⁷⁶Ge(⁷Li,4nγ) E=35 MeV 2002Sc13

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

2002Sc13: Measured E γ , I γ , $\gamma\gamma$, $\gamma\gamma(\theta)$ (DCO), γ (lin pol), lifetimes by Doppler-shift attenuation (DSA) method using an array of six EUROBALL CLUSTERS positioned at different angles.

⁷⁹Br Levels

E(level) [†]	Jπ‡	T _{1/2} #	Comments
0 ^{<i>c</i>}	3/2-		
207.57 [@] 10	9/2+	4.85 s 4	%IT=100 T _{1/2} : from Adopted Levels.
217.07 <mark>b</mark> 9	$5/2^{-}$		-,- *
261.20 ^h 24	3/2-		J^{π} : from Adopted Levels. 2002Sc13 give $5/2^{(-)}$.
523.25 ^f 24	5/2-		J^{π} : from Adopted Levels.
761.09 ^C 12	7/2-		
796.68 [@] 13	$13/2^+$		
953.80 ^h 21	$(7/2^{-})$		
1068.24 ^b 12	9/2-		
1180.65 ^{&} 23	$11/2^+$		
1332.47 ^f 21			
1682.51 ^{<i>a</i>} 24	$13/2^{+}$		
1713.41 [°] 18	$11/2^{-}$		
1731.95 ^{^w} 15	$17/2^{+}$	0.76 ps 21	
1780.67 ⁿ 17	$(11/2^{-})$		
1948.16 ⁰ 14	$13/2^{-}$		
1957.08 ^{&} 16	$15/2^{+}$	0.21 ps 7	
2279.3 ^f 4			
2392.64 ^d 22	13/2-		
2421.06 ^{<i>a</i>} 22	$17/2^{+}$		
2468.61 19	$\frac{15/2^{-}}{12/2^{-}}$		
2477.04	15/2		
2580.10 10	13/2	0.55 mg 28	
2723.33 22	17/2	0.55 ps 28	
$2113.95^{\circ} 17$	1//2	0.28 mg 4	
2000.10 - 17	$\frac{21}{2}$	0.28 ps 4	
$2902.23^{-1}23$	19/2	0.17 ps 3	
3087.90° 19 3169.21° 22	(19/2) $19/2^{-}$	0.76 ps 21	
$3235 1 \int_{-\infty}^{0} 6$	17/2		
3365.36 ^{<i>a</i>} 23	$21/2^{+}$		
3534.81 ^d 25	$(21/2)^{-}$	0.38 ps 10	
3559.31 ^b 22	$21/2^{(-)}$	0.42 ps 14	
3670.8 ^g 3	$(21/2^+)$	F	
3816.8 4			
3908.3 ^e 4			
3935.98 ^{°°} 24	$(23/2)^+$	0.187 ps 35	
4000.0 3	25/2 25/2+	0.150 27	
4110.93 20	23/2	0.159 ps 21	

⁷⁹Br Levels (continued)

E(level) [†]	$J^{\pi \ddagger}$	T _{1/2} #	Comments
4152.6 ^d 3 4340.8 4	(23/2)-	0.139 ps 28	
4529.9 ^a 4	$25/2^+$	0.35 ps 7	$T_{1/2}$: effective lifetime, not corrected for side feeding.
4580.9 ^b 3 4720.9 ^g 3	(25/2) ⁻ (25/2 ⁺)	0.26 ps 6	
4803.1 ^{<i>d</i>} 4 4896.0 7 4965.0 ^{<i>e</i>} 6	(25/2)-	0.118 ps 21	
5131.9& 3	$(27/2^{+})$		
5214.0 [°] 4	$(27/2^{-})$		
5505.5 [@] 4	$29/2^{+}$	0.049 ps 21	
5578.8 ^d 5	$(27/2^{-})$		
5823.7 ^b 5	$(29/2^{-})$	0.097 ps 28	
5863.5 ^a 6	$(29/2^+)$	I	
6019.3 ⁸ 4	$(29/2^+)$		
6199.3 ^e 8			
6384.1 ^d 6	$(29/2^{-})$		
6526.9 ^{&} 5	$(31/2^+)$	0.17 ps 6	
6536.8 [°] 7	$(31/2^{-})$		
7066.8 [@] 6	$(33/2^+)$		
7224.0 ^b 7	$(33/2^{-})$		
7379.7 ^a 8	$(33/2^+)$		
7591.7 ^e 10	(25/2-)		
8061.6 9	(35/2)		
8149.4 ^a 6	$(35/2^+)$		
8777.5 ⁰ 9	$(37/2^{-})$		
8811.5 [@] 8	$(37/2^+)$		

[†] From least-squares fit to $E\gamma$ data.

[‡] As proposed by 2002Sc13 based on $\gamma\gamma(\theta)$ (DCO), $\gamma(\text{lin pol})$ and band assignments. The parentheses, In some cases, have been added by the evaluator when strong arguments for J^{π} assignments are lacking (see Adopted Levels for details).

[#] From DSA (2002Sc13).

[@] Band(A): Band based on $9/2^+$, $\alpha = +1/2$.

& Band(a): Band based on $9/2^+$, $\alpha = -1/2$.

- ^{*a*} Band(B): Band based on $13/2^+$, $\alpha = +1/2$.
- ^b Band(C): Band based on $3/2^-$, $\alpha = +1/2$.
- ^c Band(c): Band based on $3/2^-$, $\alpha = -1/2$.
- d Band(D): Magnetic dipole (rotational) band based on $13/2^-.$
- ^e Band(E): Band structure.
- ^f Band(F): Band structure.
- ^g Band(G): Band based on $21/2^{(+)}$.
- ^{*h*} Band(H): Band based on $3/2^{-}$.

$\gamma(^{79}\mathrm{Br})$

All DCO values correspond to gates on $\Delta J=2$, quadrupole transitions, unless otherwise stated. DCO(1)= $\Delta J=1$, dipole gated, DCO(2)= $\Delta J=2$, quadrupole gated.

