7)	⟨43$^-$⟩									00Oh01
6828.4(4)	⟨43$^-$⟩									00Oh01
6936.4(5)	⟨45$^-$⟩									00Oh01
6952.8(10)	⟨47$^-$⟩									00Oh01
7025.3(7)	⟨43$^-$⟩									00Oh01
7258.6(7)										00Oh01
7360.1(8)	⟨45$^-$⟩									00Oh01
7654.4(6)	⟨47$^-$⟩									00Oh01
7936.4(8)										00Oh01
7962.2(7)	⟨45$^-$⟩									00Oh01
8062.2(8)										00Oh01
8354.6(6)										00Oh01
8636.5(7)	⟨47$^-$⟩									00Oh01
9067.7(8)										00Oh01
9383.4(9)	⟨51$^-$⟩									00Oh01
9555.5(10)										00Oh01
9698.7(9)	⟨55$^-$⟩									00Oh01
		87Ro15	87Ro15	00Bu19	00Bu19	87Ro15	87Ro15		87Ro15	Ref.

Additional data on this isotope can be found in [01Vo0A, 95Si10, 90Ma55].

* Other branching ratios and their comparison with theoretical models are given in [00Bu19].

** Effects in (d,t) reaction [00Bu19] have admixture of other partial wave.

The first two data columns correspond to results for the reaction (d,t) (I_{dt} and C^2S)obtained in [00Bu19], the second column of C^2S contains given in [00Bu19] average values from the (d,t) and (τ,α) reactions obtained in [87Ro15].

The following $T_{1/2}$ were given [00Oh01] for the energy levels: 16.05(5) hours for the ground state, 4.70(4) days for E^*=261 keV and 2.2(2) ns for E^*=320 keV.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 2 **$^{119}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage							
		E_f^*:	0.0	257.5	260.9	320.5	360.4	468.0	501.1	557.2
[keV]		$2J_f^\pi$:	1^+	3^+	11^-	5^+	7^+	9^-	7^-	3^+,5^+
257.484(21)	3^+		100							
320.506(20)	5^+		67(3)*	33(1)						
360.39(3)	7^+					100				
467.96(4)	9^-				100					
501.10(4)	7^-				100					
557.17(3)	5^+		97(5)	3(1)						
598.18(21)				100						
635.86(3)	3^+		80(3)	12(1)		7.5(3)				0.34(16)
661.27(4)	7^-					63(3)	7.3(10)	12.3(15)	17.0(12)	
669.31(4)	7^+			8.4(7)		74(4)	17.8(10)			
703.08(20)	$\langle 7^+ \rangle$					100				
707.68(5)	1^+		100							
723.99(4)	5^+		12(2)	3(1)		60(4)	25.2(12)			
743.08(6)	$\langle 7 \rangle^-$				21(2)		54(4)	25(3)		
766.6(2)	$\langle 7 \rangle^-$				64(17)			36(3)		
773.2(5)	$\langle 5^- \rangle$			100						
813.31(4)	3^+		65(3)	35(2)						
877.45(5)	3^+			43(5)		57(5)				
889.07(3)	3^+		8.8(5)	55(3)		17(1)	7.4(8)			3.0(8)
901.26(10)	15^-				100					
945.92(18)	$\langle 9^+ \rangle$					86(3)				
964.21(4)	5^+		7.0(6)	66(4)		14(3)				7.5(5)
979.96(13)	$\langle 13^- \rangle$				65(6)			35(2)		
1003.99(3)	1^+		54(3)	17(1)		19(1)				9.5(6)
1104.87(9)	$\langle 7^+,9^+ \rangle$								100	
1113.57(3)**	5^+		8(1)	10(1)		15(1)	18(1)		22(1)	
1162.32(9)	7^-,9^-				23(5)				31(5)	
1184.79(6)	5^-,7^+			9(2)		52(6)		39(4)		
1197.13(6)	5^+		12.0(22)	88(4)						
1197.71(7)	3^-,5,7					83(5)			17(17)	
1201.50(17)	$\langle 1$–$5^+ \rangle$		26(6)							
1215.5(3)								100		
1370.86(6)	3^-,5^+					41(5)			39(4)	
1373.29(10)				72(9)						
1444.6(4)	1^+		32(5)	28(8)			20(4)			
1512.88(7)	$\langle 5^+ \rangle$			31(3)			22(3)			47(4)
1530.55(3)	$\langle 3 \rangle^+$		4.4(3)	12(1)		15(1)				41(2)
1624.25(8)	3,5^+		37(6)			28(9)				
1632.05(15)	$\langle 1$–$5^+ \rangle$		47(5)	53(12)						
1674.23(4)	$\langle 5^+ \rangle$		5(1)			34(2)				4(2)
1729.21(6)	3,5^+		31(4)							
1739.05(5)	3,5^+			13(2)		54(3)				
1834.91(5)	$\langle 5^-,7^+ \rangle$			7.6(11)		45(3)		14.0(11)		5.9(9)
2024.55(15)	3^+–7^+			47(6)			53(8)			
2078.45(7)	3^+,5^+			15(3)			21(3)			

(continued) **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage							
	E_f^*:	0.0	257.5	260.9	320.5	360.4	468.0	501.1	557.2
[keV]	$2J_f^\pi$:	1^+	3^+	11^-	5^+	7^+	9^-	7^-	3^+,5^+
2105.95(5)	3^+–7^+				29(2)				34(2)
2113.09(10)	3^+–7^+		16(3)		12(3)				16(4)

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 3 **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage							
	E_f^*:	635.9	661.3	669.3	703.1	707.7	724.0	771.7	813.3
[keV]	$2J_f^\pi$:	5^+	7^-	7^+	$\langle 7^+ \rangle$	1^+	3^+,5^+	5^-	3^+,5^+
889.07(3)	3^+	9(2)							
945.92(18)	$\langle 9^+ \rangle$				14.3(12)				
964.21(4)	5^+			6.2(5)					
993.2(4)	5^-			100					
1003.99(3)	1^+						0.8(4)		
1113.57(3)**	5^+	6(1)	7(1)	2.5(4)			12(1)		
1162.32(9)	7^-,9^-			47(23)					
1201.50(17)	$\langle 1$–$5^+ \rangle$					74(37)			
1280.83(19)	$\langle 11^+ \rangle$				69(3)				
1296.1(4)								x	
1370.86(6)	3^-,5^+					20(3)			
1444.6(4)	1^+						21(7)		
1528.31(8)	$\langle 1^+$–$5^+ \rangle$					31(10)			
1530.55(3)	$\langle 3 \rangle^+$			2.8(3)		4.1(7)	7.3(5)		
1674.23(4)	$\langle 5^+ \rangle$	13(1)				15(3)			5(1)
1739.05(5)	$3,5^+$	22(2)							
1834.91(5)	$\langle 5^-$,$7^+ \rangle$	8.4(11)							
2078.45(7)	3^+,5^+					52(1)			
2105.95(5)	3^+–7^+	13(1)		10(1)			6(1)		
2113.09(10)	3^+–7^+	18(5)		37(6)					

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 4 **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage							
	E_f^*:	877.4	889.1	901.3	945.9	964.2	979.9	1004.0	1113.6
[keV]	$2J_f^\pi$:		3^+,5^+	15^-	$\langle 9^+ \rangle$	3^+,5^+	$\langle 13^- \rangle$	1^+	5^+
1280.83(19)	$\langle 11^+ \rangle$				31(3)				
1373.29(10)			28(3)						
1528.31(8)	$\langle 1^+$–$5^+ \rangle$							42(4)	27(6)
1530.55(3)	$\langle 3 \rangle^+$	2.1(3)				2.4(4)		5.7(4)	2.3(4)
1586.43(22)	$\langle 13^+ \rangle$				82(12)				

(continued) **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	877.4	889.1	901.3	945.9	964.2	979.9	1004.0	1113.6
[keV]	$2J_f^\pi$:		$3^+,5^+$	15^-	$\langle 9^+\rangle$	$3^+,5^+$	$\langle 13^-\rangle$	1^+	5^+
1598.67(14)	$\langle 17^-\rangle$			28(3)			72(2)		
1618.96(16)	$\langle 19^-\rangle$			100					
1624.25(8)	$3,5^+$					34(3)			
1674.23(4)	$\langle 5^+\rangle$		9(1)			15(15)			
1729.21(6)	$3,5^+$		18(3)					27(5)	24(5)
1739.05(5)	$3,5^+$							11(3)	
1834.91(5)	$\langle 5^-,7^+\rangle$	13.2(11)	6.2(9)						
2078.45(7)	$3^+,5^+$							12(3)	
2105.95(5)	3^+–7^+		8(1)						

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 5 **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1280.8	1296.1	1586.4	1598.7	1619.0	2101.9	2272.5	2629.1	3006.8	3181.1
[keV]	$2J_f^\pi$:	$\langle 11^+\rangle$		$\langle 13^+\rangle$	$\langle 17^-\rangle$	$\langle 19^-\rangle$	$\langle 21^-\rangle$	$\langle 23^-\rangle$	$\langle 23^-\rangle$	$\langle 25^-\rangle$	$\langle 25^-\rangle$
1586.43(22)	$\langle 13^+\rangle$	18(2)									
1939.83(24)	$\langle 15^+\rangle$	78(7)		22(4)							
2101.87(15)	$\langle 21^-\rangle$				51(4)	48.8(13)					
2272.46(17)	$\langle 23^-\rangle$					75(3)	25(1)				
2302.77(18)	$23^-,25^-$						100				
2629.12(21)	$\langle 23^-\rangle$					68(7)	12(2)	20(4)			
3006.8(4)	$\langle 25^-\rangle$						83(17)	17(6)			
3010.1(6)							100				
3181.12(23)	$\langle 25^-\rangle$						55(5)	26(5)	20(4)		
3348.21(24)	$\langle 27^-\rangle$							90(9)	10(2)		
3381.9(3)	$\langle 27\rangle$										100
3623.83(25)	$\langle 27^-\rangle$								93(9)		7(2)
3668.5(5)	$\langle 29^-\rangle$									88(18)	6(6)
3762.7(4)	$\langle 27^-\rangle$								100		

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 6 **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	3348.2	3381.9	3623.8	3668.5	3762.7	3804.8	4378.4	4449.4	4571.9	4730.3
[keV]	$2J_f^\pi$:	$\langle 27^-\rangle$	$\langle 27\rangle$	$\langle 27^-\rangle$	$\langle 29^-\rangle$	$\langle 27^-\rangle$	$\langle 29\rangle$	$\langle 31^-\rangle$	$\langle 33^-\rangle$	$\langle 31^-\rangle$	
3668.5(5)	$\langle 29^-\rangle$		6(6)								
3804.8(5)	$\langle 29\rangle$		100								
4378.4(3)	$\langle 31^-\rangle$	100									
4449.4(6)	$\langle 33^-\rangle$				100						

(continued) **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	3348.2	3381.9	3623.8	3668.5	3762.7	3804.8	4378.4	4449.4	4571.9	4730.3
[keV]	$2J_f^\pi$:	$\langle 27^- \rangle$	$\langle 27 \rangle$	$\langle 27^- \rangle$	$\langle 29^- \rangle$	$\langle 27^- \rangle$	$\langle 29 \rangle$	$\langle 31^- \rangle$	$\langle 33^- \rangle$	$\langle 31^- \rangle$	
4571.95(25)	$\langle 31^- \rangle$	46(5)		39(4)		9(3)	2(2)	5(2)			
4669.5(9)							100				
4730.3(8)									x		
5032.1(8)	$\langle 37^- \rangle$								100		
5254.4(3)	$\langle 35^- \rangle$							48(5)		52(5)	
6054.1(8)											x

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 7 **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	5032.1	5254.4	5446.8	6003.9	6054.1	6466.9	6513.2	6727.7	6828.4	6936.4
[keV]	$2J_f^\pi$:	$\langle 37^- \rangle$	$\langle 35^- \rangle$	$\langle 39^- \rangle$	$\langle 43^- \rangle$		$\langle 45^- \rangle$	$\langle 41^- \rangle$	$\langle 43^- \rangle$	$\langle 43^- \rangle$	$\langle 45^- \rangle$
5446.8(4)	$\langle 39^- \rangle$		100								
5449.3(11)	$\langle 41 \rangle$	100									
6003.9(6)	$\langle 43^- \rangle$			100							
6466.9(7)	$\langle 45^- \rangle$				100						
6513.2(6)	$\langle 41^- \rangle$			100							
6727.7(7)	$\langle 43^- \rangle$			x							
6828.4(4)	$\langle 43^- \rangle$			100							
6936.4(5)	$\langle 45^- \rangle$					x	x	x	x	x	
6952.8(10)	$\langle 47^- \rangle$						100				
7025.3(7)	$\langle 43^- \rangle$			100							
7258.6(7)										x	
7360.1(8)	$\langle 45^- \rangle$							100			
7654.4(6)	$\langle 47^- \rangle$									73(14)	x
7962.2(7)	$\langle 45^- \rangle$									x	
8062.2(8)										x	
8636.5(7)	$\langle 47^- \rangle$									x	

Energy levels and branching ratios [00Bu19, 00Oh01]. Part 8 **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	7025.3	7258.6	7654.4	7936.4	7962	8355	8636	9068	9383	9555
[keV]	$2J_f^\pi$:	$\langle 43^- \rangle$		$\langle 47^- \rangle$		$\langle 45^- \rangle$		$\langle 47^- \rangle$		$\langle 51^- \rangle$	
7654.4(6)	$\langle 47^- \rangle$	27(14)	x								
7936.4(8)		100									
8354.6(6)				78(16)	22(7)	x					
8636.5(7)	$\langle 47^- \rangle$					x					
9067.7(8)							100				

(continued) **$^{119}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	7025.3	7258.6	7654.4	7936.4	7962	8355	8636	9068	9383	9555
[keV]	$2J_f^\pi$:	$\langle 43^- \rangle$		$\langle 47^- \rangle$		$\langle 45^- \rangle$		$\langle 47^- \rangle$		$\langle 51^- \rangle$	
9383.4(9)	$\langle 51^- \rangle$							x			
9555.5(10)									x		
9698.7(9)	$\langle 55^- \rangle$								x	x	x

Energy levels and branching ratios [02Ki17]. **$^{120}_{52}$Te**

E^*	J^π	L	σ (τ,n)	L	σ (p,t)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
								E_f^*:	0.0	560	1103	1162	1201
[keV]		(τ,n)	μb/sr	(p,t)	*rel.*	Γ_{cm}		J_f^π:	0^+	2^+	0^+	4^+	2^+
0.0	0^+	0	190			Stable	78Fi06						
560.438(20)	2^+	2	20			9.3(19) ps	78Fi06		100				
1103.10(16)	0^+	0	35	$\langle 4 \rangle$			78Fi06		x	100			
1161.56(3)	4^+									100			
1201.27(5)	2^+								21(2)	79(4)			
1535.08(8)	2^+								46(4)	42(4)	9(2)		2.3(4)
1613.4(10)	0^+	0	41				78Fi06		x	100	x		
1776.23(5)	6^+											100	
1815.12(6)	4^+									15(3)		46(3)	40(12)
1863.29(10)	3^+									39(4)		16(3)	45(4)
1924.40(6)	2^+									63(6)		37(3)	
1936.6(4)													100
2083.06(21)	3^-			3	18*		76Ma21			94(7)		3.2(7)	2.4(5)
2201.48(5)	6^+											60(3)	
2358.0(3)												100	
2423.1												100	
2428.1(7)													
2445.6												100	
2455.8(3)	1^+								50(5)	18(3)			21(4)
2461.37(11)	3^-–5^-											100	
2519.90(6)	6^+											13(5)	
2567.3(3)	3^-–5^-											100	
2612.8(5)	2^+								31(6)			55(11)	
2652.97(6)	8^+												
2689.9(10)	$\langle 2^+ \rangle$									100			
2748.5(10)	$\langle 2^+ \rangle$									100			
2807.3(3)													
2835.34(9)	$\langle 8^+ \rangle$												
2877.63(13)	$\langle 6 \rangle^-$												
2899.20(7)	$\langle 7 \rangle^-$												
2936.8(4)	2^+									28(3)		28(3)	
2940.28(7)	$\langle 7 \rangle^+$												
2964.2(5)	2^+,3^+									72(7)			

(continued) **$^{120}_{52}$Te**

E^*	J^π	L	σ (τ,n)	L	σ (p,t)	$T_{1/2}$ or	Ref.	Branching ratios in percentage				
								E_f^*:	0.0	560	1103	1162	1201
[keV]		(τ,n)	μb/sr	(p,t)	*rel.*	Γ_{cm}		J_f^π:	0^+	2^+	0^+	4^+	2^+
3030.56(8)	$\langle 7\rangle^-$												
3036.3(10)	$\langle 4^+\rangle$											100	
3039.26(7)	$\langle 8\rangle^+$												
3052.2(7)	2,3									40(4)			
3122.7(4)													
3130.85(9)	$\langle 9\rangle^+$												
3136.1(10)	$\langle 2,3\rangle^+$												
3142.17(7)	$\langle 8^-\rangle$												
3163.0(20)	1^+–3^+									100			
3255.9(15)	$3,4^+$											100	
3286.2(5)	$\langle 2,3\rangle^+$												
3341.6(10)	2^+,3											100	
3364.30(7)	$\langle 10^+\rangle$												
3366.4(6)	1,2,3												74(16)
3371.7(15)	2^+									100			
3374.20(8)	$\langle 9^-\rangle$												
3399.74(8)	$\langle 9^-\rangle$												
3487.41(10)	$\langle 10^+\rangle$												
3493.9(5)	2^+									40(8)			
3543.59(9)	$\langle 10^+\rangle$												
3567.27(12)													
3665.9(5)	$\langle 2,3\rangle^+$												88(9)
3672.1(6)													
3765.7(10)	$\langle 2^+,3^+\rangle$												100
3813.61(9)	$\langle 10^-\rangle$												
3881.49(12)	11^+												
3886.8(11)	$\langle 2^+,3^+\rangle$												
4086.39(9)	$\langle 11^-\rangle$												
4092.91(9)	$\langle 12^+\rangle$												
4459.79(13)	$\langle 12^+\rangle$												
4503.26(11)	$\langle 12^-\rangle$												
4815.3													
4818.72(13)	$\langle 14^+\rangle$												
5345.12(16)	$\langle 16^+\rangle$												
6039.1(6)													
			78Fi06		76Ma21		Ref.						

Additional data on this isotope can be found in [00Va31, 00Ha65, 00Gr02, 90Be50].

* The relative cross section is given with summation from 7,5° to 50°, which is normalized to the 7^- state transition in $^{130}Te(p,t)$ reaction [76Ma21].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [02Ki17]. Part 2 **$^{120}_{52}$Te**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	1535.1	1613.4	1776.2	1815.1	1863.3	1924.4	2083.1	2201.5	2428.1
[keV]		J_f^π:	2^+	0^+	6^+	4^+	3^+	2^+	3^-	6^+	
2201.48(5)	6^+				33(1)	7(1)					
2428.1(7)					100						
2455.8(3)	1^+		6(1)					5(1)			
2519.90(6)	6^+				55(3)	32(2)					
2612.8(5)	2^+						12(3)		1.7(3)		
2652.97(6)	8^+				100						
2807.3(3)					100						
2835.34(9)	$\langle 8^+ \rangle$				100					x	
2877.63(13)	$\langle 6 \rangle^-$				x						
2899.20(7)	$\langle 7 \rangle^-$				100						
2936.8(4)	2^+		18(4)	x			20(4)		6(1)		
2940.28(7)	$\langle 7 \rangle^+$				100						
2964.2(5)	$2^+,3^+$						28(5)				
3030.56(8)	$\langle 7 \rangle^-$				100						
3039.26(7)	$\langle 8 \rangle^+$									100	
3052.2(7)	2,3								60(6)		
3122.7(4)					97(7)					<22	3(1)
3136.1(10)	$\langle 2,3 \rangle^+$		100								
3286.2(5)	$\langle 2,3 \rangle^+$						100				
3366.4(6)	1,2,3								26(5)		
3493.9(5)	2^+								60(6)		

Energy levels and branching ratios [02Ki17]. Part 3 **$^{120}_{52}$Te**

E^*	J^π		Branching ratios in percentage								
		E_f^*:	2461.4	2652.9	2835.3	2899.2	2936.8	2940.3	3030.6	3039.3	3130.8
[keV]		J_f^π:		8^+	$\langle 8^+ \rangle$	$\langle 7 \rangle^-$	2^+	$\langle 7 \rangle^+$	$\langle 7 \rangle^-$	$\langle 8 \rangle^+$	$\langle 9 \rangle^+$
2877.63(13)	$\langle 6 \rangle^-$		100								
3130.85(9)	$\langle 9 \rangle^+$				100						
3142.17(7)	$\langle 8^- \rangle$					35(1)		20(1)	45(2)		
3364.30(7)	$\langle 10^+ \rangle$			17(2)						83(2)	
3374.20(8)	$\langle 9^- \rangle$			100							
3399.74(8)	$\langle 9^- \rangle$			100							
3487.41(10)	$\langle 10^+ \rangle$										100
3543.59(9)	$\langle 10^+ \rangle$			100							
3567.27(12)				100							
3665.9(5)	$\langle 2,3 \rangle^+$						12(3)				
3672.1(6)							100				
3886.8(11)	$\langle 2^+,3^+ \rangle$						100				

Energy levels and branching ratios [02Ki17]. Part 4 **$^{120}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	3142	3364	3374.2	3399.7	3487.4	3543.6	3813.6	4086.4	4092.9
[keV]	J_f^π:	$\langle 8^- \rangle$	$\langle 10^+ \rangle$	$\langle 9^- \rangle$	$\langle 9^- \rangle$	$\langle 10^+ \rangle$	$\langle 10^+ \rangle$	$\langle 10^- \rangle$	$\langle 11^- \rangle$	$\langle 12^+ \rangle$
3813.61(9)	$\langle 10^- \rangle$	100								
3881.49(12)	11^+					100				
4086.39(9)	$\langle 11^- \rangle$			48(8)	30(3)		22(4)			
4092.91(9)	$\langle 12^+ \rangle$		100							
4459.79(13)	$\langle 12^+ \rangle$						100			
4503.26(11)	$\langle 12^- \rangle$							100		
4815.3									x	
4818.72(13)	$\langle 14^+ \rangle$									100

Energy levels and branching ratios [02Ki17]. Part 5 **$^{120}_{52}$Te**

E^*	J^π	Branching ratios in percentage		
		E_f^*:	4818.7	5345.1
[keV]		J_f^π:	$\langle 14^+ \rangle$	$\langle 16^+ \rangle$
5345.12(16)	$\langle 16^+ \rangle$		100	
6039.1(6)				x

Energy levels and branching ratios [00Bu15, 00Ta03]. **$^{121}_{52}$Te**

E^*	$2J^\pi$	L	$G_{\ell j}$	σ (d,p)	R	I_{dt}	C^2S	C^2S	σ (τ,α)	Ref.
[keV]		(d,p)	(d,p)	μb/sr	(p,d)	μb/sr	(d,t)	(τ,α)	μb/sr	
0.0	1^+	0	0.58	2300	7.4	239.1	1.08	0.67		77Fe16
212.194(17)	3^+	2	1.3	1100	2.3	215.0	0.54	1.24		77Fe16
293.991(22)	11^-	5	2.4	250	0.7	17.5	2.22	2.68		77Fe16
438.54(5)	$\langle 9 \rangle^-$				1.9	<1.7	0.084			82Ga18
443.06(3)	7^+				incl	32.6	1.92	2.40		77Fe16
475.243(23)	5^+	2	0.50	470	2.4	302.2	0.59	1.44		77Fe16
532.052(24)	3^+	2	0.50	480	3.0	49.2	0.11			82Ga18
538.70(5)	$\langle 7^- \rangle$				incl	16.6	0.21			00Ta03
594.490(25)	5^+					261.0	0.54	1.10		00Bu15
614(5)	$3^+,5^+$				2.3					00Ta03
660(20)										00Ta03
681.29(6)	1^+	0	0.11	530		20.4	0.078			00Bu15
683.05(3)	$\langle 7 \rangle^+$		incl	incl		3.4	0.19			00Bu15
698(10)	$3^+,5^+$				2.5					00Ta03
757.96(6)	$\langle 5 \rangle^+$					1.6	0.0033			00Bu15
806.69(5)	3^+					42.7	0.11			00Bu15
809(5)	$3^+,5^+$	2	0.19	210						00Ta03

(continued) **$^{121}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$G_{\ell j}$ (d,p)	σ (d,p) μb/sr	R (p,d)	$I_{\rm dt}$ μb/sr	C^2S (d,t)	C^2S (τ, α)	σ (τ,α) μb/sr	Ref.
810.91(3)	$\langle 5^+,7^+\rangle$									00Ta03
827(5)	$3^+,5^+$				2.5					00Ta03
830.48(10)	$\langle 9\rangle^+$				incl					00Ta03
887.68(5)	$\langle 7^+\rangle$					0.45				00Ta03
912.22(4)	5^+					75.0	0.15			00Bu15
923(6)										00Ta03
925.7(7)	$\langle 5\rangle^-$					17.3	0.26			
925.75(10)	$\langle 15\rangle^-$									00Ta03
941.0(8)	$3^+,5^+$				2.6	0.91	0.002	0.4,0.3		82Ga18
970(20)										00Ta03
975.65(9)	$\langle 13\rangle^-$									00Ta03
994.01(4)	$3^+,5^+$					3.5	0.008			00Bu15
1018.44(15)	$\langle 9^-,11^-\rangle$				1.9	1.4	≈0.05			82Ga18
1080.24(10)	$\langle 11^+\rangle$					0.30				00Ta03
1043.0(5)	5^+					1.7	0.0036			00Bu15
1050.7(6)	$\langle 5\rangle^-$					0.60	0.011			00Bu15
1079.0(6)	$\langle 11\rangle^+$					0.30				00Bu15
1108.2(10)	1^+					0.98	0.0037			00Bu15
1119.4(6)	7^+					5.8	0.38			00Bu15
1148.64(4)	5^+	2	0.17	180		14.8	0.29	0.6		00Ta03
1161.6(5)	$\langle 7^+,9^+\rangle$					<1.2	0.03			00Bu15
1170.19(6)					2.2					00Ta03
1171.08(19)	$\langle 9^+\rangle$									00Ta03
1172.86(5)	$3^+,5^+$					3.7	0.008			00Ta03
1179.50(14)	$\langle 11^-\rangle$									00Ta03
1185.58(10)										00Ta03
1208.05(10)	$\langle 11^+\rangle$									00Ta03
1226.88(3)	5^+					15.4	0.031			00Bu15
1251.5(7)	1^+	0	0.04	160	4.6	40.8	0.20			82Ga18
1281.5(6)	1^-	1	0.04	200		1.9	0.048			00Bu15
1305.7(6)	3^+					6.0	0.016			00Bu15
1324.65(12)	$\langle 3^+,5^+\rangle$							0.3,0.2		00Ta03
1340.0(5)	5^+	$\langle 2\rangle$	0.06			77.1	0.16			00Bu15
1363.96(4)	$3^+,5^+$	$\langle 2\rangle$	0.06	96	2.5	4.3	0.010	0.3,0.2		82Ga18
1388.6(6)						≤0.30				00Bu15
1400.2(7)	5^-	1	0.02			1.2	0.017			00Bu15
1410.6	$\langle 5^-,7^-\rangle$					0.68	0.011			00Bu15
1419.41(12)	$\langle 13^+\rangle$									00Ta03
1437.18(6)										00Ta03
1449(2)*	$5^{\langle+\rangle}$					1.5	≈0.11			00Bu15
1473.2(3)	$\langle 11^+\rangle$				1.3					00Ta03
1487.0(6)	$\langle 3\rangle^+$				incl	3.6	0.010			00Bu15
1505.0(6)						0.31				00Bu15
1517.2(5)	5^-				3.4	4.2	0.063			82Ga18
1540.19(13)					incl					00Ta03

(continued) **$^{121}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$G_{\ell j}$ (d,p)	σ (d,p) μb/sr	R (p,d)	$I_{\rm dt}$ μb/sr	C^2S (d,t)	C^2S (τ,α)	σ (τ,α) μb/sr	Ref.
1551.2(6)	1^-					0.47	0.0064			00Bu15
1575.8(5)	3^+,5^+				1.7	2.9	0.006			82Ga18
1591.0(5)	5^-				incl	0.43	0.0064			00Bu15
1599.78(12)	$\langle 17^-\rangle$									00Ta03
1607.4(4)	$\langle 13^+\rangle$									00Ta03
1626.37(6)	7^-					2.0	0.020			00Bu15
1641.6(6)	$\langle 11^-\rangle$						≈0.10			00Bu15
1654.47(13)	$\langle 19\rangle^-$									00Ta03
1657.2(8)*	$\langle 5^-\rangle$					5.6	0.11			00Bu15
1669(10)	7^+,9^+				1.4					82Ga18
1681.03(5)	1^+					1.7	0.0084			00Bu15
1693.4(5)	5^+					9.4	0.019			00Bu15
1703.0(6)	7^+,9^+				2.2	0.54	0.035			82Ga18
1711.83(13)	$\langle 15^+\rangle$									00Ta03
1730.71(5)	3,5^+									00Ta03
1739.6(6)						0.43				00Bu15
1754.5(5)	1^+					8.9	0.036			00Bu15
1769.4(6)	$\langle 11\rangle^-$					<0.5	0.019			00Bu15
1771(10)	3^+,5^+				3.7					00Ta03
1789.3(3)	$\langle 13^+\rangle$									00Ta03
1806.0(7)	1^-	1	0.12	540		0.47	0.017			00Bu15
1806.76(21)	$\langle 15^+\rangle$									00Ta03
1823.5(3)	$\langle 17^-\rangle$									00Ta03
1824.2(7)	$\langle 9\rangle^-$					≤0.3	0.029			00Bu15
1832.0(5)	$\langle 9^-$,$11^-\rangle$					1.1	≈0.08			00Bu15
1841.6(6)	3^+	2	0.08	95		5.1	0.012			00Bu15
1853.50(17)	1^+				2.2	12.6	0.055			82Ga18
1869.6(5)	1^-					2.2	0.044			00Bu15
1879.5(6)	3^+					1.9	0.0047			00Bu15
1886.8(6)	1^-					≈0.8	0.0095			00Bu15
1900.0(7)	3^+,5^+					3.7	0.008			00Bu15
1913.23(12)										00Ta03
1920.1(5)	3^+				2.1	3.2	0.0078			82Ga18
1943(6)										00Ta03
1953.1(5)	1^+					8.2	0.037			00Bu15
1973.2(5)	3^+					2.8	0.0064			00Bu15
1989.5(6)	3^+,5^+					1.2	0.004			00Bu15
1995.4(6)	$\langle 5^-\rangle$					0.97	0.016			00Bu15
1994.8(3)	$\langle 15^-\rangle$									00Ta03
2005.9(7)						0.96				00Bu15
2016.20(14)	$\langle 21\rangle^-$									00Ta03
2026.0(6)	$\langle 3^+\rangle$					1.4	0.0036			00Bu15
2046.2(15)	$\langle 5\rangle^-$	1	0.06	220		0.74	0.012			00Bu15
2059.3(6)	7^+,9^+				2.3	0.90				00Ta03
2070.31(22)	$\langle 17^+\rangle$									00Ta03

(continued) **$^{121}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$G_{\ell j}$ (d,p)	σ (d,p) μb/sr	R (p,d)	I_{dt} μb/sr	C^2S (d,t)	C^2S (τ,α)	σ (τ,α) μb/sr	Ref.
2077.1(7)	⟨9$^-$,11$^-$⟩					⟨<0.4⟩				
2082(6)	⟨5$^-$,7$^-$⟩	⟨3⟩	0.14	160						00Ta03
2106.4(7)	⟨3$^+$,7$^+$⟩					0.58	0.0015			00Bu15
2112.3(6)	3$^-$	1	0.04	180		1.8	0.020			00Bu15
2119.1(4)	⟨15$^+$⟩									00Ta03
2129.1(6)	⟨11⟩$^-$					0.51	0.054			00Bu15
2136.4(9)	⟨9⟩$^-$					≤0.4	0.071			00Bu15
2143(10)	7$^+$,9$^+$				1.4					00Ta03
2149.1(6)	1$^+$					3.9	0.019			00Bu15
2169.5(6)						0.41				00Bu15
2187.8(6)	⟨3$^+$⟩					2.6	0.006			00Bu15
2215.9(6)	3$^+$,5$^+$					2.0	0.004			00Bu15
2236.1(5)	3$^+$,5$^+$					1.4	0.003			00Bu15
2247.8(5)	1$^-$					0.7	0.012			00Bu15
2284.3(6)	5$^+$					1.6	0.0036			00Bu15
2281.71(17)	⟨23$^+$⟩									00Ta03
2292.5(6)	3$^+$,5$^+$					1.4				
2317.5(15)	11$^-$				2.5	0.23	0.026			82Ga18
2332.36(16)	⟨23⟩$^-$									00Ta03
2339.3(8)	3$^+$,5$^+$	2	0.10			1.2	0.003			00Bu15
2360.1(6)	3$^+$,5$^+$	2	0.09	160		2.6	0.005			00Bu15
2396.1(5)	⟨17$^+$⟩									00Ta03
2398.4(7)	3$^+$					4.0	0.009			00Bu15
2406.8(8)	11$^-$				1.2	<0.6	0.027			82Ga18
2422.4(5)	⟨21$^-$⟩									00Ta03
2414.7(6)	⟨7$^+$,9$^+$⟩					1.0	0.03			00Bu15
2426.5(7)	1$^-$					0.78	0.018			00Bu15
2441(6)	⟨5$^-$,7$^-$⟩	⟨3⟩	0.10							00Ta03
2456.9(5)	3$^+$,5$^+$				1.9	6.4	0.014			82Ga18
2469.8(4)	⟨19$^+$⟩									00Ta03
2486(6)	⟨5$^-$,7$^-$⟩	⟨3⟩	0.07							00Ta03
2536.8(7)	⟨1$^-$,3$^-$⟩					0.43	0.007			00Bu15
2549.9(6)	3$^+$				1.6	3.1	0.0078			82Ga18
2568.8(8)	1$^+$					1.3	0.006			00Bu15
2582.6(5)	⟨19$^+$⟩									00Ta03
2600.2(7)						<1.5				00Bu15
2611.7(7)	⟨3$^+$⟩				1.8	1.7	0.0045			82Ga18
2630.2(9)					incl	0.67				00Bu15
2641.5(7)	⟨5⟩$^+$					2.2	0.004			00Bu15
2679.6(3)	⟨19$^-$⟩									00Ta03
2717.11(23)	⟨23$^-$⟩									00Ta03
2725(6)										00Ta03
2854.6(3)	⟨19$^-$⟩									00Ta03
2857(6)										00Ta03
2896(6)										00Ta03

(continued) **$^{121}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$G_{\ell j}$ (d,p)	σ (d,p) μb/sr	R (p,d)	$I_{\rm dt}$ μb/sr	C^2S (d,t)	C^2S (τ,α)	σ (τ,α) μb/sr	Ref.
2914.9(5)	⟨21$^+$⟩									00Ta03
2933(6)										00Ta03
2937.2(5)	⟨21$^-$⟩									00Ta03
2952.88(25)	⟨23,25⟩									00Ta03
2966(6)	⟨1$^-$,3$^-$⟩	⟨1⟩	0.10	580						00Ta03
2996.7(5)	⟨21⟩									00Ta03
3027(6)										00Ta03
3057(6)										00Ta03
3073.4(7)	⟨25$^-$⟩									00Ta03
3136.61(21)	⟨25$^-$⟩									00Ta03
3228.9(7)	⟨21$^+$⟩									00Ta03
3255.2(5)	⟨23$^-$⟩									00Ta03
3320.8(6)	⟨23$^+$⟩									00Ta03
3321.1(5)	⟨23⟩									00Ta03
3389.0(6)	⟨23$^+$⟩									00Ta03
3402.0(3)	⟨27$^-$⟩									00Ta03
3424.1(4)	⟨23$^-$⟩									00Ta03
3432(6)										00Ta03
3443.3(6)										00Ta03
3461(6)										00Ta03
3496(6)										00Ta03
3536(6)										00Ta03
3594.9(6)										00Ta03
3613(6)										00Ta03
3642.8(5)	⟨25$^-$⟩									00Ta03
3655.6(5)	⟨27$^-$⟩									00Ta03
3671.3(3)	⟨27,29⟩									00Ta03
3715(6)										00Ta03
3779.1(6)	⟨25$^+$⟩									00Ta03
3834.2(5)										00Ta03
3935.5(3)	⟨29⟩									00Ta03
3937.0(5)										00Ta03
3956(6)										00Ta03
4083.3(5)	⟨27$^-$⟩									00Ta03
4146.8(7)	⟨27$^+$⟩									00Ta03
4188.3(6)	⟨27$^-$⟩									00Ta03
4238.4(3)	⟨29$^-$⟩									00Ta03
4372.6(4)	⟨31$^-$⟩									00Ta03
4411.5(4)	⟨31⟩									00Ta03
4442.9(5)										00Ta03
4520.4(4)										00Ta03
4785.3(3)	⟨33$^-$⟩									00Ta03
4898.6(4)	⟨33⟩									00Ta03
5012.9(6)										00Ta03
5020.8(4)	⟨35⟩									00Ta03

(continued) **$^{121}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$G_{\ell j}$ (d,p)	σ (d,p) μb/sr	R (p,d)	$I_{\rm dt}$ μb/sr	C^2S (d,t)	C^2S (τ,α)	σ (τ,α) μb/sr	Ref.
5179.4(4)	$\langle 35^-\rangle$									00Ta03
5281.4(7)										00Ta03
5308.7(4)										00Ta03
5503.7(6)										00Ta03
5533.6(4)	$\langle 39^-\rangle$									00Ta03
5689.3(4)	$\langle 37\rangle$									00Ta03
5906.7(5)	$\langle 39\rangle$									00Ta03
6545.4(6)	$\langle 41\rangle$									00Ta03
6774.3(5)	$\langle 43^-\rangle$									00Ta03
7060.0(7)	$\langle 43^-\rangle$									00Ta03
7062.0(6)	$\langle 47\rangle$									00Ta03
7107.1(7)										00Ta03
7671.3(7)										00Ta03
7683.6(7)										00Ta03
8292.7(7)	$\langle 51^-\rangle$									00Ta03
8583.2(8)										00Ta03
			77Li05		82Ga18	00Bu15	00Bu15	77Fe16		Ref.
		77Li05		77Li05						Ref.

