124 Sn(13 C,5n γ) 1995Ju09

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

1995Ju09: E=65.5 MeV. Measured E γ , I γ , $\gamma\gamma$, $\gamma\gamma(\theta)$ (DCO) using NORDBALL array of 15 Ge detectors.

Other: 2003Fo04: ¹⁷³Yb(²⁴Mg,X γ), ¹⁹⁷Au(²⁴Mg,X γ) E=134.5 MeV; ¹⁹⁷Au(²³Na,X γ) E=129 MeV. Measured E γ , I γ , $\gamma\gamma$ following fission of compound nucleus. About ten γ rays assigned to ¹³²Ba, which are mostly from the yrast band.

Additional information 1.

¹³²Ba Levels

E(level)	$J^{\pi \dagger}$	Comments
0.0 [‡]	0^{+}	
464.62 [‡] 8	2+	
1032.00 [#] 8	2^{+}	
1128.02 [‡] 10	4+	
1511.26 [@] 9	3+	
1729.92 [#] 9	4+	
1932.45 [‡] 11	6+	
1944.97 12	(4+)	J^{π} : 1995Ju09 proposed 4 ⁻ and possibly As a bandhead, but 4 ⁺ is preferred from $\gamma\gamma(\theta)$ data In ¹³² La ε
2027.50f 10	4-	decay.
$2027.39^{\circ} 10$ 2120 22 [°] 10	4 5-	
2120.22 10	(6+)	E(level): this level is suspect (evaluators, not reported in any other study). See also comment for 1013.5γ .
2226.50 [@] 12	(5 ⁺)	
2241.32 [#] 11	6+	
2313.18 ^e 14	5-	
2358.29 ^d 11	6-	
2423.35 ^f 11	6-	
2440.0 5	17-	
$2483./1^{\circ}$ 11 2718.86 ^e 11	1/7-	
2800 75 11	, 8+	
$2867.61^{\#}$ 11	8+	
2901.23^{d} 11	8-	
2902.28^{h} 13	7-	
$2935.60^{@}$ 15	(7^+)	
2961.68 15	8-	
3095.34 ^f 11	8-	
3105.51 ⁱ 11	8-	
3116.77 [‡] <i>12</i>	10^{+}	
3122.76 15	(8+)	
3188.99 ^c 12	9-	
3340.81" 11	9 ⁻	
3482.90^{e} 13	9 9-	
3505.76 18	(9+)	
3546.15 15	9	
3599.27 ^{<i>a</i>} 13	10+	
3659.87 ^{<i>a</i>} 13	10-	

¹³²Ba Levels (continued)

E(level)	$J^{\pi \dagger}$
3678.46 [#] 13	10^{+}
3721.96 ⁱ 12	10^{-}
3805.87 13	10^{+}
3906.71 14	11^{+}
3916.49 [‡] <i>13</i>	12+
3943.86 13	10+
3950.84 ^{<i>n</i>} 12	11-
4062.15° 13 4229.8 6	11
4362.34 [#] 15	12^{+}
4365.80 ^e 16	(11 ⁻)
4440.99 ⁱ 13	12-
4547.68 13	12^{+}
4557.00 ^{<i>d</i>} 13	12-
4565.07 ^{<i>a</i>} 14	12+
4689.86 17	12'
4704.90 I7	12
4/11.88 14	15
4805.9/# <i>14</i>	14
4811.81° <i>14</i>	11 ⁺ 12 ⁻
4020.05 15	13
4985.20 ⁻² 10	13
4997.14° <i>13</i> 5033.69.14	12*
5085.71 15	13^{13}
5104.83 16	13-
5200.96 ^b 14	13+
5283.04 [°] 17	15-
5321.45 ^d 14	14-
5336.64 ⁱ 15	14-
5376.31 17	14^{+}
5436.79 ⁰ 14	14+
54/0.20 14	14 · 15+
5540.50^{-10}	15
$55/4.50^{\circ}$ 15 5630 0 ^{<i>a</i>} Λ	(14^+)
5721.34 ⁸ 14	$14^{-14^{-1}}$
5771.73 ^b 15	15+
5836.60 [‡] 16	16+
5871.04 16	15-
5872.68 18	15+
5891.308 14	15-
5991.35 ^{<i>a</i>} 19	16 ⁻
6134 28 18	10 15
$610630^{b}18$	15 16 ⁺
6268.31 20	16 ⁺
6274.94 ^{<i>i</i>} 18	16-
6295.0 [°] 3	17^{-}