E_{γ}^{\dagger}	I_{γ}	E_i (level)	\mathbf{J}_i^π	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult.	α^{\ddagger}	Comments
104.3 5	0.5 1	2580.10	$15/2^{-}$	2477.6	13/2-	D		DCO(1)=0.9 2
187.6 <i>3</i> 193.8 <i>1</i>	3.2 <i>3</i> 11 <i>1</i>	2580.10 2773.93	15/2 ⁻ 17/2 ⁻	2392.64 2580.10	13/2 ⁻ 15/2 ⁻	D D		E_{γ} : poor fit. Level-energy difference=102.5. DCO(1)=1.02 9 DCO(2)=0.55 3
207.5 1		207.57	9/2+	0	3/2-	E3	0.311	$\alpha(K)=0.263 4; \alpha(L)=0.0410 6;$ $\alpha(M)=0.00653 10$ $\alpha(N)=0.000541 8$ E. Mult : from Adopted Gammas
217.1 <i>I</i>	36 4	217.07	$5/2^{-}$	0	$3/2^{-}$			Ly, Martin Holli Maopted Sammas.
234.9 5	0.4 1	1948.16	13/2-	1713.41	$11/2^{-}$			
238.0 5	1.1 <i>I</i>	761.09	7/2-	523.25	5/2-			
256.9 5	1.0 1	2725.35	$17/2^{-}$	2468.61	$15/2^{-}$	D		
201.1.3	2.94	261.20	$\frac{3}{2}$	2270.2	3/2	D		DCO(1)=0.92 DCO(1)=1.02
304.9.5	1.6.2	2360.10	13/2 $17/2^{-}$	2279.5	15/2-	D		DCO(1) = 1.0 2 DCO(1) = 1.0 1
306.6.5	1.9.2	1068.24	$9/2^{-}$	761.09	$\frac{13/2}{7/2^{-}}$	D		DCO(2)=0.65.8
314.0 <i>I</i>	11 1	3087.96	$(19/2)^{-}$	2773.93	$17/2^{-}$	D		DCO(2)=0.50 3
348.6 5	0.6 1	3908.3		3559.31	$21/2^{(-)}$			
362.2 5	0.7 1	3087.96	$(19/2)^{-}$	2725.35	$17/2^{-}$	D		DCO(2)=0.6 1
380.6 5	0.9 1	1713.41	$11/2^{-}$	1332.47				
383.2 5	0.9 1	1180.65	11/2+	796.68	13/2+	(M1)	0.00361	α (K)=0.00320 5; α (L)=0.000342 5; α (M)=5.44×10 ⁻⁵ 8
								$\alpha(N) = 5.08 \times 10^{-6} 8$
								$POL = -0.02 \ I.$
389.9 5	1.3 <i>I</i>	3559.31	$21/2^{(-)}$	3169.21	19/2-	D		DCO(2)=0.5 1
395.0 3	2.1 2	3169.21	19/2-	2773.93	17/2-	D		DCO(2)=0.49 8
442.8 5	0.2 1	3169.21	19/2	2/25.35	1/2	(\mathbf{D})		DCO(2) = 0.9 I
444.2 J	1.9 2	2392.04	13/2	1946.10	13/2	(D)		DCO(2)=0.0 I DCO influenced by $A46.7a \pm A47.6a$ doublet
446.7 <i>3</i>	4.6 5	3534.81	$(21/2)^{-}$	3087.96	(19/2)-	(M1)	0.00251	DCO(2)=0.49 7
								α (K)=0.00223 4; α (L)=0.000237 4; α (M)=3.77×10 ⁻⁵ 6
								$\alpha(N)=3.53\times10^{-6} 5$
						-		DCO for $446.7\gamma + 447.6\gamma$. POL= -0.03 1.
447.6 5	1.3 1	1780.67	(11/2 ⁻)	1332.47		(D)		DCO(2)=0.49 7 DCO for 446.7 γ +447.6 γ .
462.6 5	0.5 1	3365.36	$21/2^+$	2902.25	$19/2^+$	D		
464.0 5	1.4 1	2421.06	1/2'	1957.08	$15/2^{+}$	D		DCO(2)=0.46.6
4/1.2 3	3.13	3559.31	$\frac{21}{2}^{+}$	3087.96	(19/2)		0.00101	DCO(2)=0.46 / (K)=0.000181 / (K)=0
501.7 5	3.2 3	1082.31	13/2	1180.05	11/2	(M1)	0.00191	$\alpha(\mathbf{K})=0.00170224; \alpha(\mathbf{L})=0.0001813;$
								$\alpha(M) = 2.8 / \times 10^{-6} 4$
		10111	a a /a –		e (/e(-)			$\alpha(N) = 2.69 \times 10^{-6} 4^{-6}$ POL=-0.10 3.
508.1 5	1.3 1	4066.6	$\frac{23}{2^{-}}$	3559.31	$21/2^{(-)}$			
512.9.5	0.4 I 1.6.2	0019.3	$(29/2^+)$ $(25/2)^-$	5505.5 4066.6	29/2			
515.05	1.02 051	4300.9 2468.61	(23/2) 15/2 ⁻	4000.0 10/2 16	23/2 13/2 ⁻	D		DCO(2) = 0.5.2
523.3 3	2.7.5	523.25	5/2-	0	$3/2^{-1}$	D		DCO(2)=0.5 2
530.3 5	1.5 2	2477.6	$\frac{3}{13/2^{-}}$	1948.16	$\frac{3}{13}/2^{-1}$	(D)		DCO(2)=1.0 2
543.9 <i>1</i>	7.78	761.09	$7/2^{-}$	217.07	5/2-	M1	1.59×10^{-3}	DCO(2)=0.7 1

Continued on next page (footnotes at end of table)

 $^{79}_{35}\mathrm{Br}_{44}$ -4

⁷⁶Ge(⁷Li,4nγ) E=35 MeV 2002Sc13 (continued)