Additional data on this isotope can be found in [01Vo0A, 00Bu15, 95Bl21, 90Ma55].

* doublets of levels with the energies 1447 + 1451 keV and 1655 + 1660 keV [00Bu15]

The last three data-columns correspond to results on the neutron pickup from reaction (d,t) ($I_{\rm dt}$ and C^2S) obtained in [00Bu15] and the similar C^2S from (τ,α) reaction obtained in [77Fe16]; the ratio R=$\sigma(15°)/\sigma 25°$ in cross sections of (p,d) reaction [82Ga18] was used for spin determination.

The following $T_{1/2}$ were given [00Ta03] for energy levels: 19.16(5) days for the ground state, 0.062(15) ns for E^*=212 keV, 154(7) days for E^*=294 keV and 85.3(5) ns for E^*=443 keV.

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 2 **$^{121}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	$E_{\rm f}^*$:	0.0	212	294	438	443	475	532	539	594.490	683.05
[keV]	$2J_{\rm f}^\pi$:	1^+	3^+	11^-	$\langle 9\rangle^-$	7^+	$\langle 5\rangle^+$	$\langle 5\rangle^+$	$\langle 7^-\rangle$	$\langle 5\rangle^+$	$\langle 7^+\rangle$
212.194(17)	3^+	100									
293.991(22)	11^-		100								
438.54(5)	$\langle 9\rangle^-$			100							
443.06(3)	7^+		100								
475.243(23)	5^+	94(4)	6.4(4)								
532.052(24)	3^+	86(3)	13.2(6)				0.83(7)				
538.70(5)	$\langle 7^-\rangle$			100(5)							
594.490(25)	5^+	42(2)	57(3)			1.3(2)		0.3(2)			
681.29(6)	1^+	21(2)	79(5)								
683.05(3)	$\langle 7\rangle^+$	6.7(5)	77(5)			2.2(5)	13.6(2)				

(continued) **$^{121}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	0.0	212	294	438	443	475	532	539	594.490	683.05
[keV]		$2J_f^\pi$:	1^+	3^+	11^-	$\langle 9\rangle^-$	7^+	$\langle 5\rangle^+$	$\langle 5\rangle^+$	$\langle 7^-\rangle$	$\langle 5\rangle^+$	$\langle 7^+\rangle$
757.96(6)	$\langle 5\rangle^+$			28(5)		x				72(7)		
806.69(5)	3^+		92(4)	8.4(21)								
810.91(3)	$\langle 5^+,7^+\rangle$		6.9(3)	80(3)			5.0(2)	0.59(18)	7.0(4)			0.14(5)
830.48(10)	$\langle 9\rangle^+$						100(16)					
887.68(5)	$\langle 7^+\rangle$						32(4)	5.1(9)			63(3)	
912.22(4)	5^+			54(4)			15(1)	4.8(4)	4.6(4)		20(1)	
925.75(10)	$\langle 15\rangle^-$				100(2)							
975.65(9)	$\langle 13\rangle^-$				78(2)	22(1)						
994.01(4)	$3^+,5^+$		44(2)	42(2)			8(1)	5(1)				
1018.44(15)	$\langle 9^-,11^-\rangle$							100				
1080.24(10)	$\langle 11^+\rangle$						96(5)					
1148.64(4)	5^+		11.5(7)	56(2)			6.8(9)	19.5(11)			6.1(7)	
1170.19(6)			44(3)	44(3)								13(2)
1171.08(19)	$\langle 9^+\rangle$										69(7)	
1172.86(5)	$3^+,5^+$					9(1)		30(1)	47(2)	9(1)		5(1)
1179.50(14)	$\langle 11^-\rangle$				34(4)	61(6)						
1185.58(10)			32(7)									68(7)
1208.05(10)	$\langle 11^+\rangle$											94(4)
1226.88(3)	5^+		5	41(2)			2	7	32(2)	5(4)	3	2
1305.7(6)	3^+		32(2)	34(2)				11(1)			14(1)	
1324.65(12)	$\langle 3^+,5^+\rangle$		31(3)	38(7)				31(7)				
1340.0(5)	5^+			44(2)				29(2)	14(2)	13(2)		
1363.96(4)	$3^+,5^+$		27(1)	35(2)				29(2)				9(1)
1437.18(6)											26(3)	12(2)
1487.0(6)	$\langle 3\rangle^+$		16(1)	14(1)			27(1)	34(2)	3.9(8)		5.1(8)	
1540.19(13)			32(10)									18(7)
1626.37(6)	7^-			30(3)				38(10)	32(10)			
1681.03(5)	1^+		19(1)	10(1)							19(1)	
1730.71(5)	$3,5^+$			13(1)				21(2)	51(3)		15(1)	
1913.23(12)								36(5)				

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 3 **$^{121}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	757.96	806.69	810.91	830.48	887.68	912.22	925.75	975.65	994.01	1018.44
[keV]		$2J_f^\pi$:	$\langle 7^-\rangle$		$\langle 5^+,7^+\rangle$	$\langle 9\rangle^+$	$\langle 7^+\rangle$	$3^+,5^+$	$\langle 15\rangle^-$	$\langle 13\rangle^-$		$\langle 9^+\rangle$
912.22(4)	5^+		2.1(4)									
1080.24(10)	$\langle 11^+\rangle$					4.5(11)						
1171.08(19)	$\langle 9^+\rangle$						31(3)					
1179.50(14)	$\langle 11^-\rangle$									5(1)		
1208.05(10)	$\langle 11^+\rangle$											6(2)
1226.88(3)	5^+			2(1)								

(continued) **$^{121}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	757.96	806.69	810.91	830.48	887.68	912.22	925.75	975.65	994.01	1018.44
[keV]	$2J_f^\pi$:	$\langle 7^- \rangle$		$\langle 5^+,7^+ \rangle$	$\langle 9 \rangle^+$	$\langle 7^+ \rangle$	$3^+,5^+$	$\langle 15 \rangle^-$	$\langle 13 \rangle^-$		$\langle 9^+ \rangle$
1305.7(6)	3^+	10(1)									
1419.41(12)	$\langle 13^+ \rangle$				82(2)						
1437.18(6)				28(4)						34(3)	
1473.2(3)	$\langle 11^+ \rangle$					62					
1540.19(13)							50(7)				
1599.78(12)	$\langle 17^- \rangle$							62(2)	38(2)		
1607.4(4)	$\langle 13^+ \rangle$										100(10)
1654.47(13)	$\langle 19 \rangle^-$							100(2)			
1681.03(5)	1^+		18(2)	11(1)			23(2)				
1823.5(3)	$\langle 17^- \rangle$							56(6)	44(4)		
1994.8(3)	$\langle 15^- \rangle$							42(4)			

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 4 **$^{121}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1080.24	1148.64	1172.86	1179.50	1208.05	1226.88	1419.41	1473.2	1599.78	1607.4
[keV]	$2J_f^\pi$:	$\langle 11^+ \rangle$	$3^+,5^+$		$\langle 11^- \rangle$	$\langle 11^+ \rangle$	$3,5^+$	$\langle 13^+ \rangle$	$\langle 11^+ \rangle$	$\langle 17^- \rangle$	$\langle 13^+ \rangle$
1419.41(12)	$\langle 13^+ \rangle$	18(2)									
1473.2(3)	$\langle 11^+ \rangle$			38							
1711.83(13)	$\langle 15^+ \rangle$	86(4)						14(3)			
1789.3(3)	$\langle 13^+ \rangle$			86(9)					14(2)		
1806.76(21)	$\langle 15^+ \rangle$					99(10)					1.5(2)
1853.50(17)	1^+				100						
1913.23(12)			36(5)				28(5)				
1994.8(3)	$\langle 15^- \rangle$				58(6)						
2016.20(14)	$\langle 21 \rangle^-$									17(1)	
2070.31(22)	$\langle 17^+ \rangle$							84(6)			
2119.1(4)	$\langle 15^+ \rangle$								72		
2396.1(5)	$\langle 17^+ \rangle$										100(10)
2679.6(3)	$\langle 19^- \rangle$									39(4)	

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 5 **$^{121}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1654.47	1711.83	1789.3	1806.76	1823.5	1994.8	2016.20	2070.31	2332.36	2396.1
[keV]	$2J_f^\pi$:	$\langle 19 \rangle^-$	$\langle 15^+ \rangle$	$\langle 13^+ \rangle$	$\langle 15^+ \rangle$	$\langle 17^- \rangle$	$\langle 15^- \rangle$	$\langle 21 \rangle^-$	$\langle 17^+ \rangle$	$\langle 23 \rangle^-$	$\langle 17^+ \rangle$
2016.20(14)	$\langle 21 \rangle^-$	83(1)									
2070.31(22)	$\langle 17^+ \rangle$		16(4)								
2119.1(4)	$\langle 15^+ \rangle$			28							

(continued) **$^{121}_{52}$Te**

E^*	$2J^\pi$					Branching ratios in percentage						
		E_f^*:	1654.47	1711.83	1789.3	1806.76	1823.5	1994.8	2016.20	2070.31	2332.36	2396.1
[keV]		$2J_f^\pi$:	$\langle 19\rangle^-$	$\langle 15^+\rangle$	$\langle 13^+\rangle$	$\langle 15^+\rangle$	$\langle 17^-\rangle$	$\langle 15^-\rangle$	$\langle 21\rangle^-$	$\langle 17^+\rangle$	$\langle 23\rangle^-$	$\langle 17^+\rangle$
2281.71(17)	$\langle 23^+\rangle$								100(6)			
2332.36(16)	$\langle 23\rangle^-$		30(3)						70(2)			
2422.4(5)	$\langle 21^-\rangle$						100(11)					
2469.8(4)	$\langle 19^+\rangle$			93(9)						7.2(13)		
2582.6(5)	$\langle 19^+\rangle$					100(10)						
2679.6(3)	$\langle 19^-\rangle$		24(2)				38(3)					
2717.11(23)	$\langle 23^-\rangle$		60(6)						25(2)		14(2)	
2854.6(3)	$\langle 19^-\rangle$		45(4)					55(6)				
2914.9(5)	$\langle 21^+\rangle$									100(10)		
2952.88(25)	$\langle 23,25\rangle$								81(8)		19(2)	
2996.7(5)	$\langle 21\rangle$		100(10)									
3136.61(21)	$\langle 25^-\rangle$								69(2)		18(2)	
3228.9(7)	$\langle 21^+\rangle$											100(17)
3321.1(5)	$\langle 23\rangle$								100(10)			
3402.0(3)	$\langle 27^-\rangle$										58(6)	
3424.1(4)	$\langle 23^-\rangle$										64(6)	
3655.6(5)	$\langle 27^-\rangle$										100(10)	

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 6 **$^{121}_{52}$Te**

E^*	$2J^\pi$					Branching ratios in percentage						
		E_f^*:	2422.4	2469.8	2582.6	2679.6	2717.11	2854.6	2914.9	2937.2	2952.88	2996.7
[keV]		$2J_f^\pi$:	$\langle 21^-\rangle$	$\langle 19^+\rangle$	$\langle 19^+\rangle$	$\langle 19^-\rangle$	$\langle 23^-\rangle$	$\langle 19^-\rangle$	$\langle 21^+\rangle$	$\langle 21^-\rangle$	$\langle 23,25\rangle$	$\langle 21\rangle$
2937.2(5)	$\langle 21^-\rangle$					100(10)						
3073.4(7)	$\langle 25^-\rangle$		100(10)									
3136.61(21)	$\langle 25^-\rangle$						12(1)					
3255.2(5)	$\langle 23^-\rangle$					11(2)				89(9)		
3320.8(6)	$\langle 23^+\rangle$			100(10)								
3389.0(6)	$\langle 23^+\rangle$				100(10)							
3424.1(4)	$\langle 23^-\rangle$							36(4)				
3443.3(6)												100(10)
3642.8(5)	$\langle 25^-\rangle$									28(3)		
3671.3(3)	$\langle 27,29\rangle$										88(9)	
3779.1(6)	$\langle 25^+\rangle$								100(10)			
3834.2(5)											100(10)	

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 7 **$^{121}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	3136.61	3255.2	3320.8	3321.1	3402.0	3424.1	3642.8	3671.3	3935.5	4238.4
[keV]	$2J_f^\pi$:	$\langle 25^- \rangle$	$\langle 23^- \rangle$	$\langle 23^+ \rangle$	$\langle 23 \rangle$	$\langle 27^- \rangle$	$\langle 23^- \rangle$	$\langle 25^- \rangle$	$\langle 27{,}29 \rangle$	$\langle 29 \rangle$	$\langle 29^- \rangle$
3402.0(3)	$\langle 27^- \rangle$	42(4)									
3594.9(6)					100(20)						
3642.8(5)	$\langle 25^- \rangle$		72(7)								
3671.3(3)	$\langle 27{,}29 \rangle$	12(2)									
3935.5(3)	$\langle 29 \rangle$					100(20)					
3937.0(5)									100(10)		
4083.3(5)	$\langle 27^- \rangle$		23(2)					77(8)			
4146.8(7)	$\langle 27^+ \rangle$			100(20)							
4188.3(6)	$\langle 27^- \rangle$						100(10)				
4238.4(3)	$\langle 29^- \rangle$	100(6)									
4372.6(4)	$\langle 31^- \rangle$					100(10)					
4411.5(4)	$\langle 31 \rangle$								100(20)		
4442.9(5)						100(10)					
4520.4(4)						23(5)			77(12)		
4785.3(3)	$\langle 33^- \rangle$									24(2)	47(5)

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 8 **$^{121}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	4372.6	4411.5	4442.9	4520.4	4785.3	4898.6	5020.8	5179.4	5308.7	5533.6
[keV]	$2J_f^\pi$:	$\langle 31^- \rangle$	$\langle 31 \rangle$			$\langle 33^- \rangle$	$\langle 33 \rangle$	$\langle 35 \rangle$	$\langle 35^- \rangle$		$\langle 39^- \rangle$
4785.3(3)	$\langle 33^- \rangle$		18(2)		12(3)						
4898.6(4)	$\langle 33 \rangle$		100(20)								
5012.9(6)			100(10)								
5020.8(4)	$\langle 35 \rangle$		94(13)				6(6)				
5179.4(4)	$\langle 35^- \rangle$	27(7)				73(4)					
5281.4(7)				100(10)							
5308.7(4)		100(20)									
5503.7(6)		100(10)									
5533.6(4)	$\langle 39^- \rangle$								89(9)	11(2)	
5689.3(4)	$\langle 37 \rangle$							24(5)	76(8)		
6774.3(5)	$\langle 43^- \rangle$										100(11)

Energy levels and branching ratios [00Bu15, 00Ta03]. Part 9 **$^{121}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage							
		E^*_f:	5689.3	5906.7	6545.4	6774.3	7060.0	7062.0	7107.1	7671.3
[keV]		$2J^\pi_f$:	⟨37⟩	⟨39⟩	⟨41⟩	⟨43$^-$⟩	⟨43$^-$⟩	⟨47⟩		
5906.7(5)	⟨39⟩		100(10)							
6545.4(6)	⟨41⟩			100(10)						
7060.0(7)	⟨43$^-$⟩				100(18)					
7062.0(6)	⟨47⟩					100(15)				
7107.1(7)					100(13)					
7671.3(7)							42(8)		58(12)	
7683.6(7)									100(21)	
8292.7(7)	⟨51$^-$⟩							100(20)		
8583.2(8)										100(20)

Energy levels and branching ratios [94Ta10, 05Hi04]. **$^{122}_{52}$Te**

E^*	J^π	L	C^2S'	L	σ (τ,n)	$I_{s,0}$	$\Gamma_\circ$	$B(E1)$	$B(M1)$	β_L	L	σ (p,t)	$T_{1/2}$ or	Ref.
[keV]			(τ,d)	(τ,n)	μb/sr	[eVb]	[meV]	$10^{-3}ef$	[μ_N^2]	(p,p′)	(p,t)	*rel.*	Γ_{cm}	
0.0	0^+	2	0.11	0	190						0		stable	72Au02
564.117(14)	2^+	0+2	0.04+0.2							0.187	2		7.42(5) ps	72Au02
1181.23(7)	4^+	2	0.21											72Au02
1256.83(4)	2^+	0+2	0.01+0.1								2		0.74(20) ps	72Au02
1357.41(3)	0^+	2	0.04								⟨0⟩			72Au02
1746.99(7)	0^+	2+4	0.2+1.4	0	120						⟨0⟩			05Hi04
1750.91(9)	6^+													05Hi04
1752.60(5)	2^+												0.55 ps	05Hi04
1909.50(5)	4^+													05Hi04
1940.01(7)	0^+													05Hi04
1951.68(5)	3^+													05Hi04
2041.07(6)	4^+									0.050				75Ma03
2099.22(6)	2^+	2+4	0.5+0.8											05Hi04
2196.80(4)	3^-	⟨5⟩	0.6							0.132	3	19*		72Au02
2203.75(5)	1													05Hi04
2283.45(7)	6^+													05Hi04
2287.36(5)	2^+													05Hi04
2297.46(6)	0^+													05Hi04
2310.68(5)	2^+													05Hi04
2407.12(9)	5^-									0.064	5	42*		05Hi04
2407.96(5)	2^+	0+2	0.03+0.2											72Au02
2448.47(5)	⟨4^+⟩													05Hi04
2499.59(8)	0^+									0.035				75Ma03
2508.64(5)	2^+	0+2	0.03+0.1											72Au02
2535.68(9)	5	2+4	0.26+0.6											72Au02
2538.58(4)	4^-		incl											05Hi04
2557.74(7)	2,3		incl											05Hi04

(continued) **$^{122}_{52}$Te**

E^* [keV]	J^π	L	C^2S' (τ,d)	L (τ,n)	σ (τ,n) μb/sr	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	$B(E1)$ $10^{-3}ef$	$B(M1)$ [μ_N^2]	β_L (p,p′)	L (p,t)	σ (p,t) *rel.*	$T_{1/2}$ or Γ_{cm}	Ref.
2560.38(21)	2^+–5													05Hi04
2592.73(7)	1	2+4	0.13+0.7			32(4)	18.4(39)	1.01(9)	92(9)					72Au02
2600.78(6)	3		incl											05Hi04
2665(13)	X^+	2+4	0.18+1.5											72Au02
2603.74(14)	4													05Hi04
2636.01	⟨1–3⟩													05Hi04
2637.85(40)														05Hi04
2654.39(6)	2,3													05Hi04
2669.04(4)	3^+													05Hi04
2679.39(6)	4^+													05Hi04
2693.57(6)	4^+													05Hi04
2719.22(9)	1													05Hi04
2742.45(9)	1													05Hi04
2755.68(8)	0^+													05Hi04
2758.48(6)	6^-													05Hi04
2758.30(11)	$5^{\langle+\rangle}$													05Hi04
2770.47(9)	3–5													05Hi04
2772.45(8)	2^+–5													05Hi04
2777.53(4)	2,3													05Hi04
2789.72(9)	2–4													05Hi04
2796.21(7)	2,3													05Hi04
2800.55(24)	7^-										7	23*		
2801.35(9)	3													05Hi04
2807.7(1)														05Hi04
2809.99(7)	4^+,3													05Hi04
2816.69(7)	5,4													05Hi04
2822.7(3)														05Hi04
2837.47(4)														05Hi04
2839.1(5)														05Hi04
2839.48(6)	3													05Hi04
2860.48(6)	5													05Hi04
2885.67(11)	3,2													05Hi04
2890.61(22)	5^+–7^+													
2897.47(30)														05Hi04
2909.90(14)	4^+–2													05Hi04
2901.05(11)	$5^{\langle-\rangle}$,⟨4⟩													05Hi04
2910.82(21)	4^+–6													05Hi04
2911.19(10)	2^+													05Hi04
2913.06(24)	$[8^+]$													05Hi04
2915.96(10)	1					7(2)	5(2)	0.20(7)	18(7)					97Sc15
2919.31(13)	1					17(3)	20(6)	0.76(21)	68(20)					97Sc15
2930.13(12)	3,⟨2⟩													05Hi04
2930.65(7)	4,5													05Hi04
2938.94(11)	2–4													05Hi04
2944.1(8)														05Hi04

(continued) **$^{122}_{52}$Te**

E^* [keV]	J^π	L (τ,d)	C^2S' (τ,d)	L (τ,n)	σ (τ,n) μb/sr	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	$B(E1)$ $10^{-3}ef$	$B(M1)$ [μ_N^2]	β_L (p,p′)	L (p,t)	σ (p,t) *rel.*	$T_{1/2}$ or Γ_{cm}	Ref.
2958.01(10)	4^+,3													05Hi04
2959.08(15)	$\langle 2^+,1\rangle$													05Hi04
2961.4(2)														05Hi04
2971.97(24)	5,6,7													
2975.64(13)	4													05Hi04
2982.26(8)	1													05Hi04
2993.54(8)	4^+													05Hi04
2995.4(3)	5,$\langle 3\rangle$													05Hi04
2997.96(8)	3,4	0+2	0.2+1.0											72Au02
3009.54(14)														05Hi04
3012.55(11)	3													05Hi04
3026.77(6)	2^+													05Hi04
3030.49(10)	4–6^+													05Hi04
3037.04(7)	2^+													05Hi04
3042.00(12)	2^+–5													05Hi04
3044.40(12)	2^+	$\langle 2\rangle$	0.63											72Au02
3047.71(12)	3,$\langle 2\rangle$													05Hi04
3052.07(13)	0^+–2													05Hi04
3057.2(2)														05Hi04
3060.98(31)	2^+													05Hi04
3068.7(4)														05Hi04
3069.37(9)	5^-,2,3													05Hi04
3071.15(16)														05Hi04
3074.49(6)	2^+													05Hi04
3080.7(14)														05Hi04
3084.5(13)														05Hi04
3086.20(8)	5^+													05Hi04
3094.60(6)	2^+	2	0.54											72Au02
3104.1(5)	1,2													05Hi04
3112.7(2)	3													05Hi04
3132.20(8)	4^+,2,3													05Hi04
3134.5(5)														05Hi04
3139.14(14)														05Hi04
3142.8(5)														05Hi04
3147.5(1)	1–3													05Hi04
3150.7(2)	0^+.1,2													
3153.2(2)														05Hi04
3155.8(2)														05Hi04
3157.8(1)														05Hi04
3159.8(1)	3													05Hi04
3160.08(11)														05Hi04
3172.30(11)														05Hi04
3177.13(7)														05Hi04
3183.1(4)	4–6													05Hi04
3192.6(10)	$\langle 5\rangle$													05Hi04

(continued) **$^{122}_{52}$Te**

E^* [keV]	J^π	L	C^2S' (τ,d)	L (τ,n)	σ (τ,n) μb/sr	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	$B(E1)$ $10^{-3}ef$	$B(M1)$ [μ_N^2]	β_L (p,p′)	L (p,t)	σ (p,t) *rel.*	$T_{1/2}$ or Γ_{cm}	Ref.
3196.7(6)	⟨5⟩													05Hi04
3198.22(15)	3,⟨2,1⟩													05Hi04
3199.3(6)	1													05Hi04
3207.76(19)	1					25(4)	22(10)	0.65(30)	59(27)					97Sc15
3209.88(12)	0^+,1–3													05Hi04
3210.22(12)														05Hi04
3210.63(24)	⟨10^+⟩													
3211.3(3)														05Hi04
3223.24(8)	4^+													05Hi04
3246.4(5)														05Hi04
3252.50(15)	1,⟨2⟩													05Hi04
3256.0(4)														05Hi04
3262.4(2)														05Hi04
3283.8(2)														05Hi04
3289.1(5)	1					30(5)	28(11)	0.76(13)	68(11)					97Sc15
3290.8(3)	⟨10⟩$^+$													
3293.2(5)														05Hi04
3297.1(9)														05Hi04
3300.7(5)														05Hi04
3302.6(4)														05Hi04
3315.3(5)														05Hi04
3333.5(5)														05Hi04
3335.7(5)														05Hi04
3339.1(5)														05Hi04
3357.1(5)														05Hi04
3302.59(13)	⟨1,2⟩$^+$	2	0.02+0.1											72Au02
3357.1(5)														
3380(17)														
3381.8(4)	9													
3420(17)														
3460(17)														
3483.48(10)	1					30(5)	32(5)	0.72(10)	64(9)					97Sc15
3540(18)														
3579.7(3)	10^+													
3590.65(14)	1^+,2^+	0+2	0.3+0.23											72Au02
3630(18)														
3730(19)														
3800(19)														
3995.4(3)	⟨12^+⟩													
4010(20)														
4040(20)														
4090(21)														
4120(21)														
4170(22)	2^+,3^+	0+2	0.16+0.3											72Au02
4240(22)														

(continued) **$^{122}_{52}$Te**

E^*	J^π	L	C^2S'	L	σ (τ,n)	$I_{s,0}$	$\Gamma_\circ$	$B(E1)$	$B(M1)$	β_L	L	σ (p,t)	$T_{1/2}$ or	Ref.
[keV]			(τ,d)	(τ,n)	μb/sr	[eVb]	[meV]	$10^{-3}ef$	[μ_N^2]	(p,p′)	(p,t)	*rel.*	Γ_{cm}	
			72Au02		78Fi06		97Sc15	97Sc15	97Sc15		72Au02	76Ma21		Ref.
		72Au02								75Ma03				Ref.

Additional data on this isotope can be found in [01Vo0A, 00Va31, 00Ha65, 00Gr02, 99Sc19, 97Sc15, 97ScZY, 97Sc25, 91Le03, 90Be50].

Abundance: 2.55(12) %.

* The relative cross section is given with summation from 7,5° to 50°, which is normalized to the 7^- state transition in $^{130}Te(p,t)$ reaction [76Ma21].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [94Ta10, 05Hi04]. Part 2 **$^{122}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	0.0	564.1	1181.4	1256.9	1357.4	1751.2	2099.2	2407.9	2669.78	2758.7
[keV]	J_f^π:	0^+	2^+	4^+	2^+	0^+	6^+	0,1,2	5^-	8^+	
564.117(14)	2^+	100									
1181.23(7)	4^+		100								
1256.83(4)	2^+	17(1)	83(2)								
1357.41(3)	0^+	x	100								
1750.91(9)	6^+			100							
1752.60(5)	2^+	68(3)	32(2)								
1909.50(5)	4^+		46(3)	54(3)							
1940.01(7)	0^+	x	4.6(2)		95(2)	x					
1951.68(5)	3^+		16(2)	19(2)	65(2)						
2041.07(6)	4^+		47(4)	53(4)							
2099.22(6)	2^+		100								
2283.45(7)	6^+			47(4)			53(4)				
2287.36(5)	2^+	13(3)	87(4)								
2310.68(5)	2^+	1.4(4)	91(2)	3.4(5)		4.2(4)					
2407.12(9)	5^-			100							
2407.96(5)	2^+		100								
2508.64(5)	2^+		100								
2592.73(7)	1	7(2)	62(4)		31(3)						
2669.04(4)	3^+						100				
2719.22(9)	1	47(2)	53(3)								
2755.68(8)	0^+		63(2)		37(1)						
2758.48(6)	6^-								100		
2800.55(24)	7^-						100				
2890.61(22)	5^+–7^+						100				
2911.19(10)	2^+		100								
2913.06(24)	[8^+]						100				
2971.97(24)	5,6,7						100				x
3044.40(12)	2^+	18(2)	56(7)					26(4)			

(continued) **$^{122}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	0.0	564.1	1181.4	1256.9	1357.4	1751.2	2099.2	2407.9	2669.78	2758.7
[keV]	J_f^π:	0^+	2^+	4^+	2^+	0^+	6^+	0,1,2	5^-	8^+	
3052.07(13)	0^+–2		49(13)		51(9)						
3150.7(2)	0^+.1,2		100								
3290.8(3)	$\langle 10\rangle^+$									100	
3302.59(13)	$\langle 1,2\rangle^+$		100								
3381.8(4)	9									100	
3483.48(10)	1		52(3)		48(4)						
3579.7(3)	10^+									100	
3590.65(14)	1^+,2^+				11(2)	21(2)			68(3)		

Energy levels and branching ratios [94Ta10, 05Hi04]. Part 3 **$^{122}_{52}$Te**

E^*	J^π	Branching ratios in percentage				
	E_f^*:	2800.55	2890.61	2913.37	2971.97	3290.8
[keV]	J_f^π:	7^-		$\langle 8^+\rangle$	5,6,7	$\langle 10\rangle^+$
3074.49(6)	2^+	100	x		x	
3210.63(24)	$\langle 10^+\rangle$			100		
3995.4(3)	$\langle 12^+\rangle$					100

Energy levels and branching ratios [93Oh12]. **$^{123}_{52}$Te**

E^*	$2J^\pi$	I_{dp}	C^2S	σ (d,p)	C^2S'	L	R	L	C^2S	C^2S	L	C^2S	Ref.
[keV]		rel.u.	(d,p)	μb/sr	(d,p)		(p,d)	(d,t)	(d,t)	(τ,α)	(τ,α)	(τ,α)	
0.0	1^+	846(7)*	0.78	280	0.78	0	9.4	0	1.10		0	1.22	00Bo24
159.01(2)	3^+	567(4)	2.02	310	2.02	2	2.7	2	1.70		2	1.70	00Bo24
247.46(4)	11^-	286(3)	3.63	88	3.63	5	0.89	5	5.75	3.30	5	4.17	00Bo24
384.33(7)	9^-	5.4(5)	0.08			$\langle 5\rangle$							00Bo24
440.03(3)	3^+	33(1)	0.09			$\langle 2\rangle$							00Bo24
489.80(7)	7^+	77(2)	0.14	770	≈0.3	$\langle 4\rangle$	2.7	2		2.92	4	3.32	77Fe16
505.40(4)	5^+	147(3)	0.39	incl	incl	$\langle 2\rangle$	incl			incl			00Bo24
532.68(5)	7^-	38(1)	0.05			$\langle 3\rangle$							00Bo24
599.13(5)	1^+	167(2)	0.13	70	0.13	0	6.5						00Bo24
688.00(4)	3^+,5^+	123(3)	0.29	54	0.27	2	2.8	2	0.63,0.5	1.8	4	0.76	82Ga18
697.43(6)	7^+	42(2)	0.07			$\langle 4\rangle$							00Bo24
769.11(14)													93Oh12
783.64(3)	3^+,5^+	154(2)	0.44	83	0.42	2	3.3						00Bo24
862.11(4)	5^-	1.9(2)	0.002		0.002	$\langle 3\rangle$							00Bo24
871.2***	$\langle 7^+\rangle$	1.3(2)											00Bo24
879.63(7)	7^-	148(2)	0.18	120	≈0.3	$\langle 3\rangle$							00Bo24

(continued) **$^{123}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	C^2S (d,p)	σ (d,p) μb/sr	C^2S' (d,p)	L	R (p,d)	L (d,t)	C^2S (d,t)	C^2S (τ,α)	L (τ,α)	C^2S (τ,α)	Ref.
886.2(9)	⟨15$^-$⟩			incl	incl								93Oh12
894.83(7)	5$^+$	169(2)	0.40	incl	incl	⟨2⟩	3.2	2	2.0	1.80	2	2.8	82Ga18
919.6(9)	⟨13$^-$⟩												93Oh12
996.15(5)	⟨5⟩$^-$	x											00Bo24
1036.66(5)	3$^+$	9(1)	0.02			⟨2⟩	3.0						00Bo24
1068.28(5)	3$^+$,5$^+$	≈1	0.002			⟨2⟩	incl						00Bo24
1081.7(5)	7$^+$,9$^+$	≈1											00Bo24
1097.77(14)	⟨5$^-$⟩,7$^-$	2.9(3)	0.003										00Bo24
1138.6(13)													93Oh12
1153(10)													93Oh12
1212.58(16)	⟨5$^-$,7$^-$⟩	31(1)											00Bo24
1244.3(10)	⟨11$^+$⟩						1.6			0.87	4	0.7	82Ga18
1253.7(5)	5$^-$,7$^-$	6(1)	0.007										00Bo24
1268(10)		X+					2.2						82Ga18
1318.13(12)	3$^+$	5.0(6)	0.015			⟨2⟩							00Bo24
1327.66(13)	3$^+$,5$^+$	17(1)	⟨0.03⟩			⟨2⟩							00Bo24
1330(5)	7$^+$,9$^+$						3.2						93Oh12
1344.77(5)	3$^-$	44(2)	0.03	29	0.035	1	incl						00Bo24
1353.67(19)	5$^-$	5.2(6)	0.006			⟨2⟩	incl						00Bo24
1413.96(15)	5$^+$	52(1)	0.11			⟨2⟩							00Bo24
1418(5)			0.18	39	0.18	⟨3⟩							75Li22
1422.84(14)	3$^+$,⟨5$^+$⟩	30(1)	0.065			⟨2⟩							00Bo24
1427(10)	7$^+$,9$^+$									0.5	4	0.85	93Oh12
1446.5(2)	3$^+$,5$^+$	8.6(6)	0.02			⟨2⟩	3.3						00Bo24
1447.6(2)							incl						93Oh12
1483.4(3)	⟨5$^-$⟩	56(2)	⟨0.06⟩	31	0.038	1							00Bo24
1496.6													93Oh12
1515(10)	3$^+$,5$^+$						3.6						93Oh12
1552.1(10)	⟨17$^-$⟩												93Oh12
1558.2(2)	3$^+$,⟨5⟩	14(1)	0.026			⟨2⟩							00Bo24
1584.9(2)	5	3.4(4)											00Bo24
1606(10)	X$^{\langle+\rangle}$						4.8						93Oh12
1609.1(14)	⟨19$^-$⟩												93Oh12
1622.6(3)	high	19(1)											00Bo24
1654.6(6)	7$^+$,9$^+$	1.2(4)								0.68	4	1.00	82Ga18
1672.1(2)	3$^+$,5$^+$	11(1)	0.021			⟨2⟩							00Bo24
1682.5(4)	5$^-$,7$^-$	97(2)	0.11	41	0.18	3							00Bo24
1693.9(3)	5	4.5(6)											00Bo24
1708(10)	3$^+$,5$^+$			48	0.051		3.2						75Li22
1708.1(15)				incl	incl								75Li22
1732.7(5)	5$^+$	11(2)	0.017			⟨2⟩							00Bo24
1759.61(5)	3$^-$	69(3)	0.041			1							00Bo24
1788.4(3)		4.9(9)											00Bo24
1796.6(2)	1,3	17(2)											00Bo24
1807.69(3)	3$^-$												

(continued) **$^{123}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	C^2S (d,p)	σ (d,p) μb/sr	C^2S' (d,p)	L	R (p,d)	L (d,t)	C^2S (d,t)	C^2S (τ,α)	L (τ,α)	C^2S (τ,α)	Ref.
1839.9(4)	3^+	15(1)	0.027			⟨2⟩	5.5						00Bo24
1853.9(2)	$3^{\langle-\rangle}$,5	19(1)											00Bo24
1864.2(2)	⟨3^+,5^+⟩	5.6(11)	0.01			⟨2⟩							82Ga18
1887.8(1)	3^-	162(2)	0.095	118	0.119	1							75Li22
1903.4(1)	3^+,5^+	5.7(5)	0.01			⟨2⟩							00Bo24
1929.1(15)	⟨21^-⟩												93Oh12
1946.1(5)	1^+	1.4(4)											00Bo24
1957.6(9)	3^+,5^+	17(1)	0.022			⟨2⟩							00Bo24
1978.14(6)	3^-	138(2)	0.079	119	0.115	1							00Bo24
2011.1(2)	high	11(1)											00Bo24
2020.55(7)	⟨1^-⟩,3^-	160(3)	0.091	138	0.131	1							00Bo24
2051.1(2)	7^-,⟨7^+⟩	416(4)	0.42	194	0.77	3							00Bo24
2065.6(5)	7^+,9^+	2.9(7)					3.1			0.30	4		82Ga18
2083.1(7)	3^+,5^+	≈0.8					incl			incl			00Bo24
2092.67(14)	⟨1^-,3^-⟩	3.0(6)	0.002										00Bo24
2118.39(13)	X$^{\langle+\rangle}$	83(3)											00Bo24
2129.94(12)	3^-	53(2)	0.030	90	0.083	1							00Bo24
2143.7(2)		42(2)											00Bo24
2151.3(3)		95(2)											00Bo24
2158.34(9)	1^-,3^-	160(3)	0.089	213	0.194	1							00Bo24
2163(10)	3^+,5^+						3.2						93Oh12
2197.3(1)	3^-	61(3)	0.034		0.034								00Bo24
2201.1(3)	⟨3^+,5^+⟩	132(3)	⟨0.18⟩	114	0.26	⟨2⟩							00Bo24
2264(1)	5^-,7^-	6(1)											00Bo24
2285.0(8)	X$^+$	4(1)					2.8						82Ga18
2296.7(7)	7^+,9^+	24(2)											00Bo24
2332(10)	7^+,9^+						1.5			0.49	4		93Oh12
2348.2(6)		11(2)											00Bo24
2356.4(4)	⟨23^-⟩												93Oh12
2357(10)													93Oh12
2369.1(5)		15(2)											00Bo24
2376.6(5)	5^-,7^-	33(2)											00Bo24
2398.7(6)		5(1)											00Bo24
2413.6(9)	5^-,7^-	39(2)	0.09	26	0.09	3	1.9						00Bo24
2442.6(8)		20(2)											00Bo24
2464.9(5)	X$^{\langle+\rangle}$	14(1)					1.7						00Bo24
2478.7(6)		5(1)											00Bo24
2497.7(4)		22(2)											00Bo24
2514.9(3)		45(2)											00Bo24
2525.5(3)		58(2)											00Bo24
2533.3(3)		65(3)											00Bo24
2540.7(3)		16(2)											00Bo24
2551.6(5)	1^-,3^-	9.4(16)	0.13	155	0.13	1							00Bo24
2555.8(3)		13(2)											00Bo24
2565.2(3)		30(2)**											00Bo24

