

Adopted Levels, Gammas 1991Aj01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. Ajzenberg-selove		NP A523,1 (1991)	1-Jul-1990

Q(β⁻)=-2754.2 5; S(n)=1.083×10⁴; S(p)=1.021×10⁴; Q(α)=-10991.4 5 [2012Wa38](#)

Note: Current evaluation has used the following Q record -2754.0 5 10833.30 110207.42 1-10991.5 4 [1997Au04](#).

[Additional information 1.](#)

¹⁵N Levels

Cross Reference (XREF) Flags

A ¹⁵ C β ⁻ decay	N ¹² C(⁷ Li,α)	Others:
B ¹⁵ O β ⁺ decay	O ¹² C(¹⁰ B, ⁷ Be)	AA ¹⁴ N(d,p)
C ¹⁰ B(⁶ Li,p)	P ¹³ C(d,X) res	AB ¹⁵ N(γ,γ'),(e,e')
D ¹⁰ B(⁷ Li,d)	Q ¹³ C(³ He,p)	AC ¹⁵ N(π ⁺ ,π ⁺ '),(π ⁻ ,π ⁻)
E ¹¹ B(α,γ) res	R ¹³ C(α,d)	AD ¹⁵ N(³ He, ³ He')
F ¹¹ B(α,n),(α,p),(α,α) res	S ¹³ C(⁶ Li,α)	AE ¹⁵ N(α,α')
G ¹¹ B(⁶ Li,d)	T ¹³ C(¹¹ B, ⁹ Be)	AF ¹⁶ O(γ,p),(e,ep)
H ¹¹ B(⁷ Li,t)	U ¹³ C(¹⁷ O, ¹⁵ N)	AG ¹⁶ O(π ⁺ ,π ⁺ p),(π ⁻ ,π ⁻ p)
I ¹¹ B(⁹ Be,αn)	V ¹⁴ C(p,X) res	AH ¹⁶ O(d, ³ He)
J ¹¹ B(¹⁶ O, ¹² C)	W ¹⁴ C(³ He,d)	AI ¹⁶ O(α,pα)
K ¹² C(t,X) res	X ¹⁴ N(n,γ) E=thermal	AJ ¹⁸ O(p,α)
L ¹² C(α,p)	Y ¹⁴ N(n,X) res	AK ¹⁹ F(d, ⁶ Li)
M ¹² C(⁶ Li, ³ He)	Z ¹⁴ N(p,π ⁺)	

E(level)	J ^π	T _{1/2}	XREF								Comments
0.0	1/2 ⁻	stable	ABCDE	JKLMN	PQRS	UVWX	Z			XREF: Others: AA , AB , AC , AD , AE , AF , AG , AH , AI , AJ , AK T=1/2; μ=-0.28318884 5 (1989Ra17)	
5270.155 [±] 14	5/2 ⁺	1.79 ps 10	CD		LM	O QR	U WX			XREF: Others: AA , AB , AC , AD , AE , AF , AH , AJ , AK μ=+2.35 18 (1989Ra17)	
5298.822 [±] 14	1/2 ⁺	17 fs 5	A CD	GHI	L N	QRS	U WX			XREF: Others: AA , AB , AD , AE , AF , AH , AJ , AK	
6323.78 [±] 2	3/2 ⁻	0.146 fs 8	A CD	GHIJ	L N	Q S	U WX Z			XREF: Others: AA , AB , AC , AD , AE , AF , AG , AH , AI , AJ , AK	
7155.05 [±] 2	5/2 ⁺	12 fs 6	CD	I	LMN	QRS	WX			XREF: Others: AA , AB , AD , AE , AH	
7300.83 [±] 2	3/2 ⁺	0.42 fs 4	A CD	I	L N	QRS	WX			XREF: Others: AA , AB , AD , AE , AH	
7567.1 10	7/2 ⁺	8 fs +8-4	CD	GHI	LMNO	QRST				XREF: Others: AA , AB , AC , AD , AE , AH , AJ	
8312.62 [±] 3	1/2 ⁺	1.2 fs 8	A CD		N	QRS	X Z			XREF: Others: AA , AB , AE , AF	
8571.40 12	3/2 ⁺	0.5 fs 5	A CD	GHI	LMN	QRS				XREF: Others: AA , AB , AE	
9049.71 7	1/2 ⁺	0.35 fs 6	A CD			QR	X			XREF: Others: AA , AB , AF	
9151.90 [±] 12	3/2 ⁻	0.97 fs 25	CD	GH		QR	X			XREF: Others: AA , AB , AE	
9154.90 [±] 3	5/2 ⁺	5 fs +4-2	CD		N	Q	Z			XREF: Others: AA , AE	
9222.1 8	1/2 ⁻	<90 fs				Q S	X			XREF: Others: AA , AF , AH	
9760 1	5/2 ⁻	1.8 fs 6				Q				XREF: Others: AA , AB	
9829 3	7/2 ⁻	12 fs 5	CD	GH	MN	Q ST				XREF: Others: AA , AE	
9925.0 2	3/2 ⁻	0.21 fs 4			N	Q	X			XREF: Others: AA , AB	
10066.0 2	3/2 ⁺	0.069 fs 4			N		X			XREF: Others: AA , AB , AE	
10449.7 3	5/2 ⁻	<0.5 keV	D	GH		Q	V			XREF: Others: AA %IT=?; %p=?	
10533.3 5	5/2 ⁺		D	GH	N	QR	V			Γ _γ >0.024 eV XREF: Others: AA %IT=?; %p=?	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued)