$\gamma(^{79}\text{Br})$ (continued)

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	E_{γ}^{\dagger}	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult.	α^{\ddagger}	Comments
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									$\alpha(K)=0.001414\ 20;\ \alpha(L)=0.0001498\ 21;\alpha(M)=2.38\times10^{-5}\ 4\alpha(N)=2.23\times10^{-6}\ 4$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	565.3 5	1.8 2	2279.3		1713.41	11/2-			10L = -0.10 1.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	570.6 5	1.1 1	3935.98	$(23/2)^+$	3365.36	$\frac{21}{2^+}$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	571.2 5 589.0 <i>1</i>	5.5 4 100 2	796.68	13/2+	207.57	9/2 ⁺	E2	0.00182	DCO(2)=0.92 $\alpha(K)=0.001618\ 23;\ \alpha(L)=0.0001750\ 25;$ $\alpha(M)=2.78\times10^{-5}\ 4$ $\alpha(N)=2.57\times10^{-6}\ 4$ POI =+0.08 <i>I</i>
	593.5 <i>3</i>	3.8 4	4152.6	$(23/2)^{-}$	3559.31	$21/2^{(-)}$			101-10.001.
	603.9 5	1.8 2	4720.9	$(25/2^+)$	4116.93	$25/2^+$			
	611.6 5	1.8 2	2392.64	13/2-	1780.67	$(11/2^{-})$	D		DCO(2)=0.5 1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	617.4 <i>3</i>	3.0 <i>3</i>	4152.6	$(23/2)^{-}$	3534.81	$(21/2)^{-}$	M1		DCO(2)=0.5 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							_		POL=-0.01 1.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	631.7 5	1.9 2	2580.10	15/2-	1948.16	13/2-	D		DCO(2)=0.49 8
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	644.9 <i>3</i>	2.4 2	1713.41	11/2	1068.24	9/2	D		DCO(2)=0.577
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	640.0.5	152	1902 1	$(25/2)^{-}$	4152.6	$(22/2)^{-}$	M1		POL = -0.08 2.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	049.9 J	1.3 2	4005.1	(23/2)	4152.0	(23/2)	IVII		POI = -0.06.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	669.6.5	0.9.1	4340.8		3670.8	$(21/2^{+})$			10L- 0.00 J.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	687.7 3	3.6 4	2468.61	$15/2^{-}$	1780.67	$(11/2^{-})$			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	692.5 <i>3</i>	2.1 2	953.80	$(7/2^{-})$	261.20	3/2-			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	700.7 3	5.1 5	3169.21	19/2-	2468.61	15/2-	E2		DCO(2)=0.9 2 POL=+0.07 1.
736.7 5 1.4 <i>l</i> 2468.61 15/2 ⁻ 1731.95 17/2 ⁺ (D) DCO(2)=0.5 <i>l</i> 737.1 5 1.5 2 953.80 (7/2 ⁻) 217.07 5/2 ⁻ DCO(2)=1.0 <i>l</i> 738.5 3 3.7 4 2421.06 17/2 ⁺ 1682.51 13/2 ⁺ E2 DCO(2)=1.0 <i>l</i> 754.9 3 4.8 5 2468.61 15/2 ⁻ 1713.41 11/2 ⁻ E2 DCO(2)=0.9 <i>l</i> 759.4 5 1.4 <i>l</i> 1713.41 11/2 ⁻ 953.80 (7/2 ⁻) POL=+0.07 2. 760.3 5 0.8 <i>l</i> 3534.81 (21/2) ⁻ 2773.93 17/2 ⁻ POL=+0.01 <i>l</i> . 761.5 3 4.4 4 761.09 7/2 ⁻ 0 3/2 ⁻ (E2) DCO(2)=0.9 <i>3</i> 776.5 5 0.8 <i>l</i> 1957.08 (21/2 ⁺) 2902.25 19/2 ⁺ E2 DCO(2)=1.0 <i>4</i> 776.5 5 0.8 <i>l</i> 1957.08 15/2 ⁺ 1180.65 11/2 ⁺ E2 DCO(2)=1.0 <i>4</i> 777.4 3 5.9 6 2725.35 17/2 ⁻ 1948.16 13/2 ⁻ (E2) DCO(1)=1.5 <i>l</i> 785.8 5 1.0 <i>l</i> </td <td>712.3 5</td> <td>1.2 1</td> <td>1780.67</td> <td>$(11/2^{-})$</td> <td>1068.24</td> <td>9/2-</td> <td></td> <td></td> <td></td>	712.3 5	1.2 1	1780.67	$(11/2^{-})$	1068.24	9/2-			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	736.7 5	1.4 1	2468.61	15/2-	1731.95	17/2+	(D)		DCO(2)=0.5 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	737.1 5	1.5 2	953.80	$(7/2^{-})$	217.07	$5/2^{-}$	F 2		
