^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 152, 331 (2018)	1-Apr-2018

2005Bh06: E(^{11}B)=52 MeV. Measured Eγ, Iγ, $\gamma\gamma$ coincidences, $\gamma\gamma(\theta)$, $\gamma\gamma$(IPDCO) using eight Compton-suppressed Clover HPGe detectors.
2005Zh16: E(^{11}B)=60 MeV. Measured Eγ, Iγ, $\gamma\gamma$ coincidences, $\gamma\gamma(\theta)$ and excitation function using 14 Compton-suppressed HPGe detectors.

^{136}La Levels

The level schemes proposed by 2005Bh06 and 2005Zh16 are in overall agreement. The main difference is in the placement of a 408γ in the proposed $\pi h_{11/2}\otimes\nu h_{11/2}$, 9^+ band. 2005Bh06 placement is as a cross-over, $\Delta J=2$ transition related to the 148.6γ-258.5γ cascade whereas 2005Zh16 placement is as a $\Delta J=0$ interband transition in cascade with the 258.5γ. The evaluator adopts the placement of 2005Bh06, as it was confirmed in the ^{124}Sn(^{17}N,5n) reaction. This difference results in all higher-lying 9^+ band members and side-bands built upon the 9^+ band being shifted upward 148-keV in excitation energy in 2005Zh16, relative to 2005Bh06. Additional differences between 2005Bh06 and 2005Zh16 are indicated in the comments.

E(level)[†]	J$^\pi$[‡]	Comments
0.0[c]	1^+	
21.80[c] *20*	$(2)^+$	
44.3 *3*	$(3)^+$	
171.8[c] *3*	$(3)^+$	
211.40 *20*	(2)	
259.3? *4*	(7^-)	E(level): Energy of isomer was tentatively fixed in 2005Bh06 on the basis of a very weak 87.5 transition.
270.3 *4*	3^-	
341.8[b] *4*	(8^-)	
539.8 *4*	(8^-)	
562.8[#] *3*	(3)	
800.6 *5*	9^-	J$^\pi$: From figure 8 of 2005Bh06; 10^- listed in authors′ table 1 seems a misprint.
983.3[#] *3*	(4)	
1023.8[b] *5*	(10^-)	
1125.1[@] *5*	(9^+)	
1281.3[@] *5*	(10^+)	
1521.9 *5*	(10^-)	
1687.6[@] *5*	(11^+)	
1728.5[#] *3*	(5)	
1875.3 *5*	(10^+)	
2112.8[@] *5*	(12^+)	
2113.8[b] *5*	(12^-)	
2371.4[@] *5*	(13^+)	
2372.5 *5*	(13^-)	
2465.6? *5*	(13^+)	
2520.7[@] *5*	(14^+)	E(level): in ^{124}Sn(^{17}N,5nγ), this level is identified as isomeric and the structure is proposed to change (see dataset).
2548.6 *6*	(14^-)	
2579.9[&] *5*	(12^-)	
2614.0[b] *5*	(13^-)	
2767.8[#] *4*	(6)	
2790.4[&] *5*	13^-	J$^\pi$: From figure 8 of 2005Bh06; 3^- listed in authors′ table 1 is a misprint.

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^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16 (continued)

^{136}La Levels (continued)

E(level)[†]	Jπ[‡]	Comments
2810.6 *7*	(12,13,14)	
2891.9[#] *4*	(7)	
2920.8 *6*		
2970.5[b] *6*	(14$^-$)	
2990.2[#] *5*	(8)	
3070.2[&] *5*	(14$^-$)	E(level): ordering of the 279.8γ-335.3γ cascade is reversed in 2005Bh06 and 2005Zh16; evaluator adopts the ordering from the latter. Ordering given by 2005Bh06 would result in an intermediate level at an energy of 3126 keV.
3117.0[@] *5*	(15$^+$)	
3225.5[#] *5*	(9)	
3314.0[a] *5*	(14$^+$)	
3392.5 *6*	(14,15$^-$)	
3405.5[&] *6*	(15$^-$)	
3686.2[a] *6*	(15$^+$)	E(level): ordering of the 372.2γ-176.1γ cascade is reversed in 2005Bh06 and 2005Zh16; evaluator adopts the ordering from the former. Ordering given by 2005Zh16 would result in an intermediate level at an energy of 3490 keV.
3734.7[@] *5*	(16$^+$)	
3822.5[b] *6*	(15$^-$,16$^-$)	
3843.6[&] *8*	(16$^-$)	
3862.3[a] *6*	(16$^+$)	
4147.2[@] *6*	(17$^+$)	E(level): ordering of the 412γ-483γ cascade is reversed in 2005Bh06 and 2005Zh16; evaluator adopts the ordering from the latter. Ordering given by 2005Bh06 would result in an intermediate level at an energy of 4217 keV.
4393.3[&] *8*	17$^-$	
4401.3[a] *6*	(17$^+$)	
4630.6[@] *6*	(18$^+$)	
5074.9[&] *9*	(18$^-$)	
5082.3 *8*		
5227.6[@] *8*	(19$^+$)	E(level): the 19$^+$ member of the $\pi h_{11/2}\otimes\nu h_{9/2}$ band is identified at 4869.9 keV in ^{124}Sn(^{17}N,5nγ) reaction, which is adopted by the evaluator.
5909.9[&] *11*	(19$^-$)	