<u>¹⁵N Levels (continued)</u>							
E(level)	J ^π	T _{1/2}	XREF				Comments
10693.2 3	9/2 ⁺	12 fs 6	D	H	L	V	Γ _γ =0.035 eV 2 XREF: Others: AC %IT=?; %p=?
10701.9 3	3/2 ⁻	0.2 keV		GH	MN	Q S V	Γ _γ >0.040 eV. XREF: Others: AH %IT=0.18; %p=99.82
10804 2	3/2 ⁺	<0.001 keV	CD	GH	NO	Q V	Γ _γ =0.37 eV 7 XREF: Others: AA, AB %IT=?; %p=?
11235 5	≥3/2	3.3 keV			L	Y	XREF: Others: AA %n=100
11292.8 7	1/2 ⁻	8 keV 3			L N	V Y	%IT=?; %n=?; %p=?
11437.6 7	1/2 ⁺	41.4 keV 11	EFGH		N R	V Y	XREF: Others: AJ %IT=?; %n=?; %p=?; %α=?
11615 4	1/2 ⁺	405 keV 6				V	%IT=0.00523 19; %n=?; %p=? Γ _γ =21.2 eV 7; T=3/2
11763 3	3/2 ⁺	40 keV		F		V Y	%n=?; %p=?; %α=?
11876 3	3/2 ⁻	25 keV		F		V Y	%IT=?; %n=?; %p=?; %α=?
11942 6	9/2 ⁻	≤3.0 keV	D		LMN	RST Y	%n=?; %α=?
11965 3	1/2 ⁻	17 keV	D	FGH		V Y	%n=?; %p=?; %α=?
12095 3	5/2 ⁺	14 keV 5		F		R V Y	%n=?; %p=?; %α=?
12145 3	3/2 ⁻	41 keV 5		FGH		V Y	%n=?; %p=?; %α=?
12327 4	5/2 ⁽⁺⁾	22 keV			N R	V Y	%n=?; %p=?
12493 4	5/2 ⁺	40 keV 5		F	N R	V Y	%n=?; %p=?; %α=? T=1/2
12522 8	5/2 ⁺	58 keV 4				V	XREF: Others: AB %IT=0.0079 12; %p=99.9921 12 Γ _γ =4.6 eV 6; T=3/2
12551 [†] 10	9/2 ⁺		D	H	LM	R V	XREF: Others: AC
12920 4	3/2 ⁻	56 keV 11		F	N	V Y	%n=?; %p=?; %α=?
12940 10	5/2 ⁺	81 keV		F		V	%p=?; %α=?
13004 [†] 10	11/2 ⁻		D	GH	L N	RST	
13149 10		7 keV 3		F	O	Y	%n=?; %p=?; %α=?
13174 7	(9/2)	7 keV 3	D	F H	LMN	V Y	%n=?; %p=?; %α=?
13362 8	3/2 ⁻	16 keV 8		F		V Y	%n=?; %p=?; %α=?
13390 10	3/2 ⁺	56 keV		F		V Y	%IT=0.0054; %n=?; %p=?; %α=? Γ _γ =3.0 eV 9
13537 10	3/2 ⁻	85 keV 30		F		V	%n=?; %p=?; %α=?
13608 7	5/2 ⁽⁺⁾	18 keV 4		F	N	Y	%n=?; %p=?; %α=?
13612? 10	(1/2 ⁺)	90 keV		F		V	%n=?; %p=?; %α=?
13713 10		26 keV 8		F		V Y	%n=?; %p=?; %α=?
13840 30	3/2 ⁺	75 keV	D	F H		R Y	%n=?; %p=?; %α=?
13900	1/2 ⁺	930 keV				V	%IT=?; %p=?
13990 30	5/2 ⁺	98 keV 10		F H		V	%n=?; %p=?; %α=?
14090 7	(9/2 ⁺ , 7/2 ⁺)	22 keV 6	D	FGH	N R	Y	%n=?; %p=?; %α=?
14100 30	3/2 ⁺	≈100 keV	D	F		V	%n=?; %α=?
14162 10	3/2 ⁽⁺⁾	27 keV 6	D	F		Y	%n=?; %α=?
14240 40	5/2 ⁺	150 keV		FG			%α=100
14380 40	7/2 ⁺	100 keV		F			%α=100
14400		≈1900 keV				Y	%n=?; %p=?; %α=?
14550 20		200 keV 50		F			%n=?; %p=?; %α=?
14647 10		33 keV 6		F		Y	%n=?; %p=?; %α=?
14710		750 keV				V	%IT=?; %p=?
14720 10	5/2 ⁻	110 keV 50	FGH		N	Y	XREF: Others: AB The proton decay mode is tentative.

