^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18

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

2012Ma31: Bremsstrahlung γ′s with E(γ)≤10 MeV. Measured Eγ, Iγ, γ(θ=90°,127°) using four HPGe detectors. Also (pol γ,g′) with E(γ)=4.7, 5.1, 5.6, 6.1, 6.5, 7.0, 7.5, 8.0, 8.4, 8.7, 9.0, and 9.3 MeV. Measured Eγ, Iγ, γ(θ), and γ(lin pol) using four HPGe detectors.

1998Pi06: Bremsstrahlung γ′s with E(γ)≤4.1 MeV and ≤2.8 MeV. Measured Eγ, Iγ, γ(θ=90°,127°) using Ge detectors.

1978Me18: Bremsstrahlung γ′s with E(γ)≤4.1 MeV. Measured Eγ, Iγ, γ(θ=96°,126°) and linear polarization using Ge(Li) detectors. No strong excitations in ^{136}Ba noted between 4.2 and 5 MeV.

^{136}Ba Levels

E(level)†	Jπ‡	$T_{1/2}$#	$\Gamma^2_{\gamma 0}/\Gamma$ (eV)@	Comments
0.0	0^+			
818.2 *2*				
1551.1 *2*	2&	0.88 ps *39*	1.4×10^{-4}*b* *6*	
2079.9 *1*	2*a*	>0.6 ps	$<1\times10^{-4}$*c*	$\Gamma^2_{\gamma 0}/\Gamma$ (eV): other: -4×10^{-5} eV 14 (1978Me18).
2128.8 *1*	2&	0.051 ps *4*	1.00×10^{-3}*c* *6*	$\Gamma^2_{\gamma 0}/\Gamma$ (eV): other: 7.0×10^{-4} eV *20* (1978Me18).
2223.6 *5*				
2484.6 *1*		>0.018 ps	3×10^{-4}*b* *6*	
2693.3 *2*	1*a*	0.0133 ps *24*	0.026*c* *4*	
2773.0 *1*				
2779.3 *8*				
2976.7 *6*			0.014 *2*	I_s=18 eVb *3* (2012Ma31).
3043.7	1&	0.0201 ps *24*	0.0136*c* *6*	I_s=15 eVb *3* (2012Ma31). $\Gamma^2_{\gamma 0}/\Gamma$ (eV): others: 0.017 *2* (1978Me18), 0.059 *7* (2012Ma31).
3109.9 *1*			0.027 *4*	I_s=32 eVb *5* (2012Ma31).
3115.7 *1*	2&	0.122 ps *22*	3.6×10^{-3}*c* *4*	I_s=57 eVb *6* (2012Ma31). $\Gamma^2_{\gamma 0}/\Gamma$ (eV): others: 0.0041 *6* (1978Me18), 0.048 *5* (2012Ma31).
3369.6 *1*	1&	0.018 ps *4*	0.0248*c* *13*	I_s=20 eVb *4* (2012Ma31). $\Gamma^2_{\gamma 0}/\Gamma$ (eV): others: 0.030 *5* (1978Me18), 0.062 *6* (2012Ma31).
3435.1 *1*	1−&	0.0060 ps *13*	0.076*c* *5*	I_s=107 eVb *9* (2012Ma31). $\Gamma^2_{\gamma 0}/\Gamma$ (eV): others: 0.071 *10* (1978Me18), 0.109 *9* (2012Ma31).
3526.0 *3*			0.016 *2*	I_s=15 eVb *2* (2012Ma31).
3881.1 *1*			0.013 *3*	I_s=10 eVb *2* (2012Ma31).
3979.8 *2*	(1)	0.021 ps *4*	0.022*c* *4*	$\Gamma^2_{\gamma 0}/\Gamma$ (eV): others: 0.021 *6* (1978Me18), 0.042 eV *5* (2012Ma31). I_s=18 eVb *3* (2012Ma31).
4137.1 *1*	1		0.059 *6*	I_s=19 eVb *3* (2012Ma31). $\Gamma^2_{\gamma 0}/\Gamma$ (eV): other: 0.10 eV *4* (1978Me18).
4231.2 *2*	1		0.039 *5*	I_s=25 eVb *3* (2012Ma31).
4366.8 *2*	1		0.056 *9*	I_s=18 eVb *3* (2012Ma31).
4413.3 *1*	(1)		0.035 *10*	I_s=21 eVb *6* (2012Ma31).
4475.2 *1*	(1)		0.046 *8*	I_s=12 eVb *3* (2012Ma31).
4536.4 *3*	1		0.048 *7*	I_s=27 eVb *4* (2012Ma31).
4601.1 *2*	(1)		0.048 *10*	I_s=26 eVb *6* (2012Ma31).
4623.7 *3*	1^-		0.066 *7*	I_s=36 eVb *4* (2012Ma31).
4639.7 *10*	1^-		0.064 *7*	I_s=35 eVb *4* (2012Ma31).

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

^{136}Ba Levels (continued)