754.9 34.8 52468.61 $15/2^ 1713.41$ $11/2^-$ E2DCO(2)=0.9 I759.4 51.4 I1713.41 $11/2^-$ 953.80 $(7/2^-)$ POL=+0.07 2.760.3 50.8 I3534.81 $(21/2)^ 2773.93$ $17/2^-$ DCO(2)=0.9 3761.5 34.4 4761.09 $7/2^-$ 0 $3/2^-$ (E2)DCO(2)=0.9 3769.3 50.4 I3670.8 $(21/2^+)$ 2902.25 $19/2^+$ POL=+0.01 I.765.5 50.8 I1957.08 $15/2^+$ 1180.65 $11/2^+$ E2DCO(2)=1.0 4776.5 50.8 I1957.08 $15/2^+$ 1180.65 $11/2^+$ E2DCO(2)=0.87 6777.4 35.9 62725.35 $17/2^-$ 1948.16 $13/2^-$ (E2)DCO(2)=0.87 6785.3 51.0 I4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ POL=+0.03 I.785.4 50.4 I6384.1 $(29/2^-)$ 2773.93 $17/2^-$ QDCO(1)=1.5 I804.7 51.8 23670.8 $(21/2^+)$ 2866.18 $21/2^+$ DCO(2)=1.0 2DCO(2)=1.0 2809.2 51.0 I1332.47523.25 $5/2^-$ DCO(2)=1.0 2DCO(2)=1.0 2809.9 51.6 23534.81 $(21/2)^-$ 2725.35 $17/2^-$ (E2)DCO(2)=1.0 2809.9 51.6 23534.81 $(21/2)^-$ 2725.35 $17/2^-$ DCO for 809.9y+809.2y.809.9 51.6 23534.81 $(21/2)^-$ 2725.35 $17/2^-$ DCO for 809.9y+809.2y.8	138.3 3	5.74	2421.00	17/2	1082.31	13/2	E2		DCO(2)=1.0 I
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	754 9 3	485	2468 61	$15/2^{-}$	1713 41	$11/2^{-}$	E2		DCO(2)=0.9.1
759.4 51.4 I1713.41 $11/2^-$ 953.80 $(7/2^-)$ 760.3 50.8 I3534.81 $(21/2)^ 2773.93$ $17/2^ DCO(2)=0.9$ $POL=+0.01$ 761.5 34.4 4761.09 $7/2^ 0$ $3/2^ (E2)$ $DCO(2)=0.9$ 3 769.3 50.4 I3670.8 $(21/2^+)$ 2902.25 $19/2^+$ $POL=+0.01$ $I.$ 775.4 50.7 I5578.8 $(27/2^-)$ 4803.1 $(25/2)^ DCO(1)=1.0$ 4 776.5 50.8 I1957.08 $15/2^+$ 1180.65 $11/2^+$ $E2$ $DCO(2)=1.1$ 4 777.4 35.9 62725.35 $17/2^ 1948.16$ $13/2^ (E2)$ $DCO(2)=0.87$ 6 785.3 51.0 I4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ 785.85 1.0 I 3559.31 $21/2^{(-)}$ 2773.93 $17/2^-$ 799.4 3 2.4 2 2580.10 $15/2^ 1780.67$ $(11/2^-)$ Q $DCO(1)=1.5$ I804.7 5 1.8 2 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ $DCO(2)=1.0$ 2809.2 5 1.0 I 1332.47 523.25 $5/2^ DCO(2)=1.0$ 2809.9 5 1.6 2 3534.81 $(21/2)^ 2725.35$ $17/2^ DCO(2)=1.0$ 2820.5 5 0.5 I 3908.3 3087.96 $(19/2)^ DCO(2)=1.0$ 2825.7 3 2.12 2773.93 $17/2^ 1948.16$ $13/2^ DCO(2)=1.0$ 2827.0 3 2.53 17	101190	1.0 5	2100.01	10/2	1710.11	11/2	112		POL = +0.07 2.
760.3 5 0.8 1 3534.81 $(21/2)^{-}$ 2773.93 $17/2^{-}$ 0 $3/2^{-}$ (E2) DCO(2)=0.9 3 POL=+0.01 I. 769.3 5 0.4 1 3670.8 $(21/2^{+})$ 2902.25 19/2 ⁺ POL=+0.01 I. 775.4 5 0.7 1 5578.8 $(27/2^{-})$ 4803.1 $(25/2)^{-}$ D DCO(1)=1.0 4 776.5 5 0.8 1 1957.08 15/2 ⁺ 1180.65 11/2 ⁺ E2 DCO(2)=0.87 6 777.4 3 5.9 6 2725.35 17/2 ⁻ 1948.16 13/2 ⁻ (E2) DCO(2)=0.87 6 785.3 5 1.0 1 4720.9 $(25/2^{+})$ 3935.98 $(23/2)^{+}$ POL=+0.03 I. 785.8 5 1.0 1 3559.31 $21/2^{(-)}$ 2773.93 17/2 ⁻ PQ 799.4 3 2.4 2 2580.10 15/2 ⁻ 1780.67 $(11/2^{-})$ Q DCO(1)=1.5 I 804.7 5 1.8 2 3670.8 $(21/2^{+})$ 2866.18 $21/2^{+}$ DCO for 809.9 γ +809.2 γ . 809.9 5 1.6 2 3534.81 $(21/2)^{-}$ 2725.35 17/2 ⁻ DCO for 809.	759.4 5	1.4 1	1713.41	$11/2^{-}$	953.80	$(7/2^{-})$			
761.5 3 4.4 4 761.09 $7/2^-$ 0 $3/2^-$ (E2)DCO(2)=0.9 3 POL=+0.01 $I.$ 769.3 5 0.4 I 3670.8 $(21/2^+)$ 2902.25 $19/2^+$ DCO(1)=1.0 4 775.4 5 0.7 I 5578.8 $(27/2^-)$ 4803.1 $(25/2)^-$ DDCO(1)=1.0 4 776.5 5 0.8 I 1957.08 $15/2^+$ 1180.65 $11/2^+$ E2DCO(2)=1.1 4 777.4 3 $5.9 6$ 2725.35 $17/2^-$ 1948.16 $13/2^-$ (E2)DCO(2)=0.87 6 785.3 5 1.0 I 3559.31 $21/2^{(-)}$ 2773.93 $17/2^-$ 700.67(11/2^-)799.4 3 2.4 2 2580.1015/2^-1780.67 $(11/2^-)$ QDCO(1)=1.5 I 804.7 5 1.8 2 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ DCO(2)=1.0 2 809.2 5 1.0 I 1332.47523.25 $5/2^-$ DCO(2)=1.0 2 DCO (or $809.9\gamma+809.2\gamma$.809.9 5 1.6 2 3534.81 $(21/2)^-$ 2725.35 $17/2^-$ (E2)DCO(2)=1.0 2 809.9 5 1.6 2 3534.81 $(21/2)^-$ 2725.35 $17/2^-$ DCO (or $809.9\gamma+809.2\gamma$.809.9 5 1.6 2 3534.81 $(21/2)^-$ 2725.35 $17/2^-$ DCO (c)=1.0 2 825.7 3 2.1 2 2773.93 $17/2^-$ 1948.16 $13/2^-$ QDCO(2)=1.0 2 825.7 3 2.1 2 2773.93 $17/2^-$ 1948.16 $13/2^-$ QDCO(2)=1.0 2	760.3 5	0.8 1	3534.81	$(21/2)^{-}$	2773.93	17/2-			