[†] From a least-squares fit to Eγ, by evaluator.
[‡] From the Adopted Levels. Differences with 2005Zh16 and 2005Bh06 are indicated in the comments.
[#] Band(A): band based on 3$^-$ level.
[@] Band(B): $\pi h_{11/2}\otimes\nu h_{11/2}$, 9$^+$ band.
[&] Band(C): Band based on 12$^-$ level. 2005Zh16 propose oblate structure with $\pi h_{11/2}\otimes\nu(g_{7/2}h^2_{11/2})$ configuration.
[a] Band(D): Band based on 14$^+$ level. 2005Zh16 propose oblate structure with $\pi g_{7/2}\otimes\nu(g^2_{7/2}d_{5/2}h^2_{11/2})$ configuration.
[b] Band(E): Possible π1/2[431]$\otimes\nu h_{11/2}$, 8$^-$ band.
[c] Band(F): $\pi d_{5/2}\otimes\nu d_{3/2}$, 1$^+$ band.

^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16 (continued)

$\gamma(^{136}La)$

R(asym) and R(IPDCO) values: from e-mail reply of Feb 17, 2005 from one of the authors, S. K. Basu to XUNDL compilers. R(asym)=$I_{\gamma 1}$ at 90°, gated by γ_2 at 60° / $I_{\gamma 1}$ at 30°, gated by γ_2 at 60°; the ratio is independent of the multipolarity of the gating γ-ray transition, detected at 60°, and it need not be of pure ΔJ=2 or ΔJ=1 character. Typical values of R(asym) for pure ΔJ=2 and ΔJ=1 transitions are 0.6 and 1.45, respectively. A positive value of R(IPDCO) indicates an electric transition whereas a negative coincides with a magnetic transition. Near zero values are considered to be of mixed electric/magnetic character.

R(DCO) ratios were measured in 2005Zh16 from a matrix where detectors near 90° with respect to the beam were sorted against detectors at 45°, 55°, 125°, and 135°. The expected ratios are larger than 1.0 for ΔJ=1 transitions and less than 0.9 for ΔJ=2 transitions.

Gamma rays at 665.9 (Iγ=1.1 *2*) and 1004.0 (tentative) observed in 2005Zh16 are omitted here as they were not confirmed in 2005Bh06 and relate to the placement of the 408γ (see general comment on levels above) by 2005Zh16 which is not adopted here.