E(level)†	Jπ‡	$\Gamma^2_{\gamma 0}/\Gamma$ (eV)@	Comments
4697.8 *1*	1⁻	0.049 *6*	I_s=25 eVb *3* (2012Ma31).
4767.7 *1*	1⁻	0.081 *8*	I_s=41 eVb *4* (2012Ma31).
4814.1 *1*	1	0.057 *17*	I_s=28 eVb *9* (2012Ma31).
4833.3 *5*		0.027 *13*	I_s=13 eVb *17* (2012Ma31).
4897.8 *16*	1	0.027 *13*	I_s=12 eVb *4* (2012Ma31).
4985.0 *6*	1⁻	0.106 *9*	I_s=49 eVb *4* (2012Ma31).
5039.6 *29*	1⁻	0.177 *20*	I_s=80 eVb *9* (2012Ma31).
5060.8 *2*	1⁻	0.163 *19*	I_s=60 eVb *7* (2012Ma31).
5076.9 *8*	1⁻	0.147 *17*	I_s=54 eVb *7* (2012Ma31).
5094.5 *7*	1⁻	0.223 *24*	I_s=55 eVb *6* (2012Ma31).
5135.2 *3*	1⁻	0.105 *20*	I_s=46 eVb *9* (2012Ma31).
5216.3 *2*	(1)	0.110 *16*	I_s=47 eVb *7* (2012Ma31).
5268.4 *7*	(1)	0.051 *9*	I_s=21 eVb *4* (2012Ma31).
5294.3 *1*	1	0.206 *19*	I_s=85 eVb *8* (2012Ma31).
5337.8 *2*	1	0.111 *17*	I_s=39 eVb *7* (2012Ma31).
5396.5 *7*	(1)	0.096 *14*	I_s=23 eVb *6* (2012Ma31).
5418.4 *5*	(1)	0.089 *13*	I_s=12 eVb *3* (2012Ma31).
5431.5 *10*	1	0.070 *12*	I_s=34 eVb *4* (2012Ma31).
5444.4 *1*	(1)	0.067 *12*	I_s=19 eVb *6* (2012Ma31).
5497.6 *7*	1⁻	0.133 *15*	I_s=51 eVb *6* (2012Ma31).
5561.1 *3*	1⁻	0.067 *11*	I_s=25 eVb *4* (2012Ma31).
5585.6 *7*	1⁻	0.167 *17*	I_s=62 eVb *6* (2012Ma31).
5601.2 *1*	1⁻	0.209 *21*	I_s=44 eVb *11* (2012Ma31).
5610.0 *6*	1⁻	0.33 *3*	I_s=138 eVb *16* (2012Ma31).
5647.9 *13*	1⁻	0.209 *24*	I_s=62 eVb *10* (2012Ma31).
5652.2 *10*	1⁻	0.198 *23*	I_s=71 eVb *8* (2012Ma31).
5718 *3*	(1)	0.27 *3*	I_s=94 eVb *9* (2012Ma31).
5735.0 *7*		0.205 *21*	I_s=60 eVb *7* (2012Ma31).
5768.0 *4*	1	0.259 *25*	I_s=90 eVb *9* (2012Ma31).
5781.7 *9*	1	0.144 *17*	I_s=50 eVb *6* (2012Ma31).
5805.1 *1*	1	0.181 *19*	I_s=48 eVb *10* (2012Ma31).
5924.2 *6*	1	0.091 *18*	I_s=30 eVb *6* (2012Ma31).
5965.8 *4*	1⁻	0.094 *19*	I_s=31 eVb *6* (2012Ma31).
5979.2 *2*	1⁻	0.076 *18*	I_s=24 eVb *6* (2012Ma31).
6005.0 *1*	1⁻	0.118 *22*	I_s=38 eVb *7* (2012Ma31).
6035.7 *1*	1⁻	0.28 *5*	I_s=59 eVb *8* (2012Ma31).
6052.9 *2*	1⁻	0.23 *5*	I_s=71 eVb *15* (2012Ma31).
6061.4 *1*	1⁻	0.26 *5*	I_s=81 eVb *15* (2012Ma31).
6082.5 *1*	1⁻	0.40 *6*	I_s=97 eVb *29* (2012Ma31).
6113.3 *2*	1⁻	0.44 *8*	I_s=116 eVb *20* (2012Ma31).
6161.2 *2*	1⁻	0.45 *7*	I_s=92 eVb *15* (2012Ma31).
6182.4 *2*	1⁻	0.38 *8*	I_s=102 eVb *20* (2012Ma31).
6192.8 *8*	(1)	0.28 *5*	I_s=66 eVb *16* (2012Ma31).
6215.7 *5*	(1)	0.19 *4*	I_s=57 eVb *13* (2012Ma31).
6231.6 *4*	(1)	0.13 *3*	I_s=38 eVb *10* (2012Ma31).
6244.2 *8*	(1)	0.12 *3*	I_s=36 eVb *9* (2012Ma31).
6264.8 *2*	(1)	0.08 *3*	I_s=23 eVb *8* (2012Ma31).
6289.2 *7*	(1)	0.107 *21*	I_s=31 eVb *6* (2012Ma31).
6331.9 *4*	1⁻	0.37 *5*	I_s=107 eVb *14* (2012Ma31).
6344.4 *7*	1⁻	0.24 *4*	I_s=68 eVb *11* (2012Ma31).
6358.2 *7*	1⁻	0.39 *5*	I_s=112 eVb *13* (2012Ma31).
6373.6 *8*	1⁻	0.20 *4*	I_s=58 eVb *10* (2012Ma31).
6391.3 *16*	1⁻	0.82 *9*	I_s=199 eVb *40* (2012Ma31).
6409.9 *19*	1⁻	0.36 *6*	I_s=102 eVb *16* (2012Ma31).
6430.6 *11*	1⁻	0.32 *4*	I_s=88 eVb *11* (2012Ma31).
6449.5 *2*	1⁻	0.22 *4*	I_s=60 eVb *10* (2012Ma31).

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^{136}Ba(γ,γ'),(pol γ,γ') 2012Ma31,1998Pi06,1978Me18 (continued)

^{136}Ba Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	$\Gamma^2_{\gamma 0}/\Gamma$ (eV)[@]	Comments
6478.2 *1*	1$^-$	0.18 *4*	I_s=48 eVb *12* (2012Ma31).
6488.7 *1*	1$^-$	0.14 *6*	I_s=37 eVb *17* (2012Ma31).
6528.8 *11*	1$^-$	0.12 *3*	I_s=34 eVb *8* (2012Ma31).
6554.3 *8*	1$^-$	0.22 *4*	I_s=60 eVb *9* (2012Ma31).
6591.8 *3*	1$^-$	0.30 *4*	I_s=81 eVb *10* (2012Ma31).
6625.3 *1*	1$^-$	0.50 *6*	I_s=132 eVb *16* (2012Ma31).
6677.3 *3*	1	0.39 *5*	I_s=101 eVb *12* (2012Ma31).
6693.4 *1*	1	0.43 *5*	I_s=110 eVb *13* (2012Ma31).
6716.8 *3*	1	0.33 *5*	I_s=85 eVb *13* (2012Ma31).
6741.9 *3*	1$^-$	0.47 *5*	I_s=118 eVb *13* (2012Ma31).
6756.6 *2*	1$^-$	0.27 *3*	I_s=69 eVb *8* (2012Ma31).
6767.8 *1*	1$^-$	0.180 *23*	I_s=45 eVb *6* (2012Ma31).
6776.8 *1*	1$^-$	0.28 *3*	I_s=69 eVb *8* (2012Ma31).
6788.4 *2*	1$^-$	0.21 *3*	I_s=51 eVb *7* (2012Ma31).
6830.8 *7*	1$^-$	0.092 *23*	I_s=23 eVb *6* (2012Ma31).
6840.3 *8*	1$^-$	0.21 *4*	I_s=51 eVb *9* (2012Ma31).
6847.5 *11*	1$^-$	0.28 *4*	I_s=68 eVb *10* (2012Ma31).
6859.2 *8*	1$^-$	0.25 *3*	I_s=61 eVb *7* (2012Ma31).
6870.4 *10*	1$^-$	0.19 *3*	I_s=46 eVb *6* (2012Ma31).
6880.5 *5*	1$^-$	0.27 *3*	I_s=65 eVb *8* (2012Ma31).
6895.8 *2*	1$^-$	0.114 *21*	I_s=28 eVb *5* (2012Ma31).
6952.0 *11*	1$^-$	0.17 *5*	I_s=40 eVb *11* (2012Ma31).
6982.3 *2*	1$^-$	0.56 *6*	I_s=131 eVb *15* (2012Ma31).
6998.5 *7*	1$^-$	0.39 *10*	I_s=91 eVb *24* (2012Ma31).
7006.6 *14*	1$^-$	0.33 *9*	I_s=77 eVb *22* (2012Ma31).
7018.9 *1*	1$^-$	0.42 *6*	I_s=99 eVb *13* (2012Ma31).
7150.6 *1*	(1)	0.32 *7*	I_s=71 eVb *15* (2012Ma31).
7251.1 *3*	1$^-$	0.39 *5*	I_s=85 eVb *11* (2012Ma31).
7271.6 *5*	1$^-$	0.24 *4*	I_s=52 eVb *10* (2012Ma31).
7281.5 *15*	1$^-$	1.64 *15*	I_s=356 eVb *32* (2012Ma31).
7298.8 *1*	1$^-$	0.43 *5*	I_s=92 eVb *11* (2012Ma31).
7314.8 *2*	1$^-$	0.33 *4*	I_s=71 eVb *10* (2012Ma31).
7350.2 *14*	1$^-$	0.18 *3*	I_s=38 eVb *7* (2012Ma31).
7364.1 *3*	1$^-$	0.32 *4*	I_s=68 eVb *8* (2012Ma31).
7382.1 *4*	1$^-$	0.26 *4*	I_s=54 eVb *8* (2012Ma31).
7394.4 *9*	1$^-$	0.24 *4*	I_s=52 eVb *9* (2012Ma31).
7402.5 *3*	1$^-$	0.22 *4*	I_s=47 eVb *9* (2012Ma31).
7414.9 *13*	1$^-$	0.28 *4*	I_s=59 eVb *8* (2012Ma31).
7444.4 *3*	1$^-$	0.34 *6*	I_s=70 eVb *12* (2012Ma31).
7472.5 *1*	1$^-$	0.36 *6*	I_s=74 eVb *12* (2012Ma31).
7487.5 *4*	1$^-$	0.45 *6*	I_s=92 eVb *13* (2012Ma31).
7502.8 *3*	1$^-$	0.88 *9*	I_s=178 eVb *18* (2012Ma31).
7519.2 *10*	1$^-$	0.42 *5*	I_s=87 eVb *11* (2012Ma31).
7541.0 *6*	1$^-$	0.35 *5*	I_s=71 eVb *10* (2012Ma31).
7558.1 *7*	1$^-$	0.34 *5*	I_s=68 eVb *10* (2012Ma31).
7572.1 *1*	1$^-$	0.52 *7*	I_s=104 eVb *14* (2012Ma31).
7583.5 *8*	1$^-$	0.32 *7*	I_s=65 eVb *14* (2012Ma31).
7594.8 *5*	1$^-$	0.19 *7*	I_s=38 eVb *13* (2012Ma31).
7604.2 *8*	1	0.24 *6*	I_s=47 eVb *16* (2012Ma31).
7625.7 *4*	1	0.37 *5*	I_s=74 eVb *11* (2012Ma31).
7662.3 *2*	1	0.19 *5*	I_s=38 eVb *9* (2012Ma31).
7675.6 *2*	1	0.12 *4*	I_s=24 eVb *8* (2012Ma31).
7699.0 *3*	1	0.56 *7*	I_s=1110 eVb *14* (2012Ma31).
7747.6 *5*	1	0.17 *5*	I_s=32 eVb *9* (2012Ma31).
7769.8 *1*	1	0.45 *7*	I_s=85 eVb *13* (2012Ma31).
7788.1 *5*	(1)	0.16 *5*	I_s=31 eVb *9* (2012Ma31).