(continued) **$^{123}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	C^2S (d,p)	σ (d,p) μb/sr	C^2S' (d,p)	L	R (p,d)	L (d,t)	C^2S (d,t)	C^2S (τ,α)	L (τ,α)	C^2S (τ,α)	Ref.
2572.1(3)	$X^{\langle+\rangle}$	20(2)**					2.6						82Ga18
2604.3(3)		25(2)**											00Bo24
2614(6)		7(2)**											00Bo24
2621.82(8)	$\langle1^-\rangle$,3^-	20(2)**	0.01										00Bo24
2630.3(3)		23(3)											00Bo24
2638.1(2)		17(2)											00Bo24
2644.1(4)	1^-,3^-	4(1)	0.009										00Bo24
2657.0(3)		132(3)											00Bo24
2670.5(5)	7^+,9^+	13(1)					2.1			0.38	4		82Ga18
2676.2(4)		11(1)											00Bo24
2686.6(2)	1^-,3^-	53(2)		150	0.118	1							75Li22
2695(1)	X^+	13(2)											00Bo24
2713.0(3)		86(6)											00Bo24
2725.8(3)	$\langle1^-\rangle$,3^-	15(2)	0.008										00Bo24
2735.3(4)		26(3)											00Bo24
2741.7(5)		16(2)											00Bo24
2751(2)	$\langle5^-$,$7^-\rangle$	8(2)				$\langle3\rangle$							00Bo24
2773.4(3)	1^-,3^-	32(1)		48	0.15	1							75Li22
2782.0(4)		11(1)		52	0.039								75Li22
2794.0(4)		13(2)											00Bo24
2807.0(3)		15(1)											00Bo24
2810.3(4)													93Oh12
2811.8(4)	1^-,3^-	14(1)	0.007	55	0.041	1							75Li22
2834.0(5)		3(1)											00Bo24
2848.6(5)		23(1)											00Bo24
2857.4(3)		33(2)											00Bo24
2864.0(4)		12(1)											00Bo24
2869.5(5)		18(1)											00Bo24
2875.2(4)		13(1)											00Bo24
2880.8(7)		19(2)**											00Bo24
2887.3(7)		12(2)**											00Bo24
2894.6(4)	$\langle1^-$,$3^-\rangle$	45(2)		129	0.093								75Li22
2906.1(6)		18(1)											00Bo24
2915.8(5)	$\langle1^-$,$3^-\rangle$	23(1)											00Bo24
2922.5(7)		6(1)											00Bo24
2937.4(4)	1^-,3^-	18(1)	0.009	93	0.065	1							75Li22
2946.6(3)	1^-,3^-	3(1)	0.002		0.002								00Bo24
2957.3(8)	5^-,7^-	36(2)											00Bo24
2967.9(9)		17(1)											00Bo24
2983.8(9)		20(1)											00Bo24
3002.5(11)		19(2)											00Bo24
3007.7(11)	1^-,3^-	22(2)		70	0.050	1							75Li22
3033(20)													75Li22
3055(20)													75Li22
3079(20)													75Li22

(continued) **$^{123}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	C^2S (d,p)	σ (d,p) μb/sr	C^2S' (d,p)	L	R (p,d)	L (d,t)	C^2S (d,t)	C^2S (τ,α)	L (τ,α)	C^2S (τ,α)	Ref.
3106(20)													75Li22
3151(20)													75Li22
3181(20)													75Li22
3197(20)	1^-,3^-			100	0.064	1							75Li22
3321(20)													75Li22
3337(20)													75Li22
3375(20)													75Li22
3401(20)	1^-,3^-			88	0.052	1							75Li22
3439(20)													75Li22
3469(20)													75Li22
3492(20)													75Li22
3513(20)													75Li22
3551(20)	1^-,3^-			195	0.110	1							75Li22
3625(20)													75Li22
3744(20)													75Li22
3766(20)													75Li22
3787(20)													75Li22
3822(20)													75Li22
3849(20)													75Li22
3866(20)													75Li22
3912(20)													75Li22
3935(20)													75Li22
3975(20)													75Li22
4014(20)													75Li22
4040(20)													75Li22
4055(20)													75Li22
4075(20)													75Li22
4134(20)													75Li22
4173(20)													75Li22
4200(20)													75Li22
4271(20)													75Li22
4302(20)													75Li22
4317(20)													75Li22
4347(20)													75Li22
4380(20)													75Li22
4411(20)													75Li22
4441(20)													75Li22
4476(20)													75Li22
4500(20)													75Li22
4538(20)													75Li22
4570(20)													75Li22
4606(20)													75Li22
4655(20)													75Li22
4669(20)													75Li22
4685(20)													75Li22

(continued) **$^{123}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	C^2S (d,p)	σ (d,p) μb/sr	C^2S' (d,p)	L	R (p,d)	L (d,t)	C^2S (d,t)	C^2S (τ,α)	L (τ,α)	C^2S (τ,α)	Ref.
4715(20)													75Li22
4748(20)													75Li22
4776(20)													75Li22
4789(20)													75Li22
4854(20)													75Li22
4876(20)													75Li22
4966(20)													75Li22
5015(20)													75Li22
5088(20)													75Li22
5140(20)													75Li22
5169(20)													75Li22
5190(20)													75Li22
5232(20)													75Li22
5329(20)													75Li22
5450(20)													75Li22
		00Bo24	00Bo24	75Li22	75Li22		82Ga18		77Fe16	82Ga18		77Fe16	Ref.

Additional data on this isotope can be found in [01Vo0A, 00Bo24, 99Bo31, 97BoZW, 96Bo10, 95HoZV, 91Ho08, 73SeZL].

Abundance: 0.89(3) %.

* Intensities of the (d,p) reaction [00Bo24] used for the estimation of spectroscopic factor C^2S.

** I_{dp} for the angle 15°, all other values in this column correspond to the angle 30° [00Bo24].

*** possible doublet

The following $T_{1/2}$ were given [93Oh12] for energy levels: $>6{\cdot}10^{14}$ years for the ground state, 196(9) ps for E^*=159 keV, 119.25(15) days for E^*=248 keV, 22(3) ps for E^*=440 keV, 30.7 ns for E^*=490 keV, 13.5 ps for E^*=505 keV, 52, 45 and 43 Fs for E^*=783, 894 and 1037 keV.

Experimental magnetic dipole moments of five states are compared with the theory [00Bo24].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [93Oh12]. Part 2 **$^{123}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	0.0	159	247	384	440	489.8	505.4	532.7	599.1	687.9
[keV]	$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	$\langle 7^+ \rangle$	$\langle 5 \rangle^+$	7^-	1^+	3^+
159.01(2)	3^+	100									
247.46(4)	11^-	0.36(4)	100								
384.33(7)	9^-			100							
440.03(3)	3^+	85	14.9								
489.80(7)	7^+		100								
505.40(4)	5^+	71	29(1)								
532.68(5)	7^-			94	6.4						
599.13(5)	1^+	100									
688.00(4)	3^+,5^+	5.8	89			4.5	0.21	0.82			

(continued) **$^{123}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	0.0	159	247	384	440	489.8	505.4	532.7	599.1	687.9
[keV]		$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	$\langle 7^+\rangle$	$\langle 5\rangle^+$	7^-	1^+	3^+
697.43(6)	7^+			94			0.37(9)	0.26(9)	4.90(23)			
769.11(14)				30(9)			70					
783.64(3)	$3^+,5^+$		42	54			2.7		1.5			
862.11(4)	5^-			0.2		24	2.3	0.4		73		
871.2***	$\langle 7^+\rangle$			43				57				
879.63(7)	7^-				24	76						
886.2(9)	$\langle 15^-\rangle$				100							
894.83(7)	5^+		1.2(3)	83			5.3(7)	3.9(8)			2.1(5)	4.5(2)
919.6(9)	$\langle 13^-\rangle$				100							
996.15(5)	$\langle 5\rangle^-$			14(3)			86					
1036.66(5)	3^+		27	30			17	7			19	
1068.28(5)	$3^+,5^+$		18(1)	17(3)			20	19(5)	14(5)			
1097.77(14)	$\langle 5^-\rangle,7^-$					53				36		11
1138.6(13)								x				
1212.58(16)	$\langle 5^-,7^-\rangle$			weak		11	60		20		9	
1253.7(5)	$5^-,7^-$					25				21		
1318.13(12)	3^+		39	37			4		12			
1327.66(13)	$3^+,5^+$			29			25		46			
1344.77(5)	3^-		weak				2		3	33	21	
1353.67(19)	5^-			11					17	43		
1413.96(15)	5^+			83				9		8		
1422.84(14)	$3^+,\langle 5^+\rangle$			$\langle 1\rangle$			15	7	75			
1446.5(2)	$3^+,5^+$			68			32					
1483.4(3)	$\langle 5^-\rangle$			42				58				
1558.2(2)	$3^+,\langle 5\rangle$			17			76				weak	7
1584.9(2)	5			weak			33		33			
1672.1(2)	$3^+,5^+$								100			
1682.5(4)	$5^-,7^-$							40	18	42		
1693.9(3)	5							29		37		
1732.7(5)	5^+						26			17	25	22
1759.61(5)	3^-		38						4.4	1.7	2	3.2
1796.6(2)	1,3										$\langle 100\rangle$	
1807.69(3)	3^-		42							6	3	
1839.9(4)	3^+		56				44					
1853.9(2)	$3^{\langle -\rangle},5$			19			7		6	30		
1887.8(1)	3^-		24	6			33		7	5	24	
1903.4(1)	$3^+,5^+$								61			
1957.6(9)	$3^+,5^+$			12				16			49	23
1978.14(6)	3^-		28	21			12		7		6	5
2020.55(7)	$\langle 1^-\rangle,3^-$		82(5)	18(4)								
2092.67(14)	$\langle 1^-,3^-\rangle$			77			8					
2129.94(12)	3^-		22	6			12		29	10		
2158.34(9)	$1^-,3^-$		8	62			21					
2197.3(1)	3^-		46	6					10			

(continued) **$^{123}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	0.0	159	247	384	440	489.8	505.4	532.7	599.1	687.9
[keV]		$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	$\langle 7^+\rangle$	$\langle 5\rangle^+$	7^-	1^+	3^+
2621.82(8)	$\langle 1^-\rangle$,3^-		16						15		21	
2725.8(3)	$\langle 1^-\rangle$,3^-		29	15								

Energy levels and branching ratios [93Oh12]. Part 3 **$^{123}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage									
		E_f^*:	697.5	783.6	862.1	871.2	879.6	886.2	894.8	919.6	996.2	1068.3
[keV]		$2J_f^\pi$:	7^+	X^+	5^-		7^-	$\langle 15^-\rangle$	3^+,5^+	$\langle 13^-\rangle$	$\langle 5^-\rangle$	X^+
894.83(7)	5^+		0.4(2)									
1068.28(5)	3^+,5^+								11(3)			
1138.6(13)						x						
1212.58(16)	$\langle 5^-,7^-\rangle$				weak							
1244.3(10)	$\langle 11^+\rangle$		x									
1253.7(5)	5^-,7^-				10		27				17	
1318.13(12)	3^+			9								
1344.77(5)	3^-			5	35		2					
1353.67(19)	5^-						29					
1422.84(14)	3^+,$\langle 5^+\rangle$										2	
1496.6						x						
1552.1(10)	$\langle 17^-\rangle$							x		x		
1584.9(2)	5				20		13					
1609.1(14)	$\langle 19^-\rangle$							x				
1693.9(3)	5				34							weak
1732.7(5)	5^+		10								weak	
1759.61(5)	3^-				47		2.4					
1796.6(2)	1,3				$\langle$x$\rangle$							
1807.69(3)	3^-				43		4					
1853.9(2)	$3^{\langle -\rangle}$,5				11		28					
1864.2(2)	$\langle 3^+,5^+\rangle$				100							
1887.8(1)	3^-				1							
1903.4(1)	3^+,5^+			39								
1978.14(6)	3^-				21							
2129.94(12)	3^-				21							
2158.34(9)	1^-,3^-			4								
2197.3(1)	3^-				27							
2621.82(8)	$\langle 1^-\rangle$,3^-				49							
2644.1(4)	1^-,3^-				weak							
2725.8(3)	$\langle 1^-\rangle$,3^-				49							

Energy levels and branching ratios [93Oh12]. Part 4

$^{123}_{52}$Te

E^*	$2J^\pi$	Branching ratios in percentage									
	E_f^*:	1244.3	1344.8	1353.7	1552.1	1558.2	1609.1	1759.6	1807.7	1929.1	1978.1
[keV]	$2J_f^\pi$:	7^+,9^+	3^-	5^-	$\langle 17^- \rangle$	X^+	$\langle 19^- \rangle$	3^-	3^-	$\langle 21^- \rangle$	3^-
1708.1(15)		x									
1759.61(5)	3^-		0.9	weak							
1807.69(3)	3^-			2							
1929.1(15)	$\langle 21^- \rangle$				x		x				
2092.67(14)	$\langle 1^-,3^- \rangle$							15			
2158.34(9)	$1^-,3^-$							2	2		
2197.3(1)	3^-			8				2			
2356.4(4)	$\langle 23^- \rangle$									x	
2644.1(4)	$1^-,3^-$					41					59
2725.8(3)	$\langle 1^- \rangle,3^-$								7		
2810.3(4)										x	

Energy levels and branching ratios [97Ii01, 95Ge06].

$^{124}_{52}$Te

E^*	J^π	BR	L	σ (d,p)	$G_{\ell j}$	L	C^2S	σ (d,d′)	β_L	σ (p,t)	$T_{1/2}$ or	Ref.
[keV]		%	(d,p)	μb/sr	(d,p)		(τ,d)	μb/sr	(p,p′)	*rel.*	Γ_{cm}	
0.0	0^+	0.3(1)	0	840	0.37	4	≈0.2				stable	72Au02
602.731(3)	2^+	2.6(3)	2	130	0.23	2+4	0.07+0.5	530	0.166		6.2(1) ps	72Au02
1248.587(4)*	4^+					0+2	0.07+0.2	40				72Au02
1325.519(4)*	2^+	3.3(4)		12				17			0.4(2) ps	95Ge06
1657.28(3)*	0^+		0	230	0.05			32				66Ki04
1746.97(2)	6^+					2	0.91					72Au02
1883.0(1)*	0^+		0	50	0.02							77Li05
1957.90(1)	4^+					0+2	0.06+0.05		0.048			72Au02
2039.3(1)**	2^+	0.7(4)	2	79	0.11							95Ge06
2091.62(2)*	2^+	6.0(6)				2	0.27	45				72Au02
2134.82(18)	4											
2153.31(4)	0^+		0	52	0.01							77Li05
2182.43(4)	1^+					2	0.35					72Au02
2224.89(4)	4^+					0+2	≈0.03					72Au02
2273.97(15)												
2282.43(17)												
2293.72(1)	3^-								0.128	25	0.17(6) ps	76Ma21
2308.5(3)	0^+										<0.25 n	
2322.99(3)	2^+	2.7(5)	2	660	0.87							95Ge06
2326.6(5)												
2335.07(2)	5									46		76Ma21
2349.8(2)	6^+											
2444.5(2)	8											
2454.07(6)	2^+		2	87	0.12	2+4	0.08+0.3					72Au02
2483.29(3)	3^+											

(continued) **$^{124}_{52}$Te**

E^* [keV]	J^π	BR %	L (d,p)	σ (d,p) μb/sr	$G_{\ell j}$ (d,p)	L	C^2S (τ,d)	σ (d,d′) μb/sr	β_L (p,p′)	σ (p,t) *rel.*	$T_{1/2}$ or $\Gamma_{\rm cm}$	Ref.
2493.2(12)												
2496.9(3)												
2507.2(6)												
2511.9(3)												
2521.4(1)	2^+	1.8(5)							0.035			95Ge06
2529.7(1)	2^+											
2534.3(1)	3^+–5^+		0	940	0.28	0+2	0.05+0.3					72Au02
2550.23(23)												
2578.9(9)												
2594.9(3)	5											
2600.87(7)	1^+		2	270	0.36							77Li05
2618.58(5)	$\langle 3\rangle$											
2629.14(14)												
2640.90(15)	1^+,2^+			51								77Li05
2647.20(10)												
2655.88(25)												
2664.34(9)	6			96								77Li05
2665.10(20)	8^+											
2673.81(16)	7									39		
2681.53(4)	2^+			75								77Li05
2693.694(15)	3^-			incl								
2701.66(3)	2^-											
2710.66(7)	2,3			61								77Li05
2721.7(6)	X^+											
2732.8(18)	$\langle 0^+$–$2^+\rangle$		$\langle 0\rangle$	77	0.02							77Li05
2740.8(5)	$1,2^+$											
2746.95(5)*	$1^{\langle -\rangle}$			72							27(3) fs	77Li05
2767.7(5)				50								77Li05
2774.83(4)	3^-											
2783.5(2)*	1^+,$\langle 2^+\rangle$		2	430	0.52							77Li05
2808.50(11)	2^+			90								77Li05
2814.5(5)	2^+–4^+			69								77Li05
2817.06(9)	$2,3,4^+$			incl								
2820.4(4)												
2834.98(4)	3^-		$\langle 1\rangle$	160	0.04							77Li05
2842.0(11)	$\langle 0$–$2\rangle$											
2853.2(6)												
2858.66(16)	2,$\langle 3\rangle$		2	100	0.13							77Li05
2867.8(6)	X^+					2+4	0.10+0.6					72Au02
2873.4(2)	7											
2884.2(10)*	1,$\langle 2^+\rangle$											
2885.96(9)	3^-											
2897.3(10)*	1,$\langle 2^+\rangle$											
2903.3(7)				160								77Li05
2921.7(1)												

(continued) **$^{124}_{52}$Te**

E^* [keV]	J^π	BR %	L (d,p)	σ (d,p) μb/sr	$G_{\ell j}$ (d,p)	L	C^2S (τ,d)	σ (d,d′) μb/sr	β_L (p,p′)	σ (p,t) *rel.*	$T_{1/2}$ or $\Gamma_{\rm cm}$	Ref.
2933.7(5)												
2939.7(1)												
2944.0(7)	X^+											
2947.4(2)				73								77Li05
2963.1(17)												
2974.6(1)*	1										65(9) fs	
2986.5(3)												
2988.07(6)	$1,2^+$	0.9(4)										95Ge06
3000.96(7)	2^+–4^+											
3011.7(3)												
3018.1(3)												
3030.7(3)												
3032.9(2)												
3036.3(8)												
3045.9(3)		1.9(6)		31		2+4	0.05+0.1					72Au02
3052.2(5)												
3059.7(4)												
3081.5(12)				41								
3093.7(3)*	1^+					2+4	0.88+3.2					72Au02
3100.5(1)*	2^-	26.4(29)		48								95Ge06
3113.7(11)				incl								
3118.6(4)												
3125.1(5)												
3137.18(22)	10			23		2+4	0.32+2.4					72Au02
3139.4(5)				25								77Li05
3149.5(7)				incl								
3154.99(22)	10											
3167.9(4)				35								77Li05
3181.4(7)												
3206.6(6)						⟨5⟩	0.6					72Au02
3212.8(3)		7.1(14)										95Ge06
3220.9(1)*	$1,\langle 2^+\rangle$		2	310	0.30							
3231.2(7)												
3238.8(3)*	$1,\langle 2^+\rangle$	1.7(5)										95Ge06
3260(6)				65								77Li05
3290(6)				82								77Li05
3302(1)*	$1,\langle 2^+\rangle$											
3315.7(4)		3.7(18)										95Ge06
3335(6)	X^+		2	170	0.17	0+2	0.08+0.1					72Au02
3351.2(2)	9											
3393.4(5)		2.6(8)		47								95Ge06
3399.2(10)												
3410.2(3)	9											
3430(5)				58								77Li05
3451.0(5)		2.1(7)										95Ge06

(continued) **$^{124}_{52}$Te**

E^* [keV]	J^π	BR %	L (d,p)	σ (d,p) μb/sr	$G_{\ell j}$ (d,p)	L	C^2S (τ,d)	σ (d,d′) μb/sr	β_L (p,p′)	σ (p,t) *rel.*	$T_{1/2}$ or $\Gamma_{\rm cm}$	Ref.
3478(6)	X^+		2	170	0.17							77Li05
3494.0(4)		1.0(5)										95Ge06
3529.99(24)		2.6(8)										95Ge06
3543.4(1)*	1	7.0(18)										95Ge06
3560(18)	X^+					0+2	0.32+0.2					72Au02
3567(15)												
3570(18)												
3580(40)												
3590(18)												
3624.2(4)												
3629.8(3)												
3655.7(10)*	$1,\langle 2^+\rangle$											
3669(14)												
3695.7(13)												00Va31
3708.4(6)		5.2(10)										95Ge06
3730(15)												
3755.53(20)		10.2(15)										95Ge06
3778.7(6)	$1,2^+$	1.7(5)										95Ge06
3807(15)												
3829(15)												
3845(15)												
3855(15)												
3871(15)												
3887(15)												
3931.6(11)												
3963.1(3)	$1,2^+$	5.6(11)										95Ge06
3988.1(4)												
4052.9(5)		2.3(7)										95Ge06
4088.8(10)*	$1,\langle 2^+\rangle$											
4089.39(24)												
4116.7(6)												
4118.1(10)*	$1,\langle 2^+\rangle$											
4229.4(5)	$1,2^+$											00Va31
4325.3(5)	$1,2^+$											
4376.9(11)												00Va31
4410.8(5)	$1,2^+$	0.7(3)										95Ge06
4436.0(5)												
4484.2(10)	$1,2^+$											

(continued) **$^{124}_{52}$Te**

E^*	J^π	BR	L	σ (d,p)	$G_{\ell j}$	L	C^2S	σ (d,d′)	β_L	σ (p,t)	$T_{1/2}$ or	Ref.
[keV]		%	(d,p)	μb/sr	(d,p)		(τ,d)	μb/sr	(p,p′)	*rel.*	$\Gamma_{\rm cm}$	
4582.8(17)*	1,$\langle 2^+\rangle$	95Ge06		77Li05	77Li05		72Au02	66Ki04	75Ma03	76Ma21		Ref.

Additional data on this isotope can be found in [01Vo0A, 00Va31, 00Gr02, 00Do11, 98Wa18, 97WaZY, 95Ge02, 94GeZZ, 94KhZY, 94Va44, 91Le16, 91Ca13, 90Su10, 90Be50].
Abundance: 4.74(14) %.
The third column contains branching ratios of γ-transitions after thermal neutron capture [95Ge06].
* Values $T_{1/2}$ of 14 highly excited states were estimated in [95Ge06] and 6 states – in [00Do11].
** Precise γ-ray measurements [00Do11] confirm a 2^+–3^+ level doublet with a spacing of 129 eV.
The relative cross section σ (p,t) is given with summation from 7,5° to 50°, which is normalized to the 7^- state transition in $^{130}Te(p,t)$ reaction [76Ma21].
Relative population intensities in the (d,p), (p,p′), (d,t) reactions [95Ge06] are given in [97Ii01].
Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [97Ii01, 95Ge06]. Part 2 **$^{124}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	$E_{\rm f}^*$:	0.0	603	1249	1325	1657	1747	1883.0	1957.9	2039.3	2091.6
[keV]	$J_{\rm f}^\pi$:	0^+	2^+	4^+	2^+	0^+	6^+	0^+	4^+	2^+	2^+
602.731(3)	2^+	100									
1248.587(4)*	4^+		100								
1325.519(4)*	2^+	13.1	87(1)								
1657.28(3)*	0^+	x	100								
1746.97(2)	6^+			100							
1883.0(1)*	0^+	x			100	x					
1957.90(1)	4^+		42(1)	53.5(7)	4.27(4)						
2039.3(1)**	2^+	1.5(1)	28.2(2)	17.5(2)	52.8(7)						
2091.62(2)*	2^+		98.2(8)		1.77(7)						
2134.82(18)	4			100							
2153.31(4)	0^+		24(5)		76(7)						
2182.43(4)	1^+	9(1)	86(1)		5.1(11)						
2224.89(4)	4^+		29.2(6)	59(1)	12(1)						
2293.72(1)	3^-	0.1	92.5(7)	3.54(7)	3.62(4)				0.16(8)	0.028(14)	
2308.5(3)	0^+	x	100			x		x			
2322.99(3)	2^+	2.6(3)	94(2)		3.5(11)						
2335.07(2)	5			100							
2349.8(2)	6^+			100							
2444.5(2)	8						100				
2454.07(6)	2^+	17(2)	64(4)	5.8(3)	13.6(2)						
2483.29(3)	3^+								40.9(6)	56.1(6)	
2493.2(12)				100							
2507.2(6)		100									

(continued) **$^{124}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	0.0	603	1249	1325	1657	1747	1883.0	1957.9	2039.3	2091.6
[keV]	J_f^π:	0^+	2^+	4^+	2^+	0^+	6^+	0^+	4^+	2^+	2^+
2511.9(3)				100							
2521.4(1)	2^+		77(2)	14(4)	9(3)						
2529.7(1)	2^+		100								
2550.23(23)				100							
2594.9(3)	5			100							
2600.87(7)	1^+	31(6)	69(13)								
2618.58(5)	$\langle 3\rangle$		26(5)	74(15)							
2640.90(15)	1^+,2^+	12(5)	77(4)		7.9(10)	3.2(7)					
2665.10(20)	8^+						100				
2673.81(16)	7						100				
2681.53(4)	2^+	6(2)	77(2)								
2693.694(15)	3^-	0.05(1)	63.3(8)	3.68(4)	29.1(4)				1.58(13)		
2701.66(3)	2^-		8.1(4)		87.8(7)				0.9(3)	3.2(11)	
2710.66(7)	2,3		42(2)		58(3)						
2740.8(5)	$1,2^+$	100									
2746.95(5)*	$1^{\langle -\rangle}$	81(3)	18.8(11)								
2774.83(4)	3^-		0.32(8)	63.0(8)					12(4)	19.7(3)	
2783.5(2)*	1^+,$\langle 2^+\rangle$	100									
2808.50(11)	2^+	62(6)	38(7)								
2814.5(5)	2^+–4^+			62(17)						38(7)	
2817.06(9)	$2,3,4^+$		100								
2834.98(4)	3^-		14.9(3)		78.8(13)					1.0(2)	
2858.66(16)	$2,\langle 3\rangle$		100								
2873.4(2)	7						100				
2884.2(10)*	$1,\langle 2^+\rangle$	100									
2885.96(9)	3^-		59(2)	18.1(7)	14.3(6)				0.19(8)	0.22(11)	
2897.3(10)*	$1,\langle 2^+\rangle$	100									
2974.6(1)*	1	100									
2988.07(6)	$1,2^+$	32(10)	68(8)								
3000.96(7)	2^+–4^+			16(2)	35(2)					7.4(8)	
3045.9(3)			100								
3052.2(5)		100									
3093.7(3)*	1^+	23(11)	56(17)		21(3)						
3167.9(4)					100						
3212.8(3)			92(17)		8(5)						
3220.9(1)*	$1,\langle 2^+\rangle$	33(9)	57(13)		10(9)						
3238.8(3)*	$1,\langle 2^+\rangle$	43(9)	43(7)		13(6)						
3302(1)*	$1,\langle 2^+\rangle$	100									
3315.7(4)		100									
3393.4(5)			100								
3399.2(10)			100								
3451.0(5)			67(20)		33(16)						
3494.0(4)			100								
3529.99(24)		42(3)	58(10)								
3543.4(1)*	1	68(23)	32(6)								

(continued) **$^{124}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	0.0	603	1249	1325	1657	1747	1883.0	1957.9	2039.3	2091.6
[keV]	J_f^π:	0^+	2^+	4^+	2^+	0^+	6^+	0^+	4^+	2^+	2^+
3624.2(4)			52(12)	48(25)							
3629.8(3)				x							
3655.7(10)*	1,⟨2^+⟩	100									
3708.4(6)			100								
3755.53(20)			52(13)								
3778.7(6)	1,2^+	47(11)			53(10)						
3931.6(11)			100								
3963.1(3)	1,2^+	100									
3988.1(4)			34(17)								
4052.9(5)			60(31)		40(20)						
4088.8(10)*	1,⟨2^+⟩	100									
4089.39(24)			22(12)	78(22)							
4116.7(6)		44(22)	56(28)								
4118.1(10)*	1,⟨2^+⟩	100									
4229.4(5)	1,2^+	100									
4325.3(5)	1,2^+	54(18)									
4410.8(5)	1,2^+	100									
4436.0(5)			37(11)								63(18)
4484.2(10)	1,2^+	45(23)	55(27)								
4582.8(17)*	1,⟨2^+⟩	100									

Energy levels and branching ratios [97Ii01, 95Ge06]. Part 3 **$^{124}_{52}$Te**

E^*	J^π	Branching ratios in percentage										
	E_f^*:	2153.3	2224.9	2293.7	2323.0	2335.1	2483.3	2665.1	2673.8	2713.0	2747.0	2988.2
[keV]	J_f^π:	0^+	4^+	3^-	2^+	5	3^+	8^+	7	1^+	1^-	1^-
2483.29(3)	3^+			1.9(4)		1.1(2)						
2664.34(9)	6					100						
2681.53(4)	2^+					17(4)						
2693.694(15)	3^-		0.52(3)	1.37(15)	0.37(9)		0.06(1)					
2774.83(4)	3^-			3.7(3)			1.34(12)					
2834.98(4)	3^-			5.3(1)								
2885.96(9)	3^-			8(4)								
3000.96(7)	2^+–4^+			35(3)								
3032.9(2)									100			
3100.5(1)*	2^-										97(1)	3(1)
3137.18(22)	10							100				
3154.99(22)	10							100				
3351.2(2)	9								100			
3410.2(3)	9							100				
3755.53(20)				48(10)								

(continued) **$^{124}_{52}$Te**

E^*	J^π	Branching ratios in percentage										
	E_f^*:	2153.3	2224.9	2293.7	2323.0	2335.1	2483.3	2665.1	2673.8	2713.0	2747.0	2988.2
[keV]	J_f^π:	0^+	4^+	3^-	2^+	5	3^+	8^+	7	1^+	1^-	1^-
3988.1(4)		66(33)										
4325.3(5)	$1,2^+$									46(18)		

Energy levels and branching ratios [99Ho01, 99Ka26]. **$^{125}_{52}$Te**

E^*	$2J^\pi$	I_{dp}	$I_{\tau\alpha}$	I_γ	I_γ	C^2S	C^2S	σ (t,d)	σ (d,t)	σ (τ,α)	$S_{\ell j}$	$S_{\ell j}$	S_n^-	Ref.
[keV]		rel.u.	μb/sr	%	rel.u.	(d,p)	(t,d)	μb/sr	μb/sr	μb/sr	(d,t)	(τ, α)	eval	
0.0	1^+	⟨652⟩		38.0	132	0.42	0.260	3273	8908	19	1.4	1.3	1.4	81Sh02
35.4922(5)	3^+	⟨477⟩	48(4)	76.4	271	0.46	0.318	4740	3903	76	2.5	2.4	2.5	99Ka26
144.772(9)	11^-	85(2)	1035(43)			0.31	0.177	799	800	1068	6.2	5.1	5.6	99Ka26
321.090(9)	9^-		12(2)						11	15	0.02	0.02		99Ka26
402.09(4)	7^+													99Ka26
443.555(5)	3^+	42(1)	7(2)	27.1	133		0.009	137	190	14	0.13	0.39	0.13	99Ka26
463.366(2)	5^+	5(1)	5(2)					39	134	incl	0.08	incl	0.08	84Ro14
525.226(8)	7^-	16(1)	7(1)				0.014	336	57	8	0.07	0.04	0.06	81Sh02
538.37(5)	⟨1^+⟩	17(1)		7.3	38.8				10		<0.01			84Ro14
636.091(2)	7^+	18(1)	339(8)						190	248	1.9	3.8	1.9	84Ro14
642.205(3)	7^+	13(1)	incl			0.06	0.061	241	298	incl	3.0	incl	3.0	69Gr24
652.90(5)*	⟨5⟩													99Ka26
671.442(2)	5^+	266(3)	58(4)			0.06	0.043	1131	2083	91	1.4	1.6	1.5	69Gr24
729.27(1)	3^+	165(2)		42.1	262	0.04	0.055	788	83		0.08		0.08	69Gr24
786.72(2)	7^-	79(1)	15(3)			0.01	0.035	506	119	39	0.15		0.15	99Ho01
804.61(14)	15^-	7(1)	18(3)						30	incl				99Ho01
840.9(1)*	$15^{\langle-\rangle}$									5				
1017.71(1)	3^+–7^+	0.5	3(1)						6					99Ho01
1053.76(2)	5^+	71(1)	56(3)			0.02	0.027	405	1261	67	1.0	1.2	1.1	99Ho01
1066.42(2)	3^+,5^+	45(1)		1.9					88		0.10		0.10	99Ho01
1071.65(2)	5^-													99Ho01
1092.4(2)	3^+,5^+		6(1)						7		0.007		0.007	84Ro14
1133.11(6)	⟨5^+⟩	73(1)	38(4)			0.03	0.022	320	918	63	0.82	0.66	0.82	99Ho01
1148.7(2)	7^+		26(3)						54	incl	0.59	0.41	0.59	99Ho01
1191.7(1)	⟨11^+⟩													99Ka26
1209.73(2)	5^-,7^+	⟨3⟩												99Ho01
1242.94(4)	1^+–5^+	12(2)	10(2)	1.7	16.3		0.004	70	57		0.06		0.06	99Ho01
1245.9(1)**	⟨5^+⟩													99Ho01
1265.16(2)	3^+	30(4)	54(3)	3.2	35.7		0.012	176	814	56	0.75	0.88	0.82	99Ho01
1310.51(16)	15^-													99Ka26
1314.6(2)	7^+,9^+	2(1)	60(3)						34	48	0.49	0.59	0.54	84Ro14
1319.53(2)	3^-	17(1)		86.5	918				28		0.01		0.01	99Ho01
1322.42(3)	5^-,7^-						0.007	108						99Ho01
1357.5(1)	7^+,9^+	3(1)	29(2)				0.013	30	32	25	0.46	0.32	0.39	81Sh02

(continued) **$^{125}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	$I_{\tau\alpha}$ μb/sr	I_γ %	I_γ rel.u.	C^2S (d,p)	C^2S (t,d)	σ (t,d) μb/sr	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	S_n^- eval	Ref.
1435.89(3)	5^+	22(1)	31(3)		5.6		0.008	121	518	45	0.51	0.63	0.57	99Ho01
1500.65(17)	$19^{\langle-\rangle}$													99Ka26
1521.2(2)	5^+	0.5	14(2)											99Ho01
1529.71(6)	3^+	17(1)	incl	3.3	43		0.006	90	205	20	0.21	0.25	0.23	99Ho01
1570.18(22)	$\langle 15^+\rangle$													99Ka26
1580.8(1)	1–5	1.5	10(2)						449	10		0.04	0.04	99Ho01
1587.28(2)	1^+	18(1)	incl	5.3	75	0.02	0.005	90	incl	incl	0.14	0.10		99Ho01
1652.53(5)	3^+	1.0		2.1	31				24	10	0.03	0.08	0.03	99Ho01
1670.16(3)	3^+	0.9		1.6	25				21	incl	0.03	incl	0.03	99Ho01
1699.93(2)	3^-	45(1)	4(2)	0.5	7.3	0.01	0.043	580	41		0.01		0.01	99Ho01
1713.52(2)	1^+	1.3		5.2	81				86		0.04		0.04	99Ho01
1732.2(4)	7^+,9^+		77(4)						67	74	1.0	0.95	0.98	84Ro14
1759.5(1)	3^+	4		1.6	26		0.004	60	46		0.06		0.06	81Sh02
1766.45(3)	5		13(2)											99Ho01
1771.16(5)			incl											99Ho01
1775.0(1)**	$\langle 1^+\rangle$								29			0.009	0.009	84Ro14
1813.0(3)	3^+	46	14(4)						154	25	0.18	0.11	0.18	99Ho01
1820.2(2)	5^-,7^-	75				0.03	0.026	451						99Ho01
1824(5)			11(3)											
1832.51(18)	7^+,9^+								32	incl	0.33	0.22	0.33	99Ho01
1851.3+X														
1851.40(23)	$21^{\langle-\rangle}$													99Ka26
1865.30(23)	3^+	$\langle 8\rangle$		3.2	61		0.007	101	4		0.007		0.007	99Ho01
1885.3(22)		$\langle 1.4\rangle$							13					99Ka26
1899.00(5)	$\langle 3^+\rangle$			1.8	$\langle 35\rangle$				393	34	0.12	0.10	0.12	99Ho01
1904.90(3)	$\langle 3^+\rangle$	$\langle 4.4\rangle$	23(4)	3.6	68				incl	incl				99Ho01
1911.1(1)	7^+		incl						incl	incl		0.34	0.34	99Ho01
1918.55(3)	3^+	$\langle 2.0\rangle$	12(3)											99Ho01
1932.1(1)	5,7^-	$\langle 54\rangle$				0.01	0.016	267	33		0.05		0.05	99Ho01
1956.74(3)	3^-	82(3)		100	2022	0.02	0.056	694	34		0.01		0.01	99Ho01
1968.9(3)	7^+,9^+		11(2)						19	17	0.25	0.18	0.22	99Ho01
1978.76(3)	1^-,3^-	78(2)		14.6	304		0.036	596						99Ho01
1982.3(2)	5^-					0.05			81		0.03		0.03	99Ho01
1991.0(1)	1^+										incl			99Ho01
1994.9(1)	$\langle 9^-\rangle$	6(1)												99Ho01
2009.33(3)	3^-	25(1)	20(3)	41.3	883	0.01	0.019	230	17	25	0.004		0.004	99Ho01
2020.44(9)	3^+–7^+													99Ho01
2047.1(1)**								1304						
2049.51(6)	3	187(2)	6(2)	0.8	21	0.06	0.109	incl						99Ho01
2061.02(3)	3^+	2.1		5.3	129				11		0.02		0.02	99Ho01
2068.7(3)**														
2076.95(5)	1^-,3			5.9	137									99Ho01
2079.5(3)	7^+,9^+	5	19(2)						11	29	0.20	0.32	0.26	84Ro14
2087.0(1)	1,3,5^+													99Ho01
2108.58(4)	3^-		6(2)	15.8	380		0.260	4305	22		0.04		0.04	99Ho01