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Iγ'[a]	Comments
21.8 *2*		21.80	$(2)^+$	0.0	1^+			E_γ: From the Adopted Levels.
22.5 *2*		44.3	$(3)^+$	21.80	$(2)^+$			E_γ: From the Adopted Levels.
82.3 *2*	9.0 *18*	341.8	(8^-)	259.3?	(7^-)	E2+M1		Mult.: R(asym)=0.31 *9*, R(IPDCO)=+0.11 *27* (2005Bh06).
87.5[b] *2*		259.3?	(7^-)	171.8	$(3)^+$	[M4]		
98.3 *2*	5.7[@] *11*	2990.2	(8)	2891.9	(7)			
98.5 *2*	2.4[@] *5*	270.3	3^-	171.8	$(3)^+$			
124.1 *2*	9.3[@] *19*	2891.9	(7)	2767.8	(6)	D		Mult.: R(asym)=1.09 *23* (2005Bh06).
127.5 *2*	7.1[@] *14*	171.8	$(3)^+$	44.3	$(3)^+$			
149.0 *2*	0.87 *17*	2520.7	(14^+)	2371.4	(13^+)	D	1.2 *2*	Mult.: R(asym)=1.9 *5* (2005Bh06), R(DCO)=1.56 *20* (2005Zh16).
156.1 *2*	23 *3*	1281.3	(10^+)	1125.1	(9^+)	M1	86.2 *8*	Mult.: R(asym)=1.35 *18*, R(IPDCO)=−0.09 *12* (2005Bh06). Other: D+Q from R(DCO)=1.19 *6* (2005Zh16).
176.1 *2*	0.45 *9*	2548.6	(14^-)	2372.5	(13^-)	M1+E2	4.5 *3*	Mult.: R(asym)=0.8 *3*, R(IPDCO)=+0.4 *3* (2005Bh06). Other: D+Q from R(DCO)=1.14 *10* (2005Zh16).
176.1 *2*	1.0 *2*	3862.3	(16^+)	3686.2	(15^+)			
210.6 *2*	1.6 *3*	2790.4	13^-	2579.9	(12^-)	M1	0.6 *1*	Mult.: R(asym)=0.97 *21*, R(IPDCO)=+0.06 *19* (2005Bh06). Other: D+Q from R(DCO)=1.47 *30* (2005Zh16).
211.4 *2*	24[@] *3*	211.40	(2)	0.0	1^+	D		Mult.: R(asym)=1.5 *5* (2005Bh06).
235.3 *2*	5.4[@] *11*	3225.5	(9)	2990.2	(8)	(M1)		Mult.: R(asym)=1.1 *4*, R(IPDCO)=−0.0 *5* (2005Bh06).
258.5 *2*	4.7 *9*	2371.4	(13^+)	2112.8	(12^+)	D+Q	17.1 *7*	E_γ: Initial level energy for this transition taken from figure 8 of 2005Bh06; 2372.3 listed in authors' table 1 seems a misprint. Mult.: R(DCO)=1.27 *9* (2005Zh16).
258.7 *2*	2.1 *4*	2372.5	(13^-)	2113.8	(12^-)			E_γ: Initial level energy for this transition taken from figure 8 of 2005Bh06; 2371.5 listed in authors' table 1 seems a misprint.
279.8 *2*	1.5 *3*	3070.2	(14^-)	2790.4	13^-	M1	14.7 *6*	Mult.: R(asym)=1.8 *3*, R(IPDCO)=−0.32 *15* (2005Bh06). Other: D from R(DCO)=1.13 *8* (2005Zh16). E_γ: placement from 2005Zh16. Ordering of the 279.8γ-335.3γ cascade is reversed in 2005Bh06.
280.7 *2*	62 *12*	539.8	(8^-)	259.3?	(7^-)	M1	100	Mult.: R(asym)=1.7 *2*, R(IPDCO)=−0.02 *2* (2005Bh06). Other: E1 is assigned from R(DCO)=1.09 *4* in 2005Zh16.
324.4 *2*	4.2 *8*	1125.1	(9^+)	800.6	9^-		8.7 *5*	

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^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16 (continued)

$\gamma(^{136}La)$ (continued)