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

^{136}Ba Levels (continued)

E(level)[†]	Jπ[‡]	$\Gamma^2_{\gamma 0}/\Gamma$ (eV)[@]	Comments
7819.8 *8*	1⁻	0.25 *5*	I_s=47 eVb *9* (2012Ma31).
7848.9 *3*	1⁻	0.31 *9*	I_s=58 eVb *16* (2012Ma31).
7857.9 *12*	1⁻	0.24 *7*	I_s=45 eVb *13* (2012Ma31).
7875.0 *11*	1⁻	0.26 *8*	I_s=48 eVb *15* (2012Ma31).
7895.2 *2*	1⁻	0.24 *9*	I_s=44 eVb *17* (2012Ma31).
7911.3 *4*	1⁻	0.85 *14*	I_s=155 eVb *25* (2012Ma31).
7972.4 *10*	1⁻	0.49 *8*	I_s=89 eVb *14* (2012Ma31).
8006.6 *5*	1⁻	0.35 *6*	I_s=63 eVb *11* (2012Ma31).
8083.5 *3*	1⁻	0.11 *4*	I_s=20 eVb *6* (2012Ma31).
8124.7 *2*	1⁻	0.056 *21*	I_s=10 eVb *4* (2012Ma31).
8144.3 *7*	1⁻	0.110 *24*	I_s=19 eVb *4* (2012Ma31).
8171.2 *10*	1⁻		
8184.3 *3*	1⁻	0.102 *24*	I_s=18 eVb *4* (2012Ma31).
8227.9 *5*	1⁻		
8250.8 *7*	1⁻		
8280.4 *10*	1⁻		
8315.4 *9*	1⁻		
8339.2 *14*	1⁻	0.11 *3*	I_s=18 eVb *6* (2012Ma31).
8359.5 *5*	1⁻	0.14 *4*	I_s=23 eVb *6* (2012Ma31).
8389.7 *7*	1⁻		
8404.1 *13*	1⁻		
8611.1 *21*	1⁻	0.43 *10*	I_s=66 eVb *16* (2012Ma31).
8825.1 *10*	1⁻		
9049.5 *7*	1⁻	0.41 *19*	I_s=58 eVb *27* (2012Ma31).
9077.8 *7*	1⁻	0.75 *18*	I_s=105 eVb *20* (2012Ma31).

[†] From 2012Ma31.
[‡] From γ(θ) and γ(lin pol) in 2012Ma31, except where noted.
[#] Derived by evaluator from $\Gamma^2_{\gamma 0}/\Gamma$ and adopted g.s. branching ratio.
[@] From 2012Ma31, except where noted.
[&] From γ(θ) and γ(lin pol) in 1978Me18.
[a] From γ(θ) in 1998Pi06; authors do not provide details of the measurement.
[b] From 1978Me18.
[c] From 1998Pi06.

γ(^{136}Ba)

Values of $N_\gamma(90°)/N_\gamma(127°)$ are from 2012Ma31. Expected values are 0.74 for dipole transitions and 2.28 for quadrupole transitions. POL values also from 2012Ma31, except where noted.

E_γ[†]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	Comments
818.2 *2*	818.2		0.0	0⁺		$N_\gamma(90°)/N_\gamma(127°)$=0.82 *2*.
1551.1 *2*	1551.1	2	0.0	0⁺	Q[#]	$N_\gamma(90°)/N_\gamma(127°)$=0.97 *6*. $N_\gamma(126°)/N_\gamma(96°)$=0.6 *5* (1978Me18).
2079.9 *1*	2079.9	2	0.0	0⁺	Q[@]	$N_\gamma(90°)/N_\gamma(127°)$=0.97 *6*.
2128.8 *1*	2128.8	2	0.0	0⁺	Q[#]	$N_\gamma(90°)/N_\gamma(127°)$=0.93 *7*. $N_\gamma(126°)/N_\gamma(96°)$=0.44 *19* (1978Me18).
2223.6 *5*	2223.6		0.0	0⁺		$N_\gamma(90°)/N_\gamma(127°)$=0.66 *14*.

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

γ(^{136}Ba) (continued)