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Adopted Levels, Gammas 1991Aj01 (continued)

^{15}N Levels (continued)					
E(level)	J^π	$T_{1/2}$	XREF		Comments
					%IT=?; %n=?; %p=?; %α=?
14860 20		48 keV 11	F	N	The proton decay mode is tentative.
14920 10		12 keV 3	FG		%n=?; %α=?
15025 10		13 keV 3	F	N	%n=?; %α=?
15090 20		80 keV 25	F		%n=?; %α=?
15288 10		26 keV 6	F		%n=?; %α=?
15373 [†] 10	13/2 ⁺		D GH	LMN	
15380 20		75 keV 25	F	K	%n=?; % ³ H=?; %α=?
15430 20		≈100 keV	F		%n=?; %α=?
					The α decay mode is tentative.
15450		750 keV			%IT=?; %p=?
15530 20		≈35 keV	FGH		%n=?; %α=?
15600 20		95 keV 25	F		%n=?; %α=?
15782 10			F	K NO	%p=?; % ³ H=?; %α=?
15930 20		35 keV 5	F	K M	%n=?; % ³ H=?; %α=?
15944 15		21 keV 6	F	K	%n=?; % ³ H=?; %α=?
16026 10		62 keV 12	F	K N	%n=?; %p=?; % ³ H=?; %α=?
16190 10	3/2 ⁺	450 keV 100	G	K N	%IT=?; %n=?; %p=?; % ³ H=?; %α=?
16260 20	3/2 ⁺	150 keV 28	EF	K MNO	%IT=?; %n=?; % ³ H=?; %α=?
16320 20		≈30 keV	F	K	%n=?; %p=?; % ³ H=?; %α=?
16390 20		44 keV 11	F	K M	%n=?; %p=?; % ³ H=?; %α=?
16460		560 keV		P	%IT=?; %p=?; %d=?
16576 15		27 keV 15	F		%n=?; %α=?
16590 25	3/2 ⁻	490 keV		K	%IT=?; %n=?; %p=?; % ³ H=?; %α=?
16677 15	1/2 ⁺	80 keV 20	EF	K M P	%IT=?; %n=?; %p=?; %d=?; % ³ H=?; %α=?
					T=1/2
16850 30	5/2	110 keV 50		K	% ³ H=?; %α=?
16910		≈350 keV		K P	%n=?; %p=?; %d=?; % ³ H=?; %α=?
17050?				K	%p=?; % ³ H=?
17110				P	%d=?; %α=?
					$T_{1/2}$: Γ=broad.
17150 50	(1/2 ⁺ , 3/2 ⁺)	250 keV 60	E	K	%IT=?; % ³ H=?; %α=?
17230 40		≈175 keV		P	%d=?; % ³ H=?; %α=?
					The α decay mode is tentative.
17370 40		≈250 keV		K P	%p=?; %d=?; % ³ H=?; %α=?
17580 40	3/2 ⁺	450 keV 120		K P	%IT=?; %d=?; % ³ H=?; %α=?
17670 40	3/2 ⁺	600 keV 80	E	P	%IT=?; %n=?; %d=?; %α=?
					T=1/2
17720 10		48 keV 10		N P	%n=?; %p=?; %d=?; % ³ H=?; %α=?
					The proton decay mode is tentative.
17950 20		167 keV		N	%n=?; %α=?
18060 10		19 keV 4		M P	%n=?; %d=?; %α=?
					The neutron decay mode is tentative.
18090 20		≈40 keV		P	%n=?; %p=?; %d=?; % ³ H=?
					The neutron decay mode is tentative.
18220		158 keV			%n=?; %α=?
18270 20		235 keV 60		N P	%n=?; %p=?; %d=?; %α=?
18700 [†] 20			H	N T	
1891×10 ¹ 15	3/2 ⁺ & 1/2 ⁺	750 keV 70	E		%IT=?; %α=?
19200 35	(1/2 ⁺)	≈130 keV		N P T	%n=?; %d=?
					T=1/2

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued)

¹⁵ N Levels (continued)						
E(level)	J ^π	T _{1/2}	XREF		Comments	
19500	3/2 ⁺	≈400 keV	K	V	T: tentative. %IT=?; %p=?; % ³ H=? T=3/2	
19720 [†] 40			H	MN	T: tentative. T _{1/2} : Γ=wide or unresolved.	
20120 [†] 50			L		XREF: Others: AC T=3/2	
20500	3/2 ⁺	≈400 keV		P	V	T: tentative.
20960 65	3/2 ⁺ & 1/2 ⁺	1740 keV 150	E	N		%IT=?; %n=?; %p=?; %d=?
21820		≈600 keV		P	V	%IT=?; %α=?
23190 60					V	%IT=?; %p=?; %d=? XREF: Others: AC
23600				P		%IT=?; %n=?; %d=? T=3/2
2475×10 ¹ [†] 15				N		T: tentative. T _{1/2} : Γ=broad.
25500	3/2 ⁻				V	T _{1/2} : Γ=wide or unresolved. %IT=?; %n=?; %p=?
26800?			K			T=3/2
≈37000					V	T: tentative. % ³ H=100 %IT=?; %p=?

[†] Decay mode not specified.

[‡] Value should perhaps be lower by, typically, 40 eV. See footnote B to table 15.4.