(continued) **$^{125}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	$I_{\tau\alpha}$ μb/sr	I_γ %	I_γ rel.u.	C^2S (d,p)	C^2S (t,d)	σ (t,d) μb/sr	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	S_n^- eval	Ref.
2112.5(3)	5^-,7^-	407(3)					incl							99Ho01
2126.8(3)	high	118(2)												99Ho01
2129.60(3)	1^-,3			11.7	296				12		0.02		0.02	99Ho01
2132.0(1)	3^+–7^+	7.1							incl		incl		incl	99Ho01
2145.5(2)	$1^{\langle+\rangle}$,3				⟨15⟩									99Ho01
2150.1(1)	3,5^+					0.02								99Ho01
2160(2)	7^+,9^+		11(2)						9		0.15		0.15	99Ho01
2174.8(3)									31		0.03		0.03	99Ka26
2176.0(2)	$1^{\langle+\rangle}$,3			0.9	24		0.037	428			incl			99Ho01
2181.93(6)	1,3			1.4	⟨35⟩					35		0.35	0.35	99Ho01
2187.7(4)	7^+,9^+	20(1)	12(2)						15		0.29		0.29	99Ho01
2204.09(4)	1^-,3	2.5		1.2	34									99Ho01
2219.4(2)	3^+			2.0	56				28		0.04		0.04	99Ho01
2226.18(5)	$3^{\langle-\rangle}$	1.4	7(2)	14.5	395									99Ho01
2232.6(3)														99Ho01
2246.51(6)	1^-,3^-			1.7	46		0.037	408						99Ho01
2251.1(1)	1^+,3	54(2)		1.2	33	0.02								99Ho01
2259.4(24)			9(2)											99Ho01
2270.83(6)	1^+,3	10(1)		2.1	62		0.009	98						99Ho01
2282.6(4)		6(1)												99Ho01
2293.1(2)	⟨5⟩	4(1)												99Ho01
2310.7(1)	1^+,3			1.8			0.147	1601						81Sh02
2313.5(1)	1^+,3				⟨54⟩									99Ho01
2315.6(1)	3^-	179(3)	10(2)	5.4	161	0.05								99Ho01
2332.7(3)		35(1)												99Ho01
2351.66(6)	⟨1^+⟩,3	24(1)		5.9	150		0.024	408						99Ho01
2372.6(1)	1^+–5^+		8(2)				0.005	89						99Ho01
2375.15(25)	⟨19^+⟩													99Ka26
2375.4(3)	5^-,7^-	8(1)												99Ho01
2379.47(6)	3^-	4.9		8.1	265									99Ho01
2384.1(2)	3,5													99Ho01
2391.1(3)	high	8(1)	8(2)											99Ho01
2410.1(1)	3			1.4	48									99Ho01
2415.6(1)	1^+,3	3.5		1.6	57									99Ho01
2419.1(3)		8(1)												99Ho01
2426.2(6)	high	2.8	7(2)											99Ho01
2438.8(2)	1^+,3	2.7		1.1	⟨43⟩									99Ho01
2450.6(3)	high	4.2	9(2)											99Ho01
2466.58(5)	1^+,3	12(1)		4.5	253									99Ho01
2479.1(3)		2.2												99Ho01
2488.4(3)		10.4												99Ho01
2495.4(1)	3	2.9	4(2)	1.7	62									99Ho01
2504.2(2)	1^+,3			1.0	⟨28⟩									99Ho01
2521.4(1)	3^-	16.1				0.01								99Ho01
2525.7(5)		2.4	7(2)											99Ho01

(continued) **$^{125}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	$I_{\tau\alpha}$ μb/sr	I_γ %	I_γ rel.u.	C^2S (d,p)	C^2S (t,d)	σ (t,d) μb/sr	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	S_n^- eval	Ref.
2542.0(20)														99Ka26
2550.14(4)	$\langle 3^- \rangle$			10.9										99Ho01
2554.7+X														99Ka26
2560.9(2)***	1,3			2.3										99Ho01
2568.0(1)	1^+,3			9.8										99Ho01
2570.2(4)	$\langle 23^+ \rangle$													99Ka26
2585.3(2)	1,3			11.6										99Ho01
2591.2(2)***				2.2										99Ho01
2607.1(1)	1^-,3			7.5										99Ho01
2611.5+X														99Ka26
2623(3)	$\langle 7^- \rangle$					0.02								69Gr24
2631(3)														
2642(3)	$\langle 3^- \rangle$					0.01								69Gr24
2649.81(8)	3^-			20.5										99Ho01
2674.3***				5.0										99Ho01
2680(4)														
2685(4)														
2689.7(2)***				3.0										99Ho01
2705.9(1)***	1,3			2.8										99Ho01
2711.6(20)														
2717.3(20)														
2723.1(25)														
2729.6(1)	1,3			3.8										99Ho01
2743.1(20)														
2751.8(6)	1^-,3^-			1.7		0.02								99Ka26
2754.1(3)***	1,3			1.9										99Ho01
2761.5(20)														
2770.7(1)	3^-			9.6		0.02								99Ho01
2775.8(1)***	1,3			2.4										99Ho01
2785.8(1)	$\langle 1^- \rangle$,3			10.4										99Ho01
2801.9(2)***	1^+,3			1.1										99Ho01
2813.9(2)***	1,3			1.7										99Ho01
2819.7(2)***	1^+,3			5.7										99Ho01
2832.1(25)														
2840.8(25)														
2852.3(25)														
2860.8(25)														
2868(4)														
2874(4)														
2882(4)														
2888.5(20)														
2898.4(2)***	1^+,3			1.9		0.01								69Gr24
2910.0(25)														
2927(4)														
2933(4)														

(continued) **$^{125}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	$I_{\tau\alpha}$ μb/sr	I_γ %	I_γ rel.u.	C^2S (d,p)	C^2S (t,d)	σ (t,d) μb/sr	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	S_n^- eval	Ref.
2938.3(2)***	1,3			1.9		0.01								69Gr24
2951.9(1)***	1,3			3.8										99Ho01
2965(3)	1^-,3^-					0.01								69Gr24
2974.9(1)	1^+,3			1.6										99Ho01
2990.7(2)	1^+,3			5.6										99Ho01
3002.01(8)	1^+,3			6.0										99Ho01
3008.2(25)														
3015(4)														99Ka26
3021.6(1)	3			13.7										99Ho01
3032.0(25)														
3045(4)														99Ka26
3060.2(25)														
3072.3(1)	1^+,3			6.4										99Ho01
3082(4)														
3090.9(25)														
3098(4)														
3106.1(1)	1^+,3			14.5										99Ho01
3130.1(20)	1^-,3^-					0.01								69Gr24
3142.3(1)	1^-,3			10.0										99Ho01
3151(4)														
3169.5(25)														
3174.2(1)	1^-,3			11.2										99Ho01
3183.9(2)	1,3			5.7										99Ho01
3189(6)														
3201(3)														
3208.26(9)	1,3			12.8										99Ho01
3219(6)														
3236(5)														
3256.7***				3.0										69Gr24
3273(6)														
3290.9(3)***	1,3			6.8										99Ho01
3298(5)														
3330(5)														
3350.1***	1^-,3^-			7.9		0.01								69Gr24
3375(15)														
3386(8)														69Gr24
3430.1(1)	1^-,3^-			<11		0.01								99Ho01
3458(8)														69Gr24
3488(5)														
3518(8)														69Gr24
3532.7(3)	1,3			<5.2										99Ho01
3554.2(3)	1^+,3			6.6										99Ho01
3563.6(2)***	1^-,3			2.8										99Ho01
3598(8)	1^-,3^-					0.01								69Gr24
3627(8)														69Gr24

(continued) **$^{125}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	$I_{\tau\alpha}$ μb/sr	I_γ %	I_γ rel.u.	C^2S (d,p)	C^2S (t,d)	σ (t,d) μb/sr	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	S_n^- eval	Ref.
3655(8)	1^-,3^-					0.01								69Gr24
3696(8)	$\langle 3^+ \rangle$					0.03								69Gr24
3721(8)	$\langle 3^+ \rangle$					0.03								69Gr24
3743(8)														69Gr24
3786(8)														69Gr24
3837(8)														69Gr24
3866(8)														69Gr24
3875(8)						0.05								69Gr24
3887(8)						incl								69Gr24
3914(8)														69Gr24
3949(8)														69Gr24
3981(8)														69Gr24
4006(8)														69Gr24
4021(8)														69Gr24
4041(8)	1^-,3^-					0.03								69Gr24
4090(10)														69Gr24
4127(10)	1^-,3^-					0.03								69Gr24
4141(10)														69Gr24
4163(10)	1^-,3^-					0.03								69Gr24
4192(10)	1^-,3^-					0.03								69Gr24
4213(10)														69Gr24
4234(10)														69Gr24
4255(10)	1^-,3^-					0.04								69Gr24
4270(10)						incl								69Gr24
4302(4)														69Gr24
4334(10)														69Gr24
4360(10)	1^-,3^-					0.04								69Gr24
4377(10)						incl								69Gr24
4404(10)														69Gr24
4433(10)														69Gr24
4458(10)														69Gr24
4476(10)														69Gr24
4494(10)														69Gr24
4513(4)														69Gr24
4532(10)														69Gr24
4551(10)														69Gr24
4607(10)														69Gr24
4621(10)														69Gr24
4651(10)														69Gr24
4677(10)														69Gr24
4689(10)														69Gr24
4741(10)														69Gr24
4770(10)														69Gr24
4797(10)	1^-,3^-													69Gr24
4836(10)														69Gr24

(continued) **$^{125}_{52}$Te**

E^* [keV]	$2J^\pi$	I_{dp} rel.u.	$I_{\tau\alpha}$ μb/sr	I_γ %	I_γ rel.u.	C^2S (d,p)	C^2S (t,d)	σ (t,d) μb/sr	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	S_n^- eval	Ref.
4849(10)														69Gr24
4880(10)														69Gr24
4914(10)														69Gr24
4928(10)	1^-,3^-													69Gr24
4961(10)														69Gr24
4977(10)														69Gr24
5008(10)														69Gr24
5022(10)														69Gr24
5055(10)	1^-,3^-													69Gr24
5083(10)														69Gr24
5100(10)														69Gr24
5125(10)														69Gr24
5141(10)														69Gr24
5161(10)	$\langle 1^+ \rangle$													69Gr24
5189(10)														69Gr24
5201(10)														69Gr24
5248(10)														69Gr24
5291(10)	$\langle 1^+ \rangle$													69Gr24
5314(10)														69Gr24
5329(10)														69Gr24
5375(10)	$\langle 1^+ \rangle$													69Gr24
5390(10)														69Gr24
5406(10)														69Gr24
5437(10)														69Gr24
5452(10)														69Gr24
5479(10)	$\langle 1^+ \rangle$													69Gr24
5506(10)														69Gr24
5546(10)														69Gr24
5570(10)														69Gr24
5592(10)														69Gr24
5629(10)														69Gr24
5641(10)														69Gr24
5660(10)														69Gr24
5679(10)														69Gr24
5702(10)														69Gr24
5725(10)														69Gr24
5752(10)														69Gr24
5785(10)														69Gr24
5804(10)														69Gr24
5837(10)														69Gr24
5867(10)														69Gr24
5903(10)														69Gr24
5941(10)														69Gr24
5966(10)														69Gr24
6012(10)														69Gr24

(continued) **$^{125}_{52}$Te**

E^*	I_{dp}	$I_{\tau\alpha}$	I_γ	I_γ	C^2S	C^2S	σ (t,d)	σ (d,t)	σ (τ,α)	$S_{\ell j}$	$S_{\ell j}$	S_n^-	Ref.
[keV]	rel.u.	μb/sr	%	rel.u.	(d,p)	(t,d)	μb/sr	μb/sr	μb/sr	(d,t)	(τ, α)	eval	
6032(10)													69Gr24
6049(10)													69Gr24
6084(10)													69Gr24
6126(10)													69Gr24
	99Ho01				99Ka26	81Sh02		84Ro14		84Ro14		84Ro14	Ref.
			99Ho01		69Gr24	99Ka26	81Sh02		84Ro14		84Ro14		Ref.

Additional data on this isotope can be found in [01Vo0A, 99Sa73, 99Ho01, 99Bo31, 98Sa55, 98Ho16, 97De38, 97BoZW, 97Kh0D, 97Sc25, 96Bo10, 95HoZV, 93Fa02, 84Ro14, 80Ro06].
Abundance: 7.07(15) %.
* from [99Ka26], not seen in [99Ho01]
** tentative level [99Ho01]
*** marked as uncertain level in [99Ho01]
Spectroscopic factors S_{dp} from [69Gr24] were given also in [99Ka26]; summed spectroscopic strengths for different subshells in stripping and pick-up reaction can be found in [99Ho01].
The following $T_{1/2}$ were given [99Ka26] for levels: 1.48(1) ns for E^*=35.5 keV, 57.40(15) days for E^*=144.8 keV, 0.673(13) ns for E^*=321 keV, 19.1(6) ps for E^*=443 keV, 13.2(5) ps for E^*=463 keV, ≤160 ps for E^*=525 keV, 40(20) ps for E^*=636 keV, ≤70 ps for E^*=642 keV and 1.26(6) ps for E^*=671 keV.
Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [99Ho01, 99Ka26]. Part 2 **$^{125}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	35.49	144.8	321.1	443.6	463.4	525.2	538.4	636.1
[keV]		$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	5^+	7^-	$\langle 1^+\rangle$	7^+
35.4922(5)	3^+		100								
144.772(9)	11^-		0.0001	100							
321.090(9)	9^-				100						
402.09(4)	7^+		32(3)	41(3)		26(2)					
443.555(5)	3^+		62.4(4)	37.6(4)							
463.366(2)	5^+		26.2(1)	74(1)			0.051(2)				
525.226(8)	7^-			0.07(3)	81.9(3)	17.9(3)		0.11(5)			
538.37(5)	$\langle 1^+\rangle$		26(14)	74(34)							
636.091(2)	7^+			98.9(3)	0.03(1)	0.023		1.07(4)	0.0058(7)		
642.205(3)	7^+			87.2(3)	0.07(4)	7.28(4)	0.224(10)	0.59(4)	4.60(4)		
652.90(5)*	$\langle 5\rangle$		4.8(16)	9.6(11)		4.5(4)	81(5)				
671.442(2)	5^+		13.4(1)	83.8(7)			0.979(13)	1.85(3)		0.007(4)	
729.27(1)	3^+		20(3)	78(3)			≤9			2.0(4)	
786.72(2)	7^-				<66	93(19)			7.2(16)		
840.9(1)*	$15^{\langle -\rangle}$				100						
1017.71(1)	3^+–7^+							80(16)			
1053.76(2)	5^+			16(3)			48(10)	25(5)		2.1(5)	

(continued) **$^{125}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	35.49	144.8	321.1	443.6	463.4	525.2	538.4	636.1
[keV]		$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	5^+	7^-	$\langle 1^+ \rangle$	7^+
1066.42(2)	$3^+,5^+$							≈39		55(11)	
1071.65(2)	5^-					17(3)	x		83(16)		
1092.4(2)	$3^+,5^+$							x			
1133.11(6)	$\langle 5^+ \rangle$			63(13)			x			8(2)	2.2(6)
1191.7(1)	$\langle 11^+ \rangle$				15						76
1209.73(2)	$5^-,7^+$					83(16)			17(3)		
1242.94(4)	1^+–5^+		23(5)	60(12)			<7	x		11(2)	
1245.9(1)**	$\langle 5^+ \rangle$							x			x
1265.16(2)	3^+			81(16)			10.3(19)				
1310.51(16)	15^-				43						
1314.6(2)	$7^+,9^+$										x
1319.53(2)	3^-		<8	<10			1.7(4)		56(11)	20(4)	
1322.42(3)	$5^-,7^-$					31(6)			16(4)		
1435.89(3)	5^+			66(13)			13(3)	11(3)	3.9(13)		
1521.2(2)	5^+							100			
1529.71(6)	3^+		x	59(7)			22(5)	<60			1.5(8)
1580.8(1)	1–5						100				
1587.28(2)	1^+		78(16)	9(2)			9(2)				
1652.53(5)	3^+						10(1)		<11	11(3)	
1670.16(3)	3^+		41(9)	9(2)			<56			<32	x
1699.93(2)	3^-						7(2)				
1713.52(2)	1^+		<19	24(5)			<37				
1759.5(1)	3^+							<27			x
1766.45(3)	5						45(10)				
1771.16(5)				[100]							
1775.0(1)**	$\langle 1^+ \rangle$									100	
1813.0(3)	3^+									x	
1865.30(23)	3^+		71(15)	<45			29(6)			<55	
1899.00(5)	$\langle 3^+ \rangle$			63(13)			37(8)	<11			x
1904.90(3)	$\langle 3^+ \rangle$		65(14)				<73			27(5)	<48
1911.1(1)	7^+							<32	32(6)		
1918.55(3)	3^+		30(7)	18(4)			32(7)			x	
1956.74(3)	3^-		69(15)	<12			12(2)	<24		15(3)	
1978.76(3)	$1^-,3^-$		44(9)	9(2)			<11			43(9)	
1982.3(2)	5^-						100				
1991.0(1)	1^+						x				
1994.9(1)	$\langle 9^- \rangle$								<20		
2009.33(3)	3^-		68(14)	8(2)			3.6(9)	4.1(9)		<2	
2020.44(9)	3^+–7^+										x
2049.51(6)	3						59(13)	x			<24
2061.02(3)	3^+		<19	11(3)			68(14)	x		<14	8(3)
2068.7(3)**							31(6)				
2087.0(1)	$1,3,5^+$									100	
2108.58(4)	3^-		24(5)	26(5)			12(3)				
2129.60(3)	$1^-,3$			83(17)			<64			17(4)	

(continued) **$^{125}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	0.0	35.49	144.8	321.1	443.6	463.4	525.2	538.4	636.1
[keV]	$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	5^+	7^-	$\langle 1^+ \rangle$	7^+
2132.0(1)	3^+–7^+					[24]	[76]			x
2145.5(2)	$1^{\langle + \rangle}$,3						100			
2150.1(1)	3,5^+								[43]	
2176.0(2)	$1^{\langle + \rangle}$,3	[100]								
2181.93(6)	1,3	14(3)	7(3)			34(7)			28(6)	
2204.09(4)	1^-,3					70(12)				
2219.4(2)	3^+		[100]							
2226.18(5)	$3^{\langle - \rangle}$		<36			19(4)	13(3)			x
2232.6(3)						100				
2246.51(6)	1^-,3^-	[100]				x				
2251.1(1)	1^+,3					[44]				
2270.83(6)	1^+,3	22(5)	43(8)						<35	
2293.1(2)	$\langle 5 \rangle$									67(13)
2310.7(1)	1^+,3	40(10)	40(10)				x			
2313.5(1)	1^+,3	53(11)	11(3)			36(8)				
2315.6(1)	3^-					[57]	x		x	
2351.66(6)	$\langle 1^+ \rangle$,3		17(5)			25(5)	<28			
2372.6(1)	1^+–5^+					x	45(10)		55(13)	
2379.47(6)	3^-	<65				15(3)	x		22(9)	
2384.1(2)	3,5		[100]							
2410.1(1)	3						x			
2415.6(1)	1^+,3	[25]	<94							
2438.8(2)	1^+,3		76(17)						17(2)	
2466.58(5)	1^+,3	16(4)	16(6)			16(4)	14(4)		15(3)	
2495.4(1)	3		62(12)			12(3)	27(6)			
2504.2(2)	1^+,3		50(14)			50(14)	<50			
2521.4(1)	3^-	[53]	[12]							
2550.14(4)	$\langle 3^- \rangle$	<88	23(6)			25(2)	25(2)		19(6)	
2560.9(2)***	1,3	59(12)								
2568.0(1)	1^+,3	<75	75(16)			<50	<47			
2585.3(2)	1,3		<65			32(7)	11(2)		57(11)	
2591.2(2)***							58(10)			
2607.1(1)	1^-,3	63(13)	37(7)							
2649.81(8)	3^-		24(6)			14(3)	51(10)	<22		
2705.9(1)***	1,3		100							
2751.8(6)	1^-,3^-	<50	100							
2754.1(3)***	1,3								100	
2770.7(1)	3^-	14(3)	21(4)				14(3)		11(3)	
2775.8(1)***	1,3					100				
2785.8(1)	$\langle 1^- \rangle$,3	100	<100				x			
2801.9(2)***	1^+,3	100					x			
2813.9(2)***	1,3					59(12)	41(8)			
2819.7(2)***	1^+,3		<84				61(15)			
2898.4(2)***	1^+,3	100					<63			
2938.3(2)***	1,3		[100]							

(continued) **$^{125}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	0.0	35.49	144.8	321.1	443.6	463.4	525.2	538.4	636.1
[keV]	$2J_f^\pi$:	1^+	3^+	11^-	9^-	3^+	5^+	7^-	$\langle 1^+ \rangle$	7^+
2951.9(1)***	1,3		100							
2974.9(1)	1^+,3		11(2)				38(8)			
2990.7(2)	1^+,3	12(3)	48(10)			6(1)	23(5)			
3002.01(8)	1^+,3						14(3)			
3021.6(1)	3	14(3)	29(6)				35(8)		9(3)	
3072.3(1)	1^+,3		[38]							
3106.1(1)	1^+,3					[39]	[61]		<85	
3142.3(1)	1^-,3	21(4)	<42			36(8)				
3183.9(2)	1,3	39(8)				34(8)				
3208.26(9)	1,3	61(13)	39(8)			x				
3290.9(3)***	1,3	58(12)								
3430.1(1)	1^-,3^-	x								
3532.7(3)	1,3					100				
3554.2(3)	1^+,3	64(13)	x				36(8)			
3563.6(2)***	1^-,3	x								

Energy levels and branching ratios [99Ho01, 99Ka26]. Part 3 **$^{125}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	642.2	671.4	729.3	786.6	840.9	1017.7	1053.9	1066.5	1071.9
[keV]	$2J_f^\pi$:	7^+	5^+	3^+	7^-	$15^{\langle - \rangle}$		3^+,5^+	3^+,5^+	5^-
1017.71(1)	3^+–7^+		20(4)							
1053.76(2)	5^+	8(1)	x							
1066.42(2)	3^+,5^+	x	5.3(13)							
1071.65(2)	5^-				<16					
1092.4(2)	3^+,5^+	100								
1133.11(6)	$\langle 5^+ \rangle$	x	20(4)	8(2)						
1191.7(1)	$\langle 11^+ \rangle$	8								
1242.94(4)	1^+–5^+		4.8(11)							
1265.16(2)	3^+		8.4(19)							x
1310.51(16)	15^-					57				
1319.53(2)	3^-		0.7(5)	5(1)	8(2)			0.4(2)		7(2)
1322.42(3)	5^-,7^-				53(12)					
1357.5(1)	7^+,9^+	100	x							
1435.89(3)	5^+		6.5(13)	x						
1500.65(17)	$19^{\langle - \rangle}$					100				
1529.71(6)	3^+	17(4)		≤3						
1587.28(2)	1^+			4.3(11)						
1652.53(5)	3^+	8(1)	13(3)	46(10)	x				6(1)	6(1)
1670.16(3)	3^+		20(4)	29(5)						
1699.93(2)	3^-		11(4)		23(5)					60(11)
1713.52(2)	1^+		30(6)	46(10)						

(continued) **$^{125}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	642.2	671.4	729.3	786.6	840.9	1017.7	1053.9	1066.5	1071.9
[keV]		$2J_f^\pi$:	7^+	5^+	3^+	7^-	$15^{\langle-\rangle}$		$3^+,5^+$	$3^+,5^+$	5^-
1732.2(4)	$7^+,9^+$		100								
1759.5(1)	3^+		x	x	95(19)				x		
1766.45(3)	5					24(5)			x		
1865.30(23)	3^+									<21	
1899.00(5)	$\langle 3^+\rangle$		x		<22						
1904.90(3)	$\langle 3^+\rangle$				<43						
1911.1(1)	7^+										23(6)
1918.55(3)	3^+			3(1)	18(4)						
1932.1(1)	$5,7^-$							[100]			
1956.74(3)	3^-			<13	<8	<3.2			1.2(3)		3.3(8)
1968.9(3)	$7^+,9^+$		100								
1978.76(3)	$1^-,3^-$										4.4(9)
1991.0(1)	1^+				100						
2009.33(3)	3^-			<11							14(3)
2047.1(1)**											100
2049.51(6)	3			30(7)	<95				11(2)		
2061.02(3)	3^+			6.8(14)	x						
2068.7(3)**				69(16)							
2076.95(5)	$1^-,3$										[100]
2108.58(4)	3^-										38(8)
2129.60(3)	$1^-,3$										<17
2145.5(2)	$1^{\langle+\rangle},3$			x							
2150.1(1)	$3,5^+$										[57]
2176.0(2)	$1^{\langle+\rangle},3$			<100							
2181.93(6)	1,3			x	16(4)						
2204.09(4)	$1^-,3$										<85
2226.18(5)	$3^{\langle-\rangle}$			52(10)	16(3)					<9	
2232.6(3)					<50						
2251.1(1)	$1^+,3$			[37]	<37			[19]			
2270.83(6)	$1^+,3$			27(5)	8(2)						
2293.1(2)	$\langle 5\rangle$							x			
2310.7(1)	$1^+,3$				<80						
2313.5(1)	$1^+,3$				<30						
2315.6(1)	3^-										x
2351.66(6)	$\langle 1^+\rangle,3$			29(6)	29(6)				x		
2379.47(6)	3^-			26(7)	37(9)						
2415.6(1)	$1^+,3$			[56]							
2438.8(2)	$1^+,3$			7(2)	<36						
2466.58(5)	$1^+,3$			24(5)					<14		
2495.4(1)	3										x
2521.4(1)	3^-			[35]							
2525.7(5)				48(13)	52(13)						
2550.14(4)	$\langle 3^-\rangle$										9(2)
2560.9(2)***	1,3				41(12)						
2568.0(1)	$1^+,3$				25(6)						

(continued) **$^{125}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	642.2	671.4	729.3	786.6	840.9	1017.7	1053.9	1066.5	1071.9
[keV]		$2J_f^\pi$:	7^+	5^+	3^+	7^-	$15^{\langle-\rangle}$		$3^+,5^+$	$3^+,5^+$	5^-
2591.2(2)***			42(10)								
2607.1(1)	$1^-,3$				<47						<44
2649.81(8)	3^-				<72					<27	<48
2689.7(2)***				100							
2770.7(1)	3^-										41(9)
2819.7(2)***	$1^+,3$			39(23)							
2951.9(1)***	1,3										<58
2974.9(1)	$1^+,3$			28(7)	23(7)						
2990.7(2)	$1^+,3$			9(3)	3(2)						
3002.01(8)	$1^+,3$			50(12)	36(9)						
3021.6(1)	3				13(3)						x
3072.3(1)	$1^+,3$			[62]							
3106.1(1)	$1^+,3$			<36							
3142.3(1)	$1^-,3$										43(8)
3183.9(2)	1,3				26(5)						

Energy levels and branching ratios [99Ho01, 99Ka26]. Part 4 **$^{125}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1133.3	1191.7	1209.7	1243.0	1265.2	1310.5	1319.6	1322.3	1500.6
[keV]		$2J_f^\pi$:	$3^+,5^+$	$\langle11^+\rangle$	$5^-,7,9$	$3^+,5^+$	$3^+,5^+$	15^-	3^-	$5^-,7^-$	$19^{\langle-\rangle}$
1500.65(17)	$19^{\langle-\rangle}$							0.5			
1570.18(22)	$\langle15^+\rangle$			100							
1759.5(1)	3^+		4.7(15)								
1766.45(3)	5		x		31(7)						
1771.16(5)			x								
1851.40(23)	$21^{\langle-\rangle}$										100
1904.90(3)	$\langle3^+\rangle$		7(2)								
1911.1(1)	7^+				44(9)						
1956.74(3)	3^-								x		
1994.9(1)	$\langle9^-\rangle$				[100]						
2009.33(3)	3^-					3.2(9)				x	
2061.02(3)	3^+				5.5(14)						
2108.58(4)	3^-									x	
2174.8(3)								46			54
2204.09(4)	$1^-,3$									30(6)	
2293.1(2)	$\langle5\rangle$					33(7)					
2310.7(1)	$1^+,3$						20(5)				
2315.6(1)	3^-		[43]								
2351.66(6)	$\langle1^+\rangle,3$				x						
2375.15(25)	$\langle19^+\rangle$										18
2410.1(1)	3									x	

(continued) **$^{125}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage								
	E_f^*:	1133.3	1191.7	1209.7	1243.0	1265.2	1310.5	1319.6	1322.3	1500.6
[keV]	$2J_f^\pi$:	$3^+,5^+$	$\langle 11^+\rangle$	$5^-,7,9$	$3^+,5^+$	$3^+,5^+$	15^-	3^-	$5^-,7^-$	$19^{\langle -\rangle}$
2415.6(1)	$1^+,3$							[19]		
2568.0(1)	$1^+,3$	<22								
2607.1(1)	$1^-,3$							x		
2649.81(8)	3^-	11(3)						x		
2729.6(1)	1,3	x								
3021.6(1)	3								<59	
3208.26(9)	1,3							<79		
3290.9(3)***	1,3							42(8)		

Energy levels and branching ratios [99Ho01, 99Ka26]. Part 5 **$^{125}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage				
		E_f^*:	1570.2	1851+X	1851.4	2375.1
[keV]		$2J_f^\pi$:	$\langle 15^+\rangle$		$21^{\langle -\rangle}$	$\langle 19^+\rangle$
2375.15(25)	$\langle 19^+\rangle$		15		68	
2554.7+X				100		
2570.2(4)	$\langle 23^+\rangle$				95	5.2
2611.5+X				100		

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. **$^{126}_{52}$Te**

E^*	J^π	I_{dp}	$I_{d\tau}$	I_γ	S'	L	σ (d,p)	β_L	$I_{s,0}$	$\Gamma_\circ$	L	σ (p,t)	Ref.
[keV]		arb.u	arb.u	%	(d,p)	(d,p)	μb/sr	(p,p′)	[eVb]	[meV]	(p,t)	*rel.*	
0.0	0^+	1000(30)	1000(39)	0.42	0.62	0	40	0.158			0		02Ka66
666.32(2)	2^+	83(9)	356(11)	0.10		2	11						68Wi14
1361.36(2)	4^+	14(12)	18.3(3)										97Ot02
1420.20(2)	2^+	30(6)	35(4)	0.33		2	6						97Ot02
1776.51(9)	6^+		57(8)										97Ot02
1873.44(4)	0^+	64(13)	20(2)	0.09		0	6				0		71Gr01
2013.09(4)	4^+		8(4)					0.062					97Ot02
2045.17(2)	2	23(6)	44(5)	0.07			6						97Ot02
2113.58(2)		18(6)	9(1)	0.18									97Ot02
2128.36(2)	3^+		5(2)										97Ot02
2181.49(3)	1			0.07									03Vo03
2184.30(4)	2^+	130(12)	43(5)	0.11	0.30	2	38						97Ot02
2218.20(4)	5^-	291(17)			0.96	$\langle 5\rangle$	23	0.058			5	55	97Ot02
2309.19(3)	4^+												
2350.8(12)*													

(continued) **$^{126}_{52}$Te**

E^* [keV]	J^π	I_{dp} arb.u	$I_{d\tau}$ arb.u	I_γ %	S' (d,p)	L (d,p)	σ (d,p) μb/sr	β_L (p,p′)	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	L (p,t)	σ (p,t) *rel.*	Ref.
2385.83(2)	3^-	24(6)									3	32	97Ot02
2386.0(1)*	3^-							0.118					04Nu0A
2396.5(1)	6^+		34(3)										97Ot02
2421.11(4)	2^+	228(14)		0.01	0.15		57						97Ot02
2479.88(7)	3^+,4^+												
2496.7(7)	7^-							0.045			7	63	75Ma03
2503.53(5)	2^+	53(16)		0.03	0.18	2	23						97Ot02
2515.50(4)	$\langle 4–6\rangle^-$	33(7)											97Ot02
2533.85(5)	4^+			0.01									03Vo03
2577.80(3)	3	151(12)	27(4)										97Ot02
2578.5(5)*	0^+,1^+				0.10	0	48						04Nu0A
2585.53(3)	2^+	84(10)	⟨14⟩										97Ot02
2588.9(6)*													04Nu0A
2639.83(9)	$\langle 0^+–2\rangle$	48(7)		0.06			15						97Ot02
2661.4(1)*	⟨5⟩												04Nu0A
2678.83(3)	2^+			0.15									03Vo03
2682.01(3)	$\langle 2^+\rangle$	210(13)	11(3)	0.03	0.42	2	78						97Ot02
2686.5(1)*													04Nu0A
2704.5(1)*	5^+,6^+												04Nu0A
2731.21(3)	3^+	293(15)			0.1+1	3+5	37						97Ot02
2744.09(4)	2^+–4^+	16(6)											97Ot02
2766.38(7)	8^+												
2782.71(3)	2,3^+	406(17)	5(1)	0.33	1.62	5	39						97Ot02
2802.50(5)	2^+	77(12)											97Ot02
2811.6(3)*	$\langle 7^-\rangle$												04Nu0A
2812.5(1)	1								13(1)	9(1)			97Sc15
2813.8(1)	⟨2,3⟩	173(15)		0.13									97Ot02
2833.76(3)	$\langle 3^+\rangle$	19(11)		0.10				0.042					97Ot02
2839.7(6)*	$\langle 6^+\rangle$												04Nu0A
2858.76(4)	2^+,3^+			0.02									03Vo03
2862.6(1)**	⟨3⟩	21(6)											97Ot02
2877.25(3)	2^+			0.08									03Vo03
2897.93(8)	1^-	23(10)		0.16					23(3)	21(3)			97Sc15
2911.9(4)*													04Nu0A
2935.87(3)	2,3			0.02									03Vo03
2955.5(10)*													04Nu0A
2971.81(4)	⟨3⟩												
2974.48(3)	1	31(12)	5(1)	1.07			18		18(2)	17(2)			97Sc15
2975.3(2)	10^+												
2977.8(6)*													04Nu0A
2989.4(3)*													04Nu0A
2995.9(4)*		62(14)											04Nu0A
2999.4(5)*													
3008.29(5)	$\langle 2^+,3^+\rangle$		5(1)				21						97Ot02
3015.46(3)	⟨1,2⟩			0.02					5(1)	4(1)			97Sc15

(continued) **$^{126}_{52}$Te**

E^* [keV]	J^π	I_{dp} arb.u	$I_{d\tau}$ arb.u	I_γ %	S' (d,p)	L (d,p)	σ (d,p) μb/sr	β_L (p,p′)	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	L (p,t)	σ (p,t) *rel.*	Ref.
3018.49(3)	1,2$^+$			0.02									03Vo03
3045.07(10)	1$^+$,2$^+$			0.06									03Vo03
3066.29(2)	1$^-$,2$^+$			0.15									03Vo03
3071.12(23)*													
3075.5(7)*													
3101.14(10)*							17						71Gr01
3114.0(3)*													
3126.9(3)*													
3132.18(3)	1,2	79(14)		0.08	0.15	3	32						97Ot02
3143.66(3)	1$^+$,2			0.17									03Vo03
3149.2(4)*													
3159.7(2)*													
3171.6(3)*													
3193.5(3)*	⟨7–9⟩	62(9)											97Ot02
3202.28(8)	⟨3⟩												
3225.1(4)*													
3231.3(2)*													
3243.6(4)*													
3249.41(4)**	0$^+$,1,2$^+$			0.72									03Vo03
3256.9(12)*							35						71Gr01
3262.34(2)**	1,2$^+$	44(8)		0.70									97Ot02
3269.4(10)*							23						71Gr01
3301.1(19)*		22(6)											97Ot02
3308.91(3)**	2$^+$			2.82									03Vo03
3330*							23						71Gr01
3349.15(4)	1,2$^+$			0.43									03Vo03
3371.9(1)**		25(7)											97Ot02
3389.8(18)*	⟨1$^+$–3$^+$⟩	51(9)			0.09	⟨2⟩	26						97Ot02
3450.5(4)*		26(7)											97Ot02
3473.5(8)*													
3576.29(4)**	1,2$^+$			0.40									03Vo03
3602.33(5)**	1,2$^+$			0.33									03Vo03
3681.3(2)*	⟨1,2⟩								10(2)	28(8)			97Sc15
3687.9(4)*	⟨12$^+$⟩												
3695.6*							23						71Gr01
3759.78(4)	1,2$^+$								7(2)	9(2)			97Sc15
3763.6*							18						
3798.8(1)**	1,2$^+$			0.65									03Vo03
3807.30(3)	1$^+$,2$^+$			0.98									03Vo03
3847.6*							21						71Gr01
3882.17(5)	1,2$^+$			0.40					10(2)	30(9)			97Sc15
3922.53(7)**				0.24									03Vo03
3927.11(3)**				0.16									03Vo03
3952.57(4)**				0.18									03Vo03
3973.10(3)	0,1,2				0.21	3	42						02Ka66

(continued) **$^{126}_{52}$Te**

E^*	J^π	I_{dp}	$I_{d\tau}$	I_γ	S'	L	σ (d,p)	β_L	$I_{s,0}$	$\Gamma_\circ$	L	σ (p,t)	Ref.
[keV]		arb.u	arb.u	%	(d,p)	(d,p)	μb/sr	(p,p′)	[eVb]	[meV]	(p,t)	*rel.*	
4023.85(7)**	$1,2^+$			0.52									03Vo03
4044.6*							24						71Gr01
4081.6*							21						71Gr01
4156.45(6)**	0,1,2			0.30									03Vo03
4172.33(6)**	$1,2^+$			0.16									03Vo03
4282.6*							26						71Gr01
4324.84(3)**	2^+			0.25									03Vo03
4343.6*							32						71Gr01
4381.6*							24						71Gr01
4421.6*	$\langle 1^+–3^+\rangle$				0.08	$\langle 2\rangle$	32						02Ka66
4448.36(6)**	0^+,1,2			0.24									03Vo03
4466.6*	$\langle 1^+–3^+\rangle$				0.14	$\langle 2\rangle$	53						71Gr01
4504.80(4)	$1,2^+$			0.78	0.10	$\langle 1\rangle$	112						03Vo03
4510.62(5)	0,1,2			0.81	incl		incl						03Vo03
4538.2(4)*	$\langle 14^+\rangle$												
4559.6	$\langle 1^+–3^+\rangle$				0.13	$\langle 2\rangle$	56						02Ka66
4594.6	$0^–2^–$				0.07	1	63						02Ka66
4651.76(6)**	2^+			0.19									03Vo03
4671.43(8)	$1,2^+$			0.43			201						03Vo03
4700.38(4)	$1,2^+$			0.60	0.16		incl						03Vo03
4747.47(9)**	$\langle 2\rangle$			0.53									03Vo03
4767.33(4)	1^+,2			0.41									03Vo03
4776.00(5)**				0.44			212						03Vo03
4799.6*	$0^–2^–$				0.20	1	incl						02Ka66
4879.93(4)	2^+			0.25									03Vo03
4883.27(4)	2^+			0.45	0.08	$\langle 1\rangle$	105						03Vo03
4918.77(5)**	$1,2^+$			0.39									03Vo03
4934.51(12)	0^+,1,2			0.55									03Vo03
4939.6*	$\langle 0^–2^–\rangle$				0.08	$\langle 1\rangle$	96						02Ka66
5070.6*	$\langle 0^–2^–\rangle$				0.06	$\langle 1\rangle$	85						02Ka66
7790.3(7)*													
7915.3(10)*	1												
9113.69(3)													03Vo03
		97Ot02	97Ot02	03Vo03			71Gr01		97Sc15	97Sc15	71SeZE	76Ma21	Ref.