¹³²Ba Levels (continued)

$J^{\pi \dagger}$	Comments
17+	
17^{-}	
17^{-}	
(17^{+})	
18^{+}	
18-	
18^{+}	
(18^{+})	
19-	
(19 ⁻)	
(19 ⁺)	
20^{+}	
(20^{-})	J^{π} : 1995Ju09 give (21 ⁻) In figure 2, which is probably a misprint.
(21 ⁻)	
	$\frac{J^{\pi^{\dagger}}}{17^{+}}$ $\frac{17^{+}}{17^{-}}$ 17^{-} (17^{+}) 18^{+} 18^{-} 18^{+} (18^{+}) 19^{-} (19^{-}) (19^{+}) 20^{+} (20^{-}) (21^{-})

[†] As proposed by 1995Ju09 based on authors' $\gamma\gamma(\theta)$ data and band assignments. 1995Ju09 state that DCO=1.4 for ΔJ =2, quadrupole and DCO=0.8 for ΔJ =1, dipole transitions. The assignments are the same As In Adopted Levels, except that parentheses have been added (by the evaluators) when strong arguments are lacking.

[‡] Band(A): yrast band.

[#] Band(B): γ band, α =0.

[@] Band(b): γ band, $\alpha = 1$.

& Band(C): band based on 13⁺.

^a Band(D): band based on 10⁺.

^b Band(E): $\Delta J=1$ band based on 11⁺. Possibly a dipole magnetic-rotational structure.

^c Band(F): band based on 5⁻.

^d Band(G): band based on 6⁻.

^e Band(H): band based on 5^- .

^f Band(h): Band based on 4⁻.

^g Band(I): $\Delta J=1$ band based on 14⁻. Possibly a dipole magnetic-rotational structure.

^h Band(J): band based on 7⁻.

ⁱ Band(K): band based on 8⁻.

$\gamma(^{132}\text{Ba})$

E_{γ}^{\dagger}	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Comments
125.5 <i>1</i>	4.0 6	2483.71	17-	2358.29 6-	DCO= 0.50 7.
151.9 <i>1</i>	0.38 7	3340.81	9-	3188.99 9-	DCO= 1.06 <i>10</i> .
169.9 <i>1</i>	2.7 2	5891.30	15-	5721.34 14-	DCO= 0.73 5.
175.3 <i>1</i>	0.70 5	2120.22	5-	1944.97 (4 ⁺)	DCO= 0.58 8.
185.4 <i>1</i>	0.40 5	4997.14	12^{+}	4811.81 11+	DCO= 0.82 8.
187.7 <i>1</i>	1.2 1	2120.22	5-	1932.45 6+	DCO= 0.79 5.
203.9 1	1.8 <i>1</i>	5200.96	13+	4997.14 12+	DCO= 0.76 3.
215.7 <i>1</i>	5.0 3	6107.09	16-	5891.30 15-	DCO= 0.75 <i>3</i> .
229.0 1	0.70 5	3950.84	11^{-}	3721.96 10-	DCO= 0.65 7.
235.2 1	1.3 2	3340.81	9-	3105.51 8-	DCO= 0.71 6.
235.9 1	2.3 2	5436.79	14^{+}	5200.96 13+	DCO= 0.72 4.
236.1 1	0.7 2	6107.09	16-	5871.04 15-	DCO= 0.73 7.