γ(¹⁵N)

E _i (level)	J _i ^π	E _γ	I _γ	E _f	J _f ^π	Mult.	δ [†]	Comments
5270.155	5/2 ⁺	5269.161 14	100	0.0	1/2 ⁻	[M2+E3]	-0.131 13	B(M2)(W.u.)=0.68 7; B(E3)(W.u.)=7 2
5298.822	1/2 ⁺	5297.817 14	100	0.0	1/2 ⁻	[E1]		B(E1)(W.u.)=4.3×10 ⁻⁴ 11
6323.78	3/2 ⁻	1024.92 2	<0.05	5298.822	1/2 ⁺			
		1053.58 2	<0.1	5270.155	5/2 ⁺			
		6322.35 2	100	0.0	1/2 ⁻	[M1+E2]	-0.132 4	B(M1)(W.u.)=0.578 15; B(E2)(W.u.)=2.91 24
7155.05	5/2 ⁺	831.27 2	<0.5	6323.78	3/2 ⁻			
		1856.11 2	<4	5298.822	1/2 ⁺			
		1884.77 2	100.0 4	5270.155	5/2 ⁺	[M1(+E2)]	+0.014 +15-12	B(M1)(W.u.)=0.26 11
		7153.22 2	0.023 3	0.0	1/2 ⁻	[E3]		B(E3)(W.u.)=1.7 2 I _γ : from table 2. Value given in footnote C to table 15.5 is <0.1.
7300.83	3/2 ⁺	977.02 2	<0.25	6323.78	3/2 ⁻			
		2001.86 2	0.2 1	5298.822	1/2 ⁺	[M1+E2]		δ: +0.31 15 or -4.6 34.
		2030.53 2	0.6 1	5270.155	5/2 ⁺	[M1+E2]		δ: -0.18 15 or -2.5 10.
		7298.92 2	100.0 7	0.0	1/2 ⁻	[E1+M2]	-0.017 +5-8	B(E1)(W.u.)=0.067 5; B(M2)(W.u.)=0.16 9
7567.1	7/2 ⁺	1243.2 10	<0.6	6323.78	3/2 ⁻			
		2268.1 10	<4	5298.822	1/2 ⁺			
		2296.8 10	100.0 10	5270.155	5/2 ⁺	[M1+E2]	+0.028 12	B(M1)(W.u.)=0.15 +15-7; B(E2)(W.u.)=0.26 +38-21

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Adopted Levels, Gammas 1991Aj01 (continued)

$\gamma(^{15}\text{N})$ (continued)								
<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.</u>	<u>δ[†]</u>	<u>Comments</u>
								B(M1)(W.u.),B(E2)(W.u.): calculated by M. J. Martin from data given in table 15.5. No values are given in table 2.
7567.1	7/2 ⁺	7565.0 10	1.3 6	0.0	1/2 ⁻	[E3]		B(E3)(W.u.)=2.50 22
8312.62	1/2 ⁺	1011.75 4	5.6 9	7300.83	3/2 ⁺			
		1157.52 4	1.5 8	7155.05	5/2 ⁺			
		1988.70 4	5.6 13	6323.78	3/2 ⁻			
		3013.47 3	12.7 26	5298.822	1/2 ⁺			
		3042.13 3	<4	5270.155	5/2 ⁺			
8571.40	3/2 ⁺	8310.15 3	100.0 25	0.0	1/2 ⁻	[E1]		B(E1)(W.u.)=0.0013 8
		1004.3 10	<4.6	7567.1	7/2 ⁺			
		1270.51 12	<1.1	7300.83	3/2 ⁺			
		1416.28 12	5.5 8	7155.05	5/2 ⁺			
		2247.44 12	2.2 10	6323.78	3/2 ⁻	[E1]		B(E1)(W.u.)=3.8×10 ⁻⁴ 30
		3272.20 12	<19	5298.822	1/2 ⁺			
		3300.85 12	100 5	5270.155	5/2 ⁺	[M1+E2]	+0.091 7	B(M1)(W.u.)=0.052 33; B(E2)(W.u.)=0.45 32
		8568.77 12	51 3	0.0	1/2 ⁻	[E1+M2]	-0.085 +5-9	B(E1)(W.u.)=8×10 ⁻⁵ 5; B(M2)(W.u.)=0.033 24
9049.71	1/2 ⁺	737.09 7	<0.6	8312.62	1/2 ⁺			
		1482.5 10	<2	7567.1	7/2 ⁺			
		1748.77 7	1.3 4	7300.83	3/2 ⁺	[M1]		B(M1)(W.u.)=0.14 5
		1894.53 7	<11	7155.05	5/2 ⁺			
		2725.66 7	4.9 11	6323.78	3/2 ⁻	[E1]		B(E1)(W.u.)=0.0069 25
		3779.04 7	3.8 11	5270.155	5/2 ⁺	[E2]		B(E2)(W.u.)=33 11
9151.90	3/2 ⁻	9046.78 7	100 3	0.0	1/2 ⁻	[E1]		B(E1)(W.u.)=0.0039 7
		9148.90 12	100	0.0	1/2 ⁻	[M1]		B(M1)(W.u.)=0.029 8 δ: δ=-0.015 +34-41.
9154.90	5/2 ⁺	1999.71 12	100 6	7155.05	5/2 ⁺	[M1]		B(M1)(W.u.)=0.28 17
		2830.83 12	39 4	6323.78	3/2 ⁻	[E1]		B(E1)(W.u.)=0.0019 13
		3855.55 12	18 2	5298.822	1/2 ⁺	[E2]		B(E2)(W.u.)=5.3 34
		3884.21 12	19 2	5270.155	5/2 ⁺	[M1]		B(M1)(W.u.)=0.007 5
		9151.90 12	<4	0.0	1/2 ⁻			
9222.1	1/2 ⁻	909.5 8	<12	8312.62	1/2 ⁺			
		1654.9 8	<48	7567.1	7/2 ⁺			
		1921.2 8	6.2 17	7300.83	3/2 ⁺			
		2066.9 8	<2.4	7155.05	5/2 ⁺			
		2898.0 8	83 15	6323.78	3/2 ⁻	[M1]		B(M1)(W.u.)>0.004
		3922.7 8	100 19	5298.822	1/2 ⁺	[E1]		B(E1)(W.u.)>8×10 ⁻⁵
		9219.1 8	52 12	0.0	1/2 ⁻	[M1]		B(M1)(W.u.)>6×10 ⁻⁵
9760	5/2 ⁻	1188.9 10	<2.5	8571.40	3/2 ⁺			
		1447.3 10	<1.3	8312.62	1/2 ⁺			
		2192.7 10	6.1 8	7567.1	7/2 ⁺			
		2459.0 10	<2.5	7300.83	3/2 ⁺			
		2604.8 10	2.8 6	7155.05	5/2 ⁺			
		3435.8 10	4.5 10	6323.78	3/2 ⁻			
		4475 [#] 15	9.2 [#] 19	5298.822	1/2 ⁺			
		4475 [#] 15	9.2 [#] 19	5270.155	5/2 ⁺			
		9756.6 10	100 4	0.0	1/2 ⁻	[E2]		B(E2)(W.u.)=1.3 3
9829	7/2 ⁻	2262 3	8.6 12	7567.1	7/2 ⁺	[E1]		B(E1)(W.u.)=6×10 ⁻⁴ 3
		2528 3	4.4 11	7300.83	3/2 ⁺	[M2]		B(M2)(W.u.)=149 74
		2674 3	2.8 13	7155.05	5/2 ⁺	[E1]		B(M2)(W.u.): exceeds RUL. B(E1)(W.u.)=1.2×10 ⁻⁴ 7