(continued) **$^{126}_{52}$Te**

E^*	J^π	I_{dp}	$I_{d\tau}$	I_γ	S'	L	σ (d,p)	β_L	$I_{s,0}$	$\Gamma_\circ$	L	σ (p,t)	Ref.
[keV]		arb.u	arb.u	%	(d,p)	(d,p)	μb/sr	(p,p′)	[eVb]	[meV]	(p,t)	*rel.*	
					71Gr01						02Ka66		Ref.
					02Ka66			75Ma03					Ref.

Additional data on this isotope can be found in [03Vo03, 01Vo0A, 00Gr02, 98Zh09, 97Sc15, 97ScZY, 97Sc25, 97Ot02, 92Ch40, 90Be50, 71Gr01, 71SeZE].
Abundance: 18.84(25) %.
* absent in [03Vo03]
** introduced in [97Ot02] and [03Vo03]
The relative cross section σ (p,t) is given with summation from 7,5° to 50°, which is normalized to the 7^- state transition in $^{130}Te(p,t)$ reaction [76Ma21].
C^2S from the (d,τ) reaction are given in Supplement; they are normalized to $^{39}K(d,^3He)$ [68Wi14, 02Ka66].
The following $T_{1/2}$ were given in [04Nu0A] for the low-lying levels: 4.5(1) ps for E^*=666 keV, 2.8(12) ps for E^*=1361 keV, 0.8(2) ps for E^*=1420 keV, 68(2) ps for E^*=1776 keV, 0.152(5) ns for E^*=2497 keV and 10.7(9) ns for E^*=2975 keV.
σ (τ,n)=130, 65 and 16 μb/sr were obtained for levels at E^*=0.0, 1920 keV (O^+) and 2310 keV (2^+) in [78Fi06].
Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 2 **$^{126}_{52}$Te**

E^*	J^π	$B(E1)$	$B(M1)$	C^2S	Ref.	Branching ratios in percentage							
						E_f^*:	0.0	666.3	1361.4	1420.2	1776.5	1873.4	2013.1
[keV]		$10^{-3}ef$	$[\mu_N^2]$	(d,τ)		J_f^π:	0^+	2^+	4^+	2^+	6^+	0^+	4^+
0.0	0^+			0.39	02Ka66								
666.32(2)	2^+			0.18	68Wi14		100						
1361.36(2)	4^+				97Ot02			100					
1420.20(2)	2^+				97Ot02		6.83(18)	93.2(12)					
1776.51(9)	6^+				97Ot02				100				
1873.44(4)	0^+				71Gr01			100					
2013.09(4)	4^+				97Ot02			29	69	1.6	0.53		
2045.17(2)	2				97Ot02		59	28		13			
2113.58(2)					97Ot02			100					
2128.36(2)	3^+				97Ot02			19	18	63			
2181.49(3)	1				03Vo03		14	79		7.1			
2184.30(4)	2^+				97Ot02		11	88		1.4			
2218.20(4)	5^-				97Ot02				82				18
2309.19(3)	4^+								47	47	6.3		
2350.8(12)*													
2385.83(2)	3^-				97Ot02			46	3.4	4.2			18
2386.0(1)*	3^-				04Nu0A								49(1)
2396.5(1)	6^+				97Ot02				100				
2421.11(4)	2^+				97Ot02		4.4	80					15

(continued) **$^{126}_{52}$Te**

E^*	J^π	$B(E1)$	$B(M1)$	C^2S	Ref.	Branching ratios in percentage							
						E_f^*:	0.0	666.3	1361.4	1420.2	1776.5	1873.4	2013.1
[keV]		$10^{-3}ef$	$[\mu_N^2]$	(d,τ)		J_f^π:	0^+	2^+	4^+	2^+	6^+	0^+	4^+
2479.88(7)	3^+,4^+							34	66				
2496.7(7)	7^-				75Ma03						96		
2503.53(5)	2^+				97Ot02		17	81		1.6			
2515.50(4)	$\langle 4–6\rangle^-$				97Ot02				14		9.1		
2533.85(5)	4^+				03Vo03				67	7.4	7.4		7.4
2577.80(3)	3				97Ot02			57	35	4.0			
2578.5(5)*	0^+,1^+				04Nu0A								
2585.53(3)	2^+				97Ot02			82	5.3				
2588.9(6)*					04Nu0A								
2639.83(9)	$\langle 0^+–2\rangle$				97Ot02			98		2.3			
2661.4(1)*	$\langle 5\rangle$				04Nu0A				81(3)				19(1)
2678.83(3)	2^+				03Vo03		32	3.2	37	15			
2682.01(3)	$\langle 2^+\rangle$				97Ot02			67	1.4	32			
2686.5(1)*					04Nu0A				61(2)				39(2)
2704.5(1)*	5^+,6^+				04Nu0A						100		
2731.21(3)	3^+				97Ot02			22	32	38			
2744.09(4)	$2^+–4^+$				97Ot02			33	33				33
2766.38(7)	8^+										100		
2782.71(3)	2,3^+				97Ot02			81					
2802.50(5)	2^+				97Ot02		14	11	65				
2811.6(3)*	$\langle 7^-\rangle$				04Nu0A								
2812.5(1)	1	0.37(4)	34(4)		97Sc15		99						
2813.8(1)	$\langle 2,3\rangle$				97Ot02			26		38			
2833.76(3)	$\langle 3^+\rangle$				97Ot02			26		74			
2839.7(6)*	$\langle 6^+\rangle$				04Nu0A				24(2)		76(51)		
2858.76(4)	2^+,3^+				03Vo03			40		33			4.4
2862.6(1)**	$\langle 3\rangle$				97Ot02			10	16	24			32
2877.25(3)	2^+				03Vo03		40	29					
2897.93(8)	1^-	0.84(10)	76(9)		97Sc15		83			15			
2911.9(4)*					04Nu0A				100				
2935.87(3)	2,3				03Vo03		80	13					
2955.5(10)*					04Nu0A								
2971.81(4)	$\langle 3\rangle$							52		40			
2974.48(3)	1	0.62(8)	56(7)		97Sc15		86	13					
2975.3(2)	10^+												
2977.8(6)*					04Nu0A								
2989.4(3)*					04Nu0A						57(5)		
2995.9(4)*					04Nu0A								
2999.4(5)*													
3008.29(5)	$\langle 2^+,3^+\rangle$				97Ot02			11	69				
3015.46(3)	$\langle 1,2\rangle$	0.13(2)	12(2)		97Sc15		40						
3018.49(3)	$1,2^+$				03Vo03		21						
3045.07(10)	1^+,2^+				03Vo03		29	54					
3066.29(2)	1^-,2^+				03Vo03		20	56					
3071.12(23)*													

(continued) **$^{126}_{52}$Te**

E^*	J^π	$B(E1)$	$B(M1)$	C^2S	Ref.	Branching ratios in percentage						
						E_f^*: 0.0	666.3	1361.4	1420.2	1776.5	1873.4	2013.1
[keV]		$10^{-3}ef$	$[\mu_N^2]$	(d,τ)		J_f^π: 0^+	2^+	4^+	2^+	6^+	0^+	4^+
3075.5(7)*												
3101.14(10)*					71Gr01							
3114.0(3)*												
3126.9(3)*												
3132.18(3)	1,2				97Ot02		22					
3143.66(3)	1^+,2				03Vo03		21.5		26.2			
3149.2(4)*												
3159.7(2)*												
3171.6(3)*												
3193.5(3)*	$\langle 7–9\rangle$				97Ot02							
3202.28(8)	$\langle 3\rangle$						20.0		37.1			2.86
3225.1(4)*												
3231.3(2)*												
3243.6(4)*												
3249.41(4)**	0^+,1,2^+				03Vo03	30.2	10.5		16.3			
3256.9(12)*					71Gr01							
3262.34(2)**	1,2^+				97Ot02	29.0	14.5					
3269.4(10)*					71Gr01							
3301.1(19)*					97Ot02							
3308.91(3)**	2^+				03Vo03		40.0		16.9		2.25	
3330*					71Gr01							
3349.15(4)	1,2^+				03Vo03	39.1	51.3					
3371.9(1)**					97Ot02							
3389.8(18)*	$\langle 1^+–3^+\rangle$				97Ot02							
3450.5(4)*					97Ot02							
3473.5(8)*												
3576.29(4)**	1,2^+				03Vo03	24.3	75.7					
3602.33(5)**	1,2^+				03Vo03	1.75						
3681.3(2)*	$\langle 1,2\rangle$	0.56(14)	51(14)		97Sc15	41(6)	59(6)					
3687.9(4)*	$\langle 12^+\rangle$											
3695.6*					71Gr01							
3759.78(4)	1,2^+	0.16(4)	14(4)		97Sc15	44.0	4.00					
3763.6*												
3798.8(1)**	1,2^+				03Vo03	7.32	50.0					
3807.30(3)	1^+,2^+				03Vo03		59.4				1.40	
3847.6*					71Gr01							
3882.17(5)	1,2^+	0.49(16)	44(13)		97Sc15	42.5	31.5					
3922.53(7)**					03Vo03		33.3					
3927.11(3)**					03Vo03	60.0					14.3	
3952.57(4)**					03Vo03	23.3						
3973.10(3)	0,1,2				02Ka66		28.6					
4023.85(7)**	1,2^+				03Vo03	48.2			29.6			
4044.6*					71Gr01							
4081.6*					71Gr01							
4156.45(6)**	0,1,2				03Vo03				19.0			

(continued) **$^{126}_{52}$Te**

E^*	J^π	$B(E1)$	$B(M1)$	C^2S	Ref.	Branching ratios in percentage						
						E_f^*: 0.0	666.3	1361.4	1420.2	1776.5	1873.4	2013.1
[keV]		$10^{-3}ef$	$[\mu_N^2]$	(d,τ)		J_f^π: 0^+	2^+	4^+	2^+	6^+	0^+	4^+
4172.33(6)**	1,2$^+$				03Vo03	17.6	14.7					
4282.6*					71Gr01							
4324.84(3)**	2$^+$				03Vo03	32.4	24.3				10.8	13.5
4343.6*					71Gr01							
4381.6*					71Gr01							
4421.6*	$\langle 1^+$–$3^+\rangle$				02Ka66							
4448.36(6)**	0$^+$,1,2				03Vo03		38.7		9.68			
4466.6*	$\langle 1^+$–$3^+\rangle$				71Gr01							
4504.80(4)	1,2$^+$				03Vo03	46.8	28.7		6.38			
4510.62(5)	0,1,2				03Vo03		65.6		34.4			
4538.2(4)*	$\langle 14^+\rangle$											
4559.6	$\langle 1^+$–$3^+\rangle$				02Ka66							
4594.6	0$^-$–2$^-$				02Ka66							
4651.76(6)**	2$^+$				03Vo03	44.2	14.0					18.6
4671.43(8)	1,2$^+$				03Vo03	63.2	18.4					
4700.38(4)	1,2$^+$				03Vo03	58.3						
4747.47(9)**	$\langle 2\rangle$				03Vo03		48.0					
4767.33(4)	1$^+$,2				03Vo03		18.0					
4776.00(5)**					03Vo03		22.5					
4799.6*	0$^-$–2$^-$				02Ka66							
4879.93(4)	2$^+$				03Vo03	5.71	47.1		7.14			
4883.27(4)	2$^+$				03Vo03	21.2	21.2		8.24		11.8	
4918.77(5)**	1,2$^+$				03Vo03	37.8			6.67			
4934.51(12)	0$^+$,1,2				03Vo03		82.0		18.0			
4939.6*	$\langle 0^-$–$2^-\rangle$				02Ka66							
5070.6*	$\langle 0^-$–$2^-\rangle$				02Ka66							
7790.3(7)*						x			x			
7915.3(10)*	1					100						
9113.69(3)					03Vo03							
		97Sc15	97Sc15	68Wi14	Ref.							
					Ref.							
					Ref.							

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 3 **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2045.2	2113.6	2128.4	2181.5	2184.3	2218.2	2309.2	2385.8	2396.5
[keV]	J_f^π:	2^+	$\langle 0^+\rangle$	3^+	1,2$^+$	2^+	5^-	4^+	3^-	6^+
2385.83(2)	3$^-$			12		1.3	15			
2386.0(1)*	3$^-$			22(1)			29(1)			
2496.7(7)	7$^-$						$\langle 4\rangle$			
2515.50(4)	$\langle 4$–$6\rangle^-$						77			

(continued) **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2045.2	2113.6	2128.4	2181.5	2184.3	2218.2	2309.2	2385.8	2396.5
[keV]	J_f^π:	2^+	$\langle 0^+ \rangle$	3^+	$1,2^+$	2^+	5^-	4^+	3^-	6^+
2533.85(5)	4^+									11
2577.80(3)	3	4.0								
2585.53(3)	2^+								12	
2678.83(3)	2^+	6.4	6.4							
2731.21(3)	3^+	7.7								
2782.71(3)	$2,3^+$			6.2		5.3			4.4	
2811.6(3)*	$\langle 7^- \rangle$						84(4)			11(3)
2812.5(1)	1		0.90							
2813.8(1)	$\langle 2,3 \rangle$	5.8							28	
2833.76(3)	$\langle 3^+ \rangle$					0.74				
2858.76(4)	$2^+,3^+$				22					
2862.6(1)**	$\langle 3 \rangle$							10		
2935.87(3)	2,3			6.5						
3015.46(3)	$\langle 1,2 \rangle$								2.3	
3066.29(2)	$1^-,2^+$				8.0				16	
3202.28(8)	$\langle 3 \rangle$		14.3	11.4					14.3	
3249.41(4)**	$0^+,1,2^+$					3.49				
3308.91(3)**	2^+		11.3					22.2	4.79	
3349.15(4)	$1,2^+$	2.61								
3602.33(5)**	$1,2^+$		61.4							
3798.8(1)**	$1,2^+$					34.2				
3807.30(3)	$1^+,2^+$		2.80							
3882.17(5)	$1,2^+$				12.3	6.85				
3927.11(3)**		5.71								
4023.85(7)**	$1,2^+$	22.2								
4156.45(6)**	0,1,2				19.0					
4172.33(6)**	$1,2^+$		7.35							
4448.36(6)**	$0^+,1,2$	19.4								
4671.43(8)	$1,2^+$					5.26				
4700.38(4)	$1,2^+$					15.0				
4767.33(4)	$1^+,2$			16.0		18.0				
4776.00(5)**		15.0								
4879.93(4)	2^+	10.0								

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 4 **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2421.1	2479.9	2496.8	2503.5	2515.5	2522.9	2533.9	2577.8	2585.5
[keV]	J_f^π:	2^+	X^+	7^-	2^+	X^-	4^+	4^+	3	2^+
2782.71(3)	$2,3^+$					0.88		1.8		
2802.50(5)	2^+									11
2811.6(3)*	$\langle 7^- \rangle$					5.5(3)				

(continued) **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2421.1	2479.9	2496.8	2503.5	2515.5	2522.9	2533.9	2577.8	2585.5
[keV]	J_f^π:	2^+	X^+	7^-	2^+	X^-	4^+	4^+	3	2^+
2813.8(1)	⟨2,3⟩	2.9								
2862.6(1)**	⟨3⟩				7.9					
2897.93(8)	1^-				2.2					
2974.48(3)	1	1.8								
2989.4(3)*									10(5)	
3015.46(3)	⟨1,2⟩									5.2
3018.49(3)	$1,2^+$	28							51	
3045.07(10)	$1^+,2^+$		13							
3071.12(23)*				80(3)		20(2)				
3132.18(3)	1,2									65
3143.66(3)	1^+,2		52.3							
3171.6(3)*				63(17)		37(2)				
3193.5(3)*	⟨7–9⟩			100						
3249.41(4)**	$0^+,1,2^+$									39.5
3450.5(4)*				57(5)				43(5)		
3473.5(8)*						100				
3807.30(3)	$1^+,2^+$		4.90							
4172.33(6)**	$1,2^+$								5.88	
4504.80(4)	$1,2^+$				3.19				5.32	
4747.47(9)**	⟨2⟩	29.9				22.1				
4767.33(4)	1^+,2	8.00								
4776.00(5)**						30.0				
4879.93(4)	2^+	7.14						5.71		
4883.27(4)	2^+		7.06					9.41		
4918.77(5)**	$1,2^+$				11.1					

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 5 **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2678.8	2682.0	2731.2	2744.1	2766.4	2782.7	2802.5	2811.6	2813.8
[keV]	J_f^π:	2^+	X^+	3^+	X^+	8^+	$2,3^+$	2^+	⟨7^-⟩	⟨2,3⟩
2877.25(3)	2^+	29	2.6							
2971.81(4)	⟨3⟩							7.1		
2975.3(2)	10^+					100				
2989.4(3)*						33(2)				
3045.07(10)	$1^+,2^+$	4.8								
3132.18(3)	1,2			13						
3450.5(4)*									43(5)	
3807.30(3)	$1^+,2^+$	4.20								
3882.17(5)	$1,2^+$						6.85			
3927.11(3)**								20.0		
3952.57(4)**			13.3							

(continued) **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2678.8	2682.0	2731.2	2744.1	2766.4	2782.7	2802.5	2811.6	2813.8
[keV]	J_f^π:	2^+	X^+	3^+	X^+	8^+	$2,3^+$	2^+	$\langle 7^- \rangle$	$\langle 2,3 \rangle$
3973.10(3)	0,1,2									11.4
4172.33(6)**	$1,2^+$	10.3								
4448.36(6)**	0^+,1,2	16.1								
4504.80(4)	$1,2^+$	3.19			3.19					
4671.43(8)	$1,2^+$				13.2					
4883.27(4)	2^+	7.06								

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 6 **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2833.8	2839.7	2858.8	2862.6	2935.9	2971.8	2974.4	2974.5	3008.3
[keV]	J_f^π:	$\langle 3^+ \rangle$	$\langle 6^+ \rangle$	X^+	$\langle 3 \rangle$	2,3	$\langle 3 \rangle$	10^+	1^-	$\langle X^+ \rangle$
2989.4(3)*			10(5)							
3008.29(5)	$\langle 2^+,3^+ \rangle$			20						
3015.46(3)	$\langle 1,2 \rangle$	52								
3262.34(2)**	$1,2^+$						50.0	6.45		
3602.33(5)**	$1,2^+$	10.5								
3687.9(4)*	$\langle 12^+ \rangle$							x		
3807.30(3)	$1^+,2^+$							3.50		
3922.53(7)**		16.7								
3952.57(4)**										63.3
3973.10(3)	0,1,2					8.57				
4651.76(6)**	2^+	11.6								
4700.38(4)	$1,2^+$	8.33								
4776.00(5)**					15.0	17.5				
4879.93(4)	2^+					7.14		4.29		

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 7 **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	3015.5	3018.5	3045.1	3066.3	3132.2	3143.7	3202.3	3249.4	3262.3
[keV]	J_f^π:	$\langle 1,2 \rangle$	$1,2^+$	$1^+,2^+$	$1^-,2^+$	1,2	$1^+,2$	$\langle 3 \rangle$	X^+	$1,2^+$
3308.91(3)**	2^+	2.54								
3349.15(4)	$1,2^+$				3.48	3.48				
3602.33(5)**	$1,2^+$				26.3					
3759.78(4)	$1,2^+$									52.0
3798.8(1)**	$1,2^+$		8.54							
3807.30(3)	$1^+,2^+$						23.8			
3922.53(7)**									50.0	

(continued) **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	3015.5	3018.5	3045.1	3066.3	3132.2	3143.7	3202.3	3249.4	3262.3
[keV]	J_f^π:	⟨1,2⟩	$1,2^+$	$1^+,2^+$	$1^-,2^+$	1,2	$1^+,2$	⟨3⟩	X^+	$1,2^+$
3973.10(3)	0,1,2				14.3	8.57				28.6
4156.45(6)**	0,1,2	23.8								
4172.33(6)**	$1,2^+$								25.0	
4504.80(4)	$1,2^+$		3.19							
4700.38(4)	$1,2^+$						6.67			
4767.33(4)	$1^+,2$				18.0					
4883.27(4)	2^+		5.88							
4918.77(5)**	$1,2^+$			8.89			24.4	11.1		

Energy levels and branching ratios [03Vo03, 02Ka66, 93Mi12]. Part 8 **$^{126}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	3308.9	3349.2	3576.3	3687.9	3807.3	3922.5	3927.1	3973.1	4324.8
[keV]	J_f^π:	2^+	$1,2^+$	$1,2^+$	$\langle 12^+\rangle$	$1^+,2^+$	$1,2^+$	$1,2^+$	1^+3^+	$1,2^+$
4156.45(6)**	0,1,2	38.1								
4172.33(6)**	$1,2^+$			5.88				13.2		
4324.84(3)**	2^+			18.9						
4448.36(6)**	$0^+,1,2$		16.1							
4538.2(4)*	$\langle 14^+\rangle$				x					
4651.76(6)**	2^+						11.6			
4700.38(4)	$1,2^+$			11.7						
4767.33(4)	$1^+,2$								22.0	
4879.93(4)	2^+									5.71
4883.27(4)	2^+					8.24				

Energy levels and branching ratios [03Ho0A, 96Ki01]. **$^{127}_{52}$Te**

E^*	$2J^\pi$	L	$(2J+1)S$	σ (d,p)	S_{dp}	S_n	σ (t,d)	L	σ (d,t)	σ (τ,α)	$S_{\ell j}$	$S_{\ell j}$	$S_{\ell j}$	Ref.
[keV]		(d,p)	(d,p)	μb/sr		(t,d)	μb/sr	(d,t)	μb/sr	μb/sr	(d,t)	(τ,α)	eval	
0.0	3^+	2	1.49	1581	0.24	0.353	5297	2	4195	47	2.8	2.3	2.5	05Ho0A
61.16(2)	1^+	0	0.46	739	0.20	0.257	3009	0	3437		1.5		1.5	85Ro19
88.15(6)	11^-	5	2.91	582	0.23	0.165	793	5	1021	1030	6.4	4.5	5.5	85Ro19
340.83(6)	$\langle 9^-\rangle$			4	0.004			⟨5⟩	17	12		⟨0.02⟩		85Ro19
366														96Ki01
473.17(3)	5^+			10				2	11		0.008		0.008	85Ro19
501.92(2)	3^+	2	0.072	142	0.02	0.020	290	2	101		0.07		0.07	85Ro19
603(5)	$3^+,5^+$							2	52		0.03		0.03	96Ki01
622.97(3)	1^+	0	0.015	24	0.01	0.040	400							05Ho0A

(continued) **$^{127}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$(2J+1)S$ (d,p)	σ (d,p) μb/sr	S_{dp}	S_n (t,d)	σ (t,d) μb/sr	L (d,t)	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	$S_{\ell j}$ eval	Ref.
631.35(5)	7^-			114	0.01			3	110	16	0.11		0.11	85Ro19
685.00(6)	7^+			26	0.01			4	59	13	0.56	0.11	0.56	85Ro19
762.57(3)	3^+	2	0.038	126	0.016	0.021	311		46					85Ro19
782.63(3)	5^+	2	0.377			0.066	1680	2	2776	68	1.8	1.5	1.7	85Ro19
786.07(6)	7^-			0.77	0.049									05Ho0A
924.2(2)	7^+			77	0.03	0.032	144	4	438	250	4.4	3.3	3.9	85Ro19
966.2	3^+,5^+			2				2	17		0.01		0.01	85Ro19
984														96Ki01
1074.96(5)	3^+			27	0.0003		78	2	25		0.03		0.03	85Ro19
1140.10(8)	5^+	2	0.044	155	0.0001	0.011	273	2	1267	61	0.96	0.78	0.87	85Ro19
1154.3(2)	$5^{\langle+\rangle}$								incl	incl				
1156.8(3)	11^-			8		0.006	32	$\langle5\rangle$	47	incl	0.25	0.11	0.18	85Ro19
1183.06(5)	5^-			4										05Ho0A
1206(5)	3^+,5^+							2	11		0.009		0.009	96Ki01
1289.8(1)	5^+			94			159	2	604	29	0.52	0.54	0.53	85Ro19
1292.9(2)	3^+,5^+													
1309.27(6)	3^+			4				2	28		0.02		0.02	85Ro19
1323.4(8)														96Ki01
1353.73(4)	3^-			11				$\langle1\rangle$	11		0.005		0.005	85Ro19
1378.5(1)	5^+	2	0.029	91	0.006	0.005	126	2	692	35	0.58	0.64	0.61	85Ro19
1399(5)	7^+,9^+					≈0.02	172							96Ki01
1405.4(3)	1^+	0	0.028	63	0.01			0	221		0.05		0.05	85Ro19
1428.1(2)	7^+			5			27	4	15	20	0.16		0.16	85Ro19
1447.4(3)	$\langle7^+\rangle$			3				$\langle4\rangle$	10	incl	0.12		0.12	85Ro19
1489.4(8)				4				$\langle4\rangle$	10		0.14		0.14	85Ro19
1550.69(9)	5^-,7^-			8			287							05Ho0A
1554.6	5^+	2	0.073	161	0.01			2	1298	78	1.1	1.1	1.1	85Ro19
1567.97(8)	5^+			23	0.002			2	100		0.11		0.11	85Ro19
1602.3(6)	$\langle5^+\rangle$			3				$\langle2\rangle$	15		0.01		0.01	85Ro19
1608.19(6)	$\langle5^-\rangle$													
1612.8(4)	$\langle9\rangle$			5				4	37	47	0.33	0.37	0.35	85Ro19
1683.6	3^+,5^+							2	15		0.01		0.01	85Ro19
1687.5(1)	3^-	1	0.009	20	0.003	0.004	98							05Ho0A
1704.3(3)	5^+							2	12		0.01		0.01	85Ro19
1732(5)	$\langle7^+,9^+\rangle$			2				$\langle4\rangle$	12	$\langle20\rangle$	0.11	$\langle0.2\rangle$	0.11	96Ki01
1757.1(2)	3^+,5^+			27	0.0006	0.004	67							81Sh02
1773.10(9)	3^+			5				2	23		0.02		0.02	85Ro19
1778.92(9)	5^-			4										
1804.5(8)	7^+			2			156	4	19	$\langle27\rangle$	0.21	$\langle0.2\rangle$	0.21	85Ro19
1805.6(2)	3													
1814.8(2)	7^-			76	0.00005									05Ho0A
1844.6	5^-			12	0.001									05Ho0A
1847.3	1^+–5^+													
1875(5)	3^+,5^+							2	119		0.11		0.11	85Ro19
1868.3(2)	1^+,3^+													

(continued) **$^{127}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$(2J+1)S$ (d,p)	σ (d,p) μb/sr	S_{dp}	S_n (t,d)	σ (t,d) μb/sr	L (d,t)	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	$S_{\ell j}$ eval	Ref.
1878.1(2)	3^+			9										05Ho0A
1883.7(2)	$\langle 5^- \rangle$													
1888.8(1)	1^+							0	118		0.03		0.03	85Ro19
1914	$\langle 3^+ \rangle$	2	0.08			0.039	540	2	21		0.02		0.02	85Ro19
1918.2(2)	7^-			226	0.014									
1938						0.003	48	4	30	$\langle 17 \rangle$	0.37	$\langle 0.1 \rangle$	0.37	85Ro19
1956.3(1)	3			20				0	267		0.07		0.07	85Ro19
1959.6														
1973.3														
1975.5(2)	7^-			10				2	34		0.04		0.04	85Ro19
1985.2(3)	$\langle 7^+ \rangle$			3				$\langle 4 \rangle$	25	$\langle 23 \rangle$	0.29	$\langle 0.2 \rangle$	0.29	85Ro19
1992.6(1)	1^+,3^+		0.1											
1998(1)				4				1	45		0.02		0.02	85Ro19
2009.94(6)	3^-			193	0.03	0.034	766		55		0.02		0.02	85Ro19
2026.7(1)	7^-	3	0.74	258	0.07	0.111	3095		42		0.03		0.03	85Ro19
2029.9(1)	5													
2048.5				12				$\langle 2 \rangle$	23		0.02		0.02	85Ro19
2056.4	3^+,5^+													
2099.8(1)	7^-			555	0.03				16		0.02		0.02	85Ro19
2109.2(1)	1^+–5^+					0.234	1327							81Sh02
2119.2(2)	3^+			14					427		0.1		0.1	85Ro19
2137.5(2)	7^-	3	0.51	344	0.08	0.127	3570		30	$\langle 23 \rangle$	0.34		0.34	85Ro19
2138.5(2)	1^+–5													
2144.07(4)	3^-			136	0.0001									05Ho0A
2168.2(2)	7^-	3	0.13	229	0.013	0.020	577							05Ho0A
2176.0(1)	3^+							2	28		0.03		0.03	85Ro19
2189.4(2)	$\langle 5^- \rangle$			4										05Ho0A
2196	7^+							4	37	$\langle 34 \rangle$	0.44		0.44	85Ro19
2206.71(3)	3^-	1	0.52	1046	0.140		2490							05Ho0A
2224.7(2)	5^+			10				2	24		0.03		0.03	85Ro19
2242(4)	$\langle 7^+ \rangle$							$\langle 4 \rangle$	20	$\langle 24 \rangle$	0.17		0.17	85Ro19
2245.90(9)	3^-	1	0.07	117	0.017									05Ho0A
2254.4(3)	1^+,3					0.068	356							81Sh02
2272.8														
2278.3(3)	3^+			22		0.005	70		22		0.02		0.02	05Ho0A
2299(5)	5^-,7^-			20		0.05	1036							96Ki01
2304.1														
2317.99(5)	3^-	1	0.14	144	0.019									05Ho0A
2327.7(2)	7^-			334	0.017									05Ho0A
2328.7(2)	1,3													
2337.9(2)	$\langle 3^- \rangle$			12										05Ho0A
2339.8(1)	1,3													
2357.9(2)														
2359.7(1)	3^-			12	0.0015									05Ho0A
2368.3(4)				4										05Ho0A

(continued) **$^{127}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$(2J+1)S$ (d,p)	σ (d,p) μb/sr	S_{dp}	S_n (t,d)	σ (t,d) μb/sr	L (d,t)	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ, α)	$S_{\ell j}$ eval	Ref.
2391.4(3)*														
2401.3(2)	7^-			56	0.0017									05Ho0A
2428.3(3)	$\langle 3^- \rangle$			70										05Ho0A
2438.50(9)	1,3													
2458.4(2)	5													
2468.96(4)	1^-	1	0.21	299	0.081	0.146	1250		38		0.01		0.01	85Ro19
2473(2)	$\langle 5^+ \rangle$							$\langle 2 \rangle$	56		0.06		0.06	85Ro19
2492.7(3)*	$\langle 3^+,5^+ \rangle$													
2497.2(1)				88										05Ho0A
2518.9(2)*				21										05Ho0A
2561.4(2)	$\langle 3^- \rangle$			69										05Ho0A
2592.65(8)	3^-			125										05Ho0A
2619.20(7)	1^-			31	0.0091									05Ho0A
2667.2(2)	1^-	1	0.01	22	0.0068									05Ho0A
2691.8(7)*				12										05Ho0A
2700.3(2)	1,3			27										05Ho0A
2713.2(2)*				22										05Ho0A
2729.8(2)	3^+	3	0.07	119	0.004									05Ho0A
2758.9(2)	3^+			48	0.001									05Ho0A
2767.2(2)	3^+			42										05Ho0A
2772.7(1)	3^-													
2782.9(3)	$\langle 7^- \rangle$			15	0.0004									05Ho0A
2789.8(3)	5^-	3	0.17	193										05Ho0A
2799.1(4)	$\langle 1^- \rangle$			21										05Ho0A
2818.9(2)	$3^+,5^-$	3	0.145	203										05Ho0A
2843.7(3)	$\langle 1^- \rangle$			52										05Ho0A
2856.5(2)	1^-			13										05Ho0A
2871.2(6)	$\langle 5^- \rangle$			74										doublt
2878.0(1)	3													
2895.6(5)	$5^+,7^-$			19										05Ho0A
2913.0(3)	$\langle 1^- \rangle$			23										05Ho0A
2916.0(2)	$1^{\langle + \rangle},3^{\langle + \rangle}$													
2904.9(8)*														
2924*														
2932.4(3)	$\langle 1,3^- \rangle$			25										05Ho0A
2954.71(8)	3^-			50										05Ho0A
2965.6(5)*				34										
2994.4(6)*				31										
3004.8(8)*				40										
3017.2(5)*				47										
3035.4(4)*	$\langle 5^+,7^- \rangle$			19										
3064.9(7)*	$\langle 3^- \rangle$			23										
3096.8(6)*	$5^+,7^-$			24										
3127.6(4)*	7^-	3	0.17	140										
3141.7(7)*				28										

(continued) **$^{127}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$(2J+1)S$ (d,p)	σ (d,p) μb/sr	S_{dp}	S_n (t,d)	σ (t,d) μb/sr	L (d,t)	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	$S_{\ell j}$ eval	Ref.
3155.1(4)*	$\langle 3^-,7^-\rangle$			60										
3175.5(5)*				15										
3187.4(4)*	7^-			53										
3218.1(5)*				22										
3237.6(6)*				32										
3251.9(5)*				20										
3264.3(6)*		1	0.035	101										
3290.1(7)*				26										
3303.9(6)*				65										
3314.4(5)*				21										
3342.6(4)*				69										
3376.6(8)*	$\langle 1^-\rangle$			91										
3391.8(2)	3^-			91										
3416.2(3)	3^-	1	0.06	122										
3450.3(6)*	3^-			29										
3479.8(10)*				24										
3502.5(7)*				24										
3545.4(1)	3^-	1	0.15	90										
3553.8(5)*				33										
3567.3(2)	1,3													
3572.0(6)*	1,3			25										
3582.9(5)*				49										
3595.5(5)*				32										
3608.9(7)*				18										
3652.8(9)*				9										
3679.4(3)*														
3706.73(8)	1,3													
3719.6(4)*														
3761.1(3)	1,3	$\langle 1\rangle$	0.07											
3764.5(2)*														
3832.3(1)	1,3	$\langle 3\rangle$	0.16											
3836.0(2)*														
3853.1(2)	$\langle 3^-\rangle$	$\langle 1\rangle$	0.19											
3865.7(2)*														
3883.6(1)	1,3													
3922.22(7)	1,3													
3954.4(2)	1,3													
3973.9(2)	1,3													
4015.9(2)	1,3		0.07											
4032.3(3)	1,3													
4036.6(3)	1,3													
4057.0(1)	1,3													
4072(10)														96Ki01
4100(10)														96Ki01
4114(10)														96Ki01

(continued) **$^{127}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	$(2J+1)S$ (d,p)	σ (d,p) μb/sr	S_{dp}	S_n (t,d)	σ (t,d) μb/sr	L (d,t)	σ (d,t) μb/sr	σ (τ,α) μb/sr	$S_{\ell j}$ (d,t)	$S_{\ell j}$ (τ,α)	$S_{\ell j}$ eval	Ref.
4133(10)														96Ki01
4161(10)														96Ki01
4175(10)														96Ki01
4196(10)	1^-,3^-	1	0.09											96Ki01
4215(10)														96Ki01
4239(10)	1^-,3,5^+		0.06											96Ki01
4258(10)	$\langle 1^-,3^-\rangle$	1	0.08											96Ki01
4284(10)	1^-,3^-	1	0.07											96Ki01
4313(10)														96Ki01
4332(10)	$\langle 1^-,3^-\rangle$	1	0.05											96Ki01
4353(10)														96Ki01
4386(10)	1^-,3^-	1	0.12											96Ki01
4424(10)														96Ki01
4470(10)														96Ki01
4489(10)	1^-,3^-	1	0.11											96Ki01
4523(10)														96Ki01
4544(10)														96Ki01
4573(10)														96Ki01
4590(10)														96Ki01
4624(10)														96Ki01
4660(10)														96Ki01
4675(10)														96Ki01
4688(10)														96Ki01
4717(10)														96Ki01
4741(10)														96Ki01
4765(10)	$\langle 1^-,3^-\rangle$	1	0.068											96Ki01
4796(10)														96Ki01
4812(10)														96Ki01
4841(10)	$\langle 1^-,3^-\rangle$	1	0.060											96Ki01
4867(10)														96Ki01
4883(10)														96Ki01
4905(10)	$\langle 1^-,3^-\rangle$	1	0.062											96Ki01
4934(10)														96Ki01
4958(10)	$\langle 1^-,3^-\rangle$	1	0.086											96Ki01
4995(10)														96Ki01
5017(10)														96Ki01
5050(10)														96Ki01
5070(10)														96Ki01
5102(10)														96Ki01
5130(10)	$\langle 1,3^-\rangle$	0,1	0.096											96Ki01
5167(10)														96Ki01
5198(10)	$\langle 1^-,3^-\rangle$	1	0.057											96Ki01
5223(10)														96Ki01
5254(10)														96Ki01
5286(10)														96Ki01

(continued) **$^{127}_{52}$Te**

E^*	L	$(2J+1)S$	σ (d,p)	S_{dp}	S_n	σ (t,d)	L	σ (d,t)	σ (τ,α)	$S_{\ell j}$	$S_{\ell j}$	$S_{\ell j}$	Ref.
[keV]	(d,p)	(d,p)	μb/sr		(t,d)	μb/sr	(d,t)	μb/sr	μb/sr	(d,t)	(τ, α)	eval	
5297(10)													96Ki01
5317(10)													96Ki01
5338(10)													96Ki01
5365(10)													96Ki01
5380(10)													96Ki01
5407(10)													96Ki01
5417(10)													96Ki01
5441(10)													96Ki01
5475(10)													96Ki01
5498(10)													96Ki01
5531(10)													96Ki01
5545(10)													96Ki01
5570(10)													96Ki01
5584(10)													96Ki01
5603(10)													96Ki01
5623(10)													96Ki01
5634(10)													96Ki01
5655(10)													96Ki01
5675(10)													96Ki01
5700(10)													96Ki01
		68Gr16		05Ho0A		81Sh02		85Ro19	85Ro19	85Ro19	85Ro19	85Ro19	Ref.
	68Gr16		05Ho0A		81Sh02								Ref.