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

E_{γ}^{\dagger}	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f \mathbf{J}_f^{\pi}$	Comments
238 1 1	744	2358 29	6-	2120.22 5-	DCO = 0.55.3
230.11 242.51	553	2483 71	17-	$2120.22 \ 5$ $2241 \ 32 \ 6^+$	DCO = 0.53 5
245 5 1	0.60.5	3340.81	9-	3095 34 8-	DCO = 0.40.8
249 1 1	151	3116 77	10+	2867.61 8+	DCO = 1.39.11
27531	0.80.8	5476.26	14+	5200.96 13 ⁺	DCO = 0.665
275.51	3.0.2	2313 18	5-	2027 50 1	DCO = 0.005
285.01	131	3188.00	0-	2027.39 4	DCO = 0.727
207.71	0.90.6	5771 73	15+	5476.26 14 ⁺	DCO = 0.005.
295.71	1.1.7	2718.86	15 7-	2423 35 6-	DCO = 0.43 4
295.01	1.1 I 0 4 1	2710.00 5836.60	16+	2423.33 0 5540.36 15 ⁺	DCO= 0.43 4.
290.01	0.41	2027 50	10	1720.02 4^+	DCO = 0.84.8
202 1 1	4.0.2	2027.39	+ 6 ⁻	2120.22 5	$DCO = 0.64 \ 0.$
207.7.1	4.0 2	2423.33 6414 77	17-	$2120.22 \ 5$	$DCO = 0.05 \ S.$
307.71	3.5 2	0414.77	10+	2800.75 8+	DCO = 0.72 J.
310.0 I 317.0 I	50 Z	5110.77	10	2800.73 8 6274.70 17 ⁺	DCO= 1.59 2.
220 7 1	0.51	2258 20	10	0374.79 17	
225 0 1	0.91	2338.29	0	2027.39 4 5426 70 14+	$DCO_{-} 0.62.4$
260 5 1	2.3 2	3710.06	13	3430.79 14	DCO = 0.024.
262 5 1	0.81 J	2/10.00	/	2536.29 0	DCO = 0.750.
205.51	19.3 10	2465.71	1/	2120.22 3	DCO = 1.40 S.
3/0.3 1	1.2 1	5095.54	ð 17-	2/18.80 /	DCO = 0.575.
3/8.1 I	0.80 /	6485.22	1/	6107.09 16	DCO = 0.54 9.
381.1 1	0.60 5	3/21.96	10	3340.81 9	DCO = 0.62 4.
383.01	0.20 4	1511.20	3 ·	$1128.02 4^{\circ}$	
383.01	0.40 5	3505.76	(9')	3122.76 (8')	DCO = 0.68 /.
386.6 1	0.70.6	3105.51	8	2/18.86 /	DCO = 0.51 4.
387.67	0.33 5	3482.90	9	3095.34 8	
390.3 1	20.0 10	2120.22	5	1729.92 4	DCO= 0.73 3.
395./ 1	3.1 2	2423.35	6	2027.59 4	DCO= 1.5 2.
402.1 1	0.91 14	4062.15	11	3659.87 10	DCO= 0.69 8.
406.9 1	1.3 1	6821.67	18	6414.77 17	DCO = 0.667.
417.5 1	6.0 3	2901.23	8-	2483.71 17	DCO= 0.43 4.
424.6 1	2.2.2	6196.32	16'	5771.73 15'	DCO = 0.56 4.
438.4 1	1.5 2	3340.81	9-	2902.28 7	DCO= 1.32 8.
439.5 1	0.90 10	3340.81	9	2901.23 8	DCO = 0.39 3.
455.0 5	0.68 6	5540.36	15+	5085.71 14+	DCO = 0.615.
455.5 1	1.0 2	3356.93	9-	2901.23 8	DCO= 0.46 4.
462.4 1	8.3 4	5283.04	15-	4820.63 13	DCO = 1.346.
464.6 1		464.62	2	$0.0 0^{+}$	DCO= 1.19 2.
466.0 5	<0.5	7287.7	(19^{-})	6821.67 18	
469.0 5	<0.5	6665.3	(17^{+})	6196.32 16+	
470.8 1	0.90 6	3659.87	10-	3188.99 9-	DCO = 0.60 2.
477.8 1	1.7 2	2901.23	8-	2423.35 6-	DCO = 1.25 7.
479.0 5	0.5 1	7144.3	(18 ⁺)	6665.3 (17 ⁺)	
479.3 1	2.0 2	1511.26	3+	1032.00 2+	
490.2 <i>I</i>	0.60 6	4440.99	12-	3950.84 11-	DCO= 0.72 7.
494.6 <i>1</i>	< 0.2	4557.00	12-	4062.15 11-	
511.3 1	5.2 3	2241.32	6+	1729.92 4+	DCO= 1.40 7.
516.2 <i>I</i>	3.8 2	2027.59	4-	1511.26 3+	DCO = 0.85 8.
537.8 1	1.5 1	6374.79	17+	5836.60 16+	E_{γ} : level-energy difference=538.2. DCO= 0.62 6.
540.0 1	2.1 <i>I</i>	3340.81	9-	2800.75 8+	DCO= 0.77 5.
542.8 <i>1</i>	0.45 7	2901.23	8-	2358.29 6-	DCO= 1.2 2.
547.0 5	0.3 1	5104.83	13-	4557.00 12-	
551.3 <i>I</i>	1.0 <i>I</i>	2483.71	17^{-}	1932.45 6+	DCO= 0.63 6.
559.5 1	2.6 2	2800.75	8+	2241.32 6+	DCO= 1.35 9.
567.4 1	12.3 7	1032.00	2+	464.62 2+	DCO= 0.95 4.