E_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
2484.6 *1*	2484.6		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=0.94 *11*.
2693.3 *2*	2693.3	1	0.0	0^+	D[@]	$N_\gamma(90°)/N_\gamma(127°)$=1.1 *3*.
2773.0 *1*	2773.0		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.15 *19*.
2779.3 *8*	2779.3		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.5 *6*.
2976.7 *6*	2976.7		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.03 *28*.
3043.6 *1*	3043.7	1	0.0	0^+	D[#]	$N_\gamma(90°)/N_\gamma(127°)$=0.91 *16*. $N_\gamma(126°)/N_\gamma(96°)$=1.27 *14*, POL=+0.09 *14* (1978Me18).
3109.8 *1*	3109.9		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=0.86 *15*.
3115.6 *1*	3115.7	2	0.0	0^+	Q[#]	$N_\gamma(90°)/N_\gamma(127°)$=0.86 *9*. $N_\gamma(126°)/N_\gamma(96°)$=0.50 *13* (1978Me18).
3369.5 *1*	3369.6	1	0.0	0^+	D[#]	$N_\gamma(90°)/N_\gamma(127°)$=0.83 *8*. $N_\gamma(126°)/N_\gamma(96°)$=1.18 *14* (1978Me18).
3435.0 *1*	3435.1	1^-	0.0	0^+	E1[#]	$N_\gamma(90°)/N_\gamma(127°)$=0.81 *5*. $N_\gamma(126°)/N_\gamma(96°)$=1.28 *12*, POL=+0.066 *32* (1978Me18).
3525.9 *3*	3526.0		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.09 *26*.
3881.0 *1*	3881.1		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.4 *5*.
3979.7 *2*	3979.8	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.86 *19*. $N_\gamma(126°)/N_\gamma(96°)$=1.08 *25* (1978Me18).
4137.0 *1*	4137.1	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.77 *12*. $N_\gamma(126°)/N_\gamma(96°)$=1.0 *4* (1978Me18).
4231.1 *2*	4231.2	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.57 *19*.
4366.7 *2*	4366.8	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.55 *11*.
4413.2 *1*	4413.3	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.7 *4*.
4475.1 *1*	4475.2	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.05 *24*.
4536.3 *3*	4536.4	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.64 *15*.
4601.0 *2*	4601.1	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.7 *4*.
4623.6 *3*	4623.7	1^-	0.0	0^+	E1	POL=+0.97 *11*. $N_\gamma(90°)/N_\gamma(127°)$=0.7 *10*.
4639.6 *10*	4639.7	1^-	0.0	0^+	E1	POL=+0.98 *6*. $N_\gamma(90°)/N_\gamma(127°)$=2.0 *10*.
4697.7 *1*	4697.8	1^-	0.0	0^+	E1	POL=+0.98 *9*. $N_\gamma(90°)/N_\gamma(127°)$=0.46 *13*.
4767.6 *1*	4767.7	1^-	0.0	0^+	E1	POL=+0.89 *34*. $N_\gamma(90°)/N_\gamma(127°)$=0.95 *27*.
4814.0 *1*	4814.1	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.73 *25*.
4833.2 *5*	4833.3		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.00 *5*.
4897.7 *16*	4897.8	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.50 *18*.
4984.9 *6*	4985.0	1^-	0.0	0^+	E1	POL=+0.91 *20*. $N_\gamma(90°)/N_\gamma(127°)$=0.97 *19*.
5039.5 *29*	5039.6	1^-	0.0	0^+	E1	POL=+0.97 *6*. $N_\gamma(90°)/N_\gamma(127°)$=0.17 *6*.
5060.7 *2*	5060.8	1^-	0.0	0^+	E1	POL=+0.79 *16*. $N_\gamma(90°)/N_\gamma(127°)$=0.31 *9*.
5076.8 *8*	5076.9	1^-	0.0	0^+	E1	POL=+0.98 *6*. $N_\gamma(90°)/N_\gamma(127°)$=0.30 *8*.
5094.4 *7*	5094.5	1^-	0.0	0^+	E1	POL=+0.99 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.43 *11*.
5135.1 *3*	5135.2	1^-	0.0	0^+	E1	POL=+0.93 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.91 *20*.
5216.2 *2*	5216.3	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.98 *18*.
5268.3 *7*	5268.4	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.05 *26*.
5294.2 *1*	5294.3	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.95 *8*.
5337.7 *2*	5337.8	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.81 *17*.
5396.4 *7*	5396.5	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.16 *21*.
5418.3 *5*	5418.4	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.06 *21*.

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

γ(^{136}Ba) (continued)

E_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
5431.4 *10*	5431.5	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.52 *22*.
5444.3 *1*	5444.4	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.76 *25*.
5497.5 *7*	5497.6	1^-	0.0	0^+	E1	POL=+0.91 *10*. $N_\gamma(90°)/N_\gamma(127°)$=1.1 *4*.
5561.0 *3*	5561.1	1^-	0.0	0^+	E1	POL=+0.97 *9*. $N_\gamma(90°)/N_\gamma(127°)$=0.64 *15*.
5585.5 *7*	5585.6	1^-	0.0	0^+	E1	POL=+0.96 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.81 *8*.
5601.1 *1*	5601.2	1^-	0.0	0^+	E1	POL=+0.99 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.66 *6*.
5609.9 *6*	5610.0	1^-	0.0	0^+	E1	POL=+0.97 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.9 *3*.
5647.8 *13*	5647.9	1^-	0.0	0^+	E1	POL=+0.99 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.5 *1*.
5652.1 *10*	5652.2	1^-	0.0	0^+	E1	POL=+0.94 *2*. $N_\gamma(90°)/N_\gamma(127°)$=1.22 *13*.
5718 *3*	5718	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.0 *4*.
5734.9 *7*	5735.0		0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=1.5 *11*.
5767.9 *4*	5768.0	1	0.0	0^+		$N_\gamma(90°)/N_\gamma(127°)$=0.61 *9*.
5781.6 *9*	5781.7	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.52 *7*.
5805.0 *1*	5805.1	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.54 *10*.
5924.1 *6*	5924.2	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.64 *20*.
5965.7 *4*	5965.8	1^-	0.0	0^+	E1	POL=+0.85 *19*. $N_\gamma(90°)/N_\gamma(127°)$=0.52 *19*.
5979.1 *2*	5979.2	1^-	0.0	0^+	E1	POL=+0.88 *12*. $N_\gamma(90°)/N_\gamma(127°)$=0.55 *20*.
6004.9 *1*	6005.0	1^-	0.0	0^+	E1	POL=+0.98 *8*. $N_\gamma(90°)/N_\gamma(127°)$=0.53 *11*.
6035.6 *1*	6035.7	1^-	0.0	0^+	E1	POL=+0.94 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.77 *16*.
6052.8 *2*	6052.9	1^-	0.0	0^+	E1	POL=+0.98 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.70 *16*.
6061.3 *1*	6061.4	1^-	0.0	0^+	E1	POL=+0.98 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.83 *16*.
6082.4 *1*	6082.5	1^-	0.0	0^+	E1	POL=+0.99 *2*. $N_\gamma(90°)/N_\gamma(127°)$=0.81 *14*.
6113.2 *2*	6113.3	1^-	0.0	0^+	E1	POL=+0.99 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.78 *13*.
6161.1 *2*	6161.2	1^-	0.0	0^+	E1	POL=+0.98 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.98 *16*.
6182.2 *2*	6182.4	1^-	0.0	0^+	E1	POL=+0.97 *11*. $N_\gamma(90°)/N_\gamma(127°)$=0.83 *20*.
6192.6 *8*	6192.8	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.87 *19*.
6215.5 *5*	6215.7	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.98 *26*.
6231.4 *4*	6231.6	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.9 *3*.
6244.0 *8*	6244.2	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.8 *3*.
6264.6 *2*	6264.8	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.0 *4*.
6289.0 *7*	6289.2	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=1.24 *27*.
6331.7 *4*	6331.9	1^-	0.0	0^+	E1	POL=+0.98 *7*. $N_\gamma(90°)/N_\gamma(127°)$=0.77 *16*.
6344.2 *7*	6344.4	1^-	0.0	0^+	E1	POL=+0.94 *13*. $N_\gamma(90°)/N_\gamma(127°)$=0.72 *12*.
6358.0 *7*	6358.2	1^-	0.0	0^+	E1	POL=+0.93 *10*. $N_\gamma(90°)/N_\gamma(127°)$=0.83 *13*.
6373.4 *8*	6373.6	1^-	0.0	0^+	E1	POL=+0.79 *19*. $N_\gamma(90°)/N_\gamma(127°)$=1.0 *7*.