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued)

$\gamma(^{15}\text{N})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ^\dagger	Comments
9829	7/2 ⁻	3505.3	2.6 11	6323.78	3/2 ⁻	[E2]		B(E2)(W.u.)=0.9 5
		4529.3	<18	5298.822	1/2 ⁺			
		4558.3	≈100	5270.155	5/2 ⁺	[E1]		B(E1)(W.u.)≈8×10 ⁻⁴
9925.0	3/2 ⁻	9826.3	<4.7	0.0	1/2 ⁻			
		1353.5 2	<1.3	8571.40	3/2 ⁺			
		1612.3 2	<1.3	8312.62	1/2 ⁺			
		2357.7 2	<1.3	7567.1	7/2 ⁺			
		2624.0 2	2.7 11	7300.83	3/2 ⁺			
		2769.7 2	<1.3	7155.05	5/2 ⁺			
		3600.7 2	6.3 16	6323.78	3/2 ⁻			
		4639.5 [‡] 14	19.8 [‡] 20	5298.822	1/2 ⁺			I _γ : includes feeding to 5270 and 5299 levels.
		4639.5 [‡] 14	19.8 [‡] 20	5270.155	5/2 ⁺			I _γ : includes feeding to 5270 and 5299 levels.
10066.0	3/2 ⁺	9921.5 2	100.0 25	0.0	1/2 ⁻	[M1]		B(M1)(W.u.)=0.078 10
		1494.5 2	<3	8571.40	3/2 ⁺			
		1753.3 2	<2	8312.62	1/2 ⁺			
		2498.7 2	<2	7567.1	7/2 ⁺			
		2764.9 2	<2	7300.83	3/2 ⁺			
		2910.7 2	<2	7155.05	5/2 ⁺			
		3741.7 2	<2	6323.78	3/2 ⁻			
		4781.5 [‡] 15	4.2 [‡] 7	5298.822	1/2 ⁺			
		4781.5 [‡] 15	4.2 [‡] 7	5270.155	5/2 ⁺			
		10449.7	5/2 ⁻	10062.4 2	100.0 7	0.0	1/2 ⁻	[E1]
620.7 3	<0.2			9829	7/2 ⁻			
1297.7 3	8.5 2			9151.90	3/2 ⁻	[M1+E2]	+0.32 +10-9	B(M1)(W.u.)>0.021; B(E2)(W.u.)>15
1878.2 3	6.9 11			8571.40	3/2 ⁺	[E1]		B(E1)(W.u.)>2.9×10 ⁻⁴ δ: -0.3 4.
3294.3 3	9.5 2			7155.05	5/2 ⁺	[E1+M2]	+0.13 +3-4	B(E1)(W.u.)>7.4×10 ⁻⁵ ; B(M2)(W.u.)>0.54
4125.3 3	57 3			6323.78	3/2 ⁻	[M1+E2]	+0.59 13	B(M1)(W.u.)>0.0045; B(E2)(W.u.)>1
5150.0 3	<3.6			5298.822	1/2 ⁺			
5178.5	100.0 15			5270.155	5/2 ⁺	[E1]		B(E1)(W.u.)>2×10 ⁻⁴ δ: +0.021 33.
10445.8 3	<22			0.0	1/2 ⁻			
10533.3	0.78 26			9151.90	3/2 ⁻	[E1+M2]	-0.20 +3-2	B(E1)(W.u.)=9.2×10 ⁻⁵ 4; B(M2)(W.u.)=9 5
10533.3	5/2 ⁺	1381.3 5	0.78 26	9151.90	3/2 ⁻	[E1+M2]	-0.20 +3-2	B(E1)(W.u.)=9.2×10 ⁻⁵ 4; B(M2)(W.u.)=9 5
		1961.8 5	6.20 26	8571.40	3/2 ⁺	[M1+E2]	-0.012 +5-6	B(M1)(W.u.)=0.0052 6; B(E2)(W.u.)=0.0023 2
		3232.1 5	81.1 13	7300.83	3/2 ⁺	[M1+E2]	-0.066 5	B(M1)(W.u.)=0.016 2; B(E2)(W.u.)=0.075 16
		3377.9 5	50.1 5	7155.05	5/2 ⁺	[M1]		B(M1)(W.u.)=0.0082 9 δ: δ=-0.007 +8-10.
		4208.9 5	19.9 3	6323.78	3/2 ⁻	[E1+M2]	-0.028 4	B(E1)(W.u.)=8.5×10 ⁻⁵ 10; B(M2)(W.u.)=0.017 6
		5262.1 5	100.0 5	5270.155	5/2 ⁺	[M1+E2]	+0.27 3	B(M1)(W.u.)=0.0043 3; B(E2)(W.u.)=0.13 3
		10529.3 5	<0.3	0.0	1/2 ⁻			