769.3 5 $0.4 I$ 3670.8 $(21/2^+)$ 2902.25 $19/2^+$ 775.4 5 $0.7 I$ 5578.8 $(27/2^-)$ 4803.1 $(25/2)^-$ D $DCO(1)=1.0 4$ 776.5 5 $0.8 I$ 1957.08 $15/2^+$ 1180.65 $11/2^+$ E2 $DCO(2)=1.1 4$ 777.4 3 $5.9 6$ 2725.35 $17/2^ 1948.16$ $13/2^-$ (E2) $DCO(2)=0.87 6$ 785.3 5 $1.0 I$ 4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ $POL=+0.03 I.$ 785.3 5 $1.0 I$ 4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ 785.8 5 $1.0 I$ 3559.31 $21/2^{(-)}$ $2773.93 17/2^-$ 799.4 3 $2.4 2$ 2580.10 $15/2^ 1780.67 (11/2^-)$ Q804.7 5 $1.8 2$ 3670.8 $(21/2^+)$ $2866.18 21/2^+$ 805.4 5 $0.4 I$ 6384.1 $(29/2^-)$ $5578.8 (27/2^-)$ 809.9 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35 17/2^ DCO(2)=1.0 2$ 809.9 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35 17/2^ DCO(2)=1.0 2$ 820.5 5 $0.5 I$ 3908.3 $3087.96 (19/2)^ DCO(2)=1.0 2$ 825.7 3 $2.1 2$ $2773.93 17/2^ 1948.16 13/2^ Q$ $DCO(2)=1.0 2$ 827.0 3 $2.5 3$ $1780.67 (11/2^-)$ $953.80 (7/2^-)$ $DCO(2)=1.0 2$	761.5 3	4.4 4	761.09	7/2-	0	3/2-	(E2)		DCO(2)=0.9 <i>3</i> POL=+0.01 <i>1</i> .
775.4 5 $0.7 I$ 5578.8 $(27/2^-)$ 4803.1 $(25/2)^-$ DDCO(1)=1.0 4776.5 5 $0.8 I$ 1957.08 $15/2^+$ 1180.65 $11/2^+$ E2DCO(2)=1.1 4777.4 3 $5.9 6$ 2725.35 $17/2^ 1948.16$ $13/2^-$ (E2)DCO(2)=0.87 6785.3 5 $1.0 I$ 4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ $POL=+0.03 I.$ 785.8 5 $1.0 I$ 3559.31 $21/2(^-)$ 2773.93 $17/2^-$ 799.4 3 $2.4 2$ 2580.10 $15/2^ 1780.67$ $(11/2^-)$ Q804.7 5 $1.8 2$ 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ $DCO(2)=1.0 2$ 804.7 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35$ $17/2^ DCO(2)=1.0 2$ 809.9 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35$ $17/2^ DCO(2)=1.0 2$ 809.9 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35$ $17/2^ DCO(2)=1.0 2$ 820.5 5 $0.5 I$ 3908.3 3087.96 $(19/2)^ DCO(2)=1.0 2$ 825.7 3 $2.1 2$ 2773.93 $17/2^ 1948.16$ $13/2^ Q$ 827.0 3 $2.5 3$ 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$	769.3 5	0.4 1	3670.8	$(21/2^+)$	2902.25	$19/2^{+}$			
776.5 5 $0.8 I$ 1957.08 $15/2^+$ 1180.65 $11/2^+$ $E2$ $DCO(2)=1.1 4$ $POL=+0.03 I.$ 777.4 3 $5.9 6$ 2725.35 $17/2^ 1948.16$ $13/2^ (E2)$ $DCO(2)=0.87 6$ $POL=+0.03 I.$ 785.3 5 $1.0 I$ 4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ $DCO(2)=0.87 6$ $POL=+0.03 I.$ 785.8 5 $1.0 I$ 3559.31 $21/2^{(-)}$ 2773.93 $17/2^-$ 799.4 3 $2.4 2$ 2580.10 $15/2^ 1780.67 (11/2^-)$ Q $DCO(1)=1.5 I$ 804.7 5 $1.8 2$ 3670.8 $(21/2^+)$ $2866.18 21/2^+$ $DCO(2)=1.0 2$ 809.2 5 $1.0 I$ 1332.47 $523.25 5/2^ DCO(2)=1.0 2$ 809.9 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35 17/2^ DCO(2)=1.0 2$ 809.9 5 $1.6 2$ 3534.81 $(21/2)^ 2725.35 17/2^ DCO(2)=1.0 2$ $DCO for 809.9\gamma+809.2\gamma.$ $DCO for 809.9\gamma+809.2\gamma.$ $DCO for 809.9\gamma+809.2\gamma.$ $820.5 5$ $0.5 I$ 3908.3 $3087.96 (19/2)^ 827.0 3$ $2.5 3$ $1780.67 (11/2^-)$ $953.80 (7/2^-)$	775.4 5	0.7 1	5578.8	$(27/2^{-})$	4803.1	$(25/2)^{-}$	D		DCO(1)=1.0 4
777.4 3 5.9 6 2725.35 $17/2^-$ 1948.16 $13/2^-$ (E2)POL=+0.03 $I.$ 785.3 5 1.0 I 4720.9 $(25/2^+)$ 3935.98 $(23/2)^+$ POL=+0.03 $I.$ 785.8 5 1.0 I 3559.31 $21/2^{(-)}$ 2773.93 $17/2^-$ 799.4 3 2.4 2 2580.10 $15/2^-$ 1780.67 $(11/2^-)$ Q804.7 5 1.8 2 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ DCO(1)=1.5 I 805.4 5 0.4 I 6384.1 $(29/2^-)$ 5578.8 $(27/2^-)$ DCO(2)=1.0 2 809.2 5 1.0 I 1332.47523.25 $5/2^-$ DCO(2)=1.0 2 809.9 5 1.6 2 3534.81 $(21/2)^-$ 2725.35 $17/2^-$ (E2)DCO(2)=1.0 2 820.5 5 0.5 I 3908.33087.96 $(19/2)^-$ DCO(2)=1.0 2 827.0 3 2.1 2 2773.93 $17/2^-$ 1948.16 $13/2^-$ QDCO(2)=1.0 2 827.0 3 2.5 3 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$ DCO(2)=1.0 2	776.5 5	0.8 1	1957.08	$15/2^{+}$	1180.65	$11/2^{+}$	E2		DCO(2)=1.1 4
POL=+0.03 $I.$ 785.3 51.0 I 4720.9(25/2 ⁺)3935.98(23/2) ⁺ 785.8 51.0 I 3559.31 $21/2^{(-)}$ 2773.93 $17/2^-$ 799.4 32.4 22580.10 $15/2^-$ 1780.67 $(11/2^-)$ QDCO(1)=1.5 I 804.7 51.8 23670.8 $(21/2^+)$ 2866.18 $21/2^+$ DCO(2)=1.0 2 809.2 51.0 I 1332.47523.25 $5/2^-$ DCO(2)=1.0 2 809.9 51.6 2 3534.81 $(21/2)^-$ 2725.35 $17/2^-$ (E2)DCO(2)=1.0 2 820.5 50.5 I 3908.33087.96 $(19/2)^-$ DCO(2)=1.0 2 825.7 3 2.1 2 2773.93 $17/2^-$ 1948.16 $13/2^-$ QDCO(2)=1.0 2 827.0 3 2.5 3 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$	777.4 3	5.9 6	2725.35	17/2-	1948.16	13/2-	(E2)		POL=+0.03 <i>1</i> . DCO(2)=0.87 <i>6</i>