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

γ(^{136}Ba) (continued)

E_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult. ‡	Comments
6391.1 *16*	6391.3	1⁻	0.0	0⁺	E1	POL=+1.00 *2*. $N_\gamma(90°)/N_\gamma(127°)$=0.8 *1*.
6409.7 *19*	6409.9	1⁻	0.0	0⁺	E1	POL=+0.99 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.6 *3*.
6430.4 *11*	6430.6	1⁻	0.0	0⁺	E1	POL=+0.99 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.91 *18*.
6449.3 *2*	6449.5	1⁻	0.0	0⁺	E1	POL=+0.93 *7*. $N_\gamma(90°)/N_\gamma(127°)$=0.76 *27*.
6478.0 *1*	6478.2	1⁻	0.0	0⁺	E1	POL=+0.97 *14*. $N_\gamma(90°)/N_\gamma(127°)$=0.35 *20*.
6488.5 *1*	6488.7	1⁻	0.0	0⁺	E1	POL=+0.90 *12*. $N_\gamma(90°)/N_\gamma(127°)$=0.35 *19*.
6528.6 *11*	6528.8	1⁻	0.0	0⁺	E1	POL=+0.95 *15*. $N_\gamma(90°)/N_\gamma(127°)$=0.55 *17*.
6554.1 *8*	6554.3	1⁻	0.0	0⁺	E1	POL=+0.75 *24*. $N_\gamma(90°)/N_\gamma(127°)$=0.53 *10*.
6591.6 *3*	6591.8	1⁻	0.0	0⁺	E1	POL=+0.92 *26*. $N_\gamma(90°)/N_\gamma(127°)$=0.69 *11*.
6625.1 *1*	6625.3	1⁻	0.0	0⁺	E1	POL=+0.91 *28*. $N_\gamma(90°)/N_\gamma(127°)$=0.52 *6*.
6677.1 *3*	6677.3	1	0.0	0⁺	D	$N_\gamma(90°)/N_\gamma(127°)$=0.52 *6*.
6693.2 *1*	6693.4	1	0.0	0⁺	D	$N_\gamma(90°)/N_\gamma(127°)$=0.64 *8*.
6716.6 *3*	6716.8	1	0.0	0⁺	D	$N_\gamma(90°)/N_\gamma(127°)$=0.52 *9*.
6741.7 *3*	6741.9	1⁻	0.0	0⁺	E1	POL=+0.98 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.69 *10*.
6756.4 *2*	6756.6	1⁻	0.0	0⁺	E1	POL=+0.76 *14*. $N_\gamma(90°)/N_\gamma(127°)$=0.66 *11*.
6767.6 *1*	6767.8	1⁻	0.0	0⁺	E1	POL=+0.89 *12*. $N_\gamma(90°)/N_\gamma(127°)$=0.72 *11*.
6776.6 *1*	6776.8	1⁻	0.0	0⁺	E1	POL=+0.74 *19*. $N_\gamma(90°)/N_\gamma(127°)$=0.81 *14*.
6788.2 *2*	6788.4	1⁻	0.0	0⁺	E1	POL=+0.76 *16*. $N_\gamma(90°)/N_\gamma(127°)$=0.75 *24*.
6830.6 *7*	6830.8	1⁻	0.0	0⁺	E1	POL=+0.76 *22*. $N_\gamma(90°)/N_\gamma(127°)$=1.00 *29*.
6840.1 *8*	6840.3	1⁻	0.0	0⁺	E1	POL=+0.97 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.94 *18*.
6847.3 *11*	6847.5	1⁻	0.0	0⁺	E1	POL=+0.96 *5*. $N_\gamma(90°)/N_\gamma(127°)$=0.96 *17*.
6859.0 *8*	6859.2	1⁻	0.0	0⁺	E1	POL=+0.90 *8*. $N_\gamma(90°)/N_\gamma(127°)$=0.99 *18*.
6870.2 *10*	6870.4	1⁻	0.0	0⁺	E1	POL=+0.85 *15*. $N_\gamma(90°)/N_\gamma(127°)$=1.01 *16*.
6880.3 *5*	6880.5	1⁻	0.0	0⁺	E1	POL=+0.85 *7*. $N_\gamma(90°)/N_\gamma(127°)$=1.11 *28*.
6895.6 *2*	6895.8	1⁻	0.0	0⁺	E1	POL=+0.74 *12*. $N_\gamma(90°)/N_\gamma(127°)$=1.10 *19*.
6951.8 *11*	6952.0	1⁻	0.0	0⁺	E1	POL=+0.94 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.46 *13*.
6982.1 *2*	6982.3	1⁻	0.0	0⁺	E1	POL=+0.97 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.44 *7*.
6998.3 *7*	6998.5	1⁻	0.0	0⁺	E1	POL=+0.97 *1*. $N_\gamma(90°)/N_\gamma(127°)$=0.49 *15*.
7006.4 *14*	7006.6	1⁻	0.0	0⁺	E1	POL=+0.99 *1*. $N_\gamma(90°)/N_\gamma(127°)$=0.41 *13*.
7018.7 *1*	7018.9	1⁻	0.0	0⁺	E1	POL=+0.97 *2*. $N_\gamma(90°)/N_\gamma(127°)$=0.41 *7*.

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

γ(^{136}Ba) (continued)

E_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
7150.4 *1*	7150.6	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.97 *22*.
7250.9 *3*	7251.1	1^-	0.0	0^+	E1	POL=+0.83 *16*. $N_\gamma(90°)/N_\gamma(127°)$=0.76 *17*.
7271.4 *5*	7271.6	1^-	0.0	0^+	E1	POL=+0.77 *26*. $N_\gamma(90°)/N_\gamma(127°)$=0.47 *8*.
7281.3 *15*	7281.5	1^-	0.0	0^+	E1	POL=+0.76 *25*. $N_\gamma(90°)/N_\gamma(127°)$=0.72 *8*.
7298.6 *1*	7298.8	1^-	0.0	0^+	E1	POL=+0.83 *14*. $N_\gamma(90°)/N_\gamma(127°)$=0.64 *11*.
7314.6 *2*	7314.8	1^-	0.0	0^+	E1	POL=+0.97 *13*. $N_\gamma(90°)/N_\gamma(127°)$=0.51 *22*.
7350.0 *14*	7350.2	1^-	0.0	0^+	E1	POL=+0.90 *26*. $N_\gamma(90°)/N_\gamma(127°)$=0.76 *29*.
7363.9 *3*	7364.1	1^-	0.0	0^+	E1	POL=+0.98 *9*. $N_\gamma(90°)/N_\gamma(127°)$=0.8 *3*.
7381.9 *4*	7382.1	1^-	0.0	0^+	E1	POL=+0.98 *6*. $N_\gamma(90°)/N_\gamma(127°)$=0.9 *4*.
7394.2 *9*	7394.4	1^-	0.0	0^+	E1	POL=+0.9 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.74 *23*.
7402.3 *3*	7402.5	1^-	0.0	0^+	E1	POL=+0.96 *6*. $N_\gamma(90°)/N_\gamma(127°)$=1.4 *4*.
7414.7 *13*	7414.9	1^-	0.0	0^+	E1	POL=+0.96 *18*. $N_\gamma(90°)/N_\gamma(127°)$=0.93 *27*.
7444.2 *3*	7444.4	1^-	0.0	0^+	E1	POL=+0.98 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.74 *16*.
7472.3 *1*	7472.5	1^-	0.0	0^+	E1	POL=+0.98 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.58 *11*.
7487.3 *4*	7487.5	1^-	0.0	0^+	E1	POL=+0.99 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.58 *8*.
7502.6 *3*	7502.8	1^-	0.0	0^+	E1	POL=+0.99 *1*. $N_\gamma(90°)/N_\gamma(127°)$=0.58 *7*.
7519.0 *10*	7519.2	1^-	0.0	0^+	E1	POL=+0.95 *4*. $N_\gamma(90°)/N_\gamma(127°)$=0.64 *12*.
7540.8 *6*	7541.0	1^-	0.0	0^+	E1	POL=+0.88 *9*. $N_\gamma(90°)/N_\gamma(127°)$=0.49 *9*.
7557.9 *7*	7558.1	1^-	0.0	0^+	E1	POL=+0.98 *5*. $N_\gamma(90°)/N_\gamma(127°)$=0.62 *11*.
7571.9 *1*	7572.1	1^-	0.0	0^+	E1	POL=+0.98 *7*. $N_\gamma(90°)/N_\gamma(127°)$=0.56 *12*.
7583.3 *8*	7583.5	1^-	0.0	0^+	E1	POL=+0.97 *10*. $N_\gamma(90°)/N_\gamma(127°)$=0.57 *24*.
7594.6 *5*	7594.8	1^-	0.0	0^+	E1	POL=+0.9 *5*. $N_\gamma(90°)/N_\gamma(127°)$=0.9 *11*.
7604.0 *8*	7604.2	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.25 *7*.
7625.5 *4*	7625.7	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.52 *14*.
7662.1 *2*	7662.3	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.8 *6*.
7675.4 *2*	7675.6	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.40 *14*.
7698.8 *3*	7699.0	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.68 *20*.
7747.4 *5*	7747.6	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.74 *22*.
7769.6 *1*	7769.8	1	0.0	0^+	D	$N_\gamma(90°)/N_\gamma(127°)$=0.68 *22*.
7787.9 *5*	7788.1	(1)	0.0	0^+	(D)	$N_\gamma(90°)/N_\gamma(127°)$=0.76 *26*.
7819.6 *8*	7819.8	1^-	0.0	0^+	E1	POL=+0.90 *10*. $N_\gamma(90°)/N_\gamma(127°)$=0.63 *20*.
7848.7 *3*	7848.9	1^-	0.0	0^+	E1	POL=+0.97 *10*. $N_\gamma(90°)/N_\gamma(127°)$=0.4 *4*.
7857.7 *12*	7857.9	1^-	0.0	0^+	E1	POL=+0.97 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.22 *10*.