10693.2	9/2 ⁺	3125.8 10	58.9 10	7567.1	7/2 ⁺	[M1+E2]	-0.118 8	B(M1)(W.u.)>0.02; B(E2)(W.u.)>0.4
		3537.8 3	3.41 16	7155.05	5/2 ⁺	[E2]		B(E2)(W.u.)>0.85
		5421.9 3	100.0 5	5270.155	5/2 ⁺	[E2]		B(E2)(W.u.)>3

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued)

$\gamma(^{15}\text{N})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ^\dagger	Comments
10701.9	3/2 ⁻	1479.7 9	2.8 2	9222.1	1/2 ⁻	[M1+E2]	-0.049 +5-6	B(M1)(W.u.)=0.083 21; B(E2)(W.u.)=1.0 3
		1549.9 3	0.4 2	9151.90	3/2 ⁻	[M1+E2]	+0.11 3	B(M1)(W.u.)=0.010 5; B(E2)(W.u.)=0.6 4
		1652.1 3	0.4 2	9049.71	1/2 ⁺	[E1]		B(E1)(W.u.)=4.0×10 ⁻⁴ 21 δ: δ=-0.007 12.
		2389.1 3	1.5 2	8312.62	1/2 ⁺	[E1]		B(E1)(W.u.)=5.4×10 ⁻⁴ 11 δ: δ=-0.017 +18-16.
		3400.7 3	4.4 2	7300.83	3/2 ⁺	[E1]		B(E1)(W.u.)=5.3×10 ⁻⁴ 11 δ: δ=-0.027 23.
		3546.4 3	0.8 2	7155.05	5/2 ⁺	[E1]		B(E1)(W.u.)=8.2×10 ⁻⁵ 27 δ: δ=+0.3 3.
		4377.4 3	7.2 2	6323.78	3/2 ⁻	[M1+E2]	-0.135 15	B(M1)(W.u.)=0.0079 16; B(E2)(W.u.)=0.09 3
		5402.1 3	1.5 2	5298.822	1/2 ⁺	[E1+M2]	-0.13 7	B(E1)(W.u.)=4.6×10 ⁻⁵ 10; B(M2)(W.u.)=0.12 7
		5430.6 3	71.1 12	5270.155	5/2 ⁺	[E1+M2]	-0.24 +4-8	B(E1)(W.u.)=0.0021 5; B(M2)(W.u.)=0.19 6
		10697.8 3	100.0 16	0.0	1/2 ⁻	[M1+E2]	-0.180 +2-6	B(M1)(W.u.)=0.0074 16; B(E2)(W.u.)=0.024 6
10804	3/2 ⁺	1649 3	8.16 20	9154.90	5/2 ⁺			
		1652 3	1.75 20	9151.90	3/2 ⁻			
		1754 3	0.58 20	9049.71	1/2 ⁺			
		2491 3	6.99 20	8312.62	1/2 ⁺	[M1+E2]	-0.12 3	
		3503 3	11.26 20	7300.83	3/2 ⁺	[M1+E2]	+0.12 2	
		3649 3	15.14 20	7155.05	5/2 ⁺	[M1+E2]	-0.14 3	
		4480 3	10.5 4	6323.78	3/2 ⁻	[E1+M2]	-0.07 5	
		5505 3	30.1 4	5298.822	1/2 ⁺	[M1+E2]	+0.55 2	
		5534 3	9.51 20	5270.155	5/2 ⁺	[M1+E2]	+0.63 4	
		10800 3	100.0 8	0.0	1/2 ⁻	[E1+M2]	-0.02 1	B(M2)(W.u.)=1.3 6
11615	1/2 ⁺	5291 4	2.1 17	6323.78	3/2 ⁻	[E1]		B(E1)(W.u.)=0.007 5
		6316 4	8.2 17	5298.822	1/2 ⁺	[M1]		B(M1)(W.u.)=0.30 8
		6345 4	<1.1	5270.155	5/2 ⁺			
12522	5/2 ⁺	11610 4	100 4	0.0	1/2 ⁻	[E1]		B(E1)(W.u.)=0.0296 6
		6197 10	6.2 7	6323.78	3/2 ⁻	[E1]		B(E1)(W.u.)=0.0028 6
		7221 10	<1.1	5298.822	1/2 ⁺			
		7250 10	100.0 7	5270.155	5/2 ⁺	[M1]		B(M1)(W.u.)=0.54 8
12516 10	1.2 5	0.0	1/2 ⁻	[M2]		B(M2)(W.u.)=1.9 7		
I _γ : from table 2. Value in table 15.5 is <1.1.								
13390	3/2 ⁺	6089 10	<5	7300.83	3/2 ⁺			
		6235 10	<5	7155.05	5/2 ⁺			
		7066 10	<5	6323.78	3/2 ⁻			
		8091 10	<8	5298.822	1/2 ⁺			
		8120 10	<8	5270.155	5/2 ⁺			
		13384 10	100	0.0	1/2 ⁻	[E1]		B(E1)(W.u.)=0.0030 9