Additional data on this isotope can be found in [03Ho0A, 01Vo0A, 98Zh09, 68Gr16].

* from [05Ho0A], not included in the list of adopted parameters in [03Ho0A]

Systematic differences between E^* in [05Ho0A] and [68Gr16] should be taken into account (about 20 keV at E^*=2 MeV and up to 40-50 keV at E^*=4 MeV); for energies above 4.07 MeV only old data from [68Gr16] exist.

$T_{1/2}$=9.35(7) h for the ground state, $T_{1/2}$=109(2) days for a state with $2J^\pi$=11^- and $T_{1/2}$=0.41(2) ns for a state with $2J^\pi$=(9^-) at 340 keV are given in [96Ki01].

All values of branching ratios are calculated from γ-intensities given in [96Ki01].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [03Ho0A, 96Ki01]. Part 2 **$^{127}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	61.1	88.3	341	473	503	632	685	924.5
[keV]		$2J_f^\pi$:	3^+	1^+	11^-	$\langle 9^- \rangle$	5^+	3^+	7^-	7^+	7^+
61.16(2)	1^+		100								
88.15(6)	11^-		100								
340.83(6)	$\langle 9^- \rangle$				100						
473.17(3)	5^+		87(2)	13(1)							
501.92(2)	3^+		53(17)	47(23)							

(continued) **$^{127}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	61.1	88.3	341	473	503	632	685	924.5
[keV]		$2J_f^\pi$:	3^+	1^+	11^-	$\langle 9^- \rangle$	5^+	3^+	7^-	7^+	7^+
631.35(5)	7^-				59(9)	41(2)					
685.00(6)	7^+		100	0.2(1)							
762.57(3)	3^+		100								
782.63(3)	5^+		84(2)	11(1)			1.4(6)	3.7(8)			
786.07(6)	7^-				45(1)	53(1)			2(1)		
924.2(2)	7^+		39(5)			25(14)	14(5)		22(11)		
1074.96(5)	3^+						82(2)			18(1)	x
1140.10(8)	5^+		22(4)				44(4)	27(9)		7(4)	
1156.8(3)	11^-		4(2)				57(27)	39(7)			
1289.8(1)	5^+		48(14)				52(24)				
1323.4(8)								100			
1378.5(1)	5^+		100								

Energy levels and branching ratios [01Ka61]. **$^{128}_{52}$Te**

E^*	J^π	L	σ (d,d′)	L	β_L	β_L	L	σ (p,t)	$T_{1/2}$ or	Ref.
[keV]		(t,p)	μb/sr	(p,p′)	(p,p′)	(α,α')	(p,t)	μb/sr	Γ_{cm}	
0.0	0^+	0					0		$8.8(4)\cdot10^{18}$ yr	
743.219(7)	2^+	2	1210	2	0.135	0.15	$\langle 2 \rangle$		3.32(3) ps	67Le14
1497.035(24)	4^+		240				$\langle 4 \rangle$			66Ki04
1519.972(22)	2^+		incl				$\langle 2 \rangle$			
1811.16(3)	6^+								0.48(3) ns	
1968.51(3)	1^+–3^+									
1972(2)										
1978.81(4)	0^+						0			
2027.78(3)	4^+		160	4	0.067					75Ma03
2133.30(3)	5^-		120	5	0.050		5	58*		75Ma03
2163.531(25)	3^+		incl							
2193.49(3)	2^+									
2217.95(3)	$1,2^+$									
2270.35(3)	3^+–5^+									
2308.31(5)										
2337.73(5)	7^-						7	100*	2.404(24) ns	76Ma21
2352.11(4)	2^+		75							66Ki04
2395.93(4)	4^-		incl							
2405.36(9)	4^+–6^+									
2426.02(4)	3^+–5^+									
2440(20)	3^-									
2485(2)	3^-						3	36*		76Ma21
2487.41(5)	$2^+,3^+$									
2494.17(4)	$\langle 3 \rangle^-$		300	3	0.091		$\langle 3 \rangle$			75Ma03

(continued) **$^{128}_{52}$Te**

E^* [keV]	J^π	L (t,p)	σ (d,d′) μb/sr	L (p,p′)	β_L (p,p′)	β_L (α,α')	L (p,t)	σ (p,t) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.
2508.06(4)	2^+									
2520(10)										
2550.54(4)	3^+									
2571.18(4)	4^-,5^-									
2588.0(4)										
2599.02(5)	5^+,6^+									
2630.14(5)	1^+–3^+									
2643.28(7)										
2655.6(4)										
2665(5)										
2689.4(5)	8^+									
2706.66(5)	$1,2^+$									
2712.23(5)	$1,2^+$									
2720(50)										
2736.5(3)										
2748.73(5)	2^+–4^+									
2762.05(10)	4^-–6^-									
2790(10)										
2790.7(4)	10^+								0.37(3) μs	
2817.4(3)										
2820.77(6)	$1,2^+$									
2851.92(6)	4^+–6^+									
2858.9(5)										
2868.99(10)	$1,2^+$									
2884.51(6)										
2891.45(8)	$1,2^+$									
2901.2(4)										
2912.78(7)										
2924.1(3)										
2931.87(5)	3^+–5^+									
2952.0(4)										
2983.31(6)	2^+–4^+									
3000(10)										
3030.12(8)	$1,2^+$									
3030.7(3)										
3055(5)										
3067.04(8)				[4]	0.049					75Ma03
3100.40(9)										
3104.40(17)										
3125.42(6)										
3137.29(22)	2^+									
3140.5(4)										
3151.44(22)	6^+–8^+									
3160(20)	3^-			3	0.051					75Ma03
3183.5(3)	5^-,6^+									

(continued) **$^{128}_{52}$Te**

E^* [keV]	J^π	L (t,p)	σ (d,d′) μb/sr	L (p,p′)	β_L (p,p′)	β_L (α,α')	L (p,t)	σ (p,t) μb/sr	$T_{1/2}$ or Γ_{cm}	Ref.
3184.84(13)										
3210(10)										
3250(10)										
3296.47(9)	2^+–4^+									
3345(5)										
3384(5)										
3407(5)										
3416.53(23)	X^-									
3429.3(3)										
3440(10)										
3460(10)										
3490.0(3)										
3508.1(5)	$\langle 12^+ \rangle$									
3519.42(25)										
3570(10)										
3588.0(4)										
3597.36(25)										
3607.44(12)										
3690(10)										
3731.70(8)										
3734.27(24)										
3764(5)										
3838.4(5)	$1,2^+$									
4063.09(17)										
4341.8(6)	$\langle 14^+ \rangle$									
4431.2(5)										
4668.5(6)										
7724(1)	1									
		80Br10	66Ki04		75Ma03	67Le14		76Ma21		Ref.

Additional data on this isotope can be found in [00Gr02, 98Zh09, 97Al29, 90Be50, 71SeZI].
Abundance: 31.74(8) %.
* The relative cross section is given with summation from 7,5° to 50°, which is normalized to the 7^- state transition in $^{130}Te(p,t)$ reaction [76Ma21].
Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [01Ka61]. Part 2 **$^{128}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	0.0	743.2	1497.0	1520.0	1811.2	1968.5	1972	2027.8	2133.3
[keV]	J_f^π:	0^+	2^+	4^+	2^+	6^+			4^+	5^-
743.219(7)	2^+	100								
1497.035(24)	4^+		100							

(continued) **$^{128}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	0.0	743.2	1497.0	1520.0	1811.2	1968.5	1972	2027.8	2133.3
[keV]	J_f^π:	0^+	2^+	4^+	2^+	6^+			4^+	5^-
1519.972(22)	2^+	3.0(2)	97(2)							
1811.16(3)	6^+			100						
1968.51(3)	1^+–3^+		100		0.4(2)					
1978.81(4)	0^+		100							
2027.78(3)	4^+		35.6(10)	64(2)						
2133.30(3)	5^-			92(6)		8(3)				
2163.531(25)	3^+		33(2)	25	42(1)					
2193.49(3)	2^+	10(1)	90(3)							
2217.95(3)	$1,2^+$	4(1)	82(2)		8(1)		6(1)			
2270.35(3)	3^+–5^+			100						
2308.31(5)			100							
2337.73(5)	7^-					98(5)				2.2(5)
2352.11(4)	2^+	15(2)	85(3)							
2395.93(4)	4^-								6.7(11)	91(3)
2405.36(9)	4^+–6^+			42(5)		58(9)				
2426.02(4)	3^+–5^+			82(3)					18(2)	
2440(20)	3^-		x							
2487.41(5)	$2^+,3^+$		49(3)	51(4)						
2494.17(4)	$\langle 3\rangle^-$		100							
2508.06(4)	2^+	26(2)	74(3)							
2550.54(4)	3^+		25(2)	75(3)						
2571.18(4)	$4^-,5^-$			10(2)						64(5)
2588.0(4)										100
2599.02(5)	$5^+,6^+$			4(2)		84(12)				
2630.14(5)	1^+–3^+		93(5)	7(2)						
2643.28(7)			100							
2655.6(4)				36(7)		46(7)				
2689.4(5)	8^+					98(8)				
2706.66(5)	$1,2^+$	18(3)	75(4)		7(2)					
2712.23(5)	$1,2^+$	[42]			[58]					
2736.5(3)										100
2748.73(5)	2^+–4^+		60(5)	40(5)						
2762.05(10)	4^-–6^-									95(6)
2817.4(3)										100
2820.77(6)	$1,2^+$	22(4)	54(5)				24(5)			
2851.92(6)	4^+–6^+			30(6)		70(9)				
2858.9(5)						100				
2868.99(10)	$1,2^+$	50(9)	24(6)		26(7)					
2884.51(6)			83(9)		17(5)					
2891.45(8)	$1,2^+$	77(6)	16(4)		7(3)					
2912.78(7)			70(7)							
2924.1(3)						100				
2931.87(5)	3^+–5^+			100						
2952.0(4)						100				
2983.31(6)	2^+–4^+		[100]							

(continued) **$^{128}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	0.0	743.2	1497.0	1520.0	1811.2	1968.5	1972	2027.8	2133.3
[keV]	J_f^π:	0^+	2^+	4^+	2^+	6^+			4^+	5^-
3030.12(8)	$1,2^+$	19(5)	81(11)							
3067.04(8)			65(12)		35(6)					
3100.40(9)			53(10)		47(10)					
3104.40(17)		100								
3125.42(6)				53(7)					47(10)	
3137.29(22)	2^+	59(11)	41(8)							
3151.44(22)	6^+–8^+					7(7)				
3183.5(3)	$5^-,6^+$			10(2)						
3184.84(13)		100								
3296.47(9)	2^+–4^+		32(8)	68(12)						
3519.42(25)						6(2)				
3597.36(25)						9(2)				
3607.44(12)			22(8)				78(13)			
3731.70(8)			[100]							
3838.4(5)	$1,2^+$	51(16)	49(16)							
4063.09(17)			68(14)		32(12)					
7724(1)	1	x			x			x		

Energy levels and branching ratios [01Ka61]. Part 3 **$^{128}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2163.5	2193.5	2337.7	2395.9	2405.4	2655.6	2689.4	2736.5	2762.0
[keV]	J_f^π:	3^+	2^+	7^-	4^-	$4^+,5,6^+$		8^+		
2395.93(4)	4^-	2.0(4)								
2571.18(4)	$4^-,5^-$				27(4)					
2599.02(5)	$5^+,6^+$					12(6)				
2655.6(4)						18(3)				
2689.4(5)	8^+					2.4(3)				
2762.05(10)	4^-–6^-					4.6(10)				
2790.7(4)	10^+							100		
2901.2(4)				100						
2912.78(7)			30(7)							
3030.7(3)				100						
3140.5(4)				100						
3151.44(22)	6^+–8^+			84(13)						
3183.5(3)	$5^-,6^+$			50(6)						
3416.53(23)	X^-			11(5)						89(5)
3429.3(3)							38(8)			62(8)
3490.0(3)										72(18)
3519.42(25)				87(10)						
3588.0(4)				50(50)						

(continued) **$^{128}_{52}$Te**

E^*	J^π	Branching ratios in percentage								
	E_f^*:	2163.5	2193.5	2337.7	2395.9	2405.4	2655.6	2689.4	2736.5	2762.0
[keV]	J_f^π:	3^+	2^+	7^-	4^-	4^+,5,6^+		8^+		
3597.36(25)				23(23)					9(2)	23(23)
3734.27(24)										17(17)

Energy levels and branching ratios [01Ka61]. Part 4 **$^{128}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E_f^*:	2790.7	2817.4	2924.1	3030.7	3151.4	3183.5	3416.5	3508.1	3519.4	4341.8
[keV]	J_f^π:	10^+					5^-,6^+	X^-	$\langle 12^+ \rangle$		$\langle 14^+ \rangle$
3151.44(22)	6^+–8^+			9.6(19)							
3183.5(3)	5^-,6^+		30(6)		10(2)						
3490.0(3)					28(6)						
3508.1(5)	$\langle 12^+ \rangle$	100									
3519.42(25)								7.7(19)			
3588.0(4)							50(10)				
3597.36(25)						35(7)					
3734.27(24)						17(4)		50(17)		17(4)	
4341.8(6)	$\langle 14^+ \rangle$								100		
4431.2(5)									100		
4668.5(6)											100

Energy levels and branching ratios [03Wi02, 96Te01]. **$^{129}_{52}$Te**

E^*	$2J^\pi$	L	I_γ	σ (d,p)	$S_{\ell j}$	σ (t,d)	S_n	$G_{\ell j}$	σ (d,t)	R	C^2S	Ref.
[keV]		(d,p)	%	μb/sr	(d,p)	μb/sr	(t,d)	(d,t)	μb/sr	(p,d)	(τ, α)	
0.0	3^+	2	0.39	2331	0.338	4758	0.317	1.082	7269	2.9	2.1	03Wi02
105.51(5)	11^-	5		384	0.188	621	0.238	3.019	1340	0.97	7.2	
180.37(3)	1^+	0	0.59	1021	0.202	2119	0.197	0.524	7749	10.4		03Wi02
244.5(6)**												96Te01
360(5)**	5^+,3^+											96Te01
455(5)**	7^+,9^+									2.07	0.21	96Te01
464.63(4)	9^-											
544.60(3)	5^+	2		34	0.0027	56	0.002	0.007	67			03Wi02
633.75(3)	3^+	2	0.22	50	0.007	111	0.008					03Wi02
759.82(4)	7^-	3		179	0.012	391	0.015	0.0823	151			03Wi02
773.21(3)	1^+	0		40	0.007					7.29	0.26	03Wi02
812.93(7)	7^+	4		15	0.008	45	0.010	0.0915	60	2.95		03Wi02
865.5(6)		$\langle 4 \rangle$		8	0.003			0.032	16			03Wi02
874.88(4)	3^+	2		33	0.004	91		0.0055	51	2.80	0.28	03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
966.84(5)	5^+	2		405	0.034	780	0.032	0.334	3616	3.70	1.7	03Wi02
1162.21(8)	7^-	3		8	0.0008	16						03Wi02
1211.8(8)	7^+	4		33	0.0017	59	0.015	0.537	365			03Wi02
1217(5)	3^+,5^+									3.50		
1221.26(4)												
1233.82(8)	3^+,5^+	2		7	0.0008							03Wi02
1281.57(6)	5^+	2		126	0.010	210	0.009	0.176	2047	3.60	3.6	03Wi02
1303.41(7)	1^+	0		55	0.011	109		0.0023	55			03Wi02
1317.83(8)	7^+	4		4	0.0016			0.0212	15			03Wi02
1421.34(9)	5^+	2		30	0.0020	40	0.002	0.0346	442	4.34		03Wi02
1483.6(6)	7^+	4		5	0.0016	7	0.002	0.0905	66	4.05	0.65	03Wi02
1559.85(5)	3^-	1	0.23	12	0.0020	34	0.001					03Wi02
1582.1(7)	7^+	4		4	0.0011			0.0487	36			03Wi02
1599.4(1)	5^+	2		5	0.0003			0.0048	57	3.7		03Wi02
1625***												96Te01
1633***												96Te01
1654***	1^+					178	0.035					96Te01
1656.26(8)	5^+	2	0.23	121	0.009			0.169	2204			03Wi02
1672***										4.33		96Te01
1723.5(6)	5^+	2						0.0035	46			96Te01
1739.7(6)	3^+,5^+	2						0.0018	23			96Te01
1752.30(7)	5^-	3		146	0.013	251						03Wi02
1754.2(5)	7^+	4				incl		0.0838	57			96Te01
1780.0(6)	5^+	2		35	0.003	56	0.002	0.0405	559	4.00		96Te01
1812.8(6)		4		9	0.0008			0.0501	37			03Wi02
1839.2(7)				6		18	0.003					03Wi02
1843.6(6)		1+5							16		1.04	96Te01
1851.55(7)	5^-	3		5	0.0056							03Wi02
1868.9(2)	5^+	3		67	0.0056							03Wi02
1869.6(6)	5^-,7^-	2				113	0.006	0.0252	320			03Wi02
1887.5(6)									14			
1918.7(8)	$\langle 3^+ \rangle$	$\langle 2 \rangle$						0.0012	16	4.99	0.71	03Wi02
1992.4(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		8	0.0006							03Wi02
2040.19(6)	3^-	1	2.09	126	0.0079	270	0.014	0.0006	29			03Wi02
2059.3(10)	1^+	0						0.0013	40			03Wi02
2071.5(10)	3^+	2						0.0034	40			96Te01
2072.4(6)	7^-	3		153	0.0085	289	0.010					03Wi02
2089.9(10)	$\langle 7^+,9^+ \rangle$	$\langle 4 \rangle$						0.0097	9			03Wi02
2106.6(6)	7^-	3		2146	0.12	3572	0.128	0.0062	55			03Wi02
2113.9(10)	1^+	0				190	0.04	0.0042	112			03Wi02
2132.7(6)	5^-,7^-	3		70	0.0035	incl						03Wi02
2133.0(10)	9^-,11^-	5						0.0314	11			03Wi02
2141.8(10)	7^+	4						0.0233	17			03Wi02
2182.6(10)	3^+	2						0.0033	40	7.96		03Wi02
2197.7(10)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$						0.0073	16			03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
2220.2(10)									13	7.09		
2221.3(6)	7^-	3		3009	0.169	5998	0.214					03Wi02
2221.66(8)	3^-		1.00									03Wi02
2232.2(6)	5^-,7^-	3		362	0.029							03Wi02
2255.1(15)	1^+	0						0.0020	65			03Wi02
2266.6(15)	$\langle 3^+\rangle$	$\langle 2\rangle$						0.0039	57			03Wi02
2267.24(6)	3^-	1	2.39	156	0.014	300	0.017					03Wi02
2278.5(15)	$\langle 7^+\rangle$	4						0.0166	13	7.09		03Wi02
2303.7(4)*	9^-,11^-	5						0.0368	15			03Wi02
2309.7(15)	1^+	0				110	0.026	0.0029	86			03Wi02
2312.2(6)	7^-	3		58	0.0033							03Wi02
2316.6(15)	$\langle 11^-\rangle$	5						0.0405	24			03Wi02
2353.8(15)	1^+	0						0.0059	199			03Wi02
2360.49(3)	3^-	1	19.54	1302	0.09	2600	0.159					03Wi02
2362.6(15)	$\langle 1^-\rangle$	1						0.0011	28			03Wi02
2370.5(15)	$\langle 3^+\rangle$	2						0.0015	20	2.4	0.4	03Wi02
2377.4(15)	$\langle 1^-\rangle$	1						0.0009	24			03Wi02
2379.57(3)	3^-	1	10.33	711	0.05	1700	0.105					03Wi02
2416.1(20)	5^+	2						0.0059	94			03Wi02
2427.2(6)	7^-	3		38	0.0021							03Wi02
2431.6(20)	1^+	0						0.0006	22			03Wi02
2454.3(20)	7^+,9^+	4						0.0088	7	4.30		03Wi02
2462.5(6)	7^-	3		62	0.0032							03Wi02
2465.3(20)	$\langle 3^+$,$5^+\rangle$	$\langle 2\rangle$						0.0006	7			03Wi02
2477.0(20)	$\langle 3^+$,$5^+\rangle$	$\langle 2\rangle$						0.0010	15			03Wi02
2481.6(20)	7^+,9^+	4						0.0338	28			03Wi02
2493.1(1)	3^-	1	0.52	27	0.0018	116						03Wi02
2506.7(29)	$\langle 3^+\rangle$	2						0.0018	22			03Wi02
2507.1(6)	$\langle 5^-$,$7^-\rangle$	$\langle 3\rangle$		27	0.0018							03Wi02
2511.0(6)	$\langle 5^-$,$7^-\rangle$	$\langle 3\rangle$		35	0.003							03Wi02
2518.6(29)	3^+	2						0.0019	23			03Wi02
2524.76(7)	1^-	1	1.16	30	0.0044					3.80		03Wi02
2555.8(29)	5^+	2						0.0027	45			03Wi02
2581.69(9)	3^-	1	0.86	32	0.0027							03Wi02
2584.3(29)	$\langle 3^+\rangle$	2						0.0011	14			03Wi02
2612.4(6)	$\langle 5^-$,$7^-\rangle$	$\langle 3\rangle$		7	0.0006					7.33		03Wi02
2615.9(29)	$\langle 3^+$,$5^+\rangle$	$\langle 2\rangle$						0.0008	13	incl		03Wi02
2632.4(29)	5^+	2						0.0013	22	incl		03Wi02
2641.3(7)	$\langle 5^-$,$7^-\rangle$	$\langle 3\rangle$		4	0.0005							03Wi02
2671(4)	$\langle 3^+$,$5^+\rangle$	$\langle 2\rangle$						0.0003	5			03Wi02
2681(4)	9^+	4						0.0062	9			03Wi02
2702(4)	$\langle 1^-\rangle$	1						0.0003	11			03Wi02
2705.13(3)	1^-	1	10.44	610	0.0081							03Wi02
2711(4)	5^+	2						0.0022	34			03Wi02
2728.2(6)	1^-,3^-	1		25	0.0032					2.50		03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
2736.6(6)	$\langle 3^- \rangle$	$\langle 1 \rangle$		20	0.0017					incl		03Wi02
2747(4)	$3^+,5^+$	2						0.0028	42	incl		03Wi02
2757(4)	$\langle 3^+ \rangle$	2						0.0024	33			03Wi02
2765.3(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		33	0.0016							03Wi02
2767(4)	$\langle 5^+ \rangle$	2						0.0011	19			03Wi02
2812.7(6)	$9^-,11^-$	$\langle 5 \rangle$		19	0.0106							03Wi02
2819.5(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		96	0.0061							03Wi02
2824(5)	$7^+,9^+$	4						0.019	18			03Wi02
2831(5)	$\langle 3^+ \rangle$	$\langle 2 \rangle$						0.0009	12			03Wi02
2835.2(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		56	0.0037							03Wi02
2844(5)	$3^+,5^+$	2						0.0005	6			03Wi02
2853.7(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		102	0.0068							03Wi02
2856(5)	5^+	2						0.0023	36			03Wi02
2859.5(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		39	0.0022							03Wi02
2871.2(6)	$\langle 5^- \rangle$	$\langle 3 \rangle$		73	0.0048							03Wi02
2889.8(6)	$\langle 5^-,7^- \rangle$	$\langle 3 \rangle$		44	0.0031					2.15		03Wi02
2899.9(6)	$9^-,11^-$	5		16	0.0044					incl		03Wi02
2919.6(6)	$\langle 5^- \rangle$	3		103	0.0069							03Wi02
2971.3(6)	7^-	3		62	0.0030							03Wi02
2979.4(6)	5^-	3		713	0.0462							03Wi02
2999.6(3)*				6								03Wi02
3009.43(9)*				7								03Wi02
3023.8(3)*				3								03Wi02
3029.07(8)*				23								03Wi02
3046.25(8)*				15								03Wi02
3056.4(1)*				6								03Wi02
3070.43(3)*				6						4.32		03Wi02
3089.26(9)*	$\langle 3^+,5^+ \rangle$			48								03Wi02
3102.75(9)*				40								03Wi02
3128.5(3)*				10								03Wi02
3133.45(6)*				35								03Wi02
3150.7(1)*				16								03Wi02
3163.3(4)*				3								03Wi02
3182.0(2)*				15								03Wi02
3202.3(3)*				7								03Wi02
3211.8(3)*				4								03Wi02
3230.5(1)*				61								03Wi02
3246.1(1)*				58								03Wi02
3253.1(1)*				23								03Wi02
3260.9(2)*				10								03Wi02
3277.1(5)*				12								03Wi02
3281.6(2)*				38								03Wi02
3295.7(5)*				3								03Wi02
3306.4(1)*				15								03Wi02
3321.4(1)*				34								03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
3326.6(2)*				9								03Wi02
3350.3(2)*				7								03Wi02
3355.5(2)	3^-	1	0.68	27	0.002							03Wi02
3361.5(1)*				48								03Wi02
3364.58(9)*				98								03Wi02
3371.6(1)*				37								03Wi02
3379.29(9)*				14								03Wi02
3384.75(8)*				92								03Wi02
3389.8(3)*				12								03Wi02
3405.8(1)*				46								03Wi02
3414.3(2)*				27								03Wi02
3419.9(1)*				76								03Wi02
3429.8(3)	3^-	1	0.65	105	0.0108							03Wi02
3441.00(9)*				87								03Wi02
3452.7(1)*				9								03Wi02
3461.13(8)*				126								03Wi02
3474.8(1)*				66								03Wi02
3479.1(2)*				32								03Wi02
3489.6(6)	1^-	1		19	0.0031							03Wi02
3502.59(7)	$\langle 3^-\rangle$	$\langle 1\rangle$	1.06	202	0.0185							03Wi02
3511.99(8)*				73								03Wi02
3524.2(2)*				36								03Wi02
3528.3(1)	$\langle 3^-\rangle$	$\langle 1\rangle$	0.43	46	0.0074							03Wi02
3546.92(9)	$\langle 3^-\rangle$	$\langle 1\rangle$	0.79	102	0.0096							03Wi02
3559.3(2)*				19								03Wi02
3564.5(2)	1^-	1	1.14	80	0.0122							03Wi02
3569.2(1)*				53								03Wi02
3579.7(2)*				9								03Wi02
3587.43(6)*				176								03Wi02
3593.7(2)*				20								03Wi02
3600.5(6)	$\langle 3^-\rangle$	$\langle 1\rangle$		30	0.0027							03Wi02
3615.20(7)*				77								03Wi02
3622.9(3)*				5								03Wi02
3628.7(3)*				5								03Wi02
3634.19(8)*				57								03Wi02
3638.38(6)	1^-	1	0.97	77	0.0132							03Wi02
3643.26(5)*				56								03Wi02
3648.8(1)	1^-	1	0.56	57	0.0095							03Wi02
3655.1(1)*				108								03Wi02
3666.42(6)*				6								03Wi02
3671.5(6)	3^-	1		19	0.0019							03Wi02
3677.85(6)*				62								03Wi02
3695.69(8)*				147								03Wi02
3707.6(1)	1^-	1		58	0.0103							03Wi02
3712.8(2)*				19								03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
3729.3(2)*				21								03Wi02
3737.13(8)*				39								03Wi02
3744.9(6)	3^-	1		39	0.0033							03Wi02
3752.3(2)*				16								03Wi02
3765.0(6)	$\langle 3^-\rangle$	1		36	0.0034							03Wi02
3769.94(6)*				49								03Wi02
3777.5(1)*				30								03Wi02
3784.59(7)*				28								03Wi02
3792.41(4)	3^-	1	3.83	460	0.0401							03Wi02
3800.9(2)*				24								03Wi02
3811.7(4)*				9								03Wi02
3818.9(1)*				18								03Wi02
3826.7(1)*				11								03Wi02
3837.66(6)*				38								03Wi02
3851.7(1)	3^-	1	0.53	35	0.0033							03Wi02
3859.6(2)*				9								03Wi02
3865.4(1)	3^-	1	0.85	95	0.0083							03Wi02
3873.4(1)*				182								03Wi02
3884.5(2)*				16								03Wi02
3890.2(1)*				165								03Wi02
3899.3(6)	3^-	1		51	0.0046							03Wi02
3906.92(5)*				66								03Wi02
3917.0(4)*				11								03Wi02
3921.6(1)*				24								03Wi02
3929.4(2)*				6								03Wi02
3938.5(1)*				51								03Wi02
3944.2(2)*				31								03Wi02
3948.1(6)	$\langle 3^-\rangle$	$\langle 1\rangle$		22	0.0020							03Wi02
3952.8(2)*				48								03Wi02
3962.3(2)*				12								03Wi02
3969.4(6)	$\langle 3^-\rangle$	$\langle 1\rangle$		20	0.0021							03Wi02
3974.3(6)	3^-	1		95	0.0086							03Wi02
3986.8(3)*				6								03Wi02
3993.7(2)*				21								03Wi02
3997.6(1)*				32								03Wi02
4002.4(3)*				28								03Wi02
4005.8(2)*				48								03Wi02
4017.1(1)*				42								03Wi02
4024.9(1)*				31								03Wi02
4032.6(3)	3^-	1	0.51	37	0.0038							03Wi02
4043.3(1)*				24								03Wi02
4045.8(2)*				52								03Wi02
4053.7(2)*				22								03Wi02
4059.1(6)	$\langle 1^-\rangle$	1		44	0.0082							03Wi02
4067.8(6)	3^-	1		88	0.0088							03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
4072.2(2)*				36								03Wi02
4082.2(6)	3^-	1		48	0.0048							03Wi02
4087.6(1)	3^-	1	0.68	99	0.0092							03Wi02
4092.5(5)*				13								03Wi02
4101.8(4)*				16								03Wi02
4106.1(4)*				31								03Wi02
4110.4(4)*				32								03Wi02
4121.20(9)	1^-	1	0.63	90	0.0155							03Wi02
4129.0(1)*				41								03Wi02
4133.52(9)	3^-	1	0.61	133	0.0133							03Wi02
4150.2(4)*				5								03Wi02
4161.1(5)*				8								03Wi02
4166.2(1)*				47								03Wi02
4175.2(3)	$\langle 1^- \rangle$	1	0.20	33	0.0057							03Wi02
4180.7(3)	$\langle 3^- \rangle$	1	0.34	70	0.0069							03Wi02
4200.8(1)*				59								03Wi02
4204.2(3)	1^-	1	0.28	47	0.0104							03Wi02
4212.4(1)*				25								03Wi02
4220.6(2)	3^-	1	0.58	85	0.0081							03Wi02
4229.1(1)*				38								03Wi02
4240.5(3)	3^-	1	0.49	73	0.0073							03Wi02
4251.2(4)*				23								03Wi02
4259.3(2)*				25								03Wi02
4267.4(6)	$\langle 1^- \rangle$	1		19	0.0033							03Wi02
4277.0(1)	3^-	1	0.40	105	0.0091							03Wi02
4291.2(3)*				11								03Wi02
4297.8(2)	1^-	1	0.22	42	0.0074							03Wi02
4306.7(2)*				18								03Wi02
4311.7(6)	$\langle 1^- \rangle$	1		53	0.0096							03Wi02
4317.1(1)*				19								03Wi02
4326.49(8)*				85								03Wi02
4336.2(6)	$\langle 1^- \rangle$	1		32	0.0063							03Wi02
4349.5(2)*				43								03Wi02
4356.2(1)	$\langle 1^- \rangle$	1	0.28	105	0.0210							03Wi02
4364.58(5)	1^-	1	1.76	238	0.0429							03Wi02
4374.0(3)	$\langle 1^-,3^- \rangle$		0.50	99								03Wi02
4380.6(1)*				65								03Wi02
4389.0(1)	1^-	1	0.93	168	0.0328							03Wi02
4402.1(2)*				47								03Wi02
4410.5(2)*				59								03Wi02
4425.1(6)	$\langle 3^- \rangle$	$\langle 1 \rangle$		65	0.0052							03Wi02
4432.9(1)	3^-	1	0.49	123	0.0138							03Wi02
4444.0(2)*				67								03Wi02
4456.4(1)*				81								03Wi02
4467.4(6)	$\langle 1^- \rangle$	$\langle 1 \rangle$		106	0.0238							03Wi02

(continued) **$^{129}_{52}$Te**

E^* [keV]	$2J^\pi$	L (d,p)	I_γ %	σ (d,p) μb/sr	$S_{\ell j}$ (d,p)	σ (t,d) μb/sr	S_n (t,d)	$G_{\ell j}$ (d,t)	σ (d,t) μb/sr	R (p,d)	C^2S (τ,α)	Ref.
4474.7(6)*				62								03Wi02
4483.9(2)*				99								03Wi02
4496.8(2)*				76								03Wi02
4504.2(2)*				40								03Wi02
4511.8(2)*				28								03Wi02
4522.5(5)*				53								03Wi02
4543.3(3)*				41								03Wi02
4558.2(3)*				77								03Wi02
4572.7(2)*				64								03Wi02
4580.5(1)	$\langle 1^-,3^-\rangle$		0.45	62								03Wi02
4589.2(3)*				126								03Wi02
4595.2(5)*				67								03Wi02
4608.4(4)*				71								03Wi02
4622.0(2)*				52								03Wi02
4634.7(5)*				30								03Wi02
4643.2(4)*	$\langle 1^-,3^-\rangle$			47	0.0099							03Wi02
4652.9(4)*	$\langle 1^-,3^-\rangle$			42	0.0066							03Wi02
4665.8(2)*	$1^-,3^-$			39	0.0082							03Wi02
4682.0(3)*	$1^-,3^-$			20	0.0040							03Wi02
4695.4(5)*				21								03Wi02
4711.8(3)*				30								03Wi02
4724.3(2)*				32								03Wi02
4743.5(4)*				55								03Wi02
4766.2(5)*				18								03Wi02
4777.9(4)*	$\langle 1^-,3^-\rangle$			27	0.0040							03Wi02
4794.3(2)*				42								03Wi02
4807.9(3)*				33								03Wi02
4840.4(4)*				112								03Wi02
4849.6(6)*				18								03Wi02
4868.2(5)*				57								03Wi02
4879.7(2)*				38								03Wi02
4907.4(5)*				96								03Wi02
4917.0(5)*	$\langle 1^-,3^-\rangle$			86	0.0129							03Wi02
4929.4(5)*				112								03Wi02
4946.8(4)*				68								03Wi02
4958.3(3)*				88								03Wi02
4975.3(4)*				56								03Wi02
5002.3(4)*				44								03Wi02
5013.3(7)*				44								03Wi02

(continued) **$^{129}_{52}$Te**

E^*	$2J^\pi$	L	I_γ	σ (d,p)	$S_{\ell j}$	σ (t,d)	S_n	$G_{\ell j}$	σ (d,t)	R	C^2S	Ref.
[keV]		(d,p)	%	μb/sr	(d,p)	μb/sr	(t,d)	(d,t)	μb/sr	(p,d)	(τ,α)	
6082.42(3)	1^+											
		003Wi02	03Wi02	03Wi02	03Wi02	81Sh02	81Sh02	03Wi02	03Wi02			Ref.

Additional data on this isotope can be found in [03Wi02, 01Vo0A, 01Wi0A, 99Bo31, 98Zh09, 97Sc2567Mo22].

* Levels given as additional in [03Wi02] with estimated 0.5 keV systematic error in energies.