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^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18 (continued)

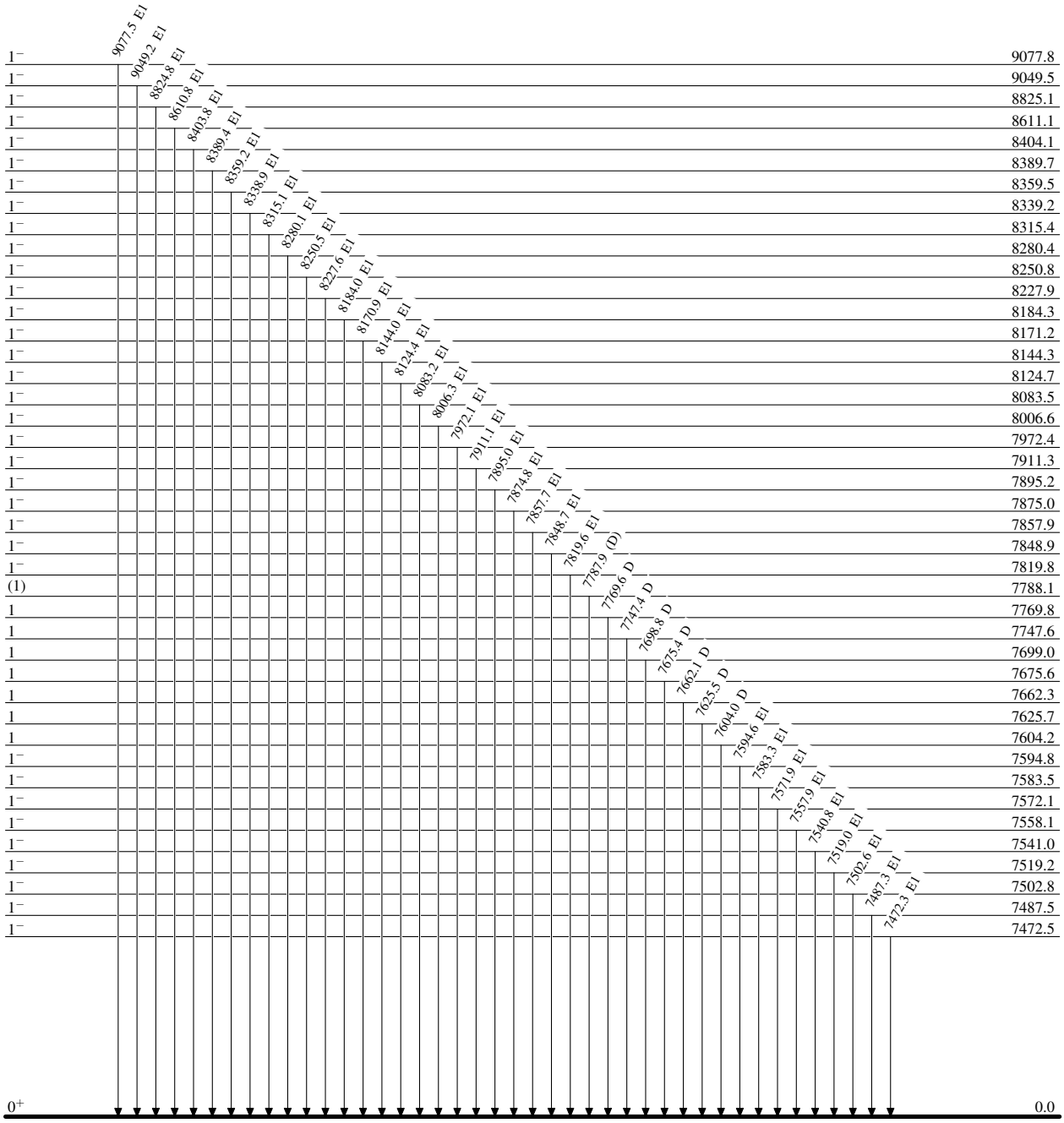
γ(^{136}Ba) (continued)