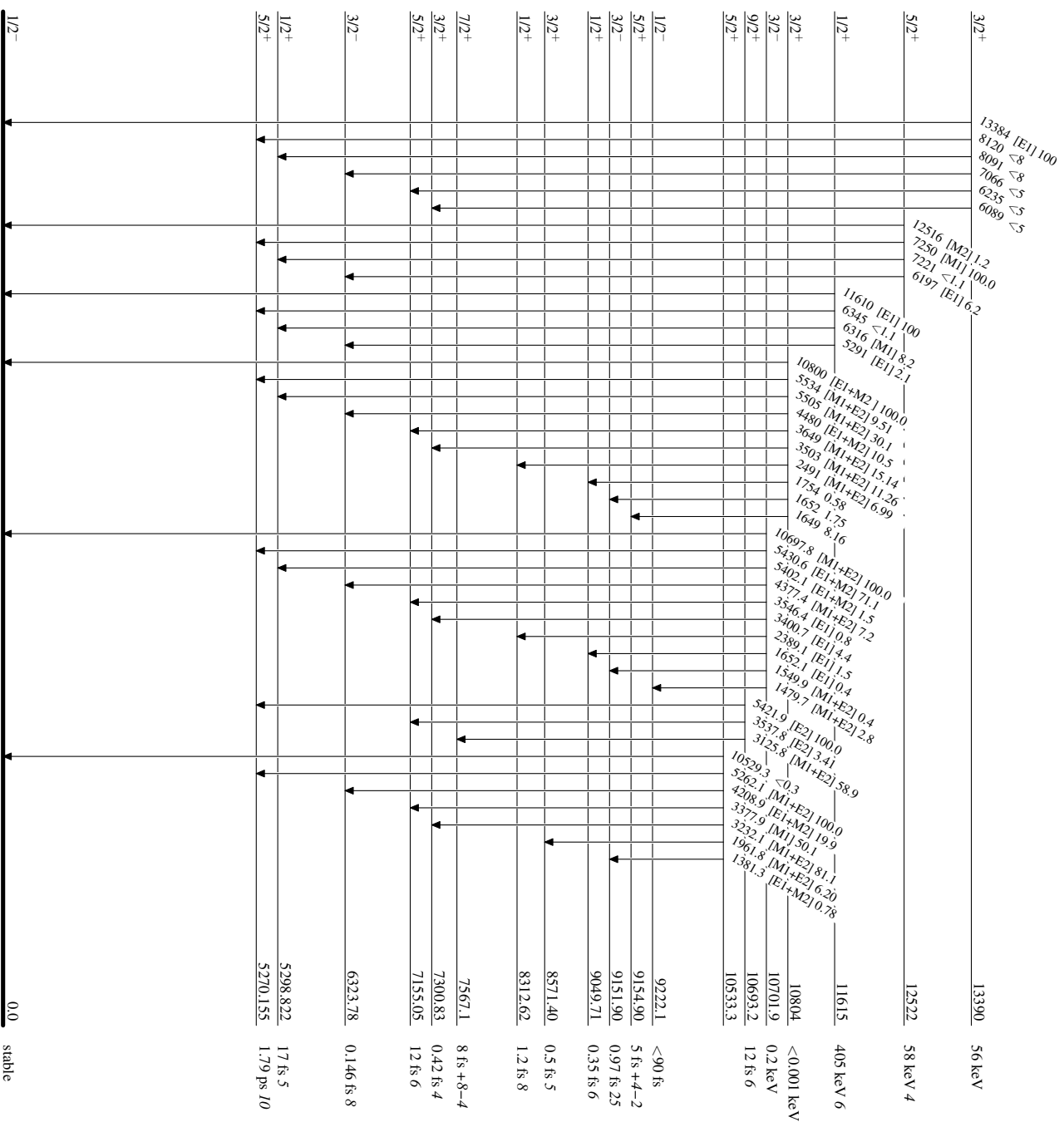
† The signature has been changed, where necessary, from that given in 1991Aj01 in order to conform to the convention used in the nuclear data sheets.