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

E_{γ}^{\dagger}	I_{γ}	E_i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Comments
59371	0 34 6	3950.84	11-	3356.93 9-	
598 7 1	513	2718.86	7-	2120.22 5	DCO = 1.39.6
601.7 1	6.3.4	1729.92	, 4 ⁺	$1128.02 4^+$	DCO = 0.80.4
603.4 1	1.5 /	2961.68	8-	2358.29 6	DCO = 1.40.14
608.0.5	0.3 /	5891.30	15-	5283.04 15-	
610.2 /	10.0.5	3950.84	11-	3340.81 9-	DCO= 1.39 6.
616.5 1	1.9 1	3721.96	10-	3105.51 8-	$DCO = 1.51 \ 14.$
621.8 <i>1</i>	1.3 <i>I</i>	3105.51	8-	2483.71 17-	DCO=0.62.
622.1 <i>1</i>	2.3 2	3340.81	9-	2718.86 7-	
624.8 <i>1</i>	0.37 5	5336.64	14^{-}	4711.88 13-	
626.2 1	1.3 <i>I</i>	2867.61	8+	2241.32 6+	
626.7 1	1.2 1	3721.96	10^{-}	3095.34 8-	DCO= 1.5 2.
630.9 1	0.60 8	4547.68	12^{+}	3916.49 12+	DCO= 1.37 <i>13</i> .
663.3 1	100	1128.02	4+	464.62 2+	DCO= 1.26 2.
671.4 <i>1</i>	1.3 2	5376.31	14^{+}	4704.96 12+	DCO= 1.43 <i>12</i> .
672.0 1	1.5 <i>1</i>	3095.34	8-	2423.35 6-	DCO= 1.4 2.
682.1 <i>1</i>	1.5 2	3105.51	8-	2423.35 6-	DCO= 1.4 2.
683.8 1	1.3 <i>I</i>	4362.34	12^{+}	3678.46 10+	DCO= 1.5 2.
686.4 <i>1</i>	0.7 2	5376.31	14^{+}	4689.86 12+	DCO= 1.3 2.
697.9 <i>1</i>	16.8 9	1729.92	4+	1032.00 2+	DCO= 1.35 2.
705.2 10	16.3 9	3188.99	9-	2483.71 17-	DCO= 1.36 <i>3</i> .
708.3 1	1.2 2	5991.35	16-	5283.04 15-	$DCO= 0.45 \ 6.$
709.1 <i>1</i>	0.60 10	2935.60	(7^{+})	2226.50 (5 ⁺)	
715.2 <i>1</i>	1.6 2	2226.50	(5+)	1511.26 3+	
^x 716.2 [‡] 1	0.8 2				DCO= 1.13 <i>12</i> .
719.0 <i>1</i>	2.9 2	4440.99	12^{-}	3721.96 10-	DCO= 1.16 9.