E_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
7874.8 *11*	7875.0	1⁻	0.0	0⁺	E1	POL=+0.97 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.30 *12*.
7895.0 *2*	7895.2	1⁻	0.0	0⁺	E1	POL=+0.99 *5*. $N_\gamma(90°)/N_\gamma(127°)$=1.1 *5*.
7911.1 *4*	7911.3	1⁻	0.0	0⁺	E1	POL=+0.98 *2*. $N_\gamma(90°)/N_\gamma(127°)$=0.73 *13*.
7972.1 *10*	7972.4	1⁻	0.0	0⁺	E1	POL=+0.99 *2*. $N_\gamma(90°)/N_\gamma(127°)$=0.91 *18*.
8006.3 *5*	8006.6	1⁻	0.0	0⁺	E1	POL=+0.98 *2*. $N_\gamma(90°)/N_\gamma(127°)$=0.85 *24*.
8083.2 *3*	8083.5	1⁻	0.0	0⁺	E1	POL=+0.99 *4*. $N_\gamma(90°)/N_\gamma(127°)$=1.2 *9*.
8124.4 *2*	8124.7	1⁻	0.0	0⁺	E1	POL=+0.7 *6*. $N_\gamma(90°)/N_\gamma(127°)$=0.57 *25*.
8144.0 *7*	8144.3	1⁻	0.0	0⁺	E1	POL=+0.7 *5*. $N_\gamma(90°)/N_\gamma(127°)$=0.88 *26*.
8170.9 *10*	8171.2	1⁻	0.0	0⁺	E1	POL=+0.9 *4*. $N_\gamma(90°)/N_\gamma(127°)$=2.0 *8*.
8184.0 *3*	8184.3	1⁻	0.0	0⁺	E1	POL=+0.7 *5*. $N_\gamma(90°)/N_\gamma(127°)$=0.95 *29*.
8227.6 *5*	8227.9	1⁻	0.0	0⁺	E1	POL=+0.8 *6*. $N_\gamma(90°)/N_\gamma(127°)$=2.9 *8*.
8250.5 *7*	8250.8	1⁻	0.0	0⁺	E1	POL=+0.93 *23*. $N_\gamma(90°)/N_\gamma(127°)$=1.9 *4*.
8280.1 *10*	8280.4	1⁻	0.0	0⁺	E1	POL=+0.95 *15*. $N_\gamma(90°)/N_\gamma(127°)$=1.5 *3*.
8315.1 *9*	8315.4	1⁻	0.0	0⁺	E1	POL=+0.94 *20*. $N_\gamma(90°)/N_\gamma(127°)$=1.7 *7*.
8338.9 *14*	8339.2	1⁻	0.0	0⁺	E1	POL=+0.79 *29*. $N_\gamma(90°)/N_\gamma(127°)$=1.2 *6*.
8359.2 *5*	8359.5	1⁻	0.0	0⁺	E1	POL=+0.8 *9*. $N_\gamma(90°)/N_\gamma(127°)$=1.2 *3*.
8389.4 *7*	8389.7	1⁻	0.0	0⁺	E1	POL=+0.9 *4*. $N_\gamma(90°)/N_\gamma(127°)$=1.6 *4*.
8403.8 *13*	8404.1	1⁻	0.0	0⁺	E1	POL=+0.9 *5*. $N_\gamma(90°)/N_\gamma(127°)$=1.8 *4*.
8610.8 *21*	8611.1	1⁻	0.0	0⁺	E1	POL=+0.95 *16*. $N_\gamma(90°)/N_\gamma(127°)$=1.23 *29*.
8824.8 *10*	8825.1	1⁻	0.0	0⁺	E1	POL=+0.83 *17*. $N_\gamma(90°)/N_\gamma(127°)$=1.5 *7*.
9049.2 *7*	9049.5	1⁻	0.0	0⁺	E1	POL=+0.9 *3*. $N_\gamma(90°)/N_\gamma(127°)$=0.9 *5*.
9077.5 *7*	9077.8	1⁻	0.0	0⁺	E1	POL=+0.92 *16*. $N_\gamma(90°)/N_\gamma(127°)$=0.7 *3*.

[†] From 2012Ma31, except where noted.
[‡] From γ(θ) and γ(lin pol) in 2012Ma31, except where noted.
[#] From γ(θ) and γ(lin pol) in 1978Me18.
[@] From γ(θ) in 1998Pi06, no specific details on Iγ(90°)/Iγ(127°) ratios were provided.