‡ Multiply placed with undivided intensity.

Multiply placed with intensity suitably divided.

Adopted Levels, Gammas 1991AJ01**Level Scheme**

Intensities: Relative photon branching from each level

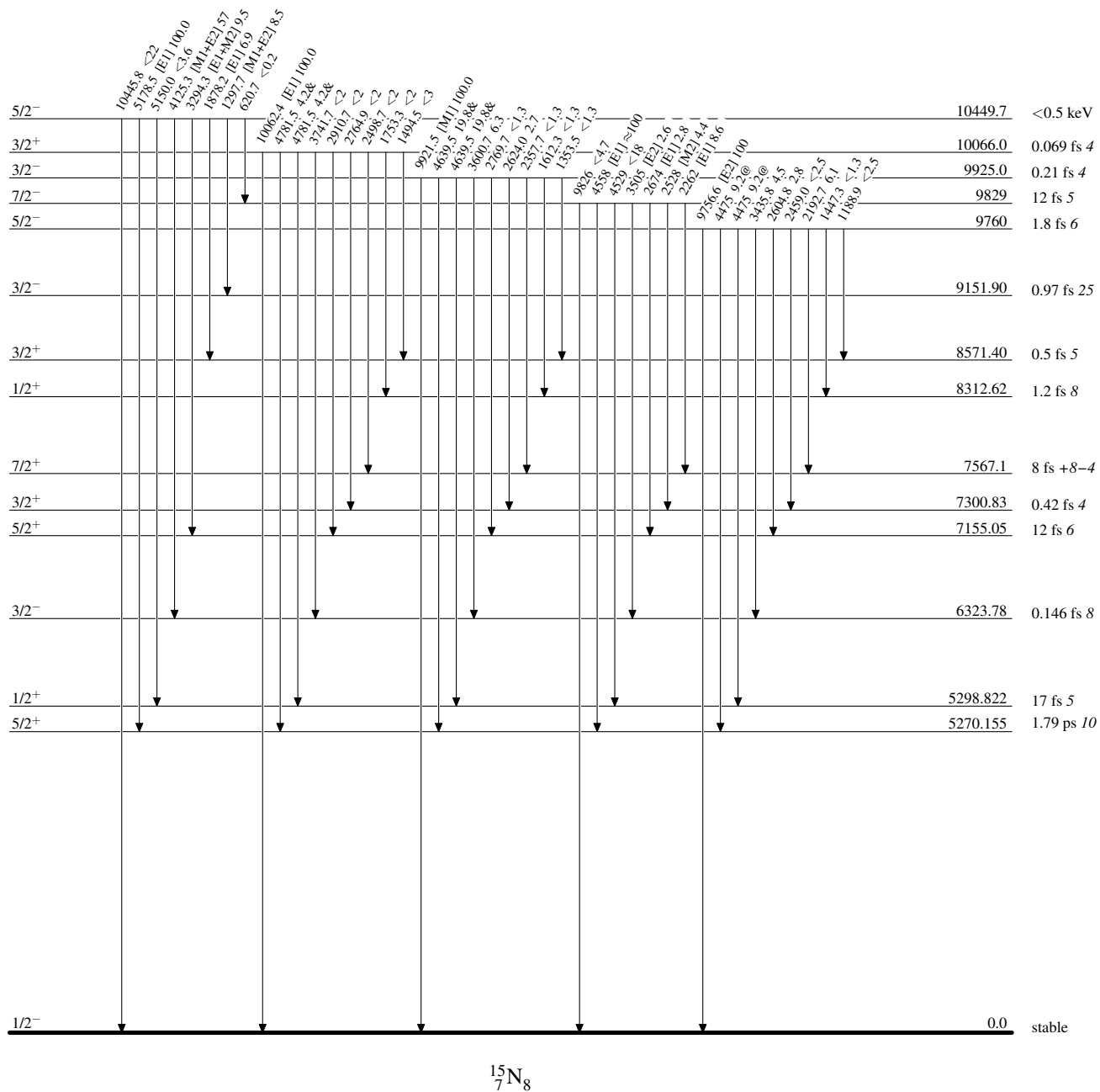


Adopted Levels, Gammas 1991Aj01Level Scheme (continued)

Intensities: Relative photon branching from each level