785.35 1.017 4720.9 $(25/2)$ 3953.98 $(25/2)$ 785.85 1.01 3559.31 $21/2^{(-)}$ 2773.93 $17/2^ 799.43$ 2.42 2580.10 $15/2^ 1780.67$ $(11/2^-)$ Q DCO(1)=1.51 804.75 1.82 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ 805.45 0.41 6384.1 $(29/2^-)$ 5578.8 $(27/2^-)$ 809.25 1.01 1332.47 523.25 $5/2^-$ DCO(2)=1.02 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^-$ (E2) DCO(2)=1.02 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^-$ (E2) DCO(2)=1.02 820.55 0.51 3908.3 3087.96 $(19/2)^ DCO(2)=1.02$ $DCO(2)=1.02$ 827.03 2.53 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$ $DCO(2)=1.02$	795 2 5	107	4720.0	$(25/2^{+})$	2025 08	$(22/2)^+$			POL=+0.03 I.
783.63 1.017 5339.31 $21/2^{-7}$ $27/3.93$ $11/2$ 799.43 2.42 2580.10 $15/2^ 1780.67$ $(11/2^-)$ Q DCO(1)=1.5 1 804.75 1.82 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ DCO(2)=1.0 2 809.25 1.01 1332.47 523.25 $5/2^-$ DCO(2)=1.0 2 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^-$ (E2) DCO(2)=1.0 2 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^-$ (E2) DCO(2)=1.0 2 820.55 0.51 3908.3 3087.96 $(19/2)^ DCO(2)=1.02$ DCO(2)=1.0 2 825.73 2.12 2773.93 $17/2^ 1948.16$ $13/2^-$ Q DCO(2)=1.02 827.03 2.53 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$ DCO(2)=1.02	705.55	1.0 1	4720.9	(23/2)	2722.90	(23/2) $17/2^{-}$			
103.43 21.42 2300.10 $12/2$ 1100.01 $11/2$ Q $DCO(1)=1.34$ 804.75 1.82 3670.8 $(21/2^+)$ 2866.18 $21/2^+$ 805.45 0.44 6384.1 $(29/2^-)$ 5578.8 $(27/2^-)$ 809.25 1.04 1332.47 523.25 $5/2^ DCO(2)=1.02$ 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^ (E2)$ $DCO(2)=1.02$ 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^ (E2)$ $DCO(2)=1.02$ 820.55 0.51 3908.3 3087.96 $(19/2)^ DCO(2)=1.02$ 825.73 2.12 2773.93 $17/2^ 1948.16$ $13/2^ Q$ $DCO(2)=1.02$ 827.03 2.53 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$ $DCO(2)=1.02$	709.4.3	1.01 242	2580.10	$\frac{21}{2^{-1}}$	1780.67	$(11/2^{-})$	0		DCO(1) = 1.5 I
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	804.7.5	1.8.2	3670.8	$(21/2^+)$	2866.18	(11/2)	X		DCO(1)-1.5 1
809.25 1.01 1332.47 523.25 $5/2^ DCO(2)=1.02$ 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^ (E2)$ $DCO(2)=1.02$ 809.95 1.62 3534.81 $(21/2)^ 2725.35$ $17/2^ (E2)$ $DCO(2)=1.02$ 820.55 0.51 3908.3 3087.96 $(19/2)^ 825.73$ 2.12 2773.93 $17/2^ 1948.16$ $13/2^ Q$ $DCO(2)=1.02$ 827.03 2.53 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$ $DCO(2)=1.02$	805.4 5	0.4 1	6384.1	$(29/2^{-})$	5578.8	$(27/2^{-})$			
809.9 51.6 2 3534.81 $(21/2)^ 2725.35$ $17/2^ (E2)$ DCO for $809.9\gamma+809.2\gamma$. DCO(2)=1.0 2 DCO for $809.9\gamma+809.2\gamma$.820.5 50.5 1 3908.3 3087.96 $(19/2)^-$ 825.7 32.1 2 2773.93 $17/2^ 1948.16$ $13/2^-$ Q827.0 32.5 3 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$	809.2 5	1.0 1	1332.47		523.25	5/2-			DCO(2)=1.0 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	809.9 5	1.6 2	3534.81	(21/2)-	2725.35	17/2-	(E2)		DCO for 809.9γ+809.2γ. DCO(2)=1.0 2
820.55 0.51 3908.3 3087.96 $(19/2)^ 825.73$ 2.12 2773.93 $17/2^ 1948.16$ $13/2^-$ Q DCO(2)=1.02 827.03 2.53 1780.67 $(11/2^-)$ 953.80 $(7/2^-)$ DCO(2)=1.02		0	2000 2		2007 01	(10/2) -			DCO for $809.9\gamma + 809.2\gamma$.
623.75 2.12 27.595 17.2 1948.10 15.2 Q DCO(2)=1.02 827.03 2.53 1780.67 $(11/2^{-})$ 953.80 $(7/2^{-})$	820.5 5	0.5 I	3908.3	17/0-	3087.96	$(19/2)^{-12/2}$	0		DCO(2) = 1.0.2
	827.03	2.1.2	∠773.93 1780.67	$(11/2^{-})$	953.80	$(7/2^{-})$	Q		DCO(2)=1.0 2