723.3 1	0.55 5	5085.71	14^{+}	4362.34 12+	DCO= 1.43 <i>13</i> .
724.0 5	0.16 4	4229.8		3505.76 (9 ⁺)	
731.8 <i>1</i>	1.1 2	3599.27	10^{+}	2867.61 8+	DCO= 1.3 2.
734.6 1	2.9 2	5540.36	15^{+}	4805.97 14+	DCO= 0.46 3.
737.2 1	0.75 9	3095.34	8-	2358.29 6-	DCO= 1.5 3.
745.4 1	0.8 1	3546.15	9	2800.75 8+	DCO= 0.85 8.
747.3 1	1.0 1	3105.51	8-	2358.29 6-	DCO= 1.4 2.
758.4 <i>1</i>	8.6 5	4820.63	13-	4062.15 11-	DCO= 1.40 4.
758.7 <i>1</i>	4.8 <i>3</i>	3659.87	10^{-}	2901.23 8-	DCO= 1.41 5.
761.1 <i>1</i>	8.2 5	4711.88	13-	3950.84 11-	DCO= 1.36 4.
763.0 5	0.8 2	4362.34	12^{+}	3599.27 10+	DCO= 1.3 2.
764.0 <i>1</i>	1.5 2	3482.90	9-	2718.86 7-	DCO= 1.3 2.
764.4 <i>1</i>	0.79 8	5321.45	14-	4557.00 12-	DCO= 1.4 2.
783.1 <i>1</i>	1.0 1	4689.86	12^{+}	3906.71 11+	DCO= 0.39 5.
789.9 <i>1</i>	5.0 <i>3</i>	3906.71	11+	3116.77 10+	$DCO= 0.39 \ 4.$
798.3 1	1.2 2	4704.96	12^{+}	3906.71 11+	DCO= 0.39 14.
798.6 <i>1</i>	4.4 4	3599.27	10^{+}	2800.75 8+	
799.6 <i>1</i>	30.0 15	3916.49	12+	3116.77 10+	$DCO = 1.37 \ 3.$
804.2 1	64 4	1932.45	6+	1128.02 4+	$DCO = 1.29 \ 3.$
810.9 <i>1</i>	3.7 2	3678.46	10+	2867.61 8+	$DCO= 1.22 \ 6.$
817.0 1	1.0 1	1944.97	(4^{+})	1128.02 4+	
^x 828.5 [‡] 1	1.2 2				
834.9 1	0.90 7	6374.79	17+	5540.36 15+	E_{γ} : level-energy difference=834.4. DCO= 1.4 2.
837.4 1	1.2 1	5871.04	15^{-}	5033.69 13-	DCO= 1.26 <i>13</i> .
840.2 <i>1</i>	1.0 2	6414.77	17^{-}	5574.56 15-	
855.0 <i>1</i>	1.0 2	6691.70	18^{+}	5836.60 16+	DCO= 1.3 2.
857.3 1	1.7 <i>3</i>	3340.81	9-	2483.71 17-	DCO= 1.31 8.
857.6 1	1.6 <i>1</i>	5891.30	15^{-}	5033.69 13-	DCO= 1.32 11.