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	$I\gamma'$[a]	Comments
335.3 *2*	3.0 *6*	3405.5	(15$^-$)	3070.2	(14$^-$)	M1		Mult.: R(asym)=1.7 *3*, R(IPDCO)=−0.8 *3* (2005Bh06). Other: D from R(DCO)=1.10 *9* (2005Zh16). E_γ: placement from 2005Zh16. Ordering of the 279.8γ-335.3γ cascade is reversed in 2005Bh06.
351.4 *2*	100[@] *20*	562.8	(3)	211.40	(2)	E1		Mult.: R(asym)=2.3 *5*, R(IPDCO)=+0.29 *13* (2005Bh06).
352.8[b] *2*	0.3 *1*	2465.6?	(13$^+$)	2112.8	(12$^+$)			
356.6 *2*	0.9 *2*	2970.5	(14$^-$)	2614.0	(13$^-$)	M1		Mult.: R(asym)=1.2 *3*, R(IPDCO)=+0.16 *21* (2005Bh06).
372.2 *2*	0.38 *8*	2920.8		2548.6	(14$^-$)			
372.2 *2*	1.1 *2*	3686.2	(15$^+$)	3314.0	(14$^+$)	D+Q	3.0 *2*	Mult.: R(DCO)=1.26 *13* (2005Zh16).
406.3 *2*	48 *5*	1687.6	(11$^+$)	1281.3	(10$^+$)	M1+E2	70.4 *8*	Mult.: R(asym)=1.43 *19*, R(IPDCO)=0 (2005Bh06). Other: D+Q from R(DCO)=1.09 *6* (2005Zh16).
408.1 *2*	4.1 *8*	2520.7	(14$^+$)	2112.8	(12$^+$)		16.2 *7*	Mult.: D+Q from R(DCO)=1.09 *8* in 2005Zh16 is in disagreement with adopted placement as ΔJ=2 transition.
412.4 *2*	0.7 *1*	4147.2	(17$^+$)	3734.7	(16$^+$)	M1+E2	2.4 *2*	Mult.: R(asym)=1.4 *7* (2005Bh06), R(IPDCO)=−0.3 *2* (2005Bh06). Other: D from R(DCO)=1.06 *12* (2005Zh16). E_γ: placement from 2005Zh16. The ordering of 412γ-483γ cascade is reversed in 2005Bh06.
420.4 *2*	9.6[@] *19*	983.3	(4)	562.8	(3)			
425.3 *2*	19 *2*	2112.8	(12$^+$)	1687.6	(11$^+$)	M1+E2	46.5 *7*	Mult.: R(asym)=1.77 *24*, R(IPDCO)=0 (2005Bh06).
429.9 *2*	1.9 *4*	3822.5	(15$^-$,16$^-$)	3392.5	(14,15$^-$)			
438.1[&] *5*		3843.6	(16$^-$)	3405.5	(15$^-$)	D+Q	3.1 *2*	Mult.: R(DCO)=1.13 *9* (2005Zh16).
439.1[&] *5*		2810.6	(12,13,14)	2371.4	(13$^+$)	D	4.8 *3*	Mult.: R(DCO)=1.28 *10* 2005Zh16.
458.5 *2*	11.3 *11*	800.6	9$^-$	341.8	(8$^-$)	D	14.3 *6*	Mult.: R(DCO)=1.14 *8* (2005Zh16).
480.0 *2*		1281.3	(10$^+$)	800.6	9$^-$		0.9 *2*	
483.4 *2*	0.8 *2*	4630.6	(18$^+$)	4147.2	(17$^+$)	D	2.1 *3*	Mult.: R(DCO)=1.23 *20* (2005Zh16). E_γ: placement from 2005Zh16. The ordering of 412γ-483γ cascade is reversed in 2005Bh06.
498.3 *2*	5.3 *11*	1521.9	(10$^-$)	1023.8	(10$^-$)	M1	11.2 *5*	Mult.: R(asym)=1.8 *4*, R(IPDCO)=−0.05 *6* (2005Bh06). Other: D+Q from R(DCO)=1.42 *9* (2005Zh16).
500.2 *2*	2.4 *5*	2614.0	(13$^-$)	2113.8	(12$^-$)			
503.1[&] *5*		3314.0	(14$^+$)	2810.6	(12,13,14)		2.0 *2*	
539.0 *2*	0.6 *1*	4401.3	(17$^+$)	3862.3	(16$^+$)		2.1 *2*	
549.7 *2*	1.4 *3*	4393.3	17$^-$	3843.6	(16$^-$)	D	1.4 *2*	Mult.: R(DCO)=1.18 *19* (2005Zh16).
585.5 *2*	35 *4*	1125.1	(9$^+$)	539.8	(8$^-$)	E1	91.3 *9*	Mult.: R(asym)=1.4 *2*, R(IPDCO)=+0.05 *3* (2005Bh06). Other: D from R(DCO)=1.19 *5* (2005Zh16).
592.0 *2*	0.1	2113.8	(12$^-$)	1521.9	(10$^-$)			
596.3 *2*	2.4 *5*	3117.0	(15$^+$)	2520.7	(14$^+$)	M1	4.5 *2*	Mult.: R(asym)=1.58 *25*,

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^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16 (continued)

γ(^{136}La) (continued)