Continued on next page (footnotes at end of table)

E_{γ}^{\dagger} E_i (level) \mathbf{J}_i^{π} J_f^{π} Mult. Comments I_{γ} \mathbf{E}_{f} $21/2^{(-)}$ 834.6 3 2.5 2 3559.31 2725.35 17/2-(E2) DCO(2)=0.9 2 847.5 3 2.3 2 2580.10 $15/2^{-}$ 1731.95 17/2+ 9/2-851.3 *1* 19 2 1068.24 217.07 5/2-(E2) POL=+0.05 1. 866.7 5 2580.10 $15/2^{-}$ 1713.41 11/2-DCO(1)=1.5 3 1.6 2 0 1948.16 1068.24 9/2-E2 DCO(2)=0.91 4 880.0 1 15 2 $13/2^{-}$ POL=+0.07 1. 885.8 5 1.8 2 1682.51 $13/2^{+}$ 796.68 13/2+ (D) DCO(2)=1.0 2 0.7 1 6019.3 $(29/2^+)$ 5131.9 (27/2⁺) 888.7 5 $23/2^{-}$ 4.3 4 4066.6 3169.21 19/2-897.0 3 E2 DCO(2)=0.9 1 POL=+0.06 1. 914.4 5 1.1 *I* 3816.8 2902.25 19/2+ 935.2 1 51 5 $17/2^{+}$ 796.68 13/2+ E2 DCO(2)=1.00 2 1731.95 POL = +0.07 1. 944.3 3 3365.36 $21/2^{+}$ 2421.06 17/2+ DCO(2)=0.9 1 3.64 (E2) DCO and POL=+0.11 *1* for $945.4\gamma + 944.3\gamma$. 945.4 5 2902.25 $19/2^{+}$ DCO(2)=0.9 1 1.9 2 1957.08 15/2+ (E2) DCO and POL=+0.11 *1* for $945.4\gamma + 944.3\gamma$. 947.4 5 1.9 2 2279.3 1332.47 2866.18 21/2+ 950.8 5 0.9 1 3816.8 $11/2^{-}$ $7/2^{-}$ E2 952.3 3 4.8 5 1713.41 761.09 DCO(2)=1.1 2 POL=+0.06 1. 953.9 5 1.0 1 953.80 0 $(7/2^{-})$ 3/2-955.8 5 1.1 *I* 3235.1 2279.3 207.57 9/2+ 973.2*3* 71 1180.65 $11/2^{+}$ (M1) DCO(2)=0.7 2 POL=+0.04 1. 977.9 5 0.8 1 4066.6 $23/2^{-}$ 3087.96 (19/2)-1015.4 5 1.7 2 5131.9 $(27/2^+)$ 4116.93 25/24 D DCO(2)=0.4 1 $(11/2^{-})$ $(31/2^{+})$ 1019.3 3 2.8 3 1780.67 761.09 7/2-DCO(2)=1.1 2 Q $29/2^+$ 1021.0 5 0.6 1 6526.9 5505.5 1021.8 3 2.5 3 4580.9 $(25/2)^{-}$ 3559.31 21/2⁽⁻⁾ E2 DCO(2)=1.0 3 POL=+0.08 1. 1034.1 3 2.1 2 3935.98 $(23/2)^+$ 2902.25 19/2+ (E2) POL=+0.02 1. 2.7 3 1046.2 3 4580.9 $(25/2)^{-}$ 3534.81 (21/2)-E2 DCO(2)=1.0 2 1050.0 5 0.9 1 4720.9 $(25/2^+)$ 3670.8 $(21/2^+)$ 1056.7 5 1.3 *I* 4965.0 3908.3 (Q) DCO(1)=1.6 5 3087.96 (19/2)-DCO(1)=1.7 4 1064.9 5 0.7 1 4152.6 $(23/2)^{-}$ E2 1069.9 3 3.3 3 3935.98 $(23/2)^+$ 2866.18 21/2+ M1+E2 DCO(2)=0.36 4 POL=+0.04 3. 1079.2 5 0.9 1 4896.0 3816.8 Q DCO(2)=1.0 4 $(35/2^+)$ $(33/2^+)$ 1082.8 5 0.2 1 8149.4 7066.8 1115.5 5 0.3 1 1332.47 217.07 5/2- $21/2^{+}$ 1731.95 17/2+ 1134.2 1 24 2 2866.18 E2 DCO(2)=1.02 3 POL=+0.07 1. 1134.6 5 1.0 1 3908.3 2773.93 17/2-1147.4 3 2.7 3 5214.0 $(27/2^{-})$ 4066.6 23/2-Q DCO(2)=0.8 2 1160.4 1 7.78 1957.08 $15/2^{+}$ 796.68 13/2+ D DCO(2)=0.50 3 1164.4 3 3.4 3 4529.9 $25/2^+$ 3365.36 21/2+ DCO(2)=0.9 2 E2 POL=+0.08 3. 1170.9 3 4.9 5 2902.25 $19/2^{+}$ 1731.95 17/2+ M1+E2 DCO(2)=0.42 4 POL=-0.01 1. 3935.98 (23/2)+ 1196.3 3 1.5 2 5131.9 $(27/2^+)$ 1234.3 5 0.6 1 6199.3 4965.0 1242.8 3 2.1 2 5823.7 $(29/2^{-})$ 4580.9 (25/2)-E2 DCO(1)=1.5 2 1250.7 1 9.09 4116.93 $25/2^{+}$ E2 DCO(2)=0.97 5 2866.18 21/2+ POL=+0.09 1. 1268.6 5 0.4 1 4803.1 $(25/2)^{-}$ 3534.81 (21/2)-