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

E_{γ}^{\dagger}	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Comments
862.7 1	5.9 3	5574.56	15^{-}	4711.88 13-	DCO= 1.32 7.
868.3 1	48 3	2800.75	8+	1932.45 6+	DCO = 1.29 3.
871.7 <i>1</i>	0.8 2	5436.79	14^{+}	4565.07 12+	DCO= 1.6 2.
873.0 5		7287.7	(19^{-})	6414.77 17-	
873.1 <i>1</i>	13.7 7	4062.15	11-	3188.99 9-	DCO= 1.36 4.
880.5 1	0.40 5	5321.45	14^{-}	4440.99 12-	DCO= 1.5 2.
882.9 <i>1</i>	0.80 7	4365.80	(11^{-})	3482.90 9-	
889.1 <i>1</i>	1.3 <i>3</i>	5436.79	14^{+}	4547.68 12+	DCO= 1.39 <i>10</i> .
889.6 <i>1</i>	15.7 8	4805.97	14^{+}	3916.49 12+	DCO= 1.36 <i>3</i> .
892.0 <i>1</i>	1.0 3	6268.31	16^{+}	5376.31 14+	DCO= 1.3 2.
895.6 <i>1</i>	1.5 <i>1</i>	5336.64	14-	4440.99 12-	DCO= 1.46 <i>11</i> .
897.3 <i>1</i>	2.3 2	4557.00	12^{-}	3659.87 10-	DCO= 1.30 8.
899.7 <i>1</i>	4.6 2	2027.59	4-	1128.02 4+	DCO= 1.13 7.
900.5 1	0.30 3	5721.34	14-	4820.63 13-	DCO = 0.67 7.
904.0 1	0.90 7	4820.63	13-	3916.49 12+	$DCO= 0.73 \ 7.$
^x 908.1 [‡] 1	0.9 2				
910.7 <i>1</i>	1.7 <i>1</i>	6485.22	17^{-}	5574.56 15-	DCO= 1.3 2.
911.2 <i>1</i>	0.26 6	5476.26	14^{+}	4565.07 12+	
915.5 <i>1</i>	0.44 6	5721.34	14-	4805.97 14+	DCO= 1.40 <i>14</i> .
928.5 <i>1</i>	0.5 1	5476.26	14^{+}	4547.68 12+	
930.0 5		7751.7	(20^{-})	6821.67 18-	
932.7 1	2.0 5	7624.41	20^{+}	6691.70 18+	DCO = 1.5 2.
935.1 <i>1</i>	8.0 4	2867.61	8+	1932.45 6+	DCO = 1.32 6.
938.1 <i>1</i>	1.5 2	3805.87	10^{+}	2867.61 8+	$DCO = 1.40 \ I3.$
938.3 1	0.9 2	6274.94	16-	5336.64 14-	$DCO = 1.36 \ 12.$
944.0 1	1.7 2	7239.1	19-	6295.0 17-	$DCO = 1.37 \ 14.$
948.6 <i>I</i>	1.7 2	4547.68	12+	3599.27 10+	$DCO = 1.39 \ I2.$
965.8 1	1.8 2	4565.07	12+	3599.27 10+	DCO = 1.37 II.
969.77	2.5 3	2902.28	/	1932.45 6	DCO = 0.895.
9/1.6 /	3.2 1	5033.69	13	4062.15 11	DCO = 1.38 / .
992.3 I	14.2 /	2120.22	5 10 [±]	$1128.02 4^{+}$	DCO = 0.774.
1005.5 1	0.5 1	5805.87	10	2800.75 8	DCO= 1.0 3.
1012.0 2	222	0293.0	$\frac{1}{(6^+)}$	3283.04 13 1128.02 4 ⁺	DCO = 1.24.11
1013.3 1	3.2 2	2141.55	(0)	1120.02 4	E : placement seems suspect in 10051000 6+ a vibration level is
					L_{γ} . practicellist suspect in 1995,009, 0 - γ -violation level is at 2241 with a 1113.5 γ from this level to 4 ⁺ level.
1022.7 1	0.35 7	7397.49	(19')	63/4.79 17	
1030.4 1	4.0 3	5836.60	16'	4805.97 14	DCO = 1.394.
1032.0 1	7.0 10	1032.00	2° 12=	$0.0 0^{-1}$	DCO = 1.36 0.
1042.7 1	0.80 10	5104.85	15	4002.15 11	DCO = 1.22 I2.
1040.7 1	4.4 5	1311.20	5 12+	404.02 Z	$DCO = 1.00 \ 9.$
1055.1 1	0.45 8	4997.14 5630.0	(14^+)	4565 07 12 ⁺	$DCO= 1.45 \ IO.$
1066 7 1	0.20 5	5872.68	15+	4305.07 12	DCO = 0.6.2
1068 7 1	0.0 2	4985 20	13+	3016 40 12+	DCO = 0.4 l
1072.0.5	0.0 2	8311.1	(21^{-})	7239 1 19	
1076.2.1	0.50.5	3943.86	10^{+}	2867.61 8+	DCO = 1.3.2
1080.7 1	0.20 5	4997.14	12^{+}	3916.49 12+	
1083.0 5	0.22 6	5630.9	(14^{+})	4547.68 12+	
1090.4 1	0.30 3	4997.14	12+	3906.71 11+	DCO= 0.64 <i>6</i> .
1098.5 1	< 0.2	2226.50	(5^{+})	1128.02 4+	
1113.5 1	7.2 4	2241.32	6 ⁺	1128.02 4+	DCO= 1.25 11.
1118.8 <i>1</i>	0.72 5	6955.41	18^{+}	5836.60 16+	DCO= 1.35 9.
1143.0 <i>1</i>	0.50 7	3943.86	10+	2800.75 8+	I_{γ} : 0.5 7 quoted In table 1 of 1995Ju09 is probably a misprint. DCO= 1.2 2.