** Probable tail of the 180 keV line and background of the (d,t) reaction [03Wi02].

*** These four levels were not adopted in the recent work [03Wi02].

$T_{1/2}$=69.6 min for the ground state and $T_{1/2}$=33.6 days for a state with $2J^\pi=11^-$ are given in [96Te01].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [03Wi02, 96Te01]. Part 2 **$^{129}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	106	180	465	545	634	760	773	813
[keV]		$2J_f^\pi$:	3^+	11^-	1^+	9^-	5^+	3^+	7^-	1^+	7^+
105.51(5)	11^-		100								
180.37(3)	1^+		100								
244.5(6)**			100								
464.63(4)	9^-			100							
544.60(3)	5^+		97.3		2.72						
633.75(3)	3^+		79.5		20.5						
759.82(4)	7^-			69.8		30.2					
773.21(3)	1^+		75.8		24.2						
812.93(7)	7^+		100								
874.88(4)	3^+		49.3		33.6		17.0				
966.84(5)	5^+		74.8		25.2						
1162.21(8)	7^-			7.29		92.7					
1221.26(4)			3.37			79.8			16.8		
1233.82(8)	3^+,5^+				47.4		52.6				
1281.57(6)	5^+		50.6				49.4				
1303.41(7)	1^+		21.9		54.3			23.8			
1317.83(8)	7^+		37.2				23.3	39.5			
1421.34(9)	5^+		71.6							28.4	
1559.85(5)	3^-		18.8		8.70				30.4	20.3	
1599.4(1)	5^+										100
1633***						16(6)					
1656.26(8)	5^+		100								
1723.5(6)	5^+			1.0(6)		2.9(7)					80(4)
1739.7(6)	3^+,5^+		100								
1752.30(7)	5^-		0.17			0.20			0.43		
1754.2(5)	7^+						28(4)				23(5)

(continued) **$^{129}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	106	180	465	545	634	760	773	813
[keV]		$2J_f^\pi$:	3^+	11^-	1^+	9^-	5^+	3^+	7^-	1^+	7^+
1780.0(6)	5^+						100				
1843.6(6)				28.2(35)							60(4)
1851.55(7)	5^-		18.2						6.90		
1868.9(2)	5^+						28.8	35.6		35.6	
1918.7(8)	$\langle 3^+ \rangle$		100								
2040.19(6)	3^-		24.2		51.5						
2071.5(10)	3^+		30(7)				23(7)	16(7)			19(9)
2106.6(6)	7^-		$\langle$x$\rangle$								
2133.0(10)	9^-,11^-		100								
2197.7(10)	$\langle 5^-,7^- \rangle$		100								
2221.3(6)	7^-		45.8		15.9		22.4				
2267.24(6)	3^-		4.05		44.6			8.78		9.80	
2360.49(3)	3^-		14.6		78.3		0.36			0.64	
2379.57(3)	3^-		17.9		49.6		2.26	2.09	2.96	5.22	
2493.1(1)	3^-		24.6		21.0						
2524.76(7)	1^-		68.4		12.0						
2581.69(9)	3^-		12.5		37.5						
2705.13(3)	1^-		27.9		41.4			3.72		2.68	
3355.5(2)	3^-		100								
3429.8(3)	3^-				21.3				23.4		
3502.59(7)	$\langle 3^- \rangle$				59.6				14.9		
3528.3(1)	$\langle 3^- \rangle$		35.8		42.4					9.27	
3546.92(9)	$\langle 3^- \rangle$		15.6		68.8						
3564.5(2)	1^-		100								
3638.38(6)	1^-		67.6		32.4						
3648.8(1)	1^-				100						
3792.41(4)	3^-		14.2		77.8					4.00	
3851.7(1)	3^-				76.5						
3865.4(1)	3^-				100						
4032.6(3)	3^-				100						
4087.6(1)	3^-				33.3						
4121.20(9)	1^-		20.0		80.0						
4133.52(9)	3^-		63.9		36.1						
4175.2(3)	$\langle 1^- \rangle$		100								
4180.7(3)	$\langle 3^- \rangle$				100						
4204.2(3)	1^-		100								
4240.5(3)	3^-				100						
4277.0(1)	3^-				100						
4297.8(2)	1^-		100								
4356.2(1)	$\langle 1^- \rangle$				100						
4364.58(5)	1^-		65.4		34.6						
4374.0(3)	$\langle 1^-,3^- \rangle$		100								
4389.0(1)	1^-				100						
4432.9(1)	3^-		73.9		26.1						

Energy levels and branching ratios [03Wi02, 96Te01]. Part 3 **$^{129}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	875	967	1162	1221	1228	1234	1282	1303	1421
[keV]		$2J_f^\pi$:	3^+	5^+	7^-	5^-	7^+,9^+	3^+,5^+	5^+	1^+	5^+
1559.85(5)	3^-					21.7					
1633***							84(8)				
1723.5(6)	5^+			15.1(10)			0.9(4)				
1752.30(7)	5^-				0.20		99				
1754.2(5)	7^+						49(4)				
1843.6(6)				12.2(10)							
1851.55(7)	5^-			5.42	69.5						
2040.19(6)	3^-					14.7					
2071.5(10)	3^+			11(5)							
2221.3(6)	7^-					15.9					
2267.24(6)	3^-				6.76	12.2					
2360.49(3)	3^-		1.50			1.77					
2379.57(3)	3^-		4.96	0.70		7.22			4.26		
2493.1(1)	3^-			19.3							
2524.76(7)	1^-		19.6								
2581.69(9)	3^-					23.6					
2705.13(3)	1^-		18.3					2.34		1.12	
3429.8(3)	3^-		55.3								
3502.59(7)	$\langle 3^- \rangle$		25.5								
3528.3(1)	$\langle 3^- \rangle$		12.6								
3792.41(4)	3^-										4.00
3851.7(1)	3^-					23.5					

Energy levels and branching ratios [03Wi02, 96Te01]. Part 4 **$^{129}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1560	1656	1852	1869	2222	2267	2360	2379	3792
[keV]		$2J_f^\pi$:	3^-	5^+	5^-	5^+	3^-	3^-	3^-	3^-	3^-
2040.19(6)	3^-		9.56								
2267.24(6)	3^-		13.8								
2360.49(3)	3^-		2.18	0.64							
2379.57(3)	3^-			0.96	1.91						
2493.1(1)	3^-				19.3	15.8					
2581.69(9)	3^-				26.4						
2705.13(3)	1^-							0.61	1.90		
3546.92(9)	$\langle 3^- \rangle$		15.6								
4087.6(1)	3^-									66.7	
4220.6(2)	3^-						82.8				17.2

Energy levels and branching ratios [01Si26]. **$^{130}_{52}$Te**

E^* [keV]	J^π	L	β_L (p,p′)	β_L (α,α')	σ (d,d′) μb/sr	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	$B(E1)$ $10^{-3}ef$	$B(M1)$ $[\mu_N^2]$	$T_{1/2}$ or Γ_{cm}	Ref.
0.0	0^+									$>5{\cdot}10^{23}$ yr	
839.49(2)	2^+	2	0.114(9)	0.12	1500					2.30(5) ps	75Ma03
1588.26(2)	2^+										
1633.00(2)	4^+										04Br19
1815.34(3)	$\langle 6\rangle^+$									9.8(5) ns	04Br19
1885.70(3)	2^+				84						66Ki04
1964.76(4)	$\langle 0^+\rangle$										
1981.55(2)	4^+	4	0.062(4)								75Ma03
2101.25(3)	5^-	5	0.045(3)								75Ma03
2138.63(3)	3^+										
2146.41(4)	7^-									115(8) ns	04Br19
2190.615(23)	$\langle 2^+\rangle$										
2282.593(25)	$\langle 2^+\rangle$										
2300.22(4)	$\langle 2^+\rangle$				100						66Ki04
2330.74(4)	$\langle 4^+\rangle$										
2404.65(4)	$\langle 6\rangle^-$										
2418(10)											
2432.08(7)	$\langle 7\rangle^-$										
2435.59(4)	4^-										
2449.48(4)	4^+										
2466.89(4)	$\langle 2^+\rangle$				69						66Ki04
2527.06(3)	3^-										
2575.2(4)											
2581.15(5)	$\langle 2^+\rangle$				58						66Ki04
2607.33(5)	1										
2648.57(22)	8^+										04Br19
2667	10^+									1.90(8) μs	04Br19
2689.12(5)	1					8(1)	5(1)	0.24(3)	22(3)		97Sc15
2714.97(5)	$\langle 4^-\rangle$										
2719.49(7)	$\langle 5^+\rangle$										
2729.5(10)	3^-	3	0.073(6)	0.06							75Ma03
2736.31(5)	$\langle 4^+\rangle$										
2743.14(4)	1					5.4(10)	3.5(5)	0.16(2)	15(2)		97Sc15
2744.97(4)	$\langle 2^+,3\rangle$										
2765.26(22)	$\langle 4^+\rangle$										
2770.84(8)											
2782.12(12)	$\langle 7^-\rangle$										
2789.26(5)											
2833.35(6)	$\langle 4\text{–}6\rangle^+$										
2878.43(10)	$\langle 7\text{–}9\rangle^-$										
2950(20)		$\langle 4\rangle$	0.026(3)								75Ma03
3081.38(15)	$[9^-]$										04Br19
3155.03(10)											
3180(20)											
3279(20)											

(continued) **$^{130}_{52}$Te**

E^* [keV]	J^π	L	β_L (p,p′)	β_L (α,α')	σ (d,d′) μb/sr	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	$B(E1)$ $10^{-3}ef$	$B(M1)$ $[\mu_N^2]$	$T_{1/2}$ or Γ_{cm}	Ref.
3287.90(23)	⟨7,8$^+$⟩										
3360(10)	3$^-$										
3385.1(3)	[12$^+$]										04Br19
3404.9(4)											
3413.1(3)	⟨4–6⟩										
3470.2(5)	⟨7$^-$⟩										
3536.74(21)	7$^-$–9$^-$	3	0.060(4)								75Ma03
3545.2(4)	[11$^-$]										04Br19
3565.26(20)	⟨7,8$^+$⟩										
3567.7(3)	⟨1,2⟩					10(1)	11(2)	0.23(4)	21(3)		97Sc15
3642(20)											
3708.17(19)											
3791.4(11)											
3909.1(4)											
3930(20)											
3995(20)											
4073.5(5)											
4170.68(25)	⟨7–9⟩$^-$										
4249.4(15)	[13$^-$]										04Br19
4303.7(3)	⟨7$^-$–9$^-$⟩										
4375.4(18)										261(33) ns	
4377	[15$^-$]									45 ns	04Br19
4384(20)											
4446(20)											
4460.3(4)	⟨7$^-$–9$^-$⟩										
4497(20)											
4531.5(4)	⟨1,2⟩					30(8)	54(13)	0.55(13)	50(12)		97Sc15
4559(20)											
4597(20)											
4667(20)											
4714(20)											
4748(20)											
4793(20)											
4796(20)											
4833(20)											
4856(20)											
4891(20)											
4950(20)											
4983(20)											
7538.2(22)	1						50(10)			1.9(5) fs	70Sc27

(continued) **$^{130}_{52}$Te**

E^* [keV]	J^π	L	β_L (p,p′)	β_L (α,α')	σ (d,d′) μb/sr	$I_{s,0}$ [eVb]	$\Gamma_\circ$ [meV]	$B(E1)$ $10^{-3}ef$	$B(M1)$ $[\mu_N^2]$	$T_{1/2}$ or Γ_{cm}	Ref.
7636.5(5)	1^-		75Ma03		66Ki04	97Sc15	30(10) 97Sc15	97Sc15		7.6(40) fs	02Si26 Ref.

Additional data on this isotope can be found in [03Ba01, 01Ge07, 00Gr02, 98Zh09, 97Sm09, 97Sc15, 97Sc25, 90Be50, 74Ma22, 67Gr30].
Abundance: 34.08(62) %.
Levels of the yrast band were studied in [04Br19].
Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [01Si26]. Part 2 **$^{130}_{52}$Te**

E^*	J^π	Branching ratios in percentage										
		E_f^*:	0.0	839.5	1588	1633	1815	1886	1965	1981	2101.2	2146.4
[keV]		J_f^π:	0^+	2^+	2^+	4^+	$\langle 6\rangle^+$	2^+	$\langle 0^+\rangle$	4^+	5^-	$\langle 7\rangle^-$
839.49(2)	2^+		100									
1588.26(2)	2^+		1.6(3)	98(14)								
1633.00(2)	4^+			100								
1815.34(3)	$\langle 6\rangle^+$					100						
1885.70(3)	2^+		2.0(4)	98(14)								
1964.76(4)	$\langle 0^+\rangle$			100								
1981.55(2)	4^+			41(5)		59(6)						
2101.25(3)	5^-					100						
2138.63(3)	3^+			41(6)	43(4)	16(2)						
2146.41(4)	7^-						100				x	
2190.615(23)	$\langle 2^+\rangle$		52(8)	48(7)								
2282.593(25)	$\langle 2^+\rangle$		17(2)	83(12)								
2300.22(4)	$\langle 2^+\rangle$		4.3(7)	96(13)								
2330.74(4)	$\langle 4^+\rangle$			22(4)		78(8)						
2404.65(4)	$\langle 6\rangle^-$										50(5)	50(5)
2432.08(7)	$\langle 7\rangle^-$										74(7)	26(3)
2435.59(4)	4^-										100	
2449.48(4)	4^+				3(2)	97(8)						
2466.89(4)	$\langle 2^+\rangle$		10(2)	90(13)								
2527.06(3)	3^-			96(15)		4.1(7)						
2575.2(4)						100						
2581.15(5)	$\langle 2^+\rangle$			89(13)	11(2)							
2607.33(5)	1		62(9)	38(5)								
2648.57(22)	8^+						57(6)					43(5)
2689.12(5)	1		100									
2714.97(5)	$\langle 4^-\rangle$										100	
2719.49(7)	$\langle 5^+\rangle$					36(5)	49(8)			16(3)		
2729.5(10)	3^-			x								
2736.31(5)	$\langle 4^+\rangle$			14(3)		39(4)	42(4)					

(continued) **$^{130}_{52}$Te**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	0.0	839.5	1588	1633	1815	1886	1965	1981	2101.2	2146.4
[keV]		J_f^π:	0^+	2^+	2^+	4^+	$\langle 6\rangle^+$	2^+	$\langle 0^+\rangle$	4^+	5^-	$\langle 7\rangle^-$
2743.14(4)	1		100									
2744.97(4)	$\langle 2^+,3\rangle$			45(6)		13(2)		41(6)				
2765.26(22)	$\langle 4^+\rangle$			8(4)	45(4)	26(6)	21(4)					
2770.84(8)						21(16)					79(16)	
2782.12(12)	$\langle 7^-\rangle$										80(8)	20(4)
2789.26(5)				80(11)		20(3)						
2833.35(6)	$\langle 4–6\rangle^+$					10(1)	85(4)					
2878.43(10)	$\langle 7–9\rangle^-$											100
3081.38(15)	$[9^-]$											100
3155.03(10)						54(8)				46(7)		
3287.90(23)	$\langle 7,8^+\rangle$						11(4)					37(7)
3385.1(3)	$[12^+]$											47(8)
3404.9(4)												31(6)
3413.1(3)	$\langle 4–6\rangle$						35(4)					
3470.2(5)	$\langle 7^-\rangle$						42(12)				58(12)	
3545.2(4)	$[11^-]$										100	
3565.26(20)	$\langle 7,8^+\rangle$						4(3)					17(3)
3567.7(3)	$\langle 1,2\rangle$		100	<25								
3708.17(19)												11(4)
3909.1(4)												62(6)
4170.68(25)	$\langle 7–9\rangle^-$											5(2)
4531.5(4)	$\langle 1,2\rangle$		100	<10								
7538.2(22)	1		24(5)	27(2)	30(5)			3(1)	3(1)			
7636.5(5)	1^-		x	x	x			x				

Energy levels and branching ratios [01Si26]. Part 3 **$^{130}_{52}$Te**

E^*	J^π		Branching ratios in percentage									
		E_f^*:	2190.6	2330.7	2404.6	2432.1	2607	2689	2765.3	2770.8	2782.1	2878.4
[keV]		J_f^π:	$\langle 2^+\rangle$	$\langle 4^+\rangle$	$\langle 6\rangle^-$	$\langle 7\rangle^-$	1	1	$\langle 4^+\rangle$		$\langle 7^-\rangle$	
2736.31(5)	$\langle 4^+\rangle$			5(2)								
2833.35(6)	$\langle 4–6\rangle^+$			5.3(11)								
3287.90(23)	$\langle 7,8^+\rangle$				22(6)	30(6)						
3385.1(3)	$[12^+]$											53(11)
3404.9(4)					69(14)							
3413.1(3)	$\langle 4–6\rangle$								65(6)			
3536.74(21)	$7^–9^-$											26(6)
3565.26(20)	$\langle 7,8^+\rangle$					6(3)						44(4)
3708.17(19)											7(4)	32(7)
3909.1(4)												38(8)
4170.68(25)	$\langle 7–9\rangle^-$											43(4)
4303.7(3)	$\langle 7^–9^-\rangle$									33(7)	30(7)	

(continued) **$^{130}_{52}$Te**

E^*	J^π	Branching ratios in percentage									
	E^*_f:	2190.6	2330.7	2404.6	2432.1	2607	2689	2765.3	2770.8	2782.1	2878.4
[keV]	J^π_f:	$\langle 2^+ \rangle$	$\langle 4^+ \rangle$	$\langle 6 \rangle^-$	$\langle 7 \rangle^-$	1	1	$\langle 4^+ \rangle$		$\langle 7^- \rangle$	
4460.3(4)	$\langle 7^- – 9^- \rangle$										46(9)
7538.2(22)	1	5(1)				3(1)	3(1)				

Energy levels and branching ratios [01Si26]. Part 4 **$^{130}_{52}$Te**

E^*	J^π	Branching ratios in percentage					
	E^*_f:	3081.38	3385.1	3545.2	3708.2	3791.4	4249.4
[keV]	J^π_f:						
3536.74(21)	$7^- – 9^-$	74(7)					
3565.26(20)	$\langle 7,8^+ \rangle$	30(4)					
3708.17(19)		50(5)					
3791.4(11)		x					
4073.5(5)		100					
4170.68(25)	$\langle 7–9 \rangle^-$	43(4)			9(2)		
4249.4(15)	$[13^-]$					x	
4303.7(3)	$\langle 7^- – 9^- \rangle$				37(7)		
4375.4(18)							x
4460.3(4)	$\langle 7^- – 9^- \rangle$		10(5)	44(9)			

Energy levels and branching ratios [03To08, 94Se10]. **$^{131}_{52}$Te**

E^*	$2J^\pi$	L	S_{dp}	σ (d,p)	S'	S_{dp}	σ (t,d)	S_n	I_γ	Ref.
[keV]				μb/sr	(d,p)		μb/sr	(t,d)	%	
0.0	3^+	2	0.25	1767(86)	1.0	0.25	3617	0.243		03To08
182.34(4)	11^-	5	0.15	163(4)	2.0	0.17	446	0.161		03To08
296.02(1)	1^+	0	0.13	219(6)	0.31	0.16	1584	0.161		
642.32(1)	5^+	2	0.002	32(2)			53	0.002		
776.88(12)										94Se10
802.28(4)	$\langle 9^- \rangle$			8(2)						03To08
854.40(2)	3^+	2	0.001	6.1(6)			16	0.002	0.66	03To08
880.39(4)	7^-	3	0.006	82(4)	0.02	0.005	182	0.007		03To08
943.41(5)	7^+	4		7.2(6)			28	0.006		94Se10
1041.73(8)	1^+	0	0.004	7.0(13)	0.01	0.005	50	0.007	0.30	03To08
1050.84(2)	3^+	$\langle 0 \rangle$	0.002	12.4(10)					0.14	03To08
1207.51(1)	5^+	2	0.027	371(4)	0.12	0.02	486	0.021	0.12	03To08
1267.55(1)	7^+	$\langle 4 \rangle$	0.016	29(2)			24			03To08
1398.91(7)	5^+	$\langle 2 \rangle$	0.002	13(2)						03To08
1400(5)	9^-,11^-						19	0.006		94Se10

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
1467.1(2)	⟨7,9⟩									94Se10
1469.79(11)	5^+	2	0.009	146(2)	0.02	0.005	155	0.007		03To08
1544.8(2)	⟨5,7⟩									94Se10
1601.40(17)	⟨3^+⟩	⟨2⟩	0.001	6.8(9)						94Se10
1659.49(7)	7^-	3	0.002	31.2(13)			71			03To08
1669.79(11)	$5,7^+$			4.7(9)						03To08
1678.30(8)	$1–5^+$									
1683.10(8)	$1–5^+$								1.26	
1721.63(7)	5^+	2	0.004	72(4)	0.02	0.004	75	0.003	0.39	03To08
1756.01(5)	⟨5^-⟩									
1781.22(6)	3^-	1	0.001	8.2(11)					0.04	03To08
1787.97(6)	7^-	3	0.010	139(4)	0.03	0.009	320	0.012		03To08
1841.9(5)	5^+	2	0.001	18(2)			23			03To08
1852.5(6)	9^+	4	0.003	10.6(13)						03To08
1854.4(3)										94Se10
1855.79(7)	$1^+,3$						43	0.009	0.38	
1867.07(14)	7^-	3	0.002	26.4(15)						03To08
1875.4(5)				3.2(9)						03To08
1916.6(5)				1.3(4)						03To08
1951.61(8)	$1^+,3$								0.36	
2015.46(4)	5^+	2	0.005	70(4)	0.01	0.003	110		0.54	03To08
2066.83(20)	$7^+,9^+$						15	0.002		
2092.02(4)	3^-	1	0.002	24.1(13)	0.01	0.003	85	0.005	0.37	03To08
2147.5(6)	3^+	2	0.002	17(2)						03To08
2180.1(4)	⟨5,7⟩									94Se10
2226.13(20)	⟨5–9⟩									94Se10
2231.08(6)	$1^+–5^+$								0.46	
2275.2(5)	7^-	3	0.31	5559(53)	3.51	0.5	11090	0.401		03To08
2330.2(2)	7^-	3	0.009	165(4)	0.03	0.007	337	0.012		03To08
2355.6(2)	5^-									
2373.9(4)	7^-	3	0.012	211(4)	0.04	0.01	480	0.017		03To08
2393.7(6)	⟨3^+⟩	⟨2⟩	0.001	7.8(15)						
2398.4(1)	⟨5,7⟩									94Se10
2457.2(1)	3^+	2		65.2(11)					0.37	03To08
2496.6(1)	5^+			11.8(15)						03To08
2503.6(6)				10(2)						03To08
2512.00(3)	3^-	1	0.036	424(6)	0.25	0.08			7.82	03To08
2544.3(1)	$5^-,7^+$									
2547.7(1)	3^-	1	0.002	38(2)					0.75	03To08
2552.0(2)	⟨5^+⟩									94Se10
2582.54(2)	3^-	1	0.17	1964(13)	0.87	0.22			32	03To08
2598.9(3)	$5^+–9^+$									94Se10
2662.2(2)	$5^+,7^+$									94Se10
2671.4(2)	1,3								0.15	

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
2706.32(7)	3^-	1	0.002	19(2)					1.0	03To08
2754.25(7)	3^-	1	0.004	49(2)	0.03	0.008			1.2	03To08
2780.2(5)	7^-	3	0.001	34(2)						03To08
2788.4(8)				15(2)						03To08
2828.8(5)	7^-	3	0.002	48(2)						03To08
2932.48(9)	1^-	1	0.003	21(1)					0.9	03To08
2980.7(6)	$\langle 3^+ \rangle$	$\langle 2 \rangle$	0.002	16(2)						03To08
3001.96(3)	1^-	1	0.13	739(11)	0.38	0.095			14.7	03To08
3028.3(6)		2	0.002	12(2)						03To08
3054.1(5)	7^-	3	0.002	49(2)						03To08
3073.2(5)	5^-	3	0.009	123(2)						03To08
3082.8(6)	7^-	3	0.001	24(1)						03To08
3097.0(6)	5^-	3	0.001	16(1)						03To08
3124(1)				1.9(6)						03To08
3142.3(5)	5^-	3	0.025	333(4)	0.23	0.03				03To08
3146.2(2)	1–5^+								0.2	
3170.8(2)	1–5^+								0.2	
3184.7(8)	5^-	3	0.030	436(4)	0.28	0.04				03To08
3186.7(2)	1^+–5^+								0.3	
3203.4(6)	9^-	5	0.023	35(2)						03To08
3209.2(6)	7^-	3	0.002	38(2)						03To08
3239.6(3)	9^-,7^+	5,4	0.007	10(1)						03To08
3262.5(6)	7^-	3	0.002	33(1)	0.18	0.02				03To08
3274.5(6)				7.3(6)						03To08
3291.3(7)	7^-,5^+	3,2	0.0003	6.6(4)						03To08
3301.9(9)	5^+,7^-	2,3	0.0001	4.0(5)						03To08
3311.6(8)	5^-	3	0.0002	3.9(5)						03To08
3322.4(6)	7^-	3	0.0005	13(1)						03To08
3333.6(7)		≥ 4	0.0003	3.4(6)						03To08
3354.0(5)	7^-	3	0.012	291(3)						03To08
3375.6(9)	11^-,9^+	5,4	0.0060	22(3)						03To08
3379.2(6)	$\langle 5^+ \rangle$	2	0.0022	69(3)						03To08
3404.1(5)	7^-	3	0.0050	117(3)						03To08
3417.2(6)	7^-	3	0.0090	218(3)						03To08
3425.5(5)	7^-	3	0.0012	29(2)						03To08
3437.8(5)	$\langle 5^- \rangle$	3	0.0003	4.1(8)						03To08
3443.0(6)	7^-	3	0.0004	9.4(9)						03To08
3458.8(6)	7^-	3	0.0030	92(3)						03To08
3469.2(5)	7^-	3	0.0090	129(3)						03To08
3473.5(8)				27(6)						03To08
3506.4(6)	5^-	3	0.0044	62(3)						03To08
3507.5(1)	1^-–5^+								0.3	
3510.7(8)	5^-	3	0.0014	19(3)						03To08
3518.1(5)	5^-	3	0.011	171(3)						03To08

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
3534.2(6)	7^-	3	0.0010	25(1)						03To08
3546.9(1)	3^-	1	0.0090	92(3)					1.0	03To08
3552.3(5)	7^+	4	0.030	312(4)						03To08
3568.27(5)	3^-	1	0.013	148(2)					1.8	03To08
3580.1(5)	7^-	3	0.0026	69(2)						03To08
3601.7(1)	3^-	1	0.012	125(2)	0.059				1.4	03To08
3623.72(7)	3^-	1	0.0090	87(2)	0.049				1.1	03To08
3630.6(9)	$\langle 5^- \rangle$	$\langle 3 \rangle$	0.0007	10(1)						03To08
3640.9(9)	7^-,5^+	3,2	0.0004	6.3(7)						03To08
3664.1(5)	7^-	3,2	0.016	415(5)	0.194					03To08
3668.3(1)	$\langle 1,3 \rangle$								0.6	
3668.7(6)	7^-,5^+	3,2	0.0033	76(6)						03To08
3672.3(9)	7^-,5^+	3,2	0.0040	108(4)						03To08
3689.79(7)	1^-	1	0.025	134(3)	0.111				2.0	03To08
3698.27(6)	3^-	1	0.0065	65(2)					0.5	03To08
3709.5(5)	7^-	3	0.025	650(6)	0.249					03To08
3728(1)				6(1)						03To08
3737.8(1)	$\langle 1,3 \rangle$								0.4	
3739.1(9)	7^-	3	0.0022	54(2)						03To08
3750.7(5)	3^-	1	0.0022	28(1)						03To08
3763.4(2)	3^-	1	0.0008	11(1)					0.4	03To08
3771.4(5)	7^-	3	0.0016	41(2)						03To08
3776.7(6)				15(3)						03To08
3803.2(8)	5^-	3	0.00045	7.0(7)						03To08
3820.4(11)	5^+,7^-	2,3	0.0006	21(1)						03To08
3825.5(13)	$\langle 1^- \rangle$	$\langle 1 \rangle$	0.0004	2.5(9)						03To08
3842.0(8)				2(1)						03To08
3847.4(6)		3	0.0010	24(1)						03To08
3857.8(2)	7^-	3	0.0006	14(1)						03To08
3871.1(11)				1.1(6)						
3877.4(6)				5.2(6)						03To08
3889.8(11)	$\langle 5^- \rangle$	$\langle 3 \rangle$	0.0003	4.3(7)						03To08
3895.9(10)	5^-	3	0.0004	6.2(8)						03To08
3904.9(6)	5^+	2	0.0040	139(3)						03To08
3920.2(9)		3,2	0.0008	13(5)						03To08
3922.6(11)	5^-,3^+	3,2	0.0020	37(4)						03To08
3934.6(5)	7^-	3	0.0030	85(7)						03To08
3938.59(7)	3^-	1	0.017	165(7)	0.081				0.8	03To08
3956.0(7)	5^+,7^-	2,3	0.0010	34(2)						03To08
3964.2(6)	3^+,5^-	2,3	0.010	213(3)						03To08
3978.7(10)				6(1)						03To08
3987.0(2)	3^-	1	0.019	77(3)	0.063				0.5	03To08
3991.4(6)	3^+	2	0.0025	55(4)						03To08
3996.4(8)				14(3)						03To08
3998.4(5)	$\langle 3^- \rangle$	$\langle 1 \rangle$	0.0008	9(1)						03To08

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
4005.8(5)	7^-	3	0.0036	109(2)						03To08
4018.2(2)	5^-	3	0.0053	97(3)						03To08
4023.6(6)	7^-,5^+	3,2	0.0012	33(3)						03To08
4028.4(1)	$\langle 3^- \rangle$								0.4	
4028.5(6)	5^-	3	0.013	229(4)	0.146					03To08
4036.63(5)	3^-	1	0.019	175(4)	incl				1.5	03To08
4041.9(6)	7^-,5^+	3,2	0.0012	41(3)						03To08
4053.7(6)	7^-,5^+	3,2	0.0006	19(2)						03To08
4061.2(2)	1^-	1	0.0030	14(2)					0.3	03To08
4070.40(6)	3^-	1	0.027	266(4)					1.7	03To08
4073.8(11)	$\langle 1^- \rangle$	$\langle 1 \rangle$	0.0038	19(5)						03To08
4093.4(7)	5^-	3	0.0066	119(3)						03To08
4109.00(8)	3^-	1	0.0065	55(4)					0.6	03To08
4115.3(10)				7(2)						03To08
4124.33(9)	3^-	1	0.0036	34(2)					0.3	03To08
4136.2(5)	5^-	3	0.0093	172(4)						03To08
4150.0(9)				7(1)						03To08
4157.4(5)	5^-	3	0.0068	128(3)						03To08
4163.2(8)	7^-	3	0.0007	21(3)						03To08
4168.7(6)	13^+	6	0.028	37(2)						03To08
4175.9(6)	11^-	5	0.018	72(3)						03To08
4186.8(6)	9^+	4	0.0032	77(3)						03To08
4191.8(7)	9^+	4	0.0020	36(3)						03To08
4196.2(12)	5^+	2	0.0008	44(2)						03To08
4205.1(6)	9^+	4	0.0060	116(3)						03To08
4211.7(5)	13^+	6	0.060	83(3)						03To08
4225.1(9)	7^+	4	0.0024	29(2)						03To08
4239.0(2)	1^-	1	0.016	82(3)					1.1	03To08
4246.0(5)	9^+	4	0.0020	36(2)						03To08
4253.59(6)	1^-	1	0.020	101(3)					0.9	03To08
4260.5(6)	7^-	3	0.0013	39(3)						03To08
4265.6(6)	5^-	3	0.0013	24(2)						03To08
4272.3(8)				14(2)						03To08
4278.6(2)	3^-	1	0.0050	48(3)					0.4	03To08
4285.80(6)	3^-	1	0.023	224(5)	0.124				1.4	03To08
4293.2(7)	3^+	2	0.0030	71(3)	0.059					03To08
4300.28(6)	3^-	1	0.010	96(3)					0.6	03To08
4309.6(6)	3^+	2	0.0007	15(2)						03To08
4324.59(7)	3^-	1	0.010	114(3)	0.053				0.6	03To08
4327	1			23(5)						03To08
4341.3(7)	7^-	3	0.0030	85(7)						03To08
4344.6(5)	$\langle 3^- \rangle$	$\langle 1 \rangle$	0.0075	76(7)						03To08
4354.6(5)				12(3)						03To08
4358.0(9)	3^+	2	0.0013	45(3)						03To08
4363.1(7)	7^-	3	0.0036	108(4)						03To08

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
4364.65(8)	3^-								0.4	
4373.1(9)	9^+	4	0.0005	11(1)						03To08
4379.7(7)	7^-	3	0.0005	14(4)						03To08
4383.5(8)	7^-	3	0.0007	24(4)						03To08
4389.3(11)	$\langle 7^- \rangle$	$\langle 3 \rangle$	0.0006	21(2)						03To08
4393.1(9)				14(4)						03To08
4403.7(7)	7^-	3	0.0003	9(1)						03To08
4412.1(5)	7^-	3	0.0011	34(2)						03To08
4425.1(1)	3^+	2	0.0025	51(2)					0.3	03To08
4436.8(3)	3^-	1	0.0070	61(2)	0.113				0.1	03To08
4445.8(2)	3^-	1	0.011	99(3)	incl				0.4	03To08
4453.8(4)	1^-	1	0.0080	35(2)					0.1	03To08
4461.2(7)	3^+	2	0.0019	39(2)						03To08
4472.1(6)	7^-	3	0.0026	71(3)					0.4	03To08
4472.6(1)	3^-									
4485.3(1)	3^-	1	0.0025	25(2)	0.091				0.2	03To08
4489.5(2)	$\langle 1,3 \rangle$								0.6	
4490.5(8)	7^+	4	0.0010	140(4)						03To08
4506.2(8)	5^+	2	0.0035	108(6)						03To08
4514.6(12)	$1^-,3^-$	1	0.0060	19(4)						03To08
4519.98(9)	$\langle 3 \rangle$								0.4	
4521.6(10)	3^+	2	0.010	186(15)						03To08
4531.4(1)	1^-	1	0.018	82(7)					0.3	03To08
4539.4(7)	5^-	3	0.0024	49(5)						03To08
4545.18(7)	1^-	1	0.080	302(9)	0.170				2.8	03To08
4558.45(6)	1^-	1	0.036	147(7)	0.131				1.3	03To08
4563.18(5)	3^-	1	0.018	145(8)					0.9	03To08
4570.8(10)	$\langle 3^- \rangle$	1	0.0047	36(4)						03To08
4583.1(1)	3^-	1	0.0066	54(4)					0.2	03To08
4587.1(11)	3^-	1	0.0025	14(3)						03To08
4597.9(9)	9^+	4	0.0004	8(2)						03To08
4610.6(7)				42(8)						03To08
4614.3(14)	$\langle 9^+ \rangle$	4	0.0035	66(8)	0.173					03To08
4620.1(9)	5^-	3	0.015	299(5)	incl					03To08
4628.9(10)	$1^-,3^-$	1	0.0050	28(4)						03To08
4645.36(6)	3^-	1	0.012	112(4)	0.104				0.7	03To08
4649.93(9)	3^-	1	0.0050	36(3)	incl				0.3	03To08
4654.5(6)	5^-	3	0.0015	29(3)						03To08
4659.2(6)	5^-	3	0.012	233(4)						03To08
4671.9(6)	5^-	3	0.0031	53(3)						03To08
4678.0(8)		2,3		33(4)						03To08
4682.5(6)	$13^+,15^-$	6,7	0.0080	16(3)						03To08
4694.4(6)	5^-	3	0.0065	122(3)						03To08
4706.5(2)	5^+	2	0.0030	91(3)					0.2	03To08
4716.7(4)	5^-	3	0.0022	45(2)						03To08

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
4723.4(6)	7^-	3	0.0020	58(3)						03To08
4727.3(6)	7^-	3	0.0013	38(3)						03To08
4732.7(2)	3^-	1	0.0065	55(3)					0.4	03To08
4738.2(6)	5^+	2	0.0009	27(2)						03To08
4743.7(8)	$\langle 5^- \rangle$	$\langle 3 \rangle$	0.0025	47(2)						03To08
4749.1(8)		$\langle 2,3 \rangle$		36(2)						03To08
4754(1)				12(2)						03To08
4756.0(6)				12(3)						03To08
4759.9(9)	5^-	3	0.0013	27(2)						03To08
4765.6(5)	7^-	3	0.0019	64(3)						03To08
4770.8(8)				29(3)						03To08
4775.2(10)				10(3)						03To08
4783.9(8)				8(1)						03To08
4789.8(7)	7^-	3	0.0004	9(1)						03To08
4801.2(1)	$\langle 3 \rangle$								0.2	
4801.6(8)	5^-	3	0.0020	42(2)						03To08
4808.8(7)	$\langle 7^- \rangle$	$\langle 3 \rangle$	0.0003	7(1)						03To08
4814.2(8)	$\langle 5^+ \rangle$	$\langle 2 \rangle$	0.0015	33(2)						03To08
4820.8(6)				25(2)						03To08
4826.5(6)	7^-	3	0.0025	73(3)						03To08
4842.9(6)	$5^-,3^+$	3,2	0.0050	106(4)						03To08
4847.2(6)	$\langle 3^- \rangle$	$\langle 1 \rangle$	0.0024	25(2)						03To08
4856.1(3)	$\langle 3^+ \rangle$	2	0.0024	50(2)					0.2	03To08
4863.5(7)	$1^-,3^+$	1,2	0.0065	24(2)						03To08
4869.7(1)	1^-	1	0.015	53(3)					0.2	03To08
4880.2(10)				15(2)						03To08
4888.5(6)				8(3)						03To08
4894.1(2)	3^-	1	0.0060	48(4)					0.2	03To08
4899.2(7)	$\langle 1^- \rangle$	$\langle 1 \rangle$	0.0045	18(3)						03To08
4904.8(9)				21(4)						03To08
4907.3(9)	$5^-,3^+$	3,2	0.0022	47(5)						03To08
4911.9(9)	$5^-,3^+$	3,2	0.0030	58(5)						03To08
4914.8(14)	7^-	3	0.0010	33(5)						03To08
4924.7(7)	3^+	2	0.0005	11(2)						03To08
4929.9(6)	5^-	3	0.0017	36(3)						03To08
4939.1(6)	5^-	3	0.0055	111(5)						03To08
4944.9(1)	3^-	1	0.0045	32(3)					0.3	03To08
4958.7(8)	1^-	1	0.0007	25(2)						03To08
4964.2(1)	3^-	1	0.0047	31(2)					0.2	03To08
4970.4(1)	3^-	1	0.0090	67(3)					0.4	03To08
4977.0(6)	$\langle 1^- \rangle$	$\langle 1 \rangle$	0.024	85(3)						03To08
4984.2(8)				9(2)						03To08
4989.0(5)	$\langle 1^- \rangle$	$\langle 1 \rangle$	0.014	52(2)						03To08
4997.2(6)				37(3)						03To08
5000.8(6)				23(3)						03To08

(continued) **$^{131}_{52}$Te**

E^* [keV]	$2J^\pi$	L	S_{dp}	σ (d,p) μb/sr	S' (d,p)	S_{dp}	σ (t,d) μb/sr	S_n (t,d)	I_γ %	Ref.
5008.6(6)		≥4		18(2)						03To08
5012.7(7)	5^-	3	0.0028	62(3)						03To08
5019.2(9)	13^+,15^-	6,7	0.0090	15(2)						03To08
5027.6(5)	13^+,15^-	6,7	0.013	24(2)						03To08
5034.5(6)	5^-	3	0.0030	68(3)						03To08
5040.5(10)				15(2)						03To08
5048.6(2)	⟨3⟩			37(2)					0.1	03To08
5056.4(6)	7^+	4	0.0021	33(2)						03To08
5062.4(6)	⟨5^-⟩	⟨3⟩	0.0025	53(2)						03To08
5074.6(13)				8(2)						03To08
5088.3(8)				29(1)						03To08
5096.1(5)				9(1)						03To08
5104.0(6)				82(3)						03To08
5116.2(6)				31(2)						03To08
5122.4(8)				39(2)						03To08
5129.0(8)				39(2)						03To08
5140.0(9)				4(8)						03To08
5148.0(7)				78(14)						03To08
5156.6(7)				56(9)						03To08
5161.4(6)				56(8)						03To08
5172.2(3)	⟨3⟩			91(20)					0.1	03To08
5177.1(10)				61(9)						03To08
5183.0(10)				56(8)						03To08
5191.3(14)				27(5)						03To08
5195.0(9)				64(7)						03To08
5203.2(11)				26(3)						03To08
5256(5)										94Se10
5285(5)										94Se10
5348(5)										94Se10
5409(5)										94Se10
5575(5)										94Se10
5631(5)										94Se10
5680(5)										94Se10
5754(5)										94Se10
5780(5)										94Se10
			03To08	03To08	67Gr21		81Sh02	81Sh02		Ref.