$\gamma(^{79}\text{Br})$ (continued)

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					<i>,</i>		
E_{γ}^{\dagger}	I_{γ}	E _i (level)	\mathbf{J}_i^{π}	E_f	J_f^π	Mult.	Comments
1298.3.5	0.4.1	6019.3	$(29/2^{+})$	4720.9	$(25/2^+)$		
1322.8.5	111	6536.8	$(31/2^{-})$	5214.0	$(27/2^{-})$	0	DCO(2) = 1.0.3
1325.1.5	1.2.1	2392.64	$13/2^{-1}$	1068.24	$9/2^{-}$	E2	DCO(2) = 1.1.2
102011 0		20/2101	10/=	1000.21	>/=		POL = +0.02.2
1333.6.5	1.4 1	5863.5	$(29/2^{+})$	4529.9	$25/2^+$	(\mathbf{O})	DCO(2)=0.9.3
1388.2 3	2.6.3	5505.5	$\frac{(2)}{2}^{+}$	4116.93	$\frac{25}{2^+}$	E2	DCO(2)=0.9 /
					/_		POL = +0.07 2.
1392.4 5	0.3 1	7591.7		6199.3			
1395.0 5	0.7 1	6526.9	$(31/2^+)$	5131.9	$(27/2^+)$	E2	DCO(2)=1.0 2
1400.2 5	0.9 1	7224.0	$(33/2^{-})$	5823.7	$(29/2^{-})$		
1410.2 5	0.4 1	2477.6	$13/2^{-1}$	1068.24	9/2-		
1426.5 5	0.5 1	5578.8	$(27/2^{-})$	4152.6	$(23/2)^{-}$		
1437.6 5	1.3 <i>I</i>	3169.21	19/2-	1731.95	17/2+		
1439.3 5	0.6 1	4340.8		2902.25	$19/2^{+}$		
1474.2 5	0.6 1	4340.8		2866.18	$21/2^+$		
1475.3 5	2.0 2	1682.51	$13/2^{+}$	207.57	$9/2^{+}$	(E2)	POL=+0.04 2.
1516.1 5	0.4 1	7379.7	$(33/2^+)$	5863.5	$(29/2^+)$		
1524.8 5	0.3 1	8061.6	$(35/2^{-})$	6536.8	$(31/2^{-})$		
1553.5 5	0.2 1	8777.5	$(37/2^{-})$	7224.0	$(33/2^{-})$		
1561.6 5	0.7 1	7066.8	$(33/2^+)$	5505.5	$29/2^{+}$	(Q)	DCO(2)=0.8 2
1580.9 5	0.3 1	6384.1	$(29/2^{-})$	4803.1	$(25/2)^{-}$		
1596.3 5	1.5 2	2392.64	$13/2^{-}$	796.68	$13/2^{+}$	(D)	DCO(2)=1.2 3
1622.2 5	0.3 1	8149.4	$(35/2^+)$	6526.9	$(31/2^+)$		
1624.4 <i>3</i>	2.8 3	2421.06	$17/2^{+}$	796.68	$13/2^{+}$	E2	DCO(2)=0.9 1
							POL=+0.07 2.
1633.4 <i>3</i>	2.8 3	3365.36	$21/2^{+}$	1731.95	$17/2^{+}$	E2	DCO(2)=1.0 <i>l</i>
							$POL=+0.06\ 2.$
1664.2 5	0.7 1	4529.9	$25/2^+$	2866.18	$21/2^{+}$	E2	DCO(2)=1.3 5
							POL=+0.17 8.
1744.6 5	0.2 1	8811.5	$(37/2^+)$	7066.8	$(33/2^+)$		
1783.1 <i>3</i>	3.5 4	2580.10	$15/2^{-}$	796.68	$13/2^{+}$	E1	DCO(2)=0.57 5
							POL=+0.04 1.
1854.5 5	0.7 1	4720.9	$(25/2^+)$	2866.18	$21/2^+$		
1902.1 5	0.3 1	6019.3	$(29/2^+)$	4116.93	$25/2^+$		
1937.5 5	1.1	3670.8	$(21/2^+)$	1731.95	17/2+	(Q)	$DCO(2)=1.1 \ 3$

[†] Uncertainties are assigned as follows based on a general comment by 2002Sc13: 0.1 keV for I γ >7, 0.3 keV for I γ =2-7 and 0.5 for I γ <2.

[±] From BrIcc v2.3b (16-Dec-2014) 2008Ki07, "Frozen Orbitals" appr.

$\gamma(^{79}\text{Br})$ (continued)



 $^{79}_{35}{
m Br}_{44}$



 $^{79}_{35}{
m Br}_{44}$



 $^{79}_{35}{
m Br}_{44}$



⁷⁶Ge(⁷Li,4nγ) E=35 MeV 2002Sc13



⁷⁹₃₅Br₄₄

⁷⁶Ge(⁷Li,4nγ) E=35 MeV 2002Sc13



⁷⁹₃₅Br₄₄



⁷⁹₃₅Br₄₄