E_γ[†]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Iγ'[a]	Comments
								R(IPDCO)=+0.06 *5* (2005Bh06). Other: D from R(DCO)=1.12 *9* (2005Zh16).
597.0[&] *5*		5227.6	(19$^+$)	4630.6	(18$^+$)		1.5 *2*	
617.5 *2*	0.5 *1*	3734.7	(16$^+$)	3117.0	(15$^+$)	D+Q	3.1 *3*	Mult.: R(DCO)=1.09 *11* (2005Zh16).
677.6 *2*	3.3 *7*	2790.4	13$^-$	2112.8	(12$^+$)	D	17.3 *7*	Mult.: R(DCO)=1.28 *8* (2005Zh16).
681.0[&] *5*		5082.3		4401.3	(17$^+$)		1.0 *2*	
681.6[&] *5*		5074.9	(18$^-$)	4393.3	17$^-$		1.1 *2*	E_γ: from Table 1 of 2005Zh16, 681.0 in Figure 1 of 2005Zh16.
682.1 *2*	27 *5*	1023.8	(10$^-$)	341.8	(8$^-$)	E2		Mult.: R(asym)=0.6 *1*, R(IPDCO)=+0.19 *6* (2005Bh06). Other: Q from R(DCO)=0.78 *5* (2005Zh16).
683.8 *2*	10.8 *11*	2371.4	(13$^+$)	1687.6	(11$^+$)	Q	19.4 *6*	Mult.: R(DCO)=0.79 *6* (2005Zh16).
720.0[&] *5*		1521.9	(10$^-$)	800.6	9$^-$		2.8 *3*	
745.1 *2*	5.3[@] *11*	1728.5	(5)	983.3	(4)			
750.2 *2*	1.5 *3*	1875.3	(10$^+$)	1125.1	(9$^+$)	M1+E2		Mult.: R(asym)=1.4 *6*, R(IPDCO)=−0.1 *1* (2005Bh06).
778.5 *2*	0.96 *19*	3392.5	(14,15$^-$)	2614.0	(13$^-$)		<0.5	
831.5 *2*	1.9 *4*	2112.8	(12$^+$)	1281.3	(10$^+$)	Q	10.1 *4*	Mult.: R(DCO)=0.81 *8* (2005Zh16).
835.0[&] *5*		5909.9	(19$^-$)	5074.9	(18$^-$)		1.0 *2*	
852.0 *2*	0.1	3822.5	(15$^-$,16$^-$)	2970.5	(14$^-$)			
892.3 *2*	1.0 *2*	2579.9	(12$^-$)	1687.6	(11$^+$)		2.5 *2*	
896.4[&] *5*		4630.6	(18$^+$)	3734.7	(16$^+$)		0.6 *2*	
942.6 *2*	1.2 *2*	3314.0	(14$^+$)	2371.4	(13$^+$)	M1	3.0 *3*	Mult.: R(asym)=1.1 *4*, R(IPDCO)=−0.2 *1* (2005Bh06). Other: Q from R(DCO)=0.88 *11* (2005Zh16).
1030.4[&] *5*		4147.2	(17$^+$)	3117.0	(15$^+$)		0.9 *3*	
1039.3 *2*	13.2[@] *13*	2767.8	(6)	1728.5	(5)			
1058.0 *2*	1.5 *3*	2579.9	(12$^-$)	1521.9	(10$^-$)	E2	4.4 *3*	Mult.: R(asym)=0.39 *26*, R(IPDCO)=+0.24 *11* (2005Bh06).
1089.9 *2*	7.0 *14*	2113.8	(12$^-$)	1023.8	(10$^-$)	E2		Mult.: R(asym)=0.57 *11*, R(IPDCO)=+0.19 (2005Bh06).
1090.2[&b] *5*		2112.8	(12$^+$)	1023.8	(10$^-$)		35.7 *2*	Mult.: D from R(DCO)=1.14 7 in 2005Zh16 is in disagreement with ΔJ=2 transition from Adopted Levels. E_γ: placement from 2005Zh16, however, this would result in a strong M2 transition as thus, is not included in the Adopted Gammas.
1091.0[&b] *5*		2614.0	(13$^-$)	1521.9	(10$^-$)		7.5 *5*	E_γ: proposed by 2005Zh16, however, as this would result in a ΔJ=3, Δπ=no transition, the transition is not included in the Adopted Gammas.
1165.8 *2*	28[@] *3*	1728.5	(5)	562.8	(3)			
1214.1 *2*	0.2	3734.7	(16$^+$)	2520.7	(14$^+$)	Q	1.4 *2*	Mult.: R(asym)=0.86 *22* (2005Bh06), R(DCO)=0.82 *15* (2005Zh16).

[†] From 2005Bh06, except where noted. Authors state a general uncertainty of 0.1-0.2 keV. Evaluator assigns an uncertainty of 0.2 keV to all transitions.

[‡] Estimated from prompt spectra and normalized to 100 for the total combined intensity of the 682.1γ, 458.5γ and 280.7γ, except where noted. From a general statement by 2005Bh06 that overall uncertainty is 10% for strong transitions and 15-20% for weak

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^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16 (continued)

γ(^{136}La) (continued)

transitions, evaluator assigns a 10% uncertainty for Iγ >10 and 20% uncertainty for Iγ < 10.

[#] From R(asym) and R(IPDCO) in 2005Bh06 and R(DCO) in 2005Zh16, as indicated in the comments.