Additional data on this isotope can be found in [03To08, 01Vo0A, 98Zh09, 77St33, 67Gr21].
σ (d,p) was measured at 20°.
Branching ratios for γ-decay of level at 2330 keV and 2497 keV are very different in two independent works [03To08, 94Se10] (the more recent values are given here).
$T_{1/2}$=25.0 min and 30 hours are given in [94Se10] for the ground and first excited states.

Energy levels and branching ratios [03To08, 94Se10]. Part 2

$^{131}_{52}$Te

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	182	296	642	777	802	854	880	943
[keV]		$2J_f^\pi$:	3^+	11^-	1^+	5^+		$\langle 9^- \rangle$	3^+	7^-	7^+
182.34(4)	11^-		100								
296.02(1)	1^+		100								
642.32(1)	5^+		100								
776.88(12)						100					
802.28(4)	$\langle 9^- \rangle$			100							
854.40(2)	3^+		85.5		8.94	5.56					
880.39(4)	7^-			100							
943.41(5)	7^+		95			4.9(10)					
1041.73(8)	1^+		100								
1050.84(2)	3^+		40.9		28.2	30.9					
1207.51(1)	5^+		83.4		15.2				1.42		
1267.55(1)	7^+		34.2			50.0					15.8
1398.91(7)	5^+		46.8			45.6			1.90		5.70
1467.1(2)	$\langle 7,9 \rangle$			x		x					
1469.79(11)	5^+		88.6								11.4
1544.8(2)	$\langle 5,7 \rangle$		63(27)		37(16)						
1601.40(17)	$\langle 3^+ \rangle$						100				
1659.49(7)	7^-			24.2				61.5		14.3	
1669.79(11)	$5,7^+$								7.14	9.52	59.5
1678.30(8)	$1–5^+$		17.8		52.0				15.1		
1683.10(8)	$1–5^+$		43.3			32.4			18.3		
1721.63(7)	5^+		72.4			10.5					
1756.01(5)	$\langle 5^- \rangle$		16.2					21.6		62.2	
1781.22(6)	3^-		30.7		36.4				3.57	25.7	
1787.97(6)	7^-							23.5		76.5	
1852.5(6)	9^+							100			
1854.4(3)			100								
1855.79(7)	$1^+,3$		49.4			7.06			7.06		
1867.07(14)	7^-							31.6		68.4	
1875.4(5)						7.6(16)					86(4)
1951.61(8)	$1^+,3$		36.5			7.94			18.2		
2015.46(4)	5^+		34.2						8.72	18.8	
2066.83(20)	$7^+,9^+$										100
2092.02(4)	3^-		36.6		40.1					13.4	
2180.1(4)	$\langle 5,7 \rangle$		85(10)			15(4)					
2226.13(20)	$\langle 5–9 \rangle$										13(2)
2231.08(6)	$1^+–5^+$		49.5		3.23	22.6					
2330.2(2)	7^-							39.7		39.7	
2373.9(4)	7^-							75.0		25.0	
2398.4(1)	$\langle 5,7 \rangle$		30(3)			30(4)					13(6)
2457.2(1)	3^+		42.1		13.6				20.7		
2496.6(1)	5^+				27.7				24.1	8.43	
2512.00(3)	3^-		39.5		54.8						
2544.3(1)	$5^-,7^+$					10.1		19.0	31.6	24.0	
2547.7(1)	3^-		x		x	x					

(continued) **$^{131}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	182	296	642	777	802	854	880	943
[keV]		$2J_f^\pi$:	3^+	11^-	1^+	5^+		$\langle 9^- \rangle$	3^+	7^-	7^+
			0.48		0.14	0.18					
2552.0(2)	$\langle 5^+ \rangle$		13(3)		29(4)						58(12)
2582.54(2)	3^-		14.2		78.1	1.08				1.17	
2598.9(3)	5^+–9^+					28(13)	43(9)				
2662.2(2)	5^+,7^+		33(3)								
2671.4(2)	1,3		50.0						33.3		
2706.32(7)	3^-		14.3		64.3						
2754.25(7)	3^-		7.96							30.1	
2932.48(9)	1^-		19.3		13.6						
3001.96(3)	1^-		33.3		49.4				1.79		
3146.2(2)	1–5^+		45.4						54.6		
3170.8(2)	1–5^+		x								
			0.11								
3186.7(2)	1^+–5^+					14.6			14.6		
3507.5(1)	1^-–5^+		27.4						17.6		
3546.9(1)	3^-		38.0		5.56	2.78			3.70	16.7	
3568.27(5)	3^-		14.6		3.51	38.6			5.26	4.09	
3601.7(1)	3^-		22.2		26.2	19.0			7.14		
3623.72(7)	3^-		4.44		37.2				2.22	6.11	
3668.3(1)	$\langle 1,3 \rangle$		59.5		11.4	11.4					
3689.79(7)	1^-		70.8		8.72						
3698.27(6)	3^-		53.5		19.8	5.81					
3737.8(1)	$\langle 1,3 \rangle$				4.17	20.8					
3763.4(2)	3^-		60.0		40.0						
3938.59(7)	3^-		28.2		67.2					4.58	
3987.0(2)	3^-		35.7		42.9				21.4		
4028.4(1)	$\langle 3^- \rangle$		23.7		23.7				21.0		
4036.63(5)	3^-		8.53		55.8	5.43			7.75	17.8	
4061.2(2)	1^-		100								
4070.40(6)	3^-		7.75		55.6					8.45	
4109.00(8)	3^-		83.0		17.0						
4124.33(9)	3^-					100					
4239.0(2)	1^-		41.8		35.4						
4253.59(6)	1^-		30.9		38.2						
4278.6(2)	3^-		31.7		20.0	30.0					
4285.80(6)	3^-		3.51		73.7	5.26				5.26	
4300.28(6)	3^-		46.2			12.8					
4324.59(7)	3^-				41.1	19.6			10.7		
4364.65(8)	3^-		22.2		55.6					22.2	
4425.1(1)	3^+								100		
4436.8(3)	3^-		100								
4445.8(2)	3^-		37.5		62.5						
4453.8(4)	1^-		57.9		42.1						
4472.6(1)	3^-				66.7	8.33				25.0	
4485.3(1)	3^-				33.3						

(continued) **$^{131}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	0.0	182	296	642	777	802	854	880	943
[keV]		$2J_f^\pi$:	3^+	11^-	1^+	5^+		$\langle 9^- \rangle$	3^+	7^-	7^+
4489.5(2)	$\langle 1,3 \rangle$		11.1		48.2						
4519.98(9)	$\langle 3 \rangle$		21.3		29.5						
4531.4(1)	1^-		100								
4545.18(7)	1^-		59.0		26.4				6.90		
4558.45(6)	1^-		82.0								
4563.18(5)	3^-		22.7		54.7	8.00				9.33	
4583.1(1)	3^-		13.3		60.0						
4645.36(6)	3^-		55.6		33.3				3.17		
4649.93(9)	3^-		57.1		42.9						
4706.5(2)	5^+					18.5					
4732.7(2)	3^-		40.0			20.0					
4856.1(3)	$\langle 3^+ \rangle$				54.6	45.4					
4869.7(1)	1^-		83.3		16.7						
4894.1(2)	3^-				100						
4944.9(1)	3^-				61.5						
4964.2(1)	3^-				100						
4970.4(1)	3^-				70.6	29.4					
5048.6(2)	$\langle 3 \rangle$		100								
5172.2(3)	$\langle 3 \rangle$		58.3		41.7						

Energy levels and branching ratios [03To08, 94Se10]. Part 3 **$^{131}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1042	1051.1	1207.4	1267.5	1398	1470	1601	1660	1683
[keV]		$2J_f^\pi$:	1^+	3^+	$\langle 5 \rangle^+$	$\langle 5 \rangle^+$	5^+	$\langle 5 \rangle^+$		7^-	$\langle 1,3 \rangle$
1669.79(11)	$5,7^+$			23.8							
1678.30(8)	$1–5^+$		15.1								
1683.10(8)	$1–5^+$			5.99							
1721.63(7)	5^+				17.1						
1781.22(6)	3^-		3.57								
1855.79(7)	$1^+,3$		4.71	25.9			5.88				
1875.4(5)					6.3(11)						
1951.61(8)	$1^+,3$		4.76	10.3	16.7						
2015.46(4)	5^+				8.05		2.68	2.68		19.5	4.03
2092.02(4)	3^-			3.49							
2226.13(20)	$\langle 5–9 \rangle$					15(5)			61(11)		
2231.08(6)	$1^+–5^+$		7.53	10.8	6.45						
2330.2(2)	7^-									20.7	
2398.4(1)	$\langle 5,7 \rangle$				27(2)						
2457.2(1)	3^+		7.14	12.9	3.57						
2496.6(1)	5^+					10.8				19.3	
2512.00(3)	3^-		1.34	0.36	0.73					0.61	1.09

(continued) **$^{131}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1042	1051.1	1207.4	1267.5	1398	1470	1601	1660	1683
[keV]		$2J_f^\pi$:	1^+	3^+	$\langle 5\rangle^+$	$\langle 5\rangle^+$	5^+	$\langle 5\rangle^+$		7^-	$\langle 1,3\rangle$
2544.3(1)	5^-,7^+					15.2					
2547.7(1)	3^-		x	x							
			0.06	0.14							
2582.54(2)	3^-		0.41	1.75	0.12		0.87	0.67			
2598.9(3)	5^+–9^+					29(3)					
2662.2(2)	5^+,7^+							30(2)			
2671.4(2)	1,3		16.7								
2706.32(7)	3^-		12.9								
2754.25(7)	3^-			7.96							10.6
2932.48(9)	1^-		17.0								
3001.96(3)	1^-		0.96	10.3							
3186.7(2)	1^+–5^+		41.7								
3546.9(1)	3^-		13.0	20.4							
3568.27(5)	3^-				14.6			5.85			
3601.7(1)	3^-			14.3							
3623.72(7)	3^-		7.22								
3668.3(1)	$\langle 1,3\rangle$			11.4			6.33				
3689.79(7)	1^-		3.59								
3698.27(6)	3^-			11.6							
3737.8(1)	$\langle 1,3\rangle$			4.17	25.0						
4036.63(5)	3^-				4.65						
4070.40(6)	3^-		1.41	2.82	9.15			4.23			
4239.0(2)	1^-										11.4
4253.59(6)	1^-		8.18	5.45							
4285.80(6)	3^-			5.26							
4300.28(6)	3^-		15.4	10.3				15.4			
4324.59(7)	3^-		19.6	8.93							
4489.5(2)	$\langle 1,3\rangle$		18.5	11.1							
4519.98(9)	$\langle 3\rangle$		24.6	18.0	6.56						
4563.18(5)	3^-			5.33							
4583.1(1)	3^-			26.7							
4645.36(6)	3^-							7.94			
4706.5(2)	5^+				11.1						
4732.7(2)	3^-				40.0						
4801.2(1)	$\langle 3\rangle$		100								
4944.9(1)	3^-				38.5						

Energy levels and branching ratios [03To08, 94Se10]. Part 4 **$^{131}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage								
		E_f^*:	1722.0	1756	1781	1788	1876.4	1952	2015	2066.8	2092
[keV]		$2J_f^\pi$:	$\langle 5\rangle^+$	5^-	3^-	7^-		1^+,2	5^+	$\langle 7^+,9^+\rangle$	3^-
1951.61(8)	1^+,3		5.56								
2015.46(4)	5^+					1.34					
2092.02(4)	3^-			2.91	3.49						
2226.13(20)	$\langle 5$–$9\rangle$				12(3)			12(3)		12(3)	
2496.6(1)	5^+					9.64					
2512.00(3)	3^-			0.61					0.49		0.49
2547.7(1)	3^-			x							
				0.19							
2582.54(2)	3^-		0.23						0.96		0.50
2662.2(2)	5^+,7^+					37(1)			37(1)		
2706.32(7)	3^-			8.57							
2754.25(7)	3^-			4.42					27.4		11.5
2932.48(9)	1^-				34.1						
3186.7(2)	1^+–5^+				14.6				14.6		
3507.5(1)	1^-–5^+			54.9							
3568.27(5)	3^-										2.92
3623.72(7)	3^-								11.1		3.33
3689.79(7)	1^-							4.10			
4070.40(6)	3^-		10.6								
4253.59(6)	1^-				7.27						10.0
4485.3(1)	3^-				33.3						
4706.5(2)	5^+				18.5						

Energy levels and branching ratios [03To08, 94Se10]. Part 5 **$^{131}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage										
		E_f^*:	2330	2336	2457	2497	2512	2547	2583	2706	2754	3002	3547
[keV]		$2J_f^\pi$:	7^-	5^-	3^+	5^+	3^-	3^-	3^-	3^-	3^-	1^-	3^-
2932.48(9)	1^-				15.9								
3001.96(3)	1^-						1.03		3.17				
3568.27(5)	3^-					5.26				5.26			
3601.7(1)	3^-								11.1				
3623.72(7)	3^-		10.0							10.6	7.78		
3689.79(7)	1^-		12.8										
3698.27(6)	3^-				9.30								
3737.8(1)	$\langle 1,3\rangle$						45.8						
4028.4(1)	$\langle 3^-\rangle$						31.6						
4239.0(2)	1^-										11.4		
4278.6(2)	3^-										18.3		
4285.80(6)	3^-							7.02					
4485.3(1)	3^-											33.3	
4489.5(2)	$\langle 1,3\rangle$											11.1	

(continued) **$^{131}_{52}$Te**

E^*	$2J^\pi$	Branching ratios in percentage										
	E_f^*:	2330	2336	2457	2497	2512	2547	2583	2706	2754	3002	3547
[keV]	$2J_f^\pi$:	7^-	5^-	3^+	5^+	3^-	3^-	3^-	3^-	3^-	1^-	3^-
4545.18(7)	1^-										7.66	
4558.45(6)	1^-										18.0	
4706.5(2)	5^+											51.8

Energy levels and branching ratios [92Se04]. **$^{132}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Ref.	Branching ratios in percentage						
				E_f^*:	0.0	973.9	1670.7	1774.1	1924.7	2053.0	2107.5
[keV]		Γ_{cm}		J_f^π:	0^+	2^+	4^+	6^+	$\langle 7\rangle^-$	$\langle 5\rangle^-$	$\langle 3,4\rangle$
0.0	0^+	3.20(1) d									
974.34(10)	2^+		05Hu08		100						
1665.30(14)	$\langle 2^+\rangle$		05Hu08								
1671.34(14)	4^+		05Hu08			100					
1774.69(16)	6^+	145(8) ns	05Hu08				100				
1787.6(2)	$\langle 2^+\rangle$		05Hu08								
1925.23(17)	$\langle 7\rangle^-$	28(2) μs	05Hu08					100			
2053.88(16)	$\langle 5\rangle^-$		05Hu08				100				
2108.05(18)	$\langle 3,4\rangle$					67(7)	33(3)				
2191.93(22)			05Hu08								
2248.9(2)	$\langle 2^+\rangle$		05Hu08								
2263.7(2)	$\langle 2^+\rangle$		05Hu08								
2280.61(22)	$\langle 3^-\rangle$				25(5)	25(5)	50(10)				
2410.6(2)			05Hu08					100			
2422.3(2)			05Hu08						65(6)	35(7)	
2487.9(2)	$\langle 3,4\rangle$		05Hu08			15(2)	85(8)				
2517.4(2)			05Hu08								
2553.2(2)			05Hu08								
2576.9(3)			05Hu08								
2601.8(3)			05Hu08								
2608.2(2)			05Hu08								
2665.2(3)			05Hu08								
2700.4	$\langle 8^+\rangle$							50(12)	50(12)		
2700.4+X	$\langle 10^+\rangle$	3.9(3) μs									
2763.6(3)	$\langle 3,4^+\rangle$		05Hu08								
2764.37(15)	$\langle 4,5\rangle$		05Hu08					83(8)			
2815.6(3)								100			
2854.5(3)			05Hu08								
2867.21(23)	$\langle 4^+\rangle$					6(1)	22(2)	36(4)		36(4)	
2884.8(3)			05Hu08				100				
2917.9(4)			05Hu08								
2967.4(2)			05Hu08								
2971.5(3)			05Hu08								

(continued) **$^{132}_{52}$Te**

E^* [keV]	J^π	$T_{1/2}$ or Γ_{cm}	Ref.	Branching ratios in percentage							
				E_f^*:	0.0	973.9	1670.7	1774.1	1924.7	2053.0	2107.5
				J_f^π:	0^+	2^+	4^+	6^+	$\langle 7\rangle^-$	$\langle 5\rangle^-$	$\langle 3,4\rangle$
3015.1(3)			05Hu08								
3091.7(2)			05Hu08						71(14)		
3210.4(4)			05Hu08								
3211.1(3)	$\langle 4,5\rangle$		05Hu08				17(3)	33(7)			
3234.8(3)			05Hu08								
3241.1(5)			05Hu08								
3254.8(4)			05Hu08								
3261.0(3)			05Hu08								
3303.9(3)			05Hu08						40(10)		
3335.5(3)			05Hu08								
3350.5(3)			05Hu08					65(10)			
3429.4(3)			05Hu08								
3478.1(3)			05Hu08								
3488.3(4)			05Hu08								
3519.1(3)			05Hu08								
3525.1(4)			05Hu08								
3562.5(3)	$\langle 4^+\rangle$		05Hu08			16(3)	11(2)	36(4)			6(2)
3593.1(3)			05Hu08								
3629.4(3)			05Hu08								
3660.3(3)			05Hu08								
3693.7(4)			05Hu08								
3710.3(4)			05Hu08								
3722.3(5)			05Hu08								
3821.1(4)			05Hu08								
3858.1(2)			05Hu08								
3887.1(2)			05Hu08								
3891.6(3)			05Hu08								
3942.1(3)			05Hu08								
3994.8(4)			05Hu08								
4001.6(4)			05Hu08								
4002.1(3)			05Hu08								
4054.9(4)			05Hu08								
4055.4(3)			05Hu08								
4076.8(3)			05Hu08								
4127.0(3)			05Hu08								
4173.8(5)			05Hu08								
4260.9(5)			05Hu08								
4262.5(5)			05Hu08								
4305.3(3)			05Hu08								
4325.2(3)			05Hu08								
4375.1(4)			05Hu08								
4382.2(4)			05Hu08								
4415.3(4)			05Hu08								
4433.5(8)			05Hu08								
4439.6(7)			05Hu08								

(continued) **$^{132}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Ref.	Branching ratios in percentage							
				E_f^*:	0.0	973.9	1670.7	1774.1	1924.7	2053.0	2107.5
[keV]		Γ_{cm}		J_f^π:	0^+	2^+	4^+	6^+	$\langle 7\rangle^-$	$\langle 5\rangle^-$	$\langle 3,4\rangle$
4442.6(5)			05Hu08								
4443.5(6)			05Hu08								
4467.7(1)			05Hu08								
4468.8(3)			05Hu08								
4488.7(5)			05Hu08								
4490.3(5)			05Hu08								
4513.8(4)			05Hu08								
4533.0(6)			05Hu08								
4534.8(7)			05Hu08								
4584(2)			05Hu08								
4585.2(5)			05Hu08								
4588.5(8)			05Hu08								
4604.6(12)			05Hu08								
4607.3(8)			05Hu08								
4654.1(6)			05Hu08								
4674(2)			05Hu08								
4685.9(5)			05Hu08								
4714.2(4)			05Hu08								
4748.9(9)			05Hu08								
4890(2)			05Hu08								

Additional data on this isotope can be found in [03Ba01, 02Ra21, 01Ge07, 99Da03, 97Sm09, 90Be50].

Data for this isotope are considered in vol. LB I/18B.

Energy levels and branching ratios [92Se04]. Part 2 **$^{132}_{52}$Te**

E^*	J^π		Branching ratios in percentage					
		E_f^*:	2280.6	2409.73	2421.42	2763.58	2815.6	3210.69
[keV]		J_f^π:	$\langle 3^-\rangle$			$\langle 4,5\rangle$		$\langle 4,5\rangle$
2764.37(15)	$\langle 4,5\rangle$			17(2)				
3091.7(2)							29(7)	
3211.1(3)	$\langle 4,5\rangle$		17(3)			33(7)		
3303.9(3)					60(12)			
3350.5(3)								35(10)
3562.5(3)	$\langle 4^+\rangle$			31(3)				

Energy levels and branching ratios [95Ra12]. **$^{133}_{52}$Te**

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	Ref.	E_f^*: $2J_f^\pi$:	Branching ratios in percentage 0.0 $\langle 3^+ \rangle$	308.2 $\langle 1^+ \rangle$	334.3 $\langle 11^- \rangle$	1096.2 $\langle 7^+,5^- \rangle$	1265.3
0.0	$\langle 3^+ \rangle$	12.5(3) m							
308.242(11)	$\langle 1^+ \rangle$				100				
334.26(4)	$\langle 11^- \rangle$	55.4(4) m			100				
1096.22(3)	$\langle 7^+,5^- \rangle$				100				
1265.33(2)					100				
1421.33(7)					14(4)	86(4)			
1484.9	$\langle 15^- \rangle$		03Ha49						
1500.56(6)								100	
1552.14(2)					100				
1610.4	$\langle 19^- \rangle$		03Ha49						
1639.50(4)							100		
1641.52(3)					100				
1705.51(9)					100				
1728.66(4)					68(5)			32(2)	
1803.9	$\langle 17^- \rangle$		03Ha49						
1913.46(7)							7.9(14)	90(8)	
1976.46(8)					100				
2023.90(4)								82(16)	
2211.47(4)							24(2)	74(4)	
2331.5	$\langle 21^- \rangle$		03Ha49						
2332.14(4)								66(7)	
2750.32(4)	$\langle 9^+ \rangle$						33(7)	6.2(5)	
2755.51(4)	$\langle 5^+ \rangle$				45(6)	4.7(5)		8.1(5)	9.4(6)
3070.1	$\langle 23^- \rangle$		03Ha49						
3522.5	$\langle 23^- \rangle$		03Ha49						
3625.4			02Hw03						
3833.4			02Hw03						
3934.5	$\langle 21^+ \rangle$		03Ha49						
4003.5	$\langle 25^+ \rangle$		03Ha49						
4032.9	$\langle 23^+ 0 \rangle$		03Ha49						
4313.1	$\langle 27^+ \rangle$		03Ha49						
5214.7	$\langle 23^- \rangle$		03Ha49						
5501.5	$\langle 25^- \rangle$		03Ha49						
5600.8			03Ha49						
5687.6	$\langle 27^- \rangle$		03Ha49						
5941.5	$\langle 29^- \rangle$		03Ha49						
6163.5	$\langle 31^- \rangle$		03Ha49						
			Ref.						

Additional data on this isotope can be found in [03Ha49, 02Hw03, 01Bh06].
Nucleon configurations of different bands are shown in [03Ha49].

Energy levels and branching ratios [95Ra12]. Part 2 **$^{133}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage						
		E^*_f:	1500.6	1639.5	1728.7	1913.5	2023.9	2211.5	2332.1
[keV]		$2J^\pi_f$:							
1913.46(7)			1.9(5)						
2023.90(4)			18(6)						
2211.47(4)				2.7(7)					
2332.14(4)							34(4)		
2750.32(4)	$\langle 9^+ \rangle$		3.4(7)	6.9(3)		43(2)		7(1)	
2755.51(4)	$\langle 5^+ \rangle$				20(1)				12.8(6)

Energy levels and branching ratios [94Se07, 81Se18]. **$^{134}_{52}$Te**

E^*	J^π	$T_{1/2}$ or	Branching ratios in percentage					
			E^*_f:	0.0	1279	1576	1691	2397
[keV]		Γ_{cm}	J^π_f:	0^+	2^+	4^+	6^+	$\langle 6^+ \rangle$
0.0	0^+	41.8(8) m						
1279.04(10)	2^+	<0.17 ns		100				
1576.04(14)	4^+	1.28(10) ns			100			
1691.25(17)	6^+	164(1) ns				100		
2397.6(2)*	$\langle 6^+ \rangle$					0.7	99	
2464.4(2)*	$\langle 2^+ \rangle$	<1 ns		83(6)	17(6)			
2554.5*	4^+							
2631.29(16)*	$\langle 1^+ \rangle$	<1 ns		48(3)	46(2)			
2726.9*	$\langle 5^+ \rangle$					64		36
2933.63(22)	$\langle 2^+ \rangle$	<1 ns		5(2)	95(8)			
4013.3**	$\langle 9^- \rangle$	0.703(26) ns					x	x
4269.7**	4–6							
4298.8**	$\langle 7^- \rangle$							100
4323.2**	$\langle 5^- \rangle$							
4402.5**	$\langle 5^+ \rangle$							
4458.2**								
4501.2**								
4504.1**								
4557.5**	$\langle 6^- \rangle$						100	
4562.6**	$\langle 8^- \rangle$							
5080	$\langle 9^+ \rangle$							
5622	$\langle 10^+ \rangle$							
5804	$\langle 12^+ \rangle$							
6009	$\langle 13^+ \rangle$							

(continued) **$^{134}_{52}$Te**

E^*	J^π	$T_{1/2}$ or		Branching ratios in percentage				
			E_f^*:	0.0	1279	1576	1691	2397
[keV]		Γ_{cm}	J_f^π:	0^+	2^+	4^+	6^+	$\langle 6^+\rangle$
7049	$\langle 14^+\rangle$							
7564	$\langle 15^+\rangle$							

Additional data on this isotope can be found in [03Ba01, 02Sa02, 02Ra21, 01Er09, 97An10, 97Da15, 97Zh14, 96Zh21, 95Om01, 90Fo03].

* These levels are suggested to form positive-parity multiplet with $1g_{7/2}2d_{5/2}$ configuration [95Om01].

** These levels are suggested to form negative-parity multiplet with $1g_{7/2}1h_{11/2}$ configuration.

Energy levels and branching ratios [94Se07, 81Se18]. Part 2 **$^{134}_{52}$Te**

E^*	J^π				Branching ratios in percentage					
		E_f^*:	2464.38	4013.4	4557	5080	5622	5804	6009	7049
[keV]		J_f^π:	$\langle 2^+\rangle$	$\langle 9^-\rangle$	$\langle 8^+\rangle$	$\langle 9^+\rangle$	$\langle 10^+\rangle$	$\langle 12^+\rangle$	$\langle 13^+\rangle$	$\langle 14^+\rangle$
2631.29(16)*	$\langle 1^+\rangle$		6.0(10)							
4562.6**	$\langle 8^-\rangle$			100						
5080	$\langle 9^+\rangle$				100					
5622	$\langle 10^+\rangle$			x	x	x				
5804	$\langle 12^+\rangle$						100			
6009	$\langle 13^+\rangle$							100		
7049	$\langle 14^+\rangle$								100	
7564	$\langle 15^+\rangle$									100

Energy levels and branching ratios [98Se07]. **$^{135}_{52}$Te**

E^*	$2J^\pi$	$T_{1/2}$ or	Ref.		Branching ratios in percentage				
				E_f^*:	0.0	658.65	1083.3	1127.06	1179.88
[keV]		Γ_{cm}		$2J_f^\pi$:	$\langle 7^-\rangle$	$\langle 3^-\rangle$	$\langle 1^-\rangle$	$\langle 5^-\rangle$	$\langle 11^-\rangle$
0.0	7^-	19.0(2) s	02Ha46						
658.65(10)	$\langle 3^-\rangle$				100				
1083.3(4)	$\langle 1^-\rangle$					100			
1127.06(8)	$\langle 5^-\rangle$				99(5)	1.3(6)			
1179.88(9)	$\langle 11^-\rangle$	≤0.3 ns	01Lu16		100				
1246.18(10)	$\langle 9^-\rangle$				100				
1380.14(9)					98(4)				≈2.3
1442.22(10)					98(3)			1.0(5)	
1504.88(14)	$\langle 15^-\rangle$	≤0.6 ns	01Lu16						100
1554.88(17)	$\langle 19^-\rangle$	0.51(2) μs	01Lu16						
1653.97(8)	$\langle 5^-\rangle$				54(2)		1.1	43(2)	

(continued) **$^{135}_{52}$Te**

E^* [keV]	$2J^\pi$	$T_{1/2}$ or Γ_{cm}	Ref.	E_f^*: $2J_f^\pi$:	0.0 $\langle 7^- \rangle$	Branching ratios in percentage 658.65 $\langle 3^- \rangle$	1083.3 $\langle 1^- \rangle$	1127.06 $\langle 5^- \rangle$	1179.88 $\langle 11^- \rangle$
1702.34(23)					42(6)				28
1837.19(10)	$\langle 3^-,5^- \rangle$				96(5)		3.6(20)		
2016.5	$\langle 17^- \rangle$		01Lu16						
2017.88(15)					49(3)	32(3)		19(9)	
2109	$[13^+]$		05Ra32						
2193.80(13)					8(4)			92(5)	
2208.6	$\langle 19^- \rangle$								
2339.07(22)								100	
2370.56(11)					33(3)				16(6)
2376.6(5)						100			
2448.76(14)									100
2569.43(20)					100				
2602.3(10)						100			
2640.3	$\langle 21^- \rangle$		02Ha46						
3122.05(12)					34(2)				55
3233.7	$\langle 25^+ \rangle$		01Lu16						
3471.0	$\langle 21^+ \rangle$		01Lu16						
4023.4	$\langle 19^- \rangle$		01Lu16						
4342.5			02Ha46						
4393.6	$\langle 21^- \rangle$		01Lu16						
4591.1	$\langle 27^+ \rangle$		01Lu16						
4799.0	$\langle 23^- \rangle$		02Ha46						
5170.7	$\langle 25^- \rangle$		01Lu16						
5240	$\langle 9^+ \rangle$								
5525.3	$\langle 27^- \rangle$		01Lu16						
5630	$\langle 9^+ \rangle$								
5641.7	$\langle 31^- \rangle$		02Ha46						
5790.5	$\langle 29^- \rangle$		01Lu16						
5810	$\langle 7^+ \rangle$								
6109.8	$\langle 31^- \rangle$		02Ha46						
6151.9			02Ha46						
6170	$\langle 7^+ \rangle$								
6240	$\langle 7^+ \rangle$								
6330	$\langle 5^+ \rangle$								
6383.0	$\langle 33^- \rangle$		01Lu16						
6400	$\langle 7^+ \rangle$								
6455.2	$\langle 33^- \rangle$		01Lu16						
6669.6	$\langle 35^- \rangle$		01Lu16						
			Ref.						

Additional data on this isotope can be found in [03Ha49, 02Sa02, 02Ra46, 02LuZW, 01Lu16, 01Fo02, 97Bh06].

Nucleon configurations of different bands are shown in [03Ha49].

Energy levels and branching ratios [98Se07]. Part 2 **$^{135}_{52}$Te**

E^*	$2J^\pi$		Branching ratios in percentage					
		E^*_f:	1246.18	1380.14	1504.88	1554.88	1653.97	3234
[keV]		$2J^\pi_f$:	$\langle 9^- \rangle$		$\langle 15^- \rangle$	$\langle 19^- \rangle$	$\langle 5^- \rangle$	$\langle 25^+ \rangle$
1442.22(10)			≈1.5					
1554.88(17)	$\langle 19^- \rangle$				100			
1653.97(8)	$\langle 5^- \rangle$		1.8(6)					
1702.34(23)			30(13)					
2370.56(11)			18	25(2)			8(4)	
2640.3	$\langle 21^- \rangle$					x		
3122.05(12)				11(2)				
3233.7	$\langle 25^+ \rangle$					x		
4591.1	$\langle 27^+ \rangle$							x
5641.7	$\langle 31^- \rangle$							x

Energy levels and branching ratios [02So05]. **$^{136}_{52}$Te**

E^*	J^π	$T_{1/2}$ or
[keV]		Γ_{cm}
0.0	0^+	17.63(8) s
606.64(5)	2^+	
1030.0(10)	4^+	
1382.6(15)	6^+	
1568.36(7)	$\langle 2^+ \rangle$	
1904.62(20)	$\langle 0,1,2 \rangle$	
2033.27(10)	$\langle 0,1,2 \rangle$	
2044.02(12)	$\langle 0,1,2 \rangle$	
2060.82(20)	$\langle 0,1,2 \rangle$	
2132.1(18)	8^+	
2211.57(12)	$\langle 0,1,2 \rangle$	
2573.15(9)	$\langle 0,1,2 \rangle$	
2633.05(21)	$\langle 0,1,2 \rangle$	
2792.3(20)	10^+	
2801.1(3)	$\langle 0,1,2 \rangle$	
2821.0(10)	$\langle 0,1,2 \rangle$	
3187.1(23)	12^+	
3340.1(20)	$\langle 9^-,10^+ \rangle$	
3583.3(4)	$\langle 0,1,2 \rangle$	
3714.5(4)	$\langle 0,1,2 \rangle$	
3720.5(25)	14^+	
4794(3)	$\langle 15 \rangle$	
5160(3)	$\langle 16,17^- \rangle$	

Additional data on this isotope can be found in [02Ra21, 98No13, 97Sm09, 97Ho15, 93Ci01, 93Bu12].

Energy levels and branching ratios [02So05]. Part 2

$^{136}_{52}$Te

E^*	J^π	Branching ratios in percentage										
	E_f^*:	0.0	606.64	1030.0	1382.6	1568.36	2044.02	2132.1	2792.3	3187.1	3720.5	4794
[keV]	J_f^π:	0^+	2^+	4^+	6^+	$\langle 2^+ \rangle$	$\langle 0,1,2 \rangle$	8^+	10^+	12^+	14^+	$\langle 15 \rangle$
606.64(5)	2^+	100										
1030.0(10)	4^+		100									
1382.6(15)	6^+			100								
1568.36(7)	$\langle 2^+ \rangle$		100									
1904.62(20)	$\langle 0,1,2 \rangle$	42(5)	58(14)									
2033.27(10)	$\langle 0,1,2 \rangle$	62(4)	27(4)			11(2)						
2044.02(12)	$\langle 0,1,2 \rangle$		100									
2060.82(20)	$\langle 0,1,2 \rangle$	100										
2132.1(18)	8^+				100							
2211.57(12)	$\langle 0,1,2 \rangle$		100									
2573.15(9)	$\langle 0,1,2 \rangle$					100						
2633.05(21)	$\langle 0,1,2 \rangle$		100									
2792.3(20)	10^+							100				
2801.1(3)	$\langle 0,1,2 \rangle$		100									
2821.0(10)	$\langle 0,1,2 \rangle$						100					
3187.1(23)	12^+								100			
3340.1(20)	$\langle 9^-,10^+ \rangle$							100				
3583.3(4)	$\langle 0,1,2 \rangle$		100									
3714.5(4)	$\langle 0,1,2 \rangle$		100									
3720.5(25)	14^+									100		
4794(3)	$\langle 15 \rangle$										100	
5160(3)	$\langle 16,17^- \rangle$										x	x