

$^{132}\text{La}$   $\varepsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	10-Feb-2005

Parent:  $^{132}\text{La}$ : E=0;  $J^\pi=2^-$ ;  $T_{1/2}=4.8$  h 2;  $Q(\varepsilon)=4690$  40;  $\% \varepsilon + \% \beta^+$  decay=100.0

Parent:  $^{132}\text{La}$ : E=188.18 11;  $J^\pi=6^-$ ;  $T_{1/2}=24.3$  min 5;  $Q(\varepsilon)=4690$  40;  $\% \varepsilon + \% \beta^+$  decay=24.0

See also separated datasets:  $^{132}\text{La}$   $\varepsilon$  decay (4.8 h) and  $^{132}\text{La}$   $\varepsilon$  decay (24.3 min).

1996Ku01, 2002Ga01: measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$ ,  $\gamma\gamma(\theta)$  for mixed activities from 4.8-H and 24.3-min isomers.

1975WiZJ (also 1974WiZW): measured  $E_\gamma$ ,  $I_\gamma$ .

 $^{132}\text{Ba}$  Levels

E(level) <sup>†</sup>	$J^\pi$	Comments
0.0 <sup>‡</sup>	0 <sup>+</sup>	
464.83 <sup>‡</sup> 25	2 <sup>+</sup>	
1032.1 3	2 <sup>+</sup>	
1128.0 <sup>‡</sup> 4	4 <sup>+</sup>	
1504.0 4	0 <sup>+</sup>	
1511.4 4	3 <sup>+</sup>	
1660.7 4	0 <sup>+</sup>	$J^\pi$ : from $\gamma\gamma(\theta)$ (2002Ga01).
1686.2 3	2 <sup>+</sup>	
1729.8 4	4 <sup>+</sup>	
1932.3 <sup>‡</sup> 6	6 <sup>+</sup>	
1944.7 4	(4 <sup>+</sup> )	
1998.5 4	2 <sup>+</sup>	
2027.3 4	4 <sup>-</sup>	
2046.8 6	(2 <sup>+</sup> )	E(level): it should Be noted that two levels of almost the same energy are proposed by 1996Ku01 and 2002Ga01, one with $J^\pi=2^+$ and the other with $J^\pi=4^+$ . The reason for introducing two levels near this energy is not clear to the evaluators, and it is possible that these two levels are the same.
2046.9 4	(4 <sup>+</sup> )	
2069.0 3	3 <sup>-</sup>	
2119.9 4	5 <sup>-</sup>	
2220.5 4	(3 <sup>-</sup> )	
2226.1 5	(5 <sup>+</sup> )	
2240.9 6	6 <sup>(+)</sup>	
2288.4 5	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	
2312.8 5	5 <sup>(-)</sup>	$J^\pi$ : 4 <sup>+</sup> In 1996Ku01.
2357.8 6	(6 <sup>-</sup> )	
2374.8 4	3 <sup>-</sup>	
2423.0 6	6 <sup>(-)</sup>	
2439.3 6	(2 <sup>+</sup> to 6 <sup>+</sup> )	$J^\pi$ : 3,4 <sup>+</sup> In 1996Ku01.
2453.4 4	(1 <sup>-</sup> )	
2483.3 6	(7 <sup>-</sup> )	
2492.7 5	(4 <sup>+</sup> )	$J^\pi$ : not 2 <sup>+</sup> ,3 <sup>-</sup> ,4 <sup>-</sup> ,5 <sup>-</sup> ,6 <sup>+</sup> from $\gamma\gamma(\theta)$ .
2505.8 5	(2)	$J^\pi$ : not 1 <sup>-</sup> ,3 <sup>-</sup> ,4 <sup>+</sup> from $\gamma\gamma(\theta)$ .
2567.7 3	(3 <sup>-</sup> )	
2609.9 6	(5 <sup>-</sup> )	$J^\pi$ : 5 <sup>-</sup> ,(6 <sup>+</sup> ) from $\gamma\gamma(\theta)$ in table 1 of 1996Ku01; but in table 2, state that $J^\pi$ not 6 <sup>+</sup> .
2693.6 7	(4,5 <sup>-</sup> )	$J^\pi$ : not 3 <sup>-</sup> , 4 <sup>+</sup> , 5 <sup>+</sup> from $\gamma\gamma(\theta)$ .
2718.4 7	7 <sup>(-)</sup>	
2772.7 8	(4 <sup>-</sup> ,6 <sup>-</sup> )	$J^\pi$ : not 4 <sup>-</sup> ,5,6 <sup>+</sup> ,7 <sup>-</sup> from $\gamma\gamma(\theta)$ in table 2 of 1996Ku01; but 4 <sup>-</sup> ,6 <sup>-</sup> assigned in authors' table 1.
2791.8 6	(5 <sup>-</sup> )	$J^\pi$ : not 4 <sup>-</sup> ,5 <sup>+</sup> from $\gamma\gamma(\theta)$ .
2856.3 5	(2 <sup>-</sup> )	$J^\pi$ : not 1 <sup>-</sup> ,2 <sup>+</sup> ,3,4 <sup>+</sup> from $\gamma\gamma(\theta)$ .
2876.9 4	(1 <sup>+</sup> )	
2928.2 4	(3 <sup>-</sup> )	
2946.6 7	(5 <sup>-</sup> )	$J^\pi$ : not 4 <sup>-</sup> ,5 <sup>+</sup> ,6,7 <sup>+</sup> from $\gamma\gamma(\theta)$ . 1996Ku01 quote $J^\pi=5^-,6^-$ in figure 3 and 5 <sup>-</sup> ,6 <sup>-</sup> ,7 <sup>-</sup> in table 1.

Continued on next page (footnotes at end of table)

$^{132}\text{La}$   $\varepsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ (continued) $^{132}\text{Ba}$  Levels (continued)

E(level) <sup>†</sup>	J <sup><math>\pi</math></sup>	Comments
2981.4 7	(1,2 <sup>+</sup> )	
2982.1 11		
3018.8 8	(6 <sup>-</sup> )	J <sup><math>\pi</math></sup> : not 5 <sup>-</sup> ,7 <sup>-</sup> from $\gamma\gamma(\theta)$ .
3021.7 8	(1,2 <sup>+</sup> ,3)	J <sup><math>\pi</math></sup> : not 0 <sup>+</sup> ,2 <sup>-</sup> ,4 <sup>+</sup> from $\gamma\gamma(\theta)$ .
3069.2 7	(1 <sup>+</sup> ,2 <sup>+</sup> ,3,4 <sup>+</sup> )	J <sup><math>\pi</math></sup> : not 0 <sup>+</sup> ,1 <sup>-</sup> ,2 <sup>-</sup> from $\gamma\gamma(\theta)$ .
3083.3 11		
3158.7 7	(1 <sup>-</sup> )	
3196.8 11		
3217.5 11		
3219.7 5	(2 <sup>+</sup> )	J <sup><math>\pi</math></sup> : not 1 <sup>-</sup> ,2 <sup>-</sup> ,3,4 <sup>+</sup> from $\gamma\gamma(\theta)$ .
3229.7 7	(6 <sup>+</sup> )	
3327.4 7	(4,5 <sup>-</sup> )	
3336.7 8	(3 <sup>-</sup> ,5 <sup>-</sup> )	
3363.63 14	(1,2 <sup>+</sup> )	
3381.8 8		
3424.2 5	(3 <sup>-</sup> )	
3434.8 7		
3461.5 5	(1,2 <sup>+</sup> )	
3495.4 5	(3,4 <sup>+</sup> )	
3527.7 5		
3562.2 7		
3562.8 5	(1,2 <sup>+</sup> )	
3563.22 22	(1,2 <sup>+</sup> )	
3591.7 8		
3607.9 5	(1,2 <sup>+</sup> )	
3608.08 17		
3617.7 11		
3635.64 18	1 <sup>-</sup>	
3664.7 4	(1 <sup>-</sup> ,2 <sup>-</sup> ,3 <sup>-</sup> )	J <sup><math>\pi</math></sup> : 1 <sup>+</sup> In <a href="#">2002Ga01</a> .
3672.5 8		
3717.0 5		
3718.5 4		
3734.5 7	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	
3735.8 11		
3753.8 5	(2,3 <sup>-</sup> )	
3768.6 7	(2,3)	
3769.5 11		
3773.7 7	(1,2 <sup>+</sup> )	
3775.84 25	(2 <sup>+</sup> )	
3788.1 11		
3820.6 7		
3821.4 11		
3835.2 7	(1,2 <sup>+</sup> )	
3850.1 5		
3864.1 8		
3879.1 11	(1,2 <sup>+</sup> )	
3887.7 6	(3,4 <sup>+</sup> )	
3903.8 6	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	
3908.0 7		
3918.3 8	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	
3943.7 11	(0 <sup>+</sup> to 4 <sup>+</sup> )	
3968.0 7	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	
3974.6 7	(3,4 <sup>+</sup> )	
3975.5 11		
4010.5 11		

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$^{132}\text{La}$   $\varepsilon$  decay (4.8 h+24.3 min) [1996Ku01,1975WiZJ](#) (continued)

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$^{132}\text{Ba}$  Levels (continued)

<u>E(level)<sup>†</sup></u>	<u>J<sup>π</sup></u>
4028.2 7	(2 <sup>+</sup> ,3,4 <sup>+</sup> )
4090.6 11	

<sup>†</sup> From least-squares fit to E $\gamma$ 's, assuming  $\Delta(E\gamma)=0.2$  keV for each  $\gamma$  ray. About 15  $\gamma$  rays are poorly fitted if  $\Delta(E\gamma)=0.1$  keV is assumed.

<sup>‡</sup> Band(A): g.s. band.

γ(<sup>132</sup>Ba)

γγ(θ) data given under comments are from 2002Ga01. These values are given as asymmetry ratio R=yield(at 90°)/yield(at 180°).

E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>γ</sub> <sup>†</sup>	I <sub>γ</sub> <sup>†#</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Mult. <sup>‡</sup>	δ <sup>‡</sup>	α <sup>a</sup>	Comments
464.83	2 <sup>+</sup>	464.5	100	0.0	0 <sup>+</sup>				Eγ=464.55 3, Iγ=100 6.
1032.1	2 <sup>+</sup>	567.3	100	464.83	2 <sup>+</sup>	M1+E2	+14 +3-2	0.00709 1	α=0.00709 1; α(K)=0.00594 1; α(L)=0.00086
		1031.7	53.4 10	0.0	0 <sup>+</sup>				Eγ=567.14 3, Iγ=20.7 16.
1128.0	4 <sup>+</sup>	663.1	100	464.83	2 <sup>+</sup>				Eγ=1031.7 3, Iγ=10.2 7. (663.1γ)(464.5γ)(θ): R(90°/180°)=0.88 3.
1504.0	0 <sup>+</sup>	472.0	100	1032.1	2 <sup>+</sup>				Eγ=663.07 3, Iγ=11.9 8. (472.0γ)(1031.7γ)(θ): R(90°/180°)=0.58 5.
1511.4	3 <sup>+</sup>	1039.0	10 1	464.83	2 <sup>+</sup>				Eγ=472.05 6, Iγ=0.47 4.
		383.4	4 1	1128.0	4 <sup>+</sup>	(M1+E2)	+6 1	0.0213 1	Iγ: ≤37 (2002Ga01). α(K)=0.0177 1; α(L)=0.00288; α(M)=0.00060; α(N+..)=0.00016
		479.3	61 2	1032.1	2 <sup>+</sup>	E2(+M1)	≥+12	0.0111	Iγ: 8 (2002Ga01). (383.4γ)(663.1γ)(θ): R(90°/180°)=1.54 13.
		1046.5	100	464.83	2 <sup>+</sup>	M1+E2	+2.19 8	0.00176 1	Eγ=383.28 11, Iγ=0.55 8. α(K)=0.0093; α(L)=0.00142; α(M)=0.00029
1660.7	0 <sup>+</sup>	628.6	30 10	1032.1	2 <sup>+</sup>				(479.3γ)(1031.7γ)(θ): R(90°/180°)=1.51 8. Eγ=479.47 3, Iγ=2.89 22.
		1195.9	100	464.83	2 <sup>+</sup>				α=0.00176 1; α(K)=0.00151 1; α(L)=0.00019
1686.2	2 <sup>+</sup>	654.1	12 1	1032.1	2 <sup>+</sup>	(M1+E2)	+0.28 8	0.00679 9	(1046.5γ)(464.5γ)(θ): R(90°/180°)=0.93 4. Eγ=1046.56 3, Iγ=4.5 3.
		1221.2	100	464.83	2 <sup>+</sup>	M1+E2	-0.25 2	0.00159	(628.6γ)(1031.7γ)(θ): R(90°/180°)=0.74 10.
		1685.5	1.7 3	0.0	0 <sup>+</sup>				Eγ=628.56 6, Iγ=0.154 14.
1729.8	4 <sup>+</sup>	218.2 @b	0.15 3	1511.4	3 <sup>+</sup>				(1195.9γ)(464.5γ)(θ): R(90°/180°)=0.55 3.
		601.7	41 2	1128.0	4 <sup>+</sup>	(M1+E2)	-2.6 2	0.00638 5	Eγ=1195.82 4, Iγ=0.46 3.
		697.7	100	1032.1	2 <sup>+</sup>				α=0.00679 9; α(K)=0.00581 8; α(L)=0.00074 1
		1264.8	34 1	464.83	2 <sup>+</sup>				(654.1γ)(1031.7γ)(θ): R(90°/180°)=1.23 16.
									Eγ=654.03 4, Iγ=0.45 3.
									α=0.00159; α(K)=0.00136; α(L)=0.00017
									(1221.2γ)(464.5γ)(θ): R(90°/180°)=0.65 3.
									Eγ=1221.11 3, Iγ=3.86 24.
									Eγ=1684.81 16, Iγ=0.19 3.
									α=0.00638 5; α(K)=0.00538 5; α(L)=0.00076
									(601.7γ)(663.1γ)(θ): R(90°/180°)=0.96 4.
									Eγ=601.75 3, Iγ=0.45 3.
									(697.7γ)(567.3γ)(θ): R(90°/180°)=1.02 4.
									(697.7γ)(1031.7γ)(θ): R(90°/180°)=0.89 4.
									Eγ=697.68 3, Iγ=1.24 8.
									(1264.8γ)(464.5γ)(θ): R(90°/180°)=0.88 4.
									Eγ=1264.77 4, Iγ=0.37 3.