[@] Estimated from prompt spectra and normalized to 100 for the intensity of the 351.4γ. From a general statement by 2005Bh06 that overall uncertainty is 10% for strong transitions and 15-20% for weak transitions, evaluator assigns a 10% uncertainty for Iγ >10 and 20% uncertainty for Iγ < 10.

[&] From 2005Zh16. Authors make a general statement that uncertainties are less than 0.5 keV. Evaluator assigns 0.5 keV uncertainty to all transitions.

[a] From 2005Zh16, normalized to Iγ(280γ)=100.

[b] Placement of transition in the level scheme is uncertain.

^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16

Level Scheme

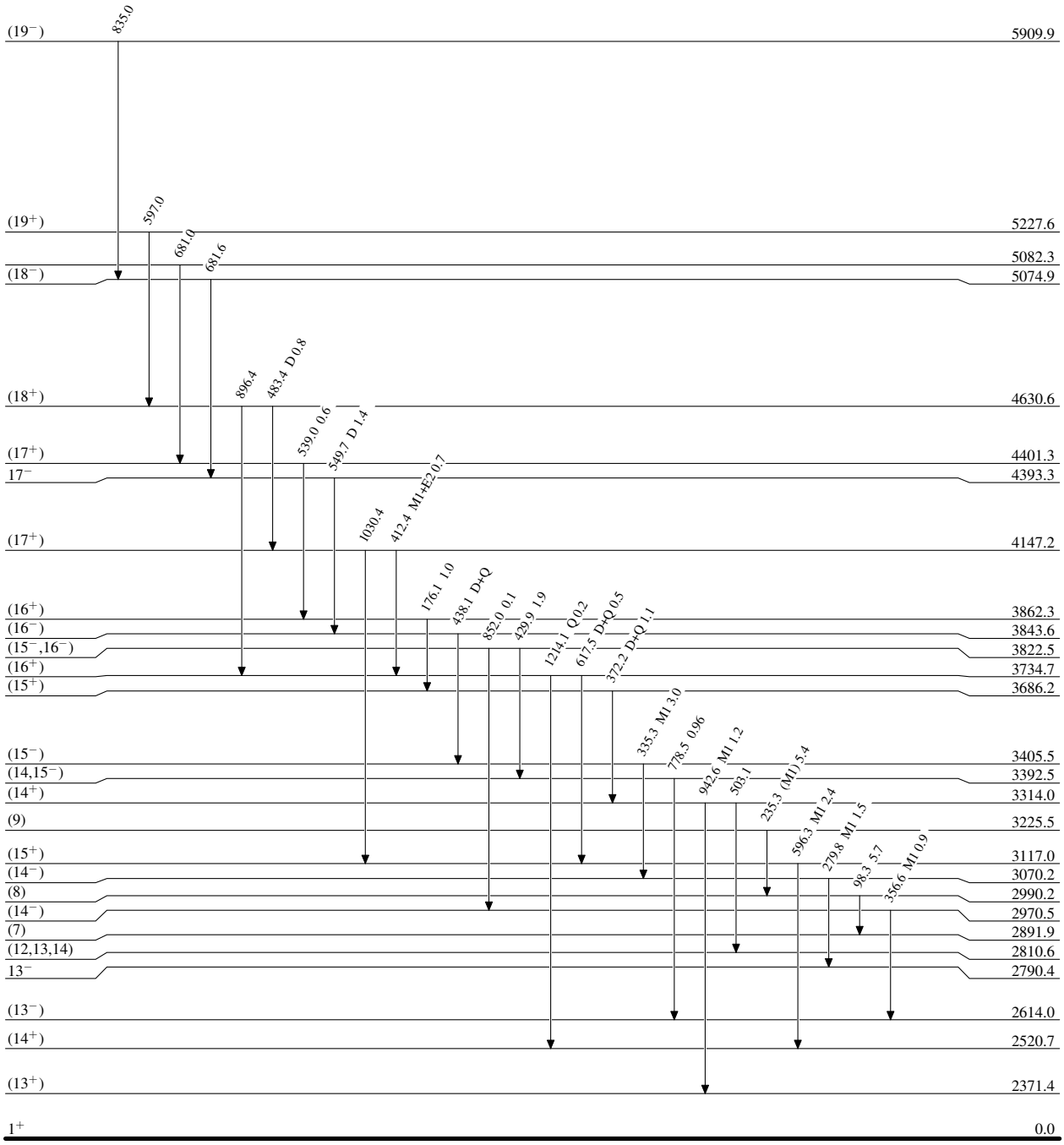
Intensities: Relative I_γ

Legend

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

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

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



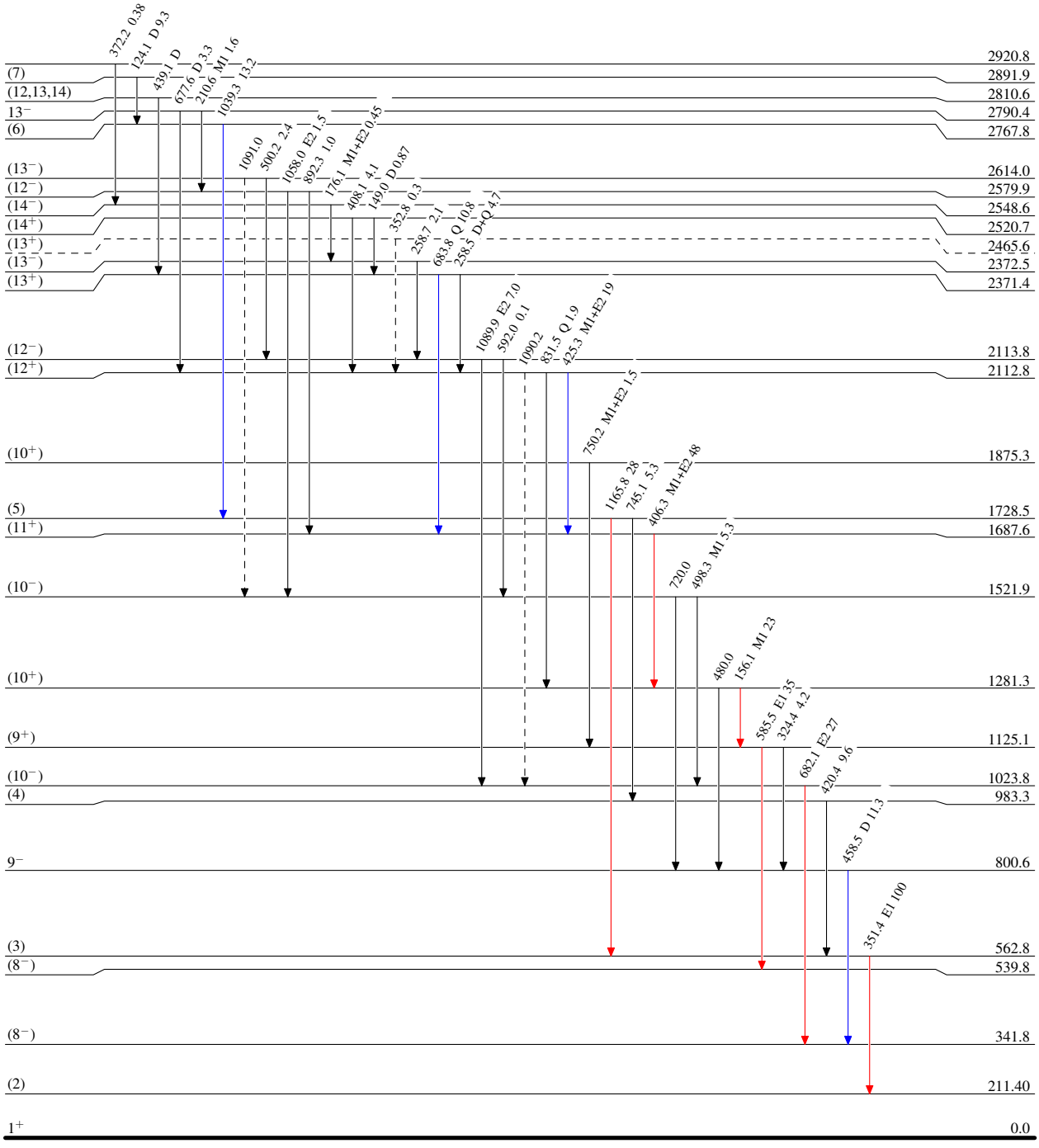
$^{136}_{57}La_{79}$

^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16

Level Scheme (continued)

Intensities: Relative I_γ

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



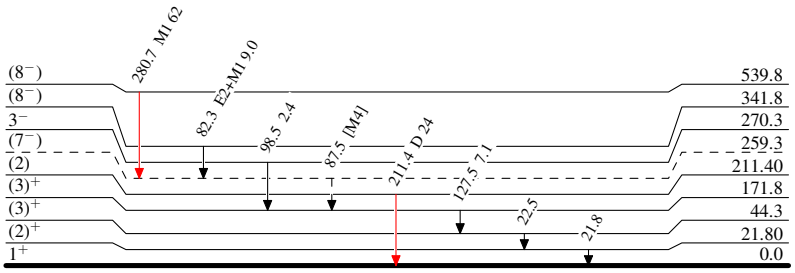
$^{136}_{57}La_{79}$

^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16

Level Scheme (continued)