$\gamma(^{132}Ba)$ (continued)

E_{γ}^{\dagger}	Iγ	E _i (level)	\mathbf{J}_i^{π}	E _f	J_f^{π}	Comments
1169.3 <i>1</i>	2.5 2	5085.71	14^{+}	3916.49 1	2^{+}	DCO= 1.42 <i>14</i> .
1190.3 <i>1</i>	0.90 8	3122.76	(8^{+})	1932.45 6	5^{+}	DCO= 1.20 11.
1265.3 <i>1</i>	5.8 <i>3</i>	1729.92	4+	464.62 2	2+	DCO= 1.40 <i>9</i> .
1312.0 5	0.33 5	2440.0		1128.02 4	1 +	
1318.8 <i>1</i>		4997.14	12^{+}	3678.46 1	10^{+}	
1328.3 <i>1</i>	0.40 5	6134.28	15	4805.97 1	4+	DCO= 0.9 2.
1695.1 <i>1</i>	0.20 6	4811.81	11^{+}	3116.77 1	10^{+}	

[†] For $E\gamma$'s with an uncertainty of 0.5 keV, the energy is quoted to nearest keV by 1995Ju09. The evaluators have added an extra significant digit to be consistent with specification of uncertainty.

[±] Feeds band starting at 1945, 4⁻ through 603.4 γ ; but not assigned to a level.

 $x \gamma$ ray not placed in level scheme.



¹³²₅₆Ba₇₆

¹²⁴Sn(¹³C,5nγ) 1995Ju09





¹³²₅₆Ba₇₆



¹³²₅₆Ba₇₆



11

¹²⁴Sn(¹³C,5nγ) 1995Ju09



¹³²₅₆Ba₇₆

¹²⁴Sn(¹³C,5nγ) 1995Ju09



¹³²₅₆Ba₇₆





¹³²₅₆Ba₇₆