<sup>132</sup>La ε decay (4.8 h+24.3 min) [1996Ku01,1975WiZJ](#) (continued)

$\gamma(^{132}\text{Ba})$ (continued)									
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^{\ddagger\#}$	$E_f$	$J_f^\pi$	Mult. <sup>‡</sup>	$\delta^\ddagger$	$\alpha^a$	Comments
1932.3	6 <sup>+</sup>	804.2	100	1128.0	4 <sup>+</sup>				(804.2γ)(663.1γ)(θ): R(90°/180°)=0.83 5. Eγ=803.40 22, Iγ=0.042 13.
1944.7	(4 <sup>+</sup> )	816.6	100	1128.0	4 <sup>+</sup>	(M1(+E2))	+0.03 6	0.00409 1	α=0.00409 1; α(K)=0.00350 1; α(L)=0.00044 (816.6γ)(663.1γ)(θ): R(90°/180°)=0.80 5. Eγ=816.13 3, Iγ=0.70 5.
		912.7	7 1	1032.1	2 <sup>+</sup>				(912.7γ)(567.3γ)(θ): R(90°/180°)=0.86 9. (912.7γ)(1031.7γ)(θ): R(90°/180°)=0.83 18. Eγ=912.50 12, Iγ=0.073 14.
		1479.7	4 1	464.83	2 <sup>+</sup>				(1479.7γ)(464.5γ)(θ): R(90°/180°)=0.82 23. Eγ=1479.7 5, Iγ=0.020 13 (deleted by <a href="#">1975WiZJ</a> ).
1998.5	2 <sup>+</sup>	312.4 <sup>@b</sup>	1.8 5	1686.2	2 <sup>+</sup>				
		487.1 <sup>@b</sup>	0.8 3	1511.4	3 <sup>+</sup>				
		494.4	1.0 5	1504.0	0 <sup>+</sup>				
		966.5	28 5	1032.1	2 <sup>+</sup>	(M1+E2)	+0.11 6	0.00275 1	(494.4γ)(472.0γ)(θ): R(90°/180°)=0.7 5. α=0.00275 1; α(K)=0.00235 1; α(L)=0.00030 (966.5γ)(1031.7γ)(θ): R(90°/180°)=0.83 9. Eγ=966.45 3, Iγ=0.52 4.
		1533.6	100	464.83	2 <sup>+</sup>	(M1(+E2))	+0.02 2	0.00083	α=0.00083; α(K)=0.00083 (1533.6γ)(464.5γ)(θ): R(90°/180°)=0.71 4. Eγ=1533.66 4, Iγ=1.94 12.
		1998.3	30 5	0.0	0 <sup>+</sup>				Iγ: 32 4 ( <a href="#">2002Ga01</a> , as per e-mail reply from A. Gade on Jan 16/02). Iγ=100 quoted in table 5 of <a href="#">2002Ga01</a> is a misprint. Eγ=1998.38 6, Iγ=0.61 4.
2027.3	4 <sup>-</sup>	82.6	0.06 2	1944.7	(4 <sup>+</sup> )				
		297.5	33 3	1729.8	4 <sup>+</sup>				(297.5γ)(1264.8γ)(θ): R(90°/180°)=0.84 5. (155.9γ)(1046.5γ)(θ): R(90°/180°)=1.17 5. Eγ=515.78 9, Iγ=6.6 7.
		515.9	95 5	1511.4	3 <sup>+</sup>				
		899.2	100	1128.0	4 <sup>+</sup>	(E1(+M2))	-0.02 3	0.00094 2	α=0.00094 2; α(K)=0.00081 1; α(L)=9.9×10 <sup>-5</sup> 2 (899.2γ)(663.1γ)(θ): R(90°/180°)=0.76 3. Eγ=899.32 3, Iγ=6.1 4.
2046.8	(2 <sup>+</sup> )	1562.3	0.6 3	464.83	2 <sup>+</sup>				
2046.9	(4 <sup>+</sup> )	1581.7	100	464.83	2 <sup>+</sup>	(M1(+E2))	-0.02 2		Eγ=1581.75 4, Iγ=1.16 8.
		102.3	2.4 3	1944.7	(4 <sup>+</sup> )				
		317.1	80 8	1729.8	4 <sup>+</sup>				(317.1γ)(697.7γ)(θ): R(90°/180°)=0.81 10. Eγ=317.3 4, Iγ=0.07 3. Eγ=360.66 12, Iγ=0.26 8.
		360.5	5.7 6	1686.2	2 <sup>+</sup>				
		386.0	0.5 1	1660.7	0 <sup>+</sup>				
		535.5	73 7	1511.4	3 <sup>+</sup>				Eγ=534.6 3, Iγ=0.11 3.
		918.8	100	1128.0	4 <sup>+</sup>				(918.8γ)(663.1γ)(θ): R(90°/180°)=0.97 11. Eγ=918.68 9, Iγ=0.26 3.
		1014.7	43 4	1032.1	2 <sup>+</sup>				(1014.7γ)(567.3γ)(θ): R(90°/180°)=0.99 9. (1014.7γ)(1031.7γ)(θ): R(90°/180°)=1.02 19. Eγ=1014.59 19, Iγ=0.060 15.
		1581.9	12.8 13	464.83	2 <sup>+</sup>				Eγ=1581.75 4, Iγ=1.16 8.

γ(<sup>132</sup>Ba) (continued)

<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>†#</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>‡</sup></u>	<u>δ<sup>‡</sup></u>	<u>α<sup>a</sup></u>	<u>Comments</u>
2069.0	3 <sup>-</sup>	382.8	3.0 2	1686.2	2 <sup>+</sup>				(382.8γ)(1221.2γ)(θ): R(90°/180°)=1.18 14. Eγ=383.27 11, Iγ=0.51 8.
		940.9	7.3 3	1128.0	4 <sup>+</sup>	(E1(+M2))	-0.03 4	0.00087 3	α=0.00087 3; α(K)=0.00074 2 (940.9γ)(663.1γ)(θ): R(90°/180°)=1.25 11. Eγ=940.87 5, Iγ=0.35 3.
		1036.8	8.6 3	1032.1	2 <sup>+</sup>	(E1(+M2))	-0.04 16	0.00072 19	α=0.00072 19; α(K)=0.00062 16 (1036.8γ)(567.3γ)(θ): R(90°/180°)=1.05 8. (1036.8γ)(1031.7γ)(θ): R(90°/180°)=1.06 13. Eγ=1036.92 9, Iγ=0.42 4.
		1604.0	100	464.83	2 <sup>+</sup>	(E1(+M2))	+0.02 2		(1604.0γ)(464.5γ)(θ): R(90°/180°)=1.14 16. Eγ=1604.03 3, Iγ=4.8 3.
		2068.6	0.15 7	0.0	0 <sup>+</sup>				Eγ=2068.3 4, Iγ=0.030 11.
2119.9	5 <sup>-</sup>	73.1	0.3 1	2046.9	(4 <sup>+</sup> )				
		92.7	0.6 1	2027.3	4 <sup>-</sup>				
		175.2	3.3 2	1944.7	(4 <sup>+</sup> )	(E1(+M2))	+0.01 3	0.0484 19	α(K)=0.0415 16; α(L)=0.0054 3; α(M)=0.00110 6; α(N+..)=0.00029 2 (175.2γ)(816.6γ)(θ): R(90°/180°)=1.11 70. (175.2γ)(912.7γ)(θ): R(90°/180°)=1.08 16. (175.2γ)(1479.7γ)(θ): R(90°/180°)=1.4 4.
		187.6	5.3 3	1932.3	6 <sup>+</sup>	(E1(+M2))	+0.01 2	0.0401 8	α(K)=0.0344 7; α(L)=0.00449 12; α(M)=0.00091 3; α(N+..)=0.00024 1 (187.6γ)(804.2γ)(θ): R(90°/180°)=1.13 6. (390.2γ)(1264.8γ)(θ): R(90°/180°)=1.14 5. Eγ=390.51 11, Iγ=0.51 8.
		390.2	100	1729.8	4 <sup>+</sup>				α=0.00078; α(K)=0.00067 (991.9γ)(601.7γ)(θ): R(90°/180°)=0.94 4. (991.9γ)(663.1γ)(θ): R(90°/180°)=1.10 5. (991.9γ)(697.7γ)(θ): R(90°/180°)=1.15 5. Eγ=991.95 9, Iγ=0.18 2.
2220.5	(3 <sup>-</sup> )	991.9	68 1	1128.0	4 <sup>+</sup>	(E1+M2)	+0.03 1	0.00078	Eγ=991.95 9, Iγ=0.18 2.
		1087.9	0.06 3	1032.1	2 <sup>+</sup>				Eγ=1089.7 3, Iγ=0.038 14.
		1655.0	0.8 2	464.83	2 <sup>+</sup>				
		275.9	5 1	1944.7	(4 <sup>+</sup> )				Eγ=534.6 3, Iγ=0.11 3. Eγ=708.79 21 Iγ=0.051 15. (1092.5γ)(663.1γ)(θ): R(90°/180°)=1.10 19. Eγ=1092.56 10, Iγ=0.111 15.
		534.4	7 1	1686.2	2 <sup>+</sup>				α=0.00060 8; α(K)=0.00051 7 (1188.4γ)(1031.7γ)(θ): R(90°/180°)=1.26 21. Eγ=1188.35 5, Iγ=0.38 3. (1755.5γ)(464.5γ)(θ): R(90°/180°)=1.08 16.
2226.1	(5 <sup>+</sup> )	709.1	16 1	1511.4	3 <sup>+</sup>				
		1092.5	26 3	1128.0	4 <sup>+</sup>				
		1188.4	100	1032.1	2 <sup>+</sup>	(E1+M2)	-0.11 8	0.00060 8	
		1755.5	23 5	464.83	2 <sup>+</sup>				
		1098.1	22 1	1128.0	4 <sup>+</sup>				Eγ=1755.51 7, Iγ=0.30 3.

<sup>132</sup>La ε decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ (continued)

$\gamma(^{132}\text{Ba})$ (continued)									
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^{\ddagger\#}$	$E_f$	$J_f^\pi$	Mult. <sup>‡</sup>	$\delta^{\ddagger}$	$\alpha^a$	Comments
2240.9	6 <sup>(+)</sup>	308.6	5 1	1932.3	6 <sup>+</sup>	(M1+E2)	-0.2 +3-4	0.0454 7	$\alpha(\text{K})=0.0389$ 12; $\alpha(\text{L})=0.00514$ 16; $\alpha(\text{M})=0.00105$ 4; $\alpha(\text{N}+..)=0.00029$ 1 (511.1 $\gamma$ )(601.7 $\gamma$ )( $\theta$ ): R(90°/180°)=1.13 11. (511.1 $\gamma$ )(697.7 $\gamma$ )( $\theta$ ): R(90°/180°)=0.99 9. <b>Additional information 1.</b> (511.1 $\gamma$ )(1264.8 $\gamma$ )( $\theta$ ): R(90°/180°)=0.83 10. (1112.9 $\gamma$ )(663.1 $\gamma$ )( $\theta$ ): R(90°/180°)=0.94 9. $E_\gamma=601.75$ 3, $I_\gamma=0.45$ 3. $E_\gamma=777.55$ 21, $I_\gamma=0.038$ 10. (1160.3 $\gamma$ )(663.1 $\gamma$ )( $\theta$ ): R(90°/180°)=0.88 13. $E_\gamma=1160.08$ 18, $I_\gamma=0.14$ 3. $E_\gamma=1256.38$ 11, $I_\gamma=0.098$ 12. $E_\gamma=1824.08$ 4, $I_\gamma=0.72$ 5.
		511.1	78 3	1729.8	4 <sup>+</sup>				
2288.4	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	1112.9	100	1128.0	4 <sup>+</sup>				$E_\gamma=601.75$ 3, $I_\gamma=0.45$ 3. $E_\gamma=777.55$ 21, $I_\gamma=0.038$ 10. (1160.3 $\gamma$ )(663.1 $\gamma$ )( $\theta$ ): R(90°/180°)=0.88 13. $E_\gamma=1160.08$ 18, $I_\gamma=0.14$ 3. $E_\gamma=1256.38$ 11, $I_\gamma=0.098$ 12. $E_\gamma=1824.08$ 4, $I_\gamma=0.72$ 5.
		602.2	23 6	1686.2	2 <sup>+</sup>				
		776.9	28 7	1511.4	3 <sup>+</sup>				
		1160.3	43 10	1128.0	4 <sup>+</sup>				
2312.8	5 <sup>(-)</sup>	1256.3	52 10	1032.1	2 <sup>+</sup>				(265.9 $\gamma$ )(918.8 $\gamma$ )( $\theta$ ): R(90°/180°)=1.16 12. (265.9 $\gamma$ )(1014.7 $\gamma$ )( $\theta$ ): R(90°/180°)=1.36 25.
		1823.5	100	464.83	2 <sup>+</sup>				
		192.8	2.8 5	2119.9	5 <sup>-</sup>				
		265.9	1.3 2	2046.9	(4 <sup>+</sup> )				
		285.4	100	2027.3	4 <sup>-</sup>				
		368.2	0.7 1	1944.7	(4 <sup>+</sup> )				
2357.8	6 <sup>(-)</sup>	380.4	0.04 1	1932.3	6 <sup>+</sup>				(131.7 $\gamma$ )(496.4 $\gamma$ )( $\theta$ ): R(90°/180°)=1.3 7. (131.7 $\gamma$ )(714.7 $\gamma$ )( $\theta$ ): R(90°/180°)=1.08 9. (131.7 $\gamma$ )(1098.1 $\gamma$ )( $\theta$ ): R(90°/180°)=1.38 22.  (330.5 $\gamma$ )(297.5 $\gamma$ )( $\theta$ ): R(90°/180°)=0.90 12. (330.5 $\gamma$ )(515.9 $\gamma$ )( $\theta$ ): R(90°/180°)=1.07 7. (330.5 $\gamma$ )(899.2 $\gamma$ )( $\theta$ ): R(90°/180°)=0.85 6.
		583.1	8.3 2	1729.8	4 <sup>+</sup>				
		801.5	0.13 3	1511.4	3 <sup>+</sup>				
		131.7	1.8 4	2226.1	(5 <sup>+</sup> )				
		237.9	100	2119.9	5 <sup>-</sup>				
		330.5	16 2	2027.3	4 <sup>-</sup>				
2374.8	3 <sup>-</sup>	154.3	0.03 1	2220.5	(3 <sup>-</sup> )				$\alpha(\text{K})=0.0387$ 17; $\alpha(\text{L})=0.0055$ 4; $\alpha(\text{M})=0.00113$ 8; $\alpha(\text{N}+..)=0.00031$ 2 $\delta$ : -1.13 $\leq\delta\leq$ -0.04. $E_\gamma=305.85$ 10, $I_\gamma=0.66$ 9.  $E_\gamma=430.13$ 6, $I_\gamma=0.26$ 3. $\alpha=0.00193$ 16; $\alpha(\text{K})=0.00165$ 14; $\alpha(\text{L})=0.00021$ 2 (645.0 $\gamma$ )(601.7 $\gamma$ )( $\theta$ ): R(90°/180°)=0.95 11. (645.0 $\gamma$ )(697.7 $\gamma$ )( $\theta$ ): R(90°/180°)=1.28 12. $E_\gamma=645.05$ 4, $I_\gamma=0.41$ 3. (688.7 $\gamma$ )(1221.2 $\gamma$ )( $\theta$ ): R(90°/180°)=1.10 9. $E_\gamma=688.66$ 3, $I_\gamma=0.35$ 3. $E_\gamma=1246.81$ 3, $I_\gamma=0.46$ 3. $\alpha=0.00050$ 14; $\alpha(\text{K})=0.00043$ 12
		305.8	7.0 1	2069.0	3 <sup>-</sup>	(M1+E2)		0.0456	
		376.0	0.13 3	1998.5	2 <sup>+</sup>				
		430.1	2.3 1	1944.7	(4 <sup>+</sup> )				
		645.0	3.5 3	1729.8	4 <sup>+</sup>	(E1+M2)	+0.06 5	0.00193 16	
		688.7	3.0 1	1686.2	2 <sup>+</sup>				
		1246.8	4.1 1	1128.0	4 <sup>+</sup>				
		1342.7	4.1 2	1032.1	2 <sup>+</sup>	(E1+M2)	+0.15 14	0.00050 14	

γ(<sup>132</sup>Ba) (continued)

<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>‡#</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>‡</sup></u>	<u>δ<sup>‡</sup></u>	<u>α<sup>a</sup></u>	<u>Comments</u>
2374.8	3 <sup>-</sup>	1909.8	100	464.83	2 <sup>+</sup>	E1(+M2)	-0.02 1		(1342.7γ)(567.3γ)(θ): R(90°/180°)=1.15 9. (1342.7γ)(1031.7γ)(θ): R(90°/180°)=1.25 14. Eγ=1342.81 7, Iγ=0.47 4. (1909.8γ)(464.5γ)(θ): R(90°/180°)=1.16 5. Eγ=1909.91 4, Iγ=11.9 8.
2423.0	6 <sup>(-)</sup>	196.9 303.0 395.6	1.0 1 100 68 4	2226.1 2119.9 2027.3	(5 <sup>+</sup> ) 5 <sup>-</sup> 4 <sup>-</sup>				(395.6γ)(515.9γ)(θ): R(90°/180°)=1.10 7. (395.6γ)(899.2γ)(θ): R(90°/180°)=0.88 6. (395.6γ)(297.5γ)(θ): R(90°/180°)=0.81 11. Eγ=708.79 21, Iγ=0.051 15. (1311.3γ)(663.1γ)(θ): R(90°/180°)=1.36 19. Eγ=767.7 4, Iγ=0.034 22.
2439.3	(2 <sup>+</sup> to 6 <sup>+</sup> )	709.5 1311.3	10 1 100	1729.8 1128.0	4 <sup>+</sup> 4 <sup>+</sup>				(949.1γ)(472.0γ)(θ): R(90°/180°)=1.13 26. Eγ=948.8 4, Iγ=0.022 11. Eγ=2452.7 6, Iγ=0.49 4.
2453.4	(1 <sup>-</sup> )	767.4 792.8 949.1	3 1 4 1 10 1	1686.2 1660.7 1504.0	2 <sup>+</sup> 0 <sup>+</sup> 0 <sup>+</sup>				(242.3γ)(1112.9γ)(θ): R(90°/180°)=1.14 10. (363.3γ)(175.2γ)(θ): R(90°/180°)=0.98 13. (363.3γ)(187.6γ)(θ): R(90°/180°)=0.94 13. (363.3γ)(390.2γ)(θ): R(90°/180°)=1.09 6. (363.3γ)(991.9γ)(θ): R(90°/180°)=1.08 8. (551.1γ)(804.2γ)(θ): R(90°/180°)=0.98 14. (179.9γ)(285.4γ)(θ): R(90°/180°)=1.43 11. (548.0γ)(816.6γ)(θ): R(90°/180°)=0.96 12. <b>Additional information 2.</b> α=0.00122 1; α(K)=0.00104 1; α(L)=0.00013 (1364.6γ)(663.1γ)(θ): R(90°/180°)=1.04 6. Eγ=1364.08 8, Iγ=0.24 3. (819.7γ)(1221.2γ)(θ): R(90°/180°)=0.82 22. δ: uncertainty of 0.06 quoted in table 3 of 2002Ga01 is a misprint (as per e-mail reply from A. Gade on Jan 16/02). (2040.7γ)(464.5γ)(θ): R(90°/180°)=0.77 5. Eγ=2040.79 5, Iγ=1.11 7. (192.9γ)(1909.8γ)(θ): R(90°/180°)=0.9 4. (192.9γ)(1342.7γ)(θ): R(90°/180°)=1.18 23.
2483.3	(7 <sup>-</sup> )	2453.0 125.5 242.3 363.3	100 22 4 50 5 100	0.0 2357.8 2240.9 2119.9	0 <sup>+</sup> (6 <sup>-</sup> ) 6 <sup>(+)</sup> 5 <sup>-</sup>				
2492.7	(4 <sup>+</sup> )	551.1 179.9 548.0	9 2 18 2 8 1	1932.3 2312.8 1944.7	6 <sup>+</sup> 5 <sup>(-)</sup> (4 <sup>+</sup> )				
2505.8	(2)	1364.6 819.7 2040.7	100 3.9 4 100	1128.0 1686.2 464.83	4 <sup>+</sup> 2 <sup>+</sup> 2 <sup>+</sup>	(M1+E2) D+Q	+0.40 5 -0.11 3	0.00122 1	
2567.7	(3 <sup>-</sup> )	192.9 254.8 279.3 347.1 498.8	15 2 0.5 2 1.0 2 0.8 2 7 1	2374.8 2312.8 2288.4 2220.5 2069.0	3 <sup>-</sup> 5 <sup>(-)</sup> (2 <sup>+</sup> ,3,4 <sup>+</sup> ) (3 <sup>-</sup> ) 3 <sup>-</sup>	M1+E2		0.0117 18	α(K)=0.0099 16; α(L)=0.00137 11; α(M)=0.00028 2 -1.03≤δ≤-0.08. Eγ=498.79 3, Iγ=0.70 6.

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$\gamma(^{132}\text{Ba})$ (continued)											
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^{\ddagger\#}$	$E_f$	$J_f^\pi$	Mult. <sup>‡</sup>	$\delta^\ddagger$	$\alpha^a$	Comments		
2567.7	(3) <sup>-</sup>	520.7	0.4 1	2046.9	(4 <sup>+</sup> )				E $\gamma$ =540.363 23, I $\gamma$ =10.1 7. $\alpha$ =0.00254 18; $\alpha$ (K)=0.00218 15; $\alpha$ (L)=0.00027 2 (569.1 $\gamma$ )(1533.6 $\gamma$ )( $\theta$ ): R(90°/180°)=1.05 6. (569.1 $\gamma$ )(1998.3 $\gamma$ )( $\theta$ ): R(90°/180°)=1.23 13. $\alpha$ =0.00208 10; $\alpha$ (K)=0.00178 8; $\alpha$ (L)=0.00022 1 (623.0 $\gamma$ )(912.7 $\gamma$ )( $\theta$ ): R(90°/180°)=1.7 4. E $\gamma$ =623.03 3, I $\gamma$ =0.34 3. (837.9 $\gamma$ )(601.7 $\gamma$ )( $\theta$ ): R(90°/180°)=0.74 16. E $\gamma$ =838.68 24, I $\gamma$ =0.13 3. E $\gamma$ =881.565 25, I $\gamma$ =1.23 8; may be misprint in <a href="#">1996Ku01</a> . E $\gamma$ =1439.80 5, I $\gamma$ =0.37 4. (2102.8 $\gamma$ )(464.5 $\gamma$ )( $\theta$ ): R(90°/180°)=1.19 5. E $\gamma$ =2102.84 5, I $\gamma$ =7.7 5.		
		540.4	100	2027.3	4 <sup>-</sup>						
		569.1	10 2	1998.5	2 <sup>+</sup>	(E1+M2)	-0.06 4	0.00254 18			
		623.0	3 1	1944.7	(4 <sup>+</sup> )	(E1+M2)	+0.06 3	0.00208 10			
		837.9	1.1 4	1729.8	4 <sup>+</sup>						
		881.6	11 1	1686.2	2 <sup>+</sup>						
		1439.7	3.2 3	1128.0	4 <sup>+</sup>						
		2102.8	67 4	464.83	2 <sup>+</sup>	(E1+M2)	-0.02 1				
		2609.9	(5) <sup>-</sup>	117.2	1.1 3	2492.7	(4 <sup>+</sup> )				(126.6 $\gamma$ )(242.3 $\gamma$ )( $\theta$ ): R(90°/180°)=0.98 12. (126.6 $\gamma$ )(363.3 $\gamma$ )( $\theta$ ): R(90°/180°)=1.13 10. (126.6 $\gamma$ )(551.1 $\gamma$ )( $\theta$ ): R(90°/180°)=0.9 3. (252.0 $\gamma$ )(131.7 $\gamma$ )( $\theta$ ): R(90°/180°)=1.20 23. (252.0 $\gamma$ )(330.5 $\gamma$ )( $\theta$ ): R(90°/180°)=0.85 10. E $\gamma$ =383.28 11, I $\gamma$ =0.55 8. (490.0 $\gamma$ )(175.2 $\gamma$ )( $\theta$ ): R(90°/180°)=1.05 12. (490.0 $\gamma$ )(187.6 $\gamma$ )( $\theta$ ): R(90°/180°)=1.20 13. (490.0 $\gamma$ )(390.2 $\gamma$ )( $\theta$ ): R(90°/180°)=1.15 5. (490.0 $\gamma$ )(991.9 $\gamma$ )( $\theta$ ): R(90°/180°)=1.12 7. (318.8 $\gamma$ )(1909.8 $\gamma$ )( $\theta$ ): R(90°/180°)=0.84 22. (573.7 $\gamma$ )(991.9 $\gamma$ )( $\theta$ ): R(90°/180°)=0.87 13. (573.7 $\gamma$ )(390.2 $\gamma$ )( $\theta$ ): R(90°/180°)=1.04 13. E $\gamma$ =573.64 19, I $\gamma$ =0.20 4.
				126.6	3.6 4	2483.3	(7) <sup>-</sup>				
252.0	24 2			2357.8	(6) <sup>-</sup>						
297.1	96 3			2312.8	5 <sup>(-)</sup>						
383.7	3 1			2226.1	(5 <sup>+</sup> )						
490.0	100			2119.9	5 <sup>-</sup>						
2693.6	(4,5) <sup>-</sup>	318.8		2374.8	3 <sup>-</sup>			(318.8 $\gamma$ )(1909.8 $\gamma$ )( $\theta$ ): R(90°/180°)=0.84 22. (573.7 $\gamma$ )(991.9 $\gamma$ )( $\theta$ ): R(90°/180°)=0.87 13. (573.7 $\gamma$ )(390.2 $\gamma$ )( $\theta$ ): R(90°/180°)=1.04 13. E $\gamma$ =573.64 19, I $\gamma$ =0.20 4.			
		573.7		2119.9	5 <sup>-</sup>						
2718.4	7 <sup>(-)</sup>	295.2		2423.0	6 <sup>(-)</sup>			E $\gamma$ =360.66 12, I $\gamma$ =0.26 8.			
		360.7		2357.8	6 <sup>-</sup>						
		598.7		2119.9	5 <sup>-</sup>						
2772.7	(4 <sup>-</sup> ,6 <sup>-</sup> )	349.7		2423.0	6 <sup>(-)</sup>			(349.7 $\gamma$ )(395.6 $\gamma$ )( $\theta$ ): R(90°/180°)=1.2 4. (652.8 $\gamma$ )(390.2 $\gamma$ )( $\theta$ ): R(90°/180°)=0.67 7. (652.8 $\gamma$ )(991.9 $\gamma$ )( $\theta$ ): R(90°/180°)=0.80 14.			
		652.8		2119.9	5 <sup>-</sup>						
2791.8	(5) <sup>-</sup>	98.2		2693.6	(4,5) <sup>-</sup>			(368.8 $\gamma$ )(395.6 $\gamma$ )( $\theta$ ): R(90°/180°)=1.3 3. (671.8 $\gamma$ )(390.2 $\gamma$ )( $\theta$ ): R(90°/180°)=1.15 28. (671.8 $\gamma$ )(991.9 $\gamma$ )( $\theta$ ): R(90°/180°)=0.84 20.			
		368.8		2423.0	6 <sup>(-)</sup>						
		671.8		2119.9	5 <sup>-</sup>						
2856.3	(2) <sup>-</sup>	764.4		2027.3	4 <sup>-</sup>			(1664.1 $\gamma$ )(663.1 $\gamma$ )( $\theta$ ): R(90°/180°)=0.99 23.			
		1664.1		1128.0	4 <sup>+</sup>						
		350.4	≤2	2505.8	(2)						

γ(<sup>132</sup>Ba) (continued)

<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>†#</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>‡</sup></u>	<u>δ<sup>‡</sup></u>	<u>Comments</u>						
2856.3	(2) <sup>-</sup>	403.1	8 2	2453.4	(1) <sup>-</sup>			(787.4γ)(1604.0γ)(θ): R(90°/180°)=0.55 16.						
		787.4	4 1	2069.0	3 <sup>-</sup>			Eγ=787.4 3, Iγ=0.032 10.						
		1170.1	≤5	1686.2	2 <sup>+</sup>			Eγ=1169.83 19, Iγ=0.081 18.						
		1824.1	67 7	1032.1	2 <sup>+</sup>			(1824.1γ)(1031.7γ)(θ): R(90°/180°)=0.81 8.						
2876.9	(1) <sup>+</sup>	423.6	13 3	2453.4	(1) <sup>-</sup>			Eγ=1824.08 4, Iγ=0.72 5.						
								2391.4	100	464.83	2 <sup>+</sup>			(2391.4γ)(464.5γ)(θ): R(90°/180°)=0.73 4.
								1190.6	≤10	1686.2	2 <sup>+</sup>			Eγ=2391.35 6, Iγ=1.27 9.
								1372.7	13 3	1504.0	0 <sup>+</sup>			(423.6γ)(2453.0γ)(θ): R(90°/180°)=2.1 7.
2928.2	(3) <sup>-</sup>	360.4	10 3	2567.7	(3) <sup>-</sup>			Eγ=422.77 22, Iγ=0.067 21.						
								475.0		1032.1	2 <sup>+</sup>	D(+Q)	+0.02 13	(1190.6γ)(1221.2γ)(θ): R(90°/180°)=0.82 17.
								553.4		2374.8	3 <sup>-</sup>			Eγ=1191.83 13, Iγ=0.142 21.
								808.2		2119.9	5 <sup>-</sup>			(1372.7γ)(472.0γ)(θ): R(90°/180°)=0.86 27.
								859.3		2069.0	3 <sup>-</sup>	(M1+E2)	-0.05 2	(1844.9γ)(1031.7γ)(θ): R(90°/180°)=1.9 4.
								929.7		1998.5	2 <sup>+</sup>			Eγ=1844.83 9, Iγ=0.188 19.
								1198.4		1729.8	4 <sup>+</sup>			(2412.1γ)(464.5γ)(θ): R(90°/180°)=1.52 13.
								1242.1		1686.2	2 <sup>+</sup>			Eγ=2411.927, Iγ=0.61.
								1416.7		1511.4	3 <sup>+</sup>			Eγ=360.66 12, Iγ=0.26 8.
								1800.2		1128.0	4 <sup>+</sup>			(475.0γ)(2453.0γ)(θ): R(90°/180°)=1.1 4.
2946.6	(5) <sup>-</sup>	453.9		2492.7	(4) <sup>+</sup>			Eγ=474.65 13, Iγ=0.117 22.						
								523.7		2423.0	6 <sup>(-)</sup>			Eγ=553.43 4, Iγ=0.265 23.
								588.7		2357.8	(6) <sup>-</sup>			Eγ=808.29 6, Iγ=0.145 15.
2981.4	(1,2) <sup>+</sup>	542.0		2439.3	(2 <sup>+</sup> to 6 <sup>+</sup> )			-1.84≤δ≤+0.3.						
								1295.3		1686.2	2 <sup>+</sup>			Eγ=859.31 4, Iγ=0.35 3.

γ(<sup>132</sup>Ba) (continued)

E <sub>i</sub> (level)	J <sup>π</sup> <sub>i</sub>	E <sub>γ</sub> <sup>†</sup>	E <sub>f</sub>	J <sup>π</sup> <sub>f</sub>	Comments
2981.4	(1,2 <sup>+</sup> )	1477.3	1504.0	0 <sup>+</sup>	
2982.1		2517.2	464.83	2 <sup>+</sup>	Eγ=2516.80 17, Iγ=0.12 3.
3018.8	(6 <sup>-</sup> )	246.2	2772.7	(4 <sup>-</sup> ,6 <sup>-</sup> )	
		408.9	2609.9	(5 <sup>-</sup> )	(408.9γ)(252.0γ)(θ): R(90°/180°)=2.2 9. (408.9γ)(490.0γ)(θ): R(90°/180°)=1.5 3.
		535.6	2483.3	(7 <sup>-</sup> )	(535.6γ)(363.3γ)(θ): R(90°/180°)=0.52 11. Eγ=534.6 3, Iγ=0.11 3.
3021.7	(1,2 <sup>+</sup> ,3)	1335.5	1686.2	2 <sup>+</sup>	Eγ=1335.95 24, Iγ=0.050 12.
		2556.9	464.83	2 <sup>+</sup>	(2556.9γ)(464.5γ)(θ): R(90°/180°)=1.27 13. Eγ=2556.65 7, Iγ=0.38 3.
3069.2	(1 <sup>+</sup> ,2 <sup>+</sup> ,3,4 <sup>+</sup> )	848.70	2220.5	(3 <sup>-</sup> )	Eγ=847.4 3, Iγ=0.039 13.
		1382.9	1686.2	2 <sup>+</sup>	
		2604.4	464.83	2 <sup>+</sup>	(2604.4γ)(464.5γ)(θ): R(90°/180°)=1.05 15. Eγ=2604.43 16, Iγ=0.135 17.
3083.3		2618.4	464.83	2 <sup>+</sup>	
3158.7	(1) <sup>-</sup>	1472.5	1686.2	2 <sup>+</sup>	
		1498.0	1660.7	0 <sup>+</sup>	
		2693.9	464.83	2 <sup>+</sup>	Eγ=2693.36 7, Iγ=0.51 3.
3196.8		2731.9	464.83	2 <sup>+</sup>	
3217.5		1272.8	1944.7	(4 <sup>+</sup> )	
3219.7	(2 <sup>+</sup> )	342.7	2876.9	(1 <sup>+</sup> )	(342.7γ)(2412.1γ)(θ): R(90°/180°)=0.38 14.
		766.3	2453.4	(1 <sup>-</sup> )	(766.3γ)(2453.0γ)(θ): R(90°/180°)=0.34 12. Eγ=767.7 4, Iγ=0.034 22.
		1150.7	2069.0	3 <sup>-</sup>	(1150.7γ)(1604.0γ)(θ): R(90°/180°)=0.73 12. Eγ=1149.91 15, Iγ=0.12 3.
		1172.9	2046.8	(2 <sup>+</sup> )	Eγ=1173.12 8, Iγ=0.158 19.
		1533.7	1686.2	2 <sup>+</sup>	(1533.7γ)(1533.6γ)(θ): R(90°/180°)=0.57 15. Eγ=1533.66 4, Iγ=1.94 12.
		2187.6	1032.1	2 <sup>+</sup>	(2187.6γ)(1031.7γ)(θ): R(90°/180°)=0.66 14. Eγ=2187.55 10, Iγ=0.197 25.
		2755.1	464.83	2 <sup>+</sup>	(2755.1γ)(464.5γ)(θ): R(90°/180°)=0.80 5. Eγ=2754.73 5, Iγ=2.10 13.
3229.7	(6 <sup>+</sup> )	437.9	2791.8	(5 <sup>-</sup> )	
		737.0	2492.7	(4 <sup>+</sup> )	
		746.5	2483.3	(7 <sup>-</sup> )	
3327.4	(4,5 <sup>-</sup> )	834.6	2492.7	(4 <sup>+</sup> )	
		888.0	2439.3	(2 <sup>+</sup> to 6 <sup>+</sup> )	Eγ=887.75 15, Iγ=0.122.
		1207.7	2119.9	5 <sup>-</sup>	Eγ=1208.5 6, Iγ=0.30 3.
3336.7	(3 <sup>-</sup> ,5 <sup>-</sup> )	1289.8	2046.9	(4 <sup>+</sup> )	
		1309.4	2027.3	4 <sup>-</sup>	Eγ=1309.61 14, Iγ=0.25 4.
3363.63	(1,2 <sup>+</sup> )	1859.9	1504.0	0 <sup>+</sup>	Eγ=1860.3 3, Iγ=0.065 20.
		3363.58 &b 14	0.0	0 <sup>+</sup>	Iγ=0.228 20.
3381.8		1695.5	1686.2	2 <sup>+</sup>	

γ(<sup>132</sup>Ba) (continued)

<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>γ</sub><sup>†</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.<sup>‡</sup></u>	<u>δ<sup>‡</sup></u>	<u>Comments</u>
3381.8		2917.1	464.83	2 <sup>+</sup>			Eγ=2916.1 4, Iγ=0.048 14.
3424.2	(3) <sup>-</sup>	856.5	2567.7	(3) <sup>-</sup>			Eγ=856.41 8, Iγ=0.131 21.
		918.3	2505.8	(2)			Eγ=918.68 9, Iγ=0.26 3.
		931.7	2492.7	(4 <sup>+</sup> )			
		1355.1	2069.0	3 <sup>-</sup>			Eγ=1355.04 9, Iγ=0.118 16.
		1396.8	2027.3	4 <sup>-</sup>			Eγ=1396.99 6, Iγ=0.242 23.
		1738.0	1686.2	2 <sup>+</sup>			Eγ=1737.99 16, Iγ=0.094 19.
		2296.2	1128.0	4 <sup>+</sup>			Eγ=2296.18 10, Iγ=0.167 17.
		2959.7	464.83	2 <sup>+</sup>	E1(+M2)	-0.02 3	Eγ=2959.49 9, Iγ=1.24 9.
3434.8		995.5	2439.3	(2 <sup>+</sup> to 6 <sup>+</sup> )			Eγ=994.40 6, Iγ=0.22 2.
		1365.8	2069.0	3 <sup>-</sup>			
		1436.1	1998.5	2 <sup>+</sup>			
3461.5	(1,2 <sup>+</sup> )	1775.2	1686.2	2 <sup>+</sup>			
		1957.5	1504.0	0 <sup>+</sup>			
		3461.5 & b 5	0.0	0 <sup>+</sup>			Iγ=0.016 6.
3495.4	(3,4 <sup>+</sup> )	1809.4	1686.2	2 <sup>+</sup>			
		1983.9	1511.4	3 <sup>+</sup>			Eγ=1984.0 3, Iγ=0.051 13.
		2367.2	1128.0	4 <sup>+</sup>			Eγ=2367.08 7, Iγ=0.286 23.
		2463.2	1032.1	2 <sup>+</sup>			Eγ=2463.22 8, Iγ=1.15 7.
		3030.8	464.83	2 <sup>+</sup>			Eγ=3030.80 10, Iγ=0.205 17.
3527.7		3062.1	464.83	2 <sup>+</sup>			Eγ=3062.2 3, Iγ=0.047 11.
		3527.8 & b 5	0.0	0 <sup>+</sup>			Iγ=0.014 4.
3562.2		685.3	2876.9	(1 <sup>+</sup> )			
		994.5	2567.7	(3) <sup>-</sup>			Eγ=994.40 6, Iγ=0.23 3.
		1187.4	2374.8	3 <sup>-</sup>			
3562.8	(1,2 <sup>+</sup> )	1109.2	2453.4	(1 <sup>-</sup> )			Eγ=1110.4 3, Iγ=0.069 21.
		1493.7	2069.0	3 <sup>-</sup>			
		1516.2	2046.8	(2 <sup>+</sup> )			Eγ=1516.6 3, Iγ≥0.050.
		1564.3	1998.5	2 <sup>+</sup>			Eγ=1565.4 3, Iγ=0.065 25.
		1876.8	1686.2	2 <sup>+</sup>			Eγ=1876.67 9, Iγ=0.32 3.
		2058.7	1504.0	0 <sup>+</sup>			Eγ=2058.9 4, Iγ=0.035 12.
3563.22	(1,2 <sup>+</sup> )	1902.9	1660.7	0 <sup>+</sup>			
		3098.8	464.83	2 <sup>+</sup>			Eγ=3098.45 7, Iγ=0.64 4.
		3563.12 23	0.0	0 <sup>+</sup>			E <sub>γ</sub> : from <a href="#">1975WiZJ</a> only. Iγ=0.046 6.
3591.7		1138.5	2453.4	(1 <sup>-</sup> )			Eγ=1138.9 4, Iγ=0.028 11.
		1522.6	2069.0	3 <sup>-</sup>			Eγ=1522.6 3, Iγ=0.045 15.
							<a href="#">Additional information 3.</a>
3607.9	(1,2 <sup>+</sup> )	731.0	2876.9	(1 <sup>+</sup> )			Eγ=731.04 20, Iγ=0.027 9.
		1102.0	2505.8	(2)			Eγ=1102.20 10, Iγ=0.095 15.
		1921.7	1686.2	2 <sup>+</sup>			Eγ=1921.44 9, Iγ=0.70 5.
		1947.1	1660.7	0 <sup>+</sup>			
		2103.8	1504.0	0 <sup>+</sup>			Eγ=2102.84 5, Iγ=7.7 5.

γ(<sup>132</sup>Ba) (continued)

E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>γ</sub> <sup>†</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Mult. <sup>‡</sup>	δ <sup>‡</sup>	Comments
3607.9	(1,2 <sup>+</sup> )	2575.9	1032.1	2 <sup>+</sup>			E <sub>γ</sub> =2576.32 9, I <sub>γ</sub> =0.222 22.
3608.08		3143.6	464.83	2 <sup>+</sup>			E <sub>γ</sub> =3143.23 15, I <sub>γ</sub> =0.092 12.
		3608.02 <sup>&amp;b</sup> 17	0.0	0 <sup>+</sup>			I <sub>γ</sub> =0.151 12.
3617.7		3152.8	464.83	2 <sup>+</sup>			E <sub>γ</sub> =3151.9 2, I <sub>γ</sub> =0.079 11.
3635.64	1 <sup>-</sup>	1949.5	1686.2	2 <sup>+</sup>			E <sub>γ</sub> =1948.70 10, I <sub>γ</sub> =0.19 3.
		1974.5	1660.7	0 <sup>+</sup>			
		2131.2	1504.0	0 <sup>+</sup>			E <sub>γ</sub> =2131.84 19, I <sub>γ</sub> =0.14 3.
		3171.2	464.83	2 <sup>+</sup>	(E1(+M2))	-0.01 4	E <sub>γ</sub> =3170.62 9, I <sub>γ</sub> =0.36 3.
		3635.60 19	0.0	0 <sup>+</sup>			E <sub>γ</sub> : from <a href="#">1975WiZJ</a> only.
							I <sub>γ</sub> =0.044 4.
3664.7	(1 <sup>-</sup> ,2 <sup>-</sup> ,3 <sup>-</sup> )	1096.4	2567.7	(3) <sup>-</sup>			E <sub>γ</sub> =1096.15 24, I <sub>γ</sub> =0.042 14.
		1210.7	2453.4	(1) <sup>-</sup>			E <sub>γ</sub> =1211.11 9, I <sub>γ</sub> =0.151 20.
		1617.3	2046.8	(2) <sup>+</sup>			E <sub>γ</sub> =1617.06 21, I <sub>γ</sub> =0.067 15.
		1977.7	1686.2	2 <sup>+</sup>			E <sub>γ</sub> =1977.31 19, I <sub>γ</sub> =0.11 19.
		2632.2	1032.1	2 <sup>+</sup>			δ(E2/M1)=-0.56 8 ( <a href="#">2002Ga01</a> ) for J <sup>π</sup> =1 <sup>+</sup> for 3664.7 level. But 1 <sup>+</sup> is inconsistent with mult=E1 for 3199.8γ from ce data.
		3199.8	464.83	2 <sup>+</sup>			E <sub>γ</sub> =2631.63 7, I <sub>γ</sub> =0.315 22.
		3665.5 <sup>b</sup> 5	0.0	0 <sup>+</sup>			E <sub>γ</sub> =3199.04 7, I <sub>γ</sub> =0.94 6.
							E <sub>γ</sub> : level-energy difference=3663.9.
							E <sub>γ</sub> : from <a href="#">1975WiZJ</a> only.
							I <sub>γ</sub> =0.017 4.
3672.5		1603.5	2069.0	3 <sup>-</sup>			E <sub>γ</sub> =1604.03 3, I <sub>γ</sub> =4.8 3.
		3207.7	464.83	2 <sup>+</sup>			E <sub>γ</sub> =3207.15 18, I <sub>γ</sub> =0.096 13.
3717.0		840.2	2876.9	(1) <sup>+</sup>			
		1149.2	2567.7	(3) <sup>-</sup>			E <sub>γ</sub> =1149.91 15, I <sub>γ</sub> =0.12 3.
		1211.2	2505.8	(2)			E <sub>γ</sub> =1211.11 9, I <sub>γ</sub> =0.151 20.
		1428.5	2288.4	(2 <sup>+</sup> ,3,4 <sup>+</sup> )			E <sub>γ</sub> =1428.2 4, I <sub>γ</sub> =0.037 16.
		1647.9	2069.0	3 <sup>-</sup>			E <sub>γ</sub> =1647.98 8, I <sub>γ</sub> =0.206 18.
		2030.7	1686.2	2 <sup>+</sup>			E <sub>γ</sub> =2030.4 3, I <sub>γ</sub> =0.042 10.
3718.5		2685.7	1032.1	2 <sup>+</sup>			E <sub>γ</sub> =2685.54 21, I <sub>γ</sub> =0.086 14.
		3253.0	464.83	2 <sup>+</sup>			E <sub>γ</sub> =3252.1 12, I <sub>γ</sub> =0.154 14.
		3718.7 <sup>&amp;b</sup> 4	0.0	0 <sup>+</sup>			I <sub>γ</sub> =0.014 3.
3734.5	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	1665.4	2069.0	3 <sup>-</sup>			
		2048.4	1686.2	2 <sup>+</sup>			E <sub>γ</sub> =2049.7 4, I <sub>γ</sub> =0.09 3.
		2606.6	1128.0	4 <sup>+</sup>			
3735.8		3270.9	464.83	2 <sup>+</sup>			E <sub>γ</sub> =3269.89 16, I <sub>γ</sub> =0.151 16.
3753.8	(2,3 <sup>-</sup> )	877.1	2876.9	(1) <sup>+</sup>			
		1300.6	2453.4	(1) <sup>-</sup>			E <sub>γ</sub> =1300.57 25, I <sub>γ</sub> =0.040 11.
		1684.6	2069.0	3 <sup>-</sup>			E <sub>γ</sub> =1684.81 16, I <sub>γ</sub> =0.19 3.
		1755.2	1998.5	2 <sup>+</sup>			E <sub>γ</sub> =1755.51 7, I <sub>γ</sub> =0.30 3.
		2242.4	1511.4	3 <sup>+</sup>			E <sub>γ</sub> =2242.46 22, I <sub>γ</sub> =0.118 21.
3768.6	(2,3)	1699.5	2069.0	3 <sup>-</sup>			E <sub>γ</sub> =1699.37 17, I <sub>γ</sub> =0.065 13.
		2082.5	1686.2	2 <sup>+</sup>			E <sub>γ</sub> =2082.39 11, I <sub>γ</sub> =0.149 16.

γ(<sup>132</sup>Ba) (continued)

E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>γ</sub> <sup>†</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Comments
3768.6	(2,3)	2257.2	1511.4	3 <sup>+</sup>	E <sub>γ</sub> =2257.0 6, I <sub>γ</sub> =0.022 11. <a href="#">Additional information 4.</a>
3769.5		3304.6	464.83	2 <sup>+</sup>	E <sub>γ</sub> =3303.48 16, I <sub>γ</sub> =0.102 11.
3773.7	(1,2 <sup>+</sup> )	2087.0	1686.2	2 <sup>+</sup>	E <sub>γ</sub> =2089.1 3, I <sub>γ</sub> =0.041 12.
		2112.9	1660.7	0 <sup>+</sup>	
		2270.3	1504.0	0 <sup>+</sup>	E <sub>γ</sub> : level-energy difference=2269.7. E <sub>γ</sub> =2269.7 6, I <sub>γ</sub> =0.021 10. <a href="#">Additional information 5.</a>
3775.84	(2 <sup>+</sup> )	919.7	2856.3	(2) <sup>-</sup>	E <sub>γ</sub> =918.68 10, I <sub>γ</sub> =0.26 3.
		1208.3	2567.7	(3) <sup>-</sup>	E <sub>γ</sub> =1208.48 6, I <sub>γ</sub> =0.30 3.
		1487.6	2288.4	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	
		1555.5	2220.5	(3) <sup>-</sup>	E <sub>γ</sub> =1555.59 15, I <sub>γ</sub> =0.104 21.
		1707.0	2069.0	3 <sup>-</sup>	E <sub>γ</sub> =1706.47 17, I <sub>γ</sub> =0.115 16.
		2265.0	1511.4	3 <sup>+</sup>	E <sub>γ</sub> =2264.6 4, I <sub>γ</sub> =0.037 10.
		2744.4	1032.1	2 <sup>+</sup>	E <sub>γ</sub> =2743.83 10, I <sub>γ</sub> =0.199 18.
		3311.1	464.83	2 <sup>+</sup>	E <sub>γ</sub> =3309.82 16, I <sub>γ</sub> =0.087 9.
		3775.6 3	0.0	0 <sup>+</sup>	E <sub>γ</sub> : from <a href="#">1975WiZJ</a> only. I <sub>γ</sub> =0.064 6.
3788.1		3323.2	464.83	2 <sup>+</sup>	E <sub>γ</sub> =3322.30 19, I <sub>γ</sub> =0.065 8.
3820.6		1751.9	2069.0	3 <sup>-</sup>	
		1773.6	2046.9	(4 <sup>+</sup> )	E <sub>γ</sub> =1773.38 16, I <sub>γ</sub> =0.107 17.
		2134.2	1686.2	2 <sup>+</sup>	
3821.4		3356.5	464.83	2 <sup>+</sup>	E <sub>γ</sub> =3355.41 15, I <sub>γ</sub> =0.30 3.
3835.2	(1,2 <sup>+</sup> )	2148.7	1686.2	2 <sup>+</sup>	E <sub>γ</sub> =2149.0 3, I <sub>γ</sub> =0.051 14.
		2174.5	1660.7	0 <sup>+</sup>	
		2331.4	1504.0	0 <sup>+</sup>	
3850.1		973.1	2876.9	(1 <sup>+</sup> )	E <sub>γ</sub> =974.8 3, I <sub>γ</sub> =0.027 9.
		1282.1	2567.7	(3) <sup>-</sup>	E <sub>γ</sub> =1282.17 7, I <sub>γ</sub> =0.152 15.
		1780.9	2069.0	3 <sup>-</sup>	
		2818.1	1032.1	2 <sup>+</sup>	E <sub>γ</sub> =2817.54 20, I <sub>γ</sub> =0.084 12.
		3385.8	464.83	2 <sup>+</sup>	E <sub>γ</sub> =3385.08 17, I <sub>γ</sub> =0.066 8.
3864.1		1794.9	2069.0	3 <sup>-</sup>	E <sub>γ</sub> =1793.73 21, I <sub>γ</sub> =0.084 21.
		2832.2	1032.1	2 <sup>+</sup>	E <sub>γ</sub> =2831.72 16, I <sub>γ</sub> =0.101 14.
3879.1	(1,2 <sup>+</sup> )	2375.1	1504.0	0 <sup>+</sup>	
3887.7	(3,4 <sup>+</sup> )	1818.9	2069.0	3 <sup>-</sup>	
		1860.4	2027.3	4 <sup>-</sup>	E <sub>γ</sub> =1860.3 3, I <sub>γ</sub> =0.065 20.
		1942.9	1944.7	(4 <sup>+</sup> )	E <sub>γ</sub> =1941.79 17, I <sub>γ</sub> =0.096 18.
		2201.4	1686.2	2 <sup>+</sup>	
3903.8	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	1834.7	2069.0	3 <sup>-</sup>	E <sub>γ</sub> =1835.21 21, I <sub>γ</sub> =0.081 18.
		2217.6	1686.2	2 <sup>+</sup>	
		2775.9	1128.0	4 <sup>+</sup>	E <sub>γ</sub> =2775.35 20, I <sub>γ</sub> =0.066 11.
		2871.6	1032.1	2 <sup>+</sup>	E <sub>γ</sub> =2871.35 9, I <sub>γ</sub> =0.256 19.
3908.0		1838.6	2069.0	3 <sup>-</sup>	E <sub>γ</sub> =1838.9 3, I <sub>γ</sub> =0.054 18.

γ(<sup>132</sup>Ba) (continued)

<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>γ</sub><sup>†</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Comments</u>
3908.0		1861.6	2046.8	(2 <sup>+</sup> )	Eγ=1860.3 3, Iγ=0.065 20.
		2875.9	1032.1	2 <sup>+</sup>	Eγ=2875.67 9, Iγ=0.259 19.
3918.3	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	2231.9	1686.2	2 <sup>+</sup>	
		2790.5	1128.0	4 <sup>+</sup>	Eγ=2789.8 5, Iγ=0.030 10.
3943.7	(0 <sup>+</sup> to 4 <sup>+</sup> )	2911.6	1032.1	2 <sup>+</sup>	
3968.0	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	1399.9	2567.7	(3) <sup>-</sup>	Eγ=1400.39 16, Iγ=0.087 18.
		2281.7	1686.2	2 <sup>+</sup>	Eγ=2281.4 3, Iγ=0.049 14.
		2840.3	1128.0	4 <sup>+</sup>	Eγ=2839.76 20, Iγ=0.092 22.
3974.6	(3,4 <sup>+</sup> )	1947.3	2027.3	4 <sup>-</sup>	
		2029.9	1944.7	(4 <sup>+</sup> )	Eγ=2030.4 3, Iγ=0.042 10.
		2288.4	1686.2	2 <sup>+</sup>	Eγ=2288.93 21, Iγ=0.057 11.
3975.5		2943.4	1032.1	2 <sup>+</sup>	Eγ=2943.2 5, Iγ=0.030 10.
4010.5		2324.3	1686.2	2 <sup>+</sup>	
4028.2	(2 <sup>+</sup> ,3,4 <sup>+</sup> )	1959.4	2069.0	3 <sup>-</sup>	Eγ=1959.2 4, Iγ=0.033 11.
		2342.4	1686.2	2 <sup>+</sup>	Eγ=2342.4 3, Iγ=0.046 12.
		2899.4	1128.0	4 <sup>+</sup>	E <sub>γ</sub> : level-energy difference=2900.1. Eγ=2899.67 16, Iγ=0.096 14.
4090.6		2962.5	1128.0	4 <sup>+</sup>	

<sup>†</sup> From [1996Ku01](#), unless otherwise stated. Corresponding values from [1975WiZJ](#), if reported, are given under comments. [1975WiZJ](#) reported γ rays in the range 305.9-4006.4 keV. It should be pointed out that correspondence between the set of transitions reported by [1996Ku01](#) and [1975WiZJ](#) is not very satisfactory. Some of the gamma rays marked as 'new' by [1996Ku01](#) do exist at matching energy in the tabular data of [1975WiZJ](#).

<sup>‡</sup> From γγ(θ) data of [2002Ga01](#).

<sup>#</sup> As stated by [1996Ku01](#), uncertainties are ≈10% when not given in authors' table 1.

<sup>@</sup> γ from [2002Ga01](#); not seen by [1996Ku01](#).

<sup>&</sup> From [1975WiZJ](#); not reported by [1996Ku01](#). Tentative placement As g.s. transition proposed by the evaluators.

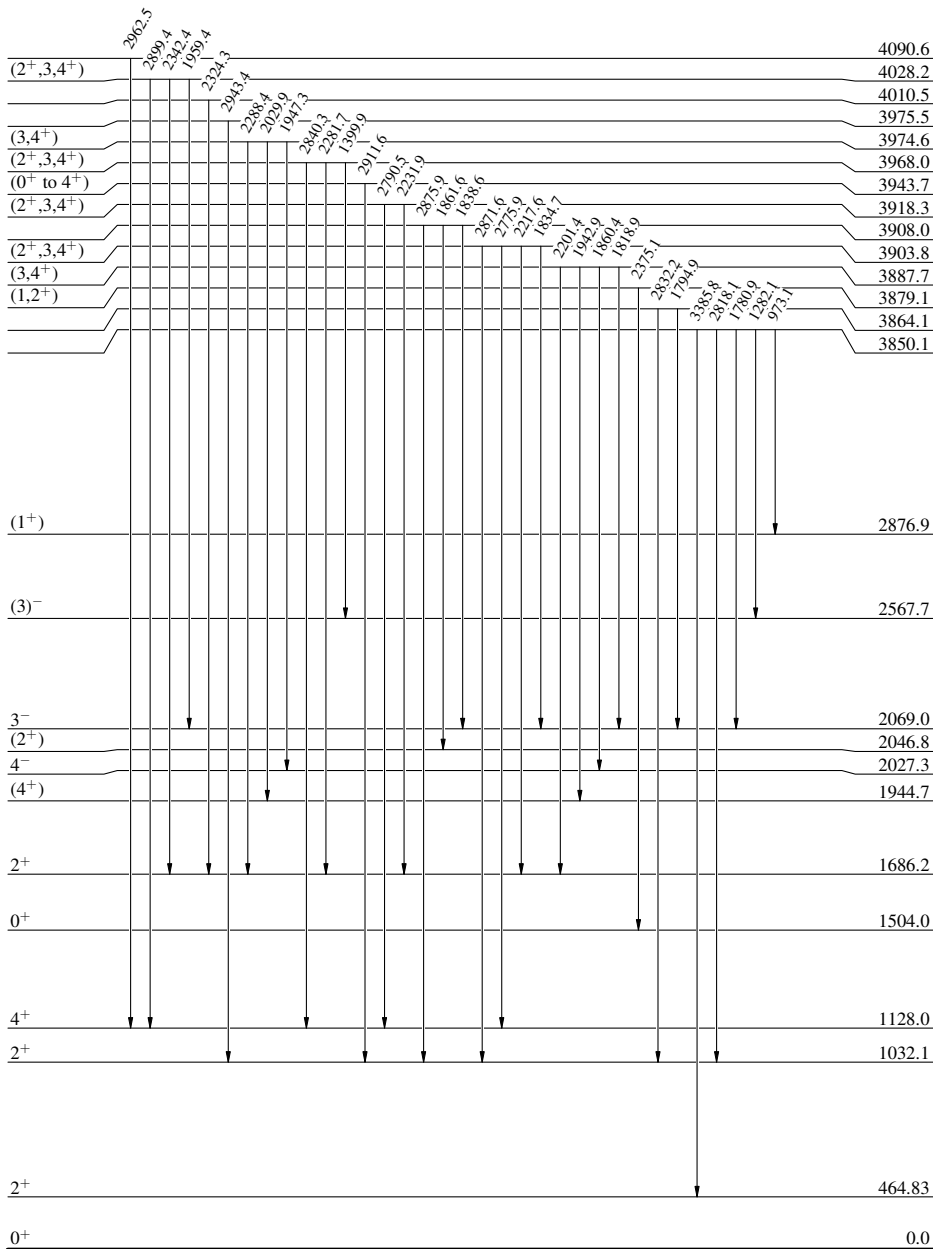
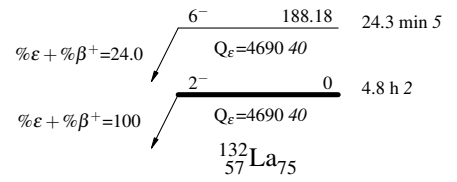
<sup>a</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ-ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

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

$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme

Intensities: Relative photon branching from each level



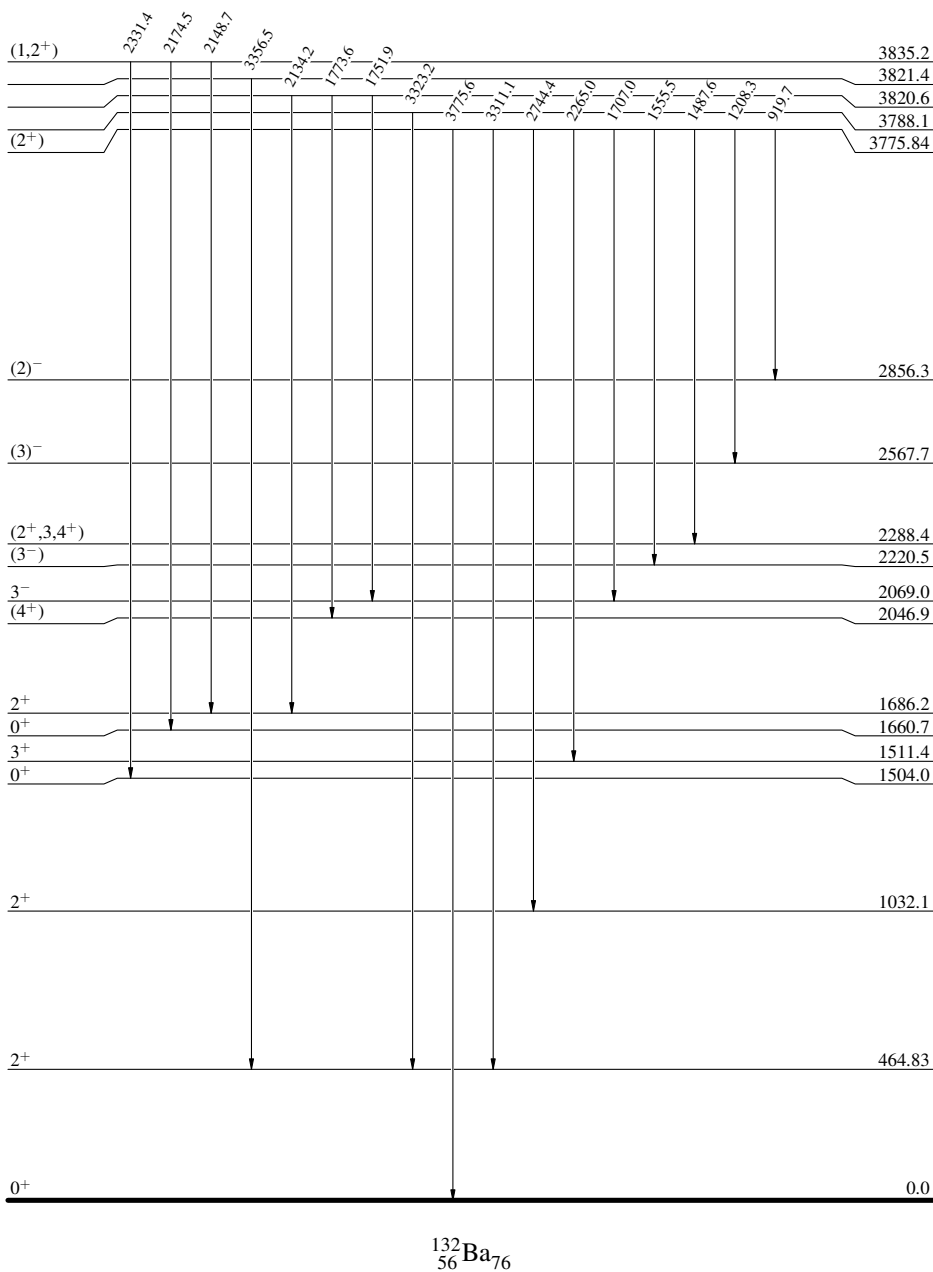
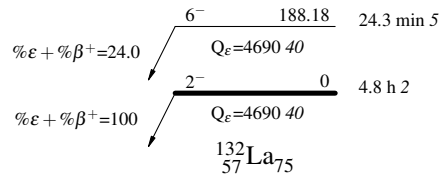
$^{132}_{56}\text{Ba}_{76}$



$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

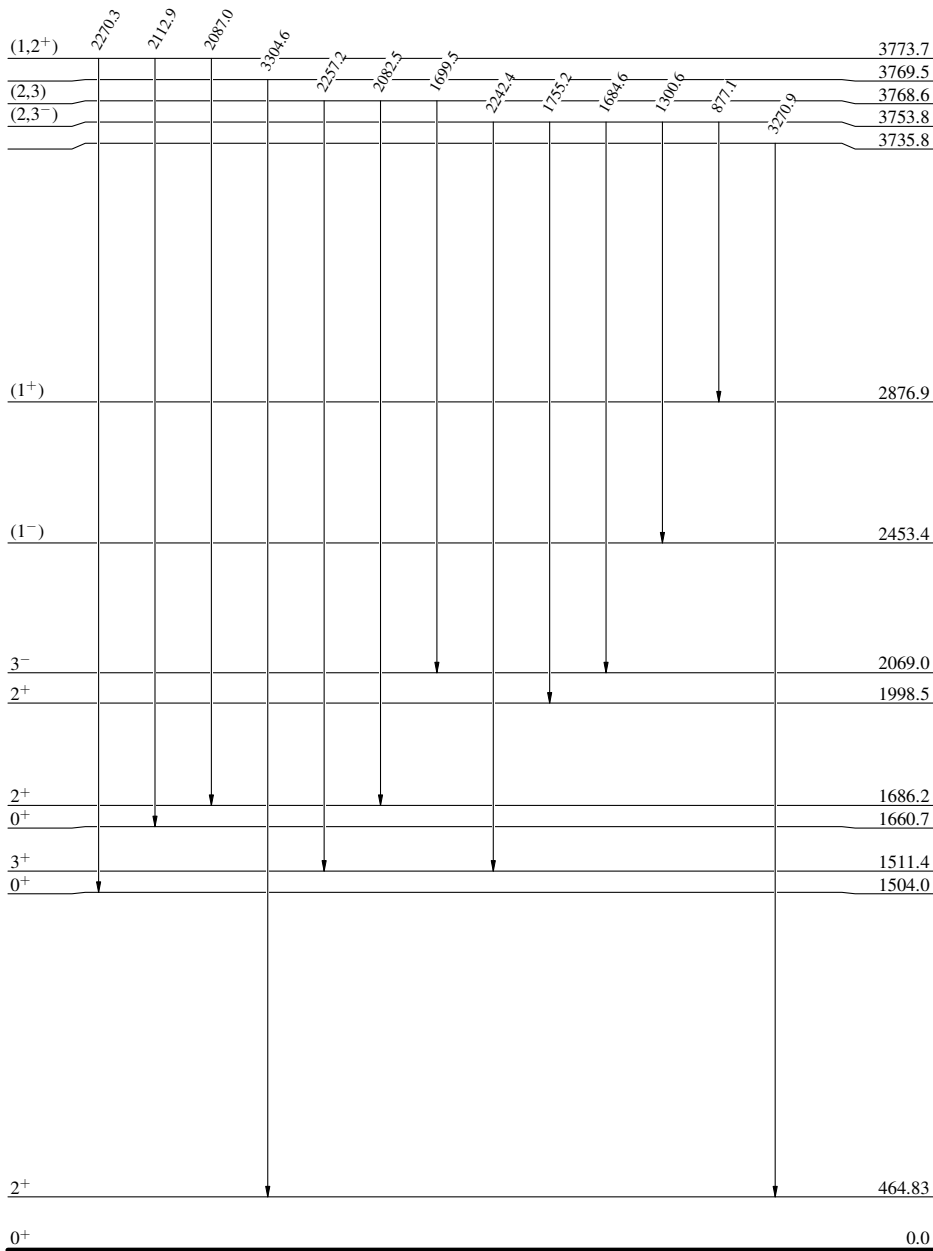
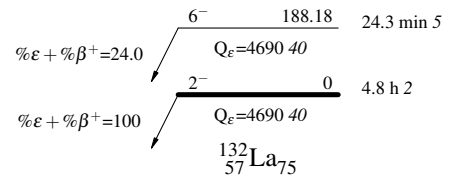
Intensities: Relative photon branching from each level



$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level



$^{132}_{56}\text{Ba}_{76}$

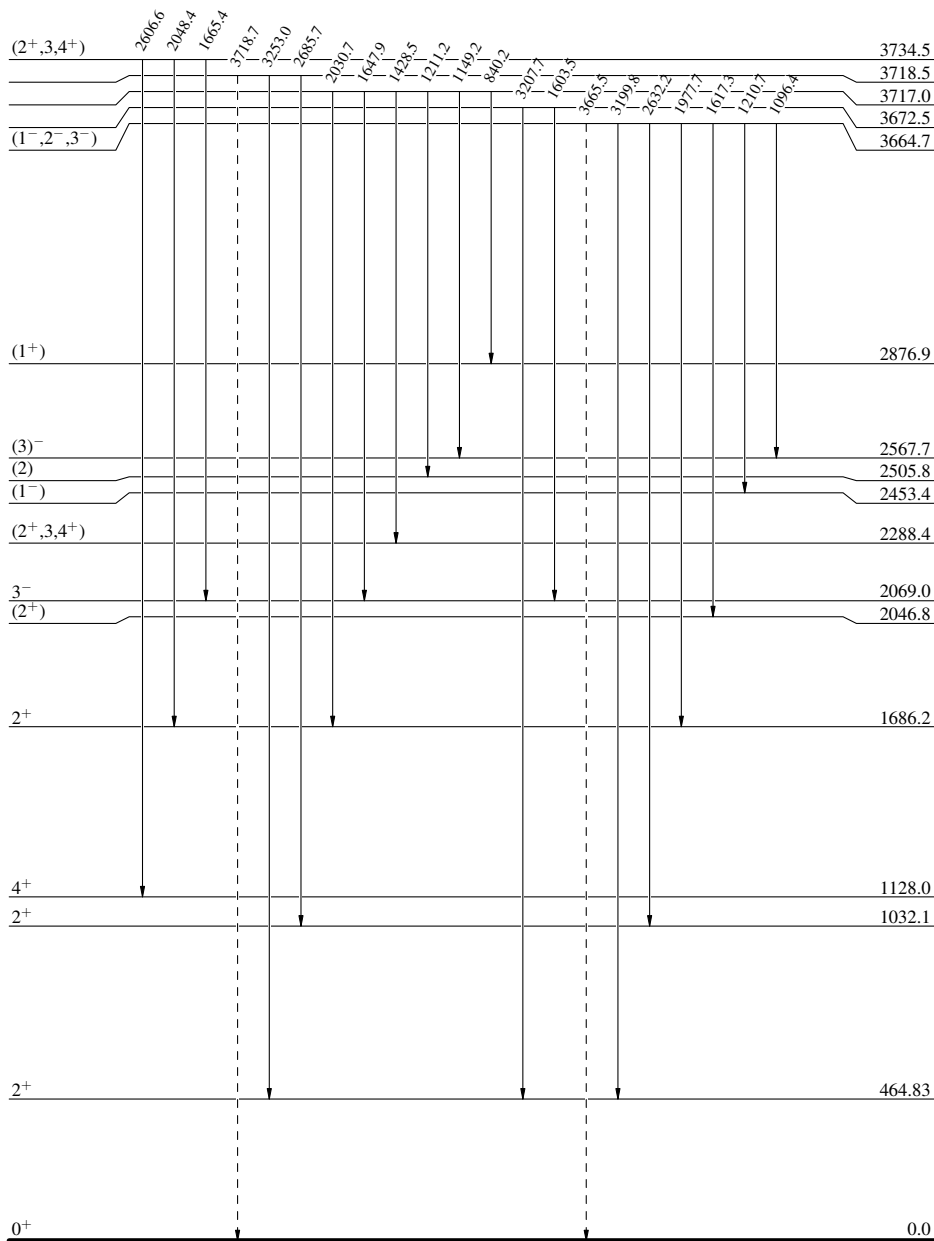
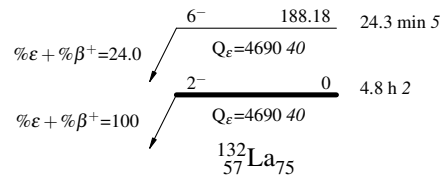
$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

Legend

-----  $\gamma$  Decay (Uncertain)



$^{132}_{56}\text{Ba}_{76}$

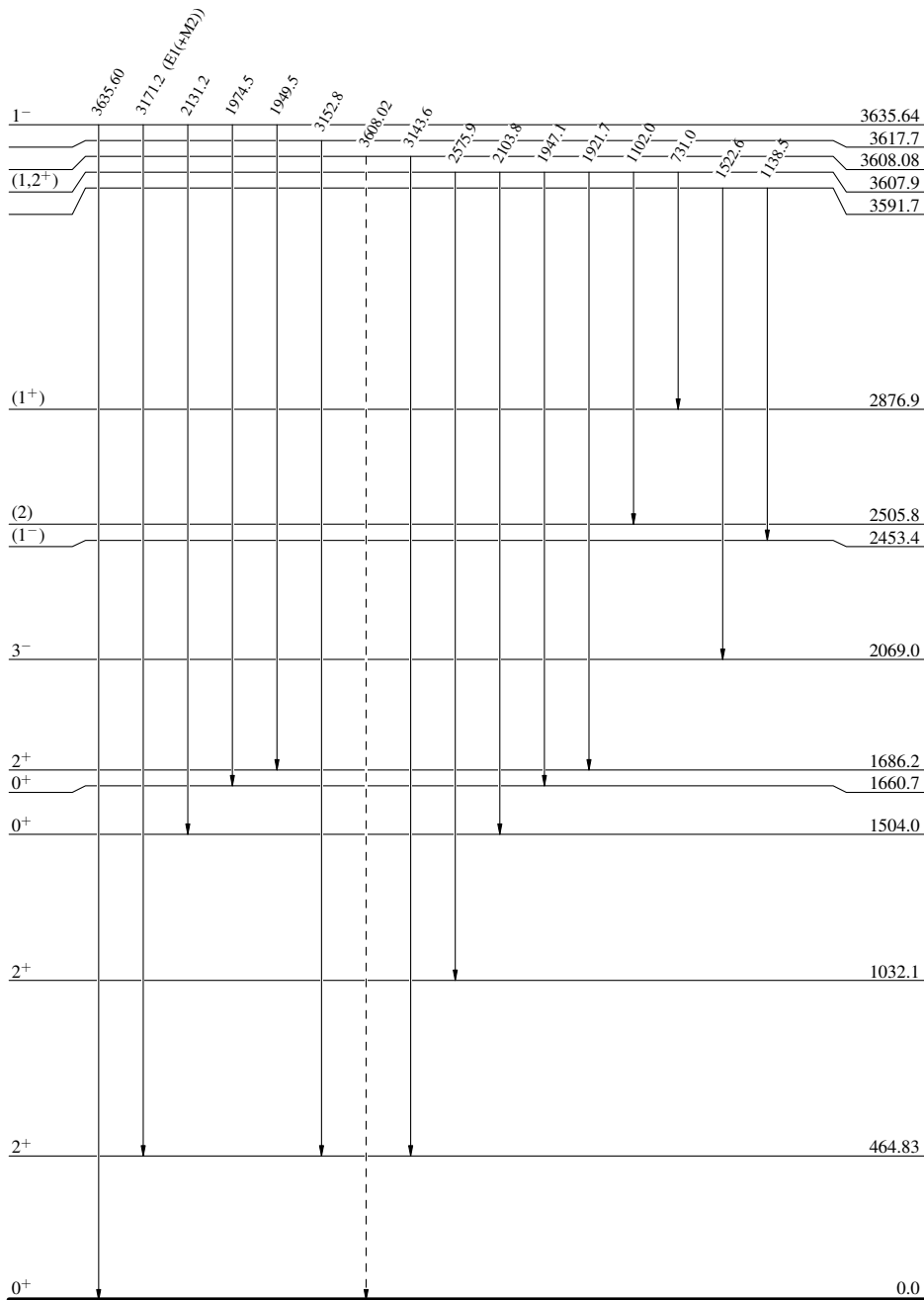
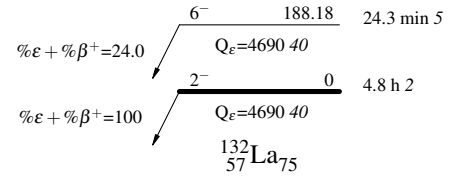
$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

Legend

-----  $\gamma$  Decay (Uncertain)



$^{132}_{56}\text{Ba}_{76}$

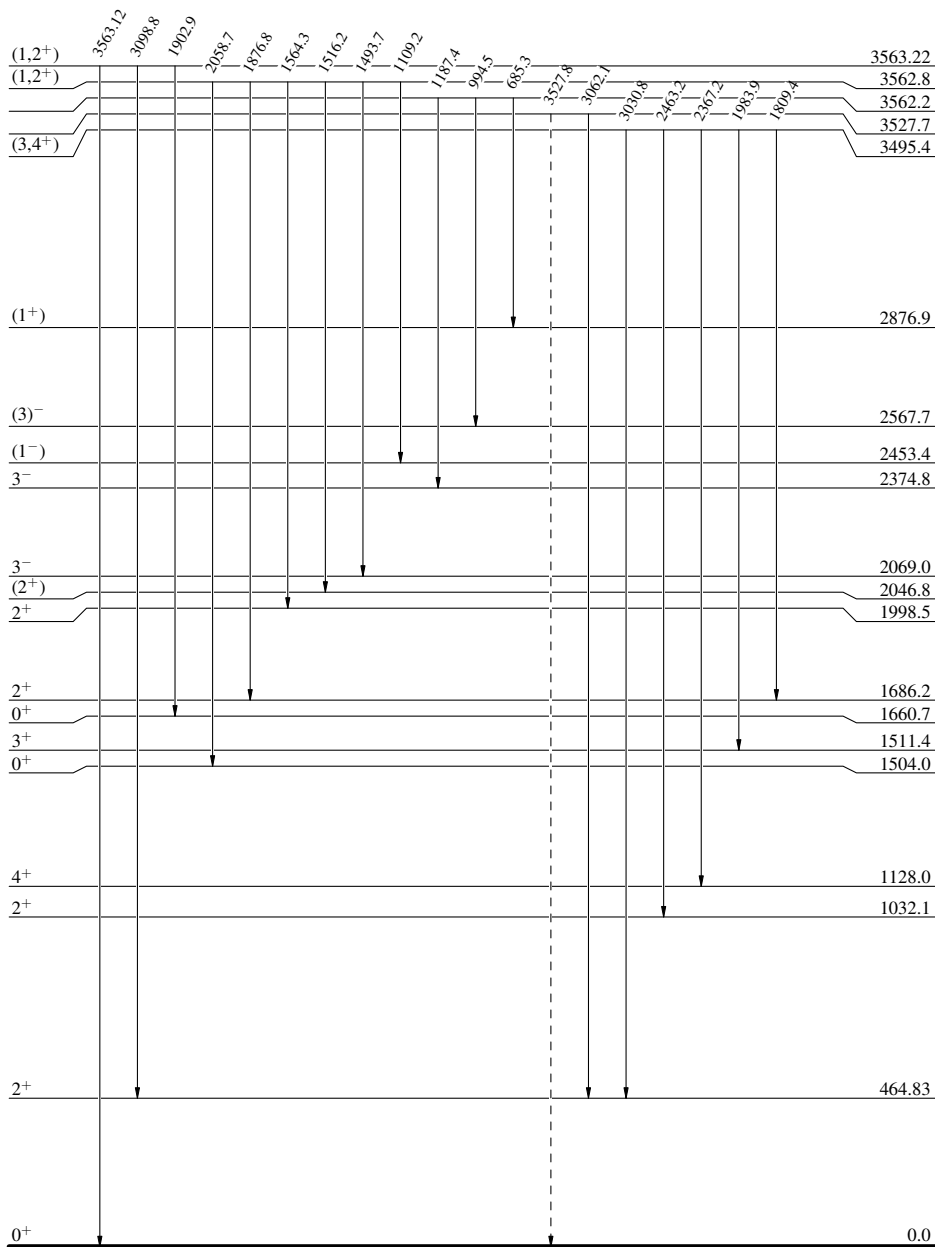
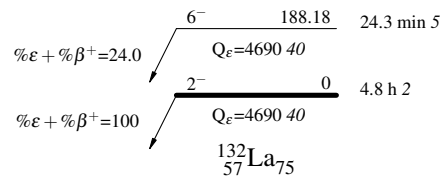
$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

Legend

-----  $\gamma$  Decay (Uncertain)



$^{132}_{56}\text{Ba}_{76}$

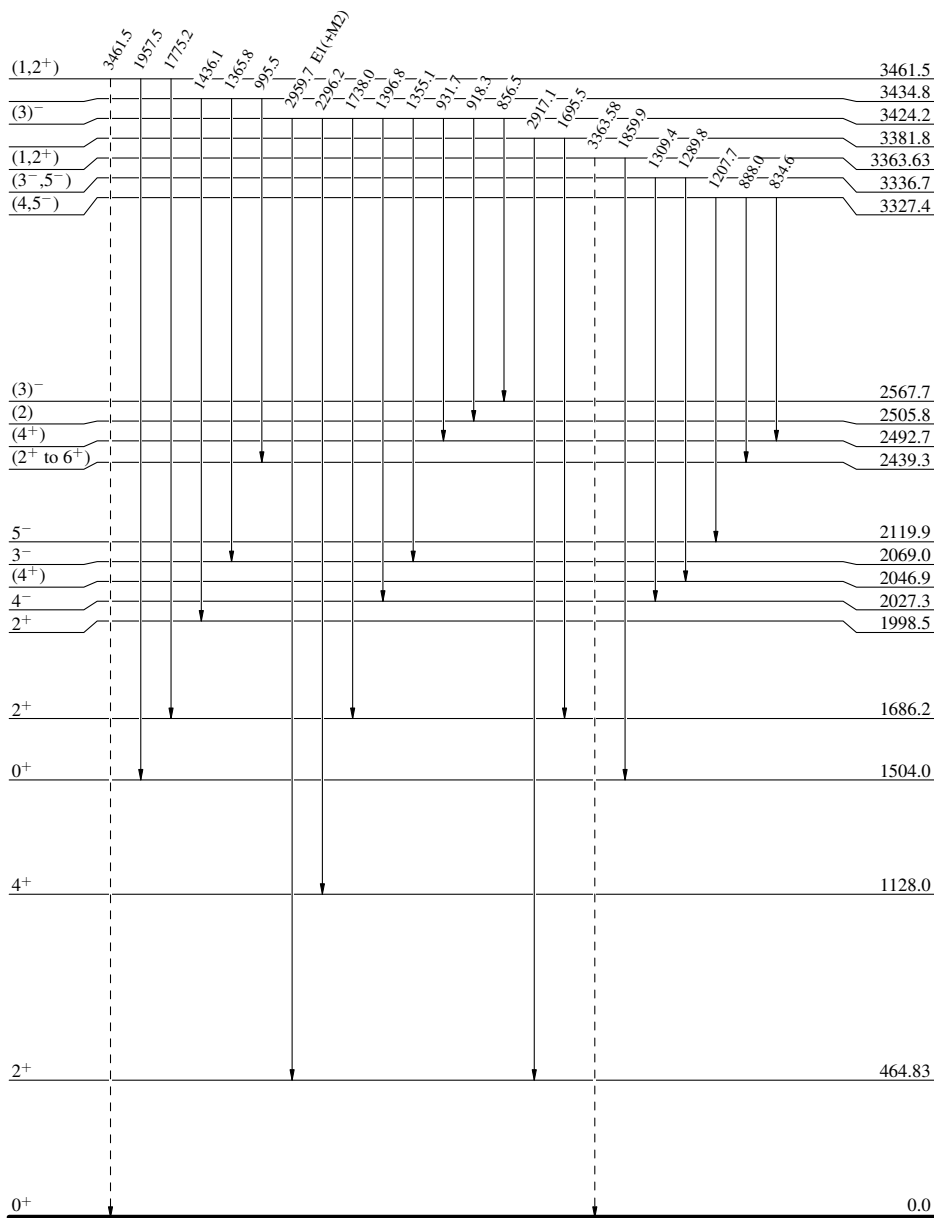
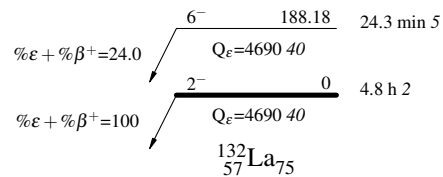
$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Legend

Intensities: Relative photon branching from each level

-----  $\gamma$  Decay (Uncertain)

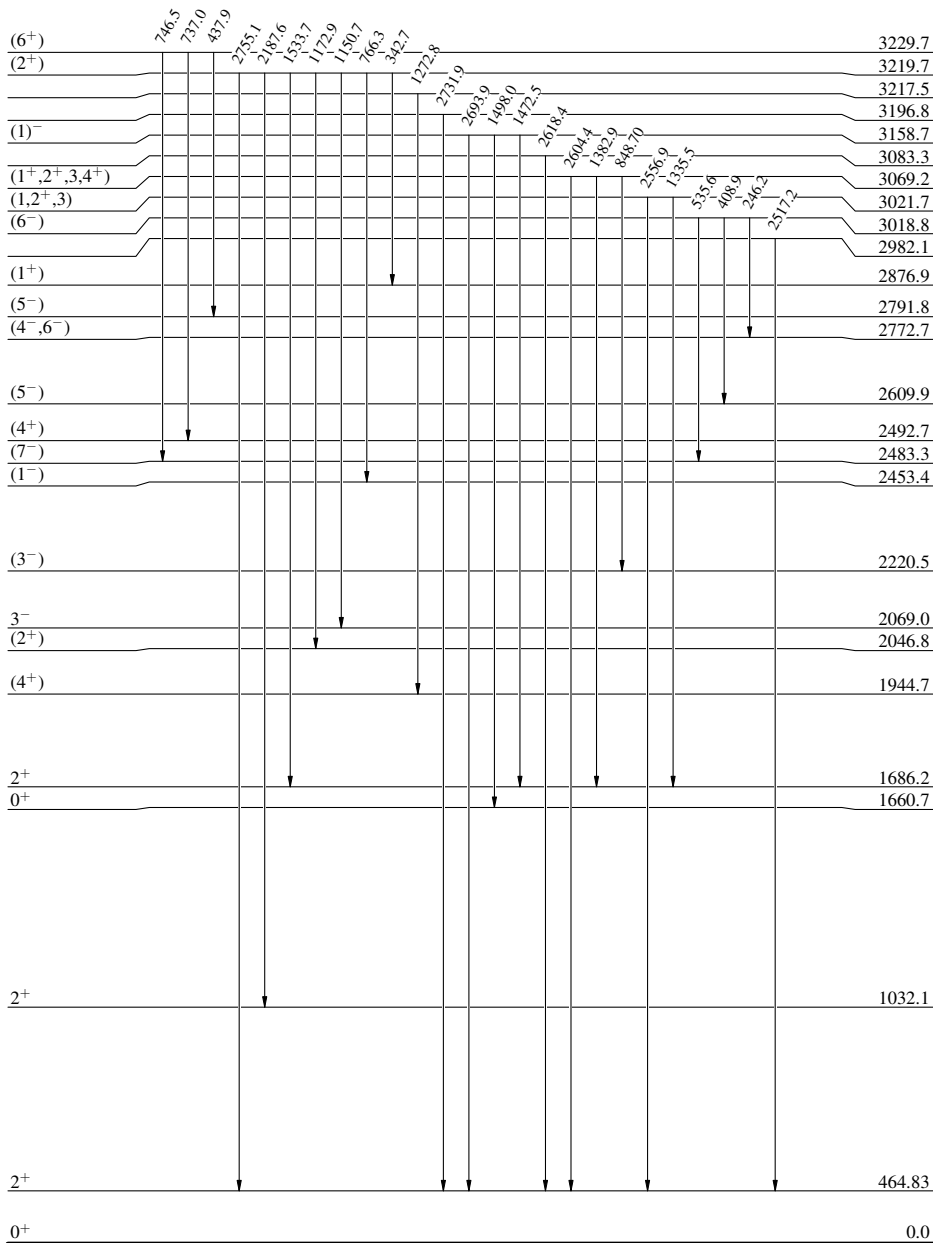
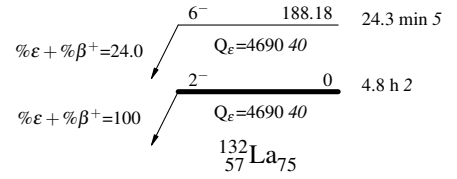


$^{132}_{56}\text{Ba}_{76}$

$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

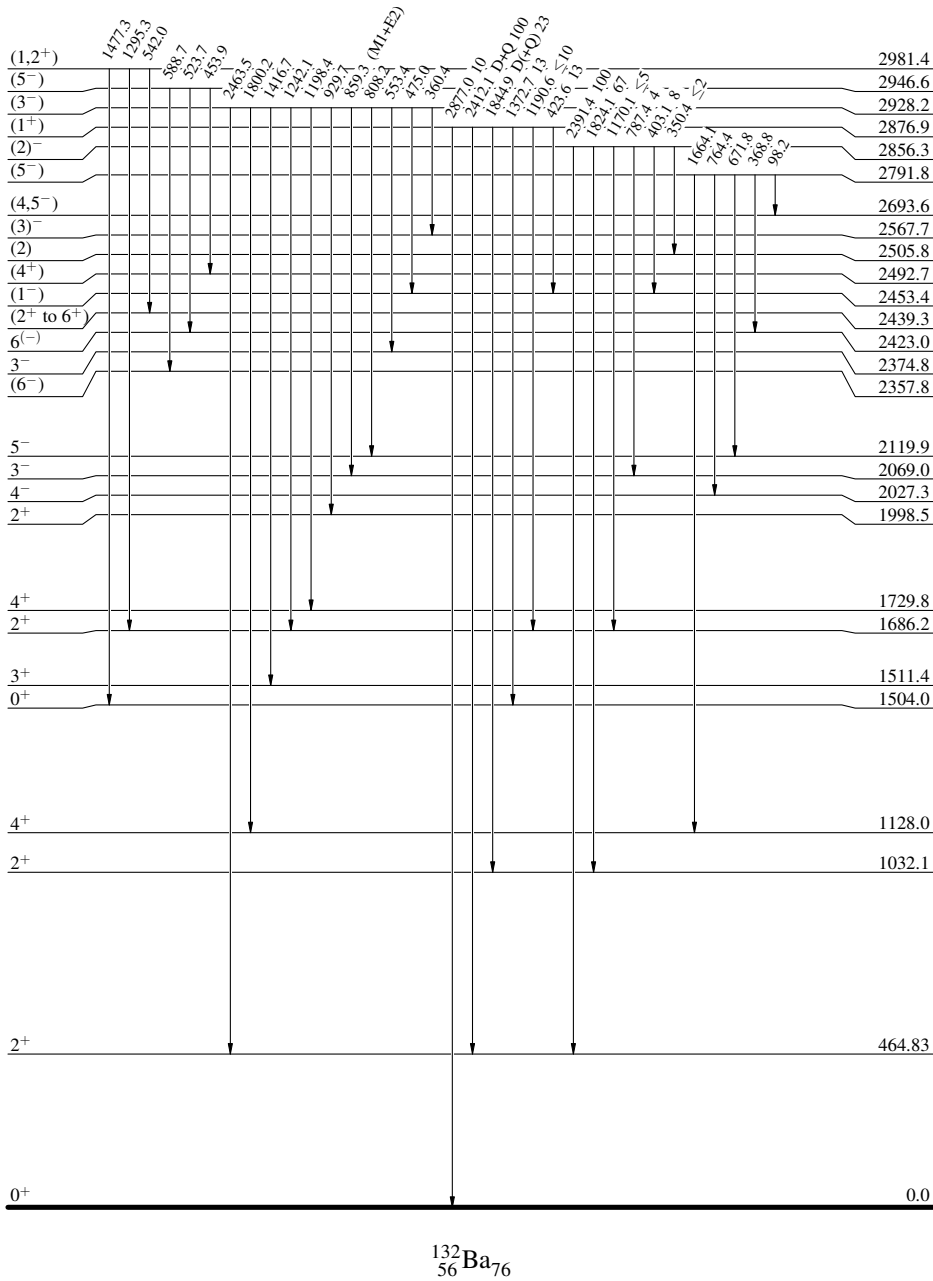
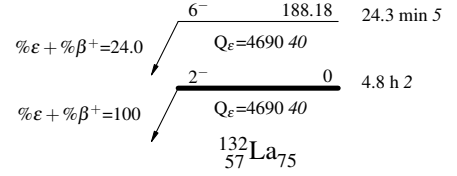


$^{132}_{56}\text{Ba}_{76}$

$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

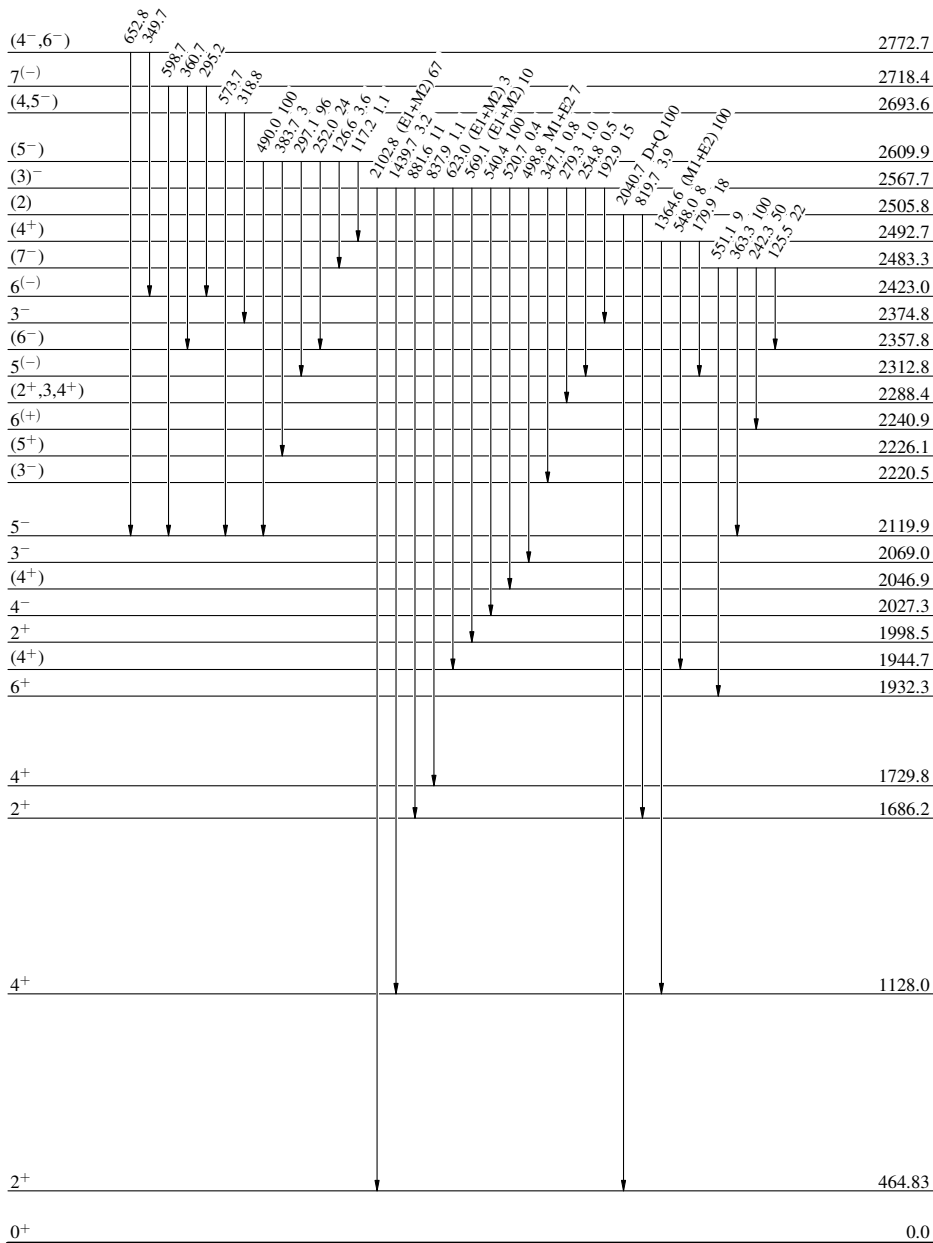
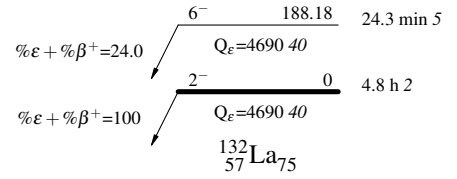




<sup>132</sup>La ε decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

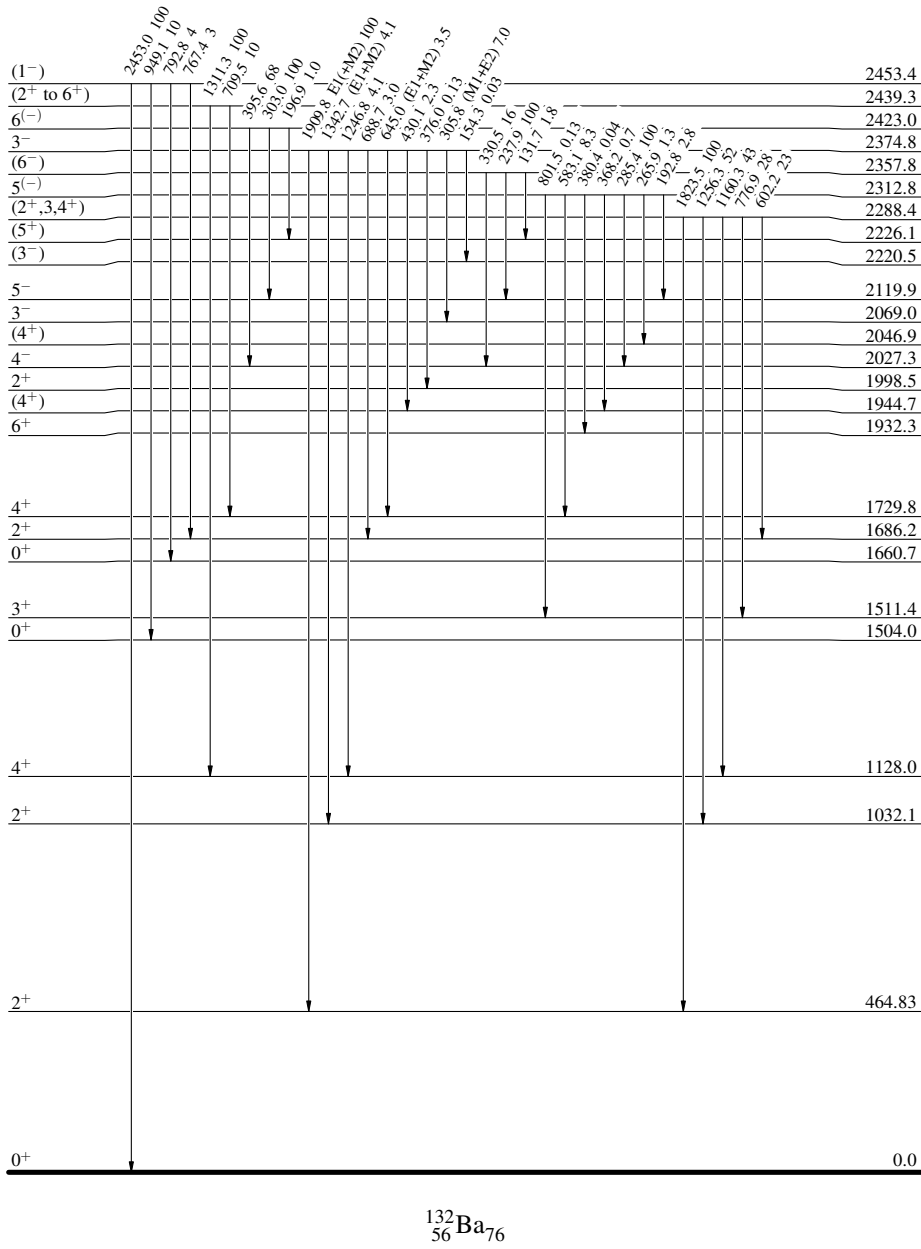
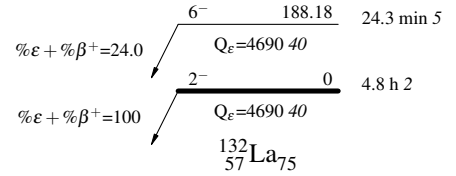


<sup>132</sup>Ba<sub>76</sub>

<sup>132</sup>La ε decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level

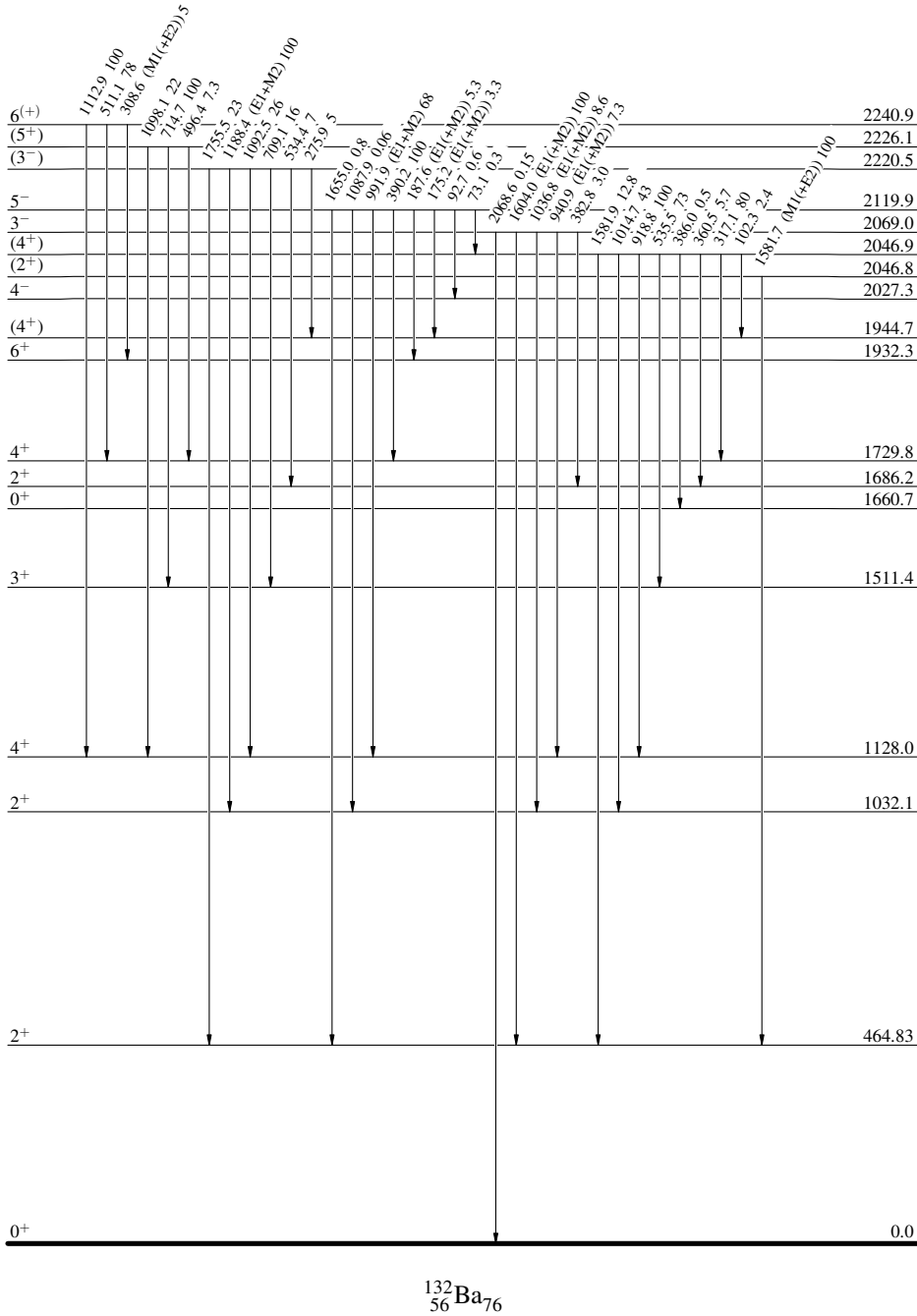
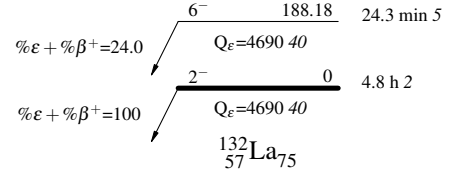


<sup>132</sup>Ba<sub>76</sub>

<sup>132</sup>La ε decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Intensities: Relative photon branching from each level



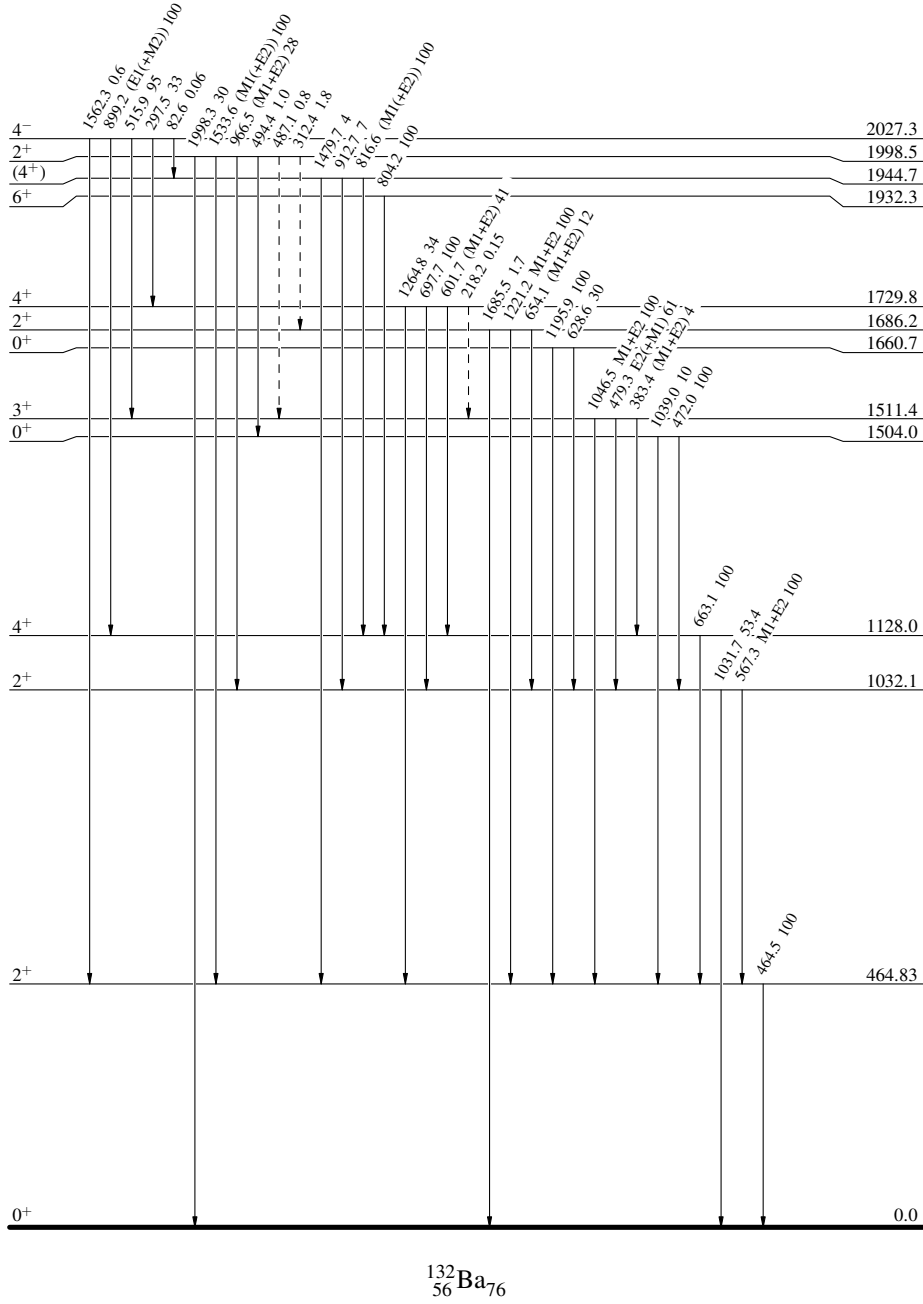
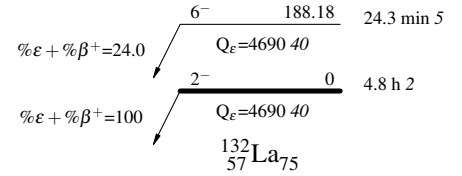
$^{132}\text{La}$   $\epsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ

Decay Scheme (continued)

Legend

Intensities: Relative photon branching from each level

-----  $\gamma$  Decay (Uncertain)



$^{132}_{56}\text{Ba}_{76}$

$^{132}\text{La}$   $\varepsilon$  decay (4.8 h+24.3 min) 1996Ku01,1975WiZJ