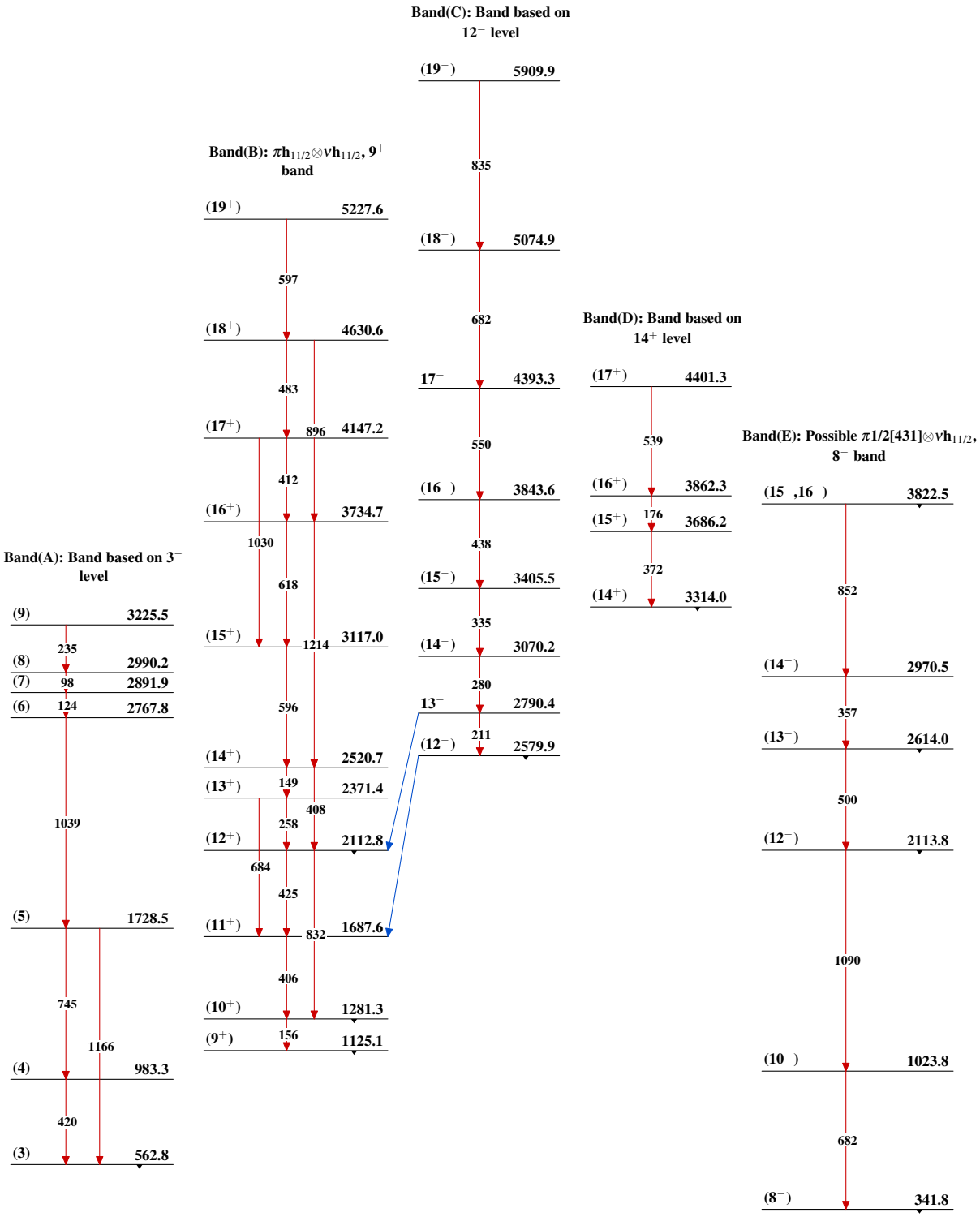
Intensities: Relative I_γ

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



$^{136}_{57}La_{79}$

^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16



$^{136}_{57}La_{79}$

^{130}Te(^{11}B,5nγ) 2005Bh06,2005Zh16 (continued)

$^{136}_{57}La_{79}$