^{136}Ba(γ,γ'),(pol γ,γ') 2012Ma31,1998Pi06,1978Me18

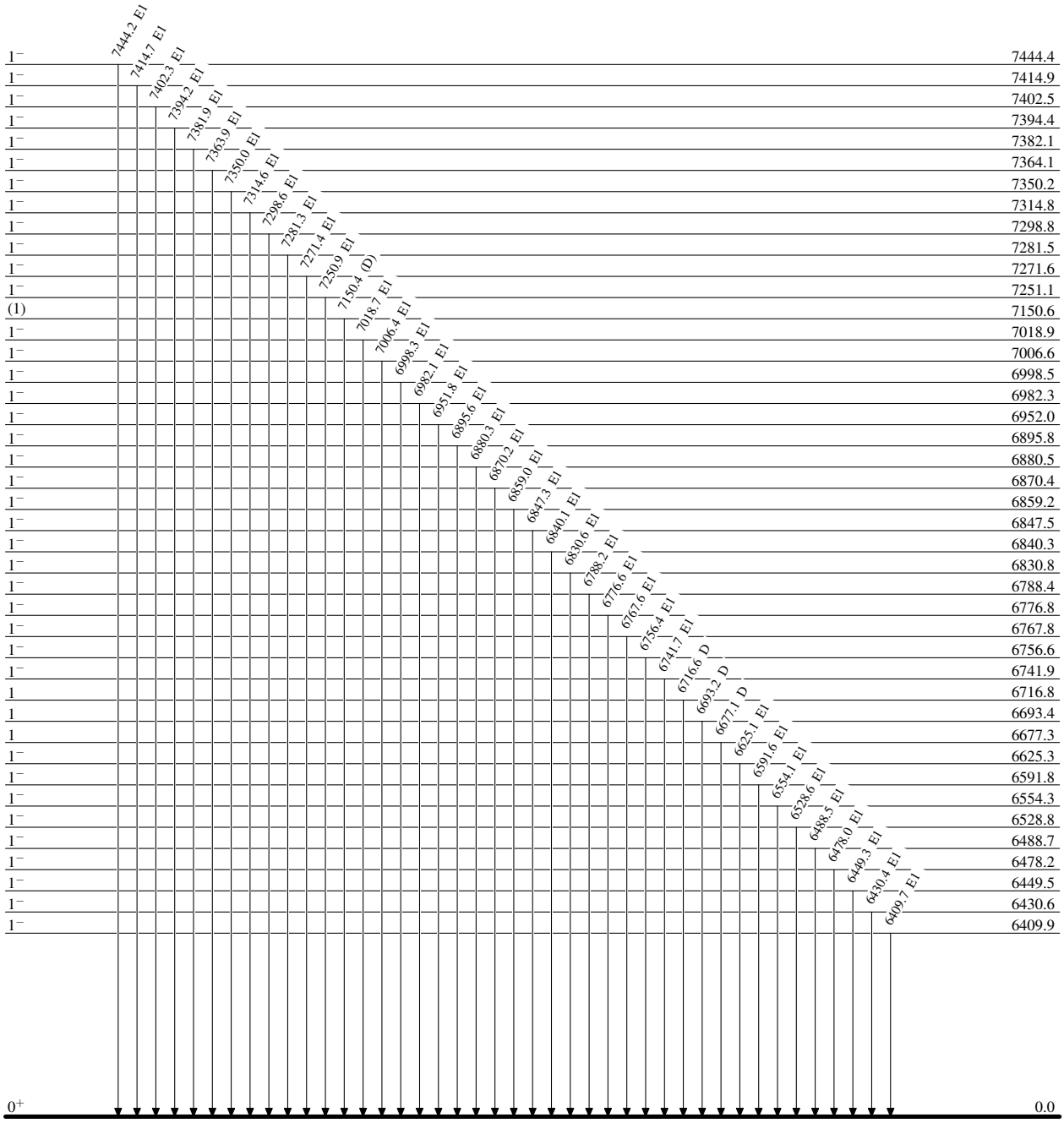
Level Scheme



$^{136}_{56}Ba_{80}$

^{136}Ba(γ,γ′),(pol γ,γ′) 2012Ma31,1998Pi06,1978Me18

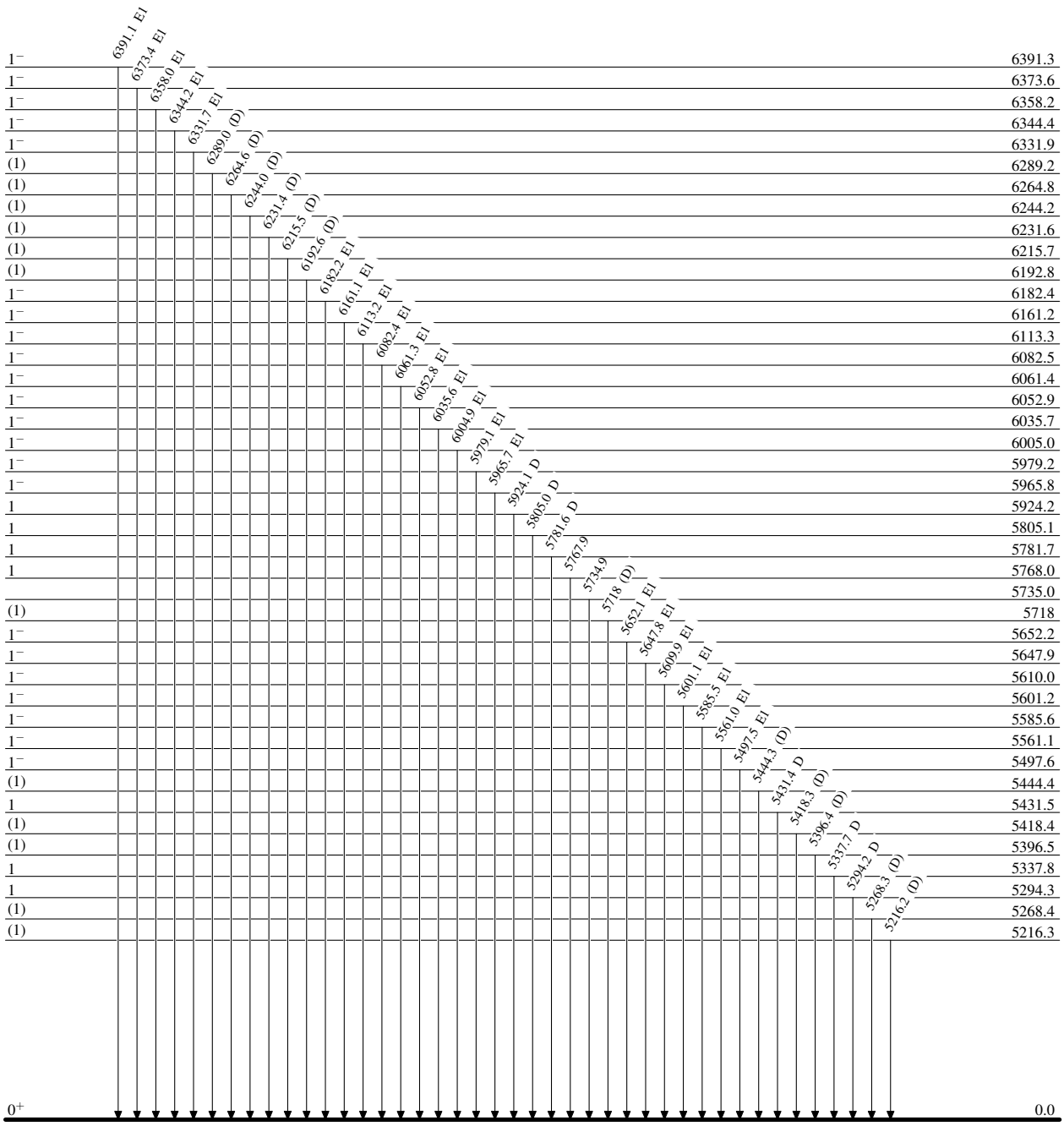
Level Scheme (continued)



$^{136}_{56}Ba_{80}$

^{136}Ba(γ,γ'),(pol γ,γ') 2012Ma31,1998Pi06,1978Me18

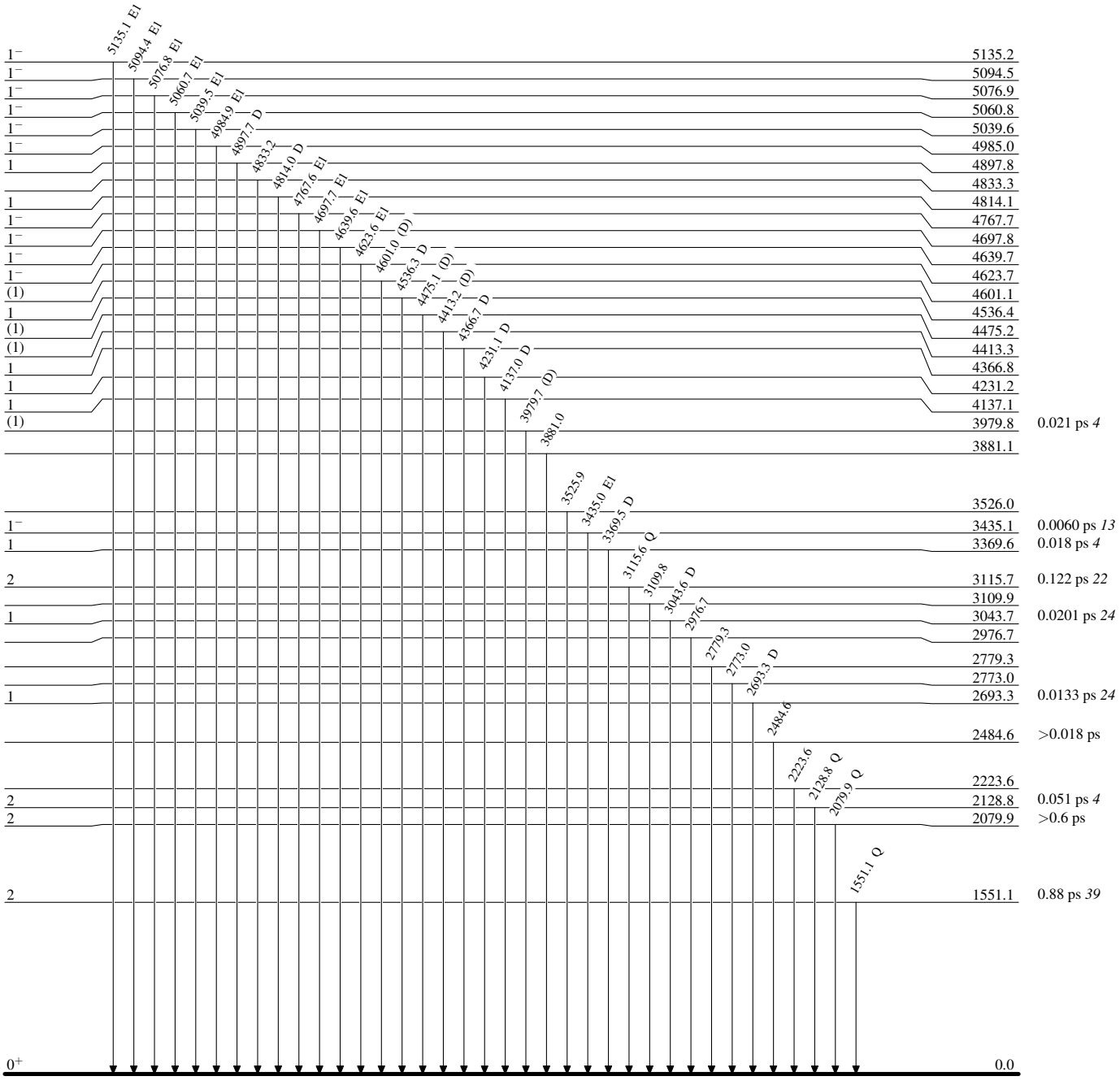
Level Scheme (continued)



$^{136}_{56}Ba_{80}$

^{136}Ba(γ,γ'),(pol γ,γ') 2012Ma31,1998Pi06,1978Me18

Level Scheme (continued)



$^{136}_{56}Ba_{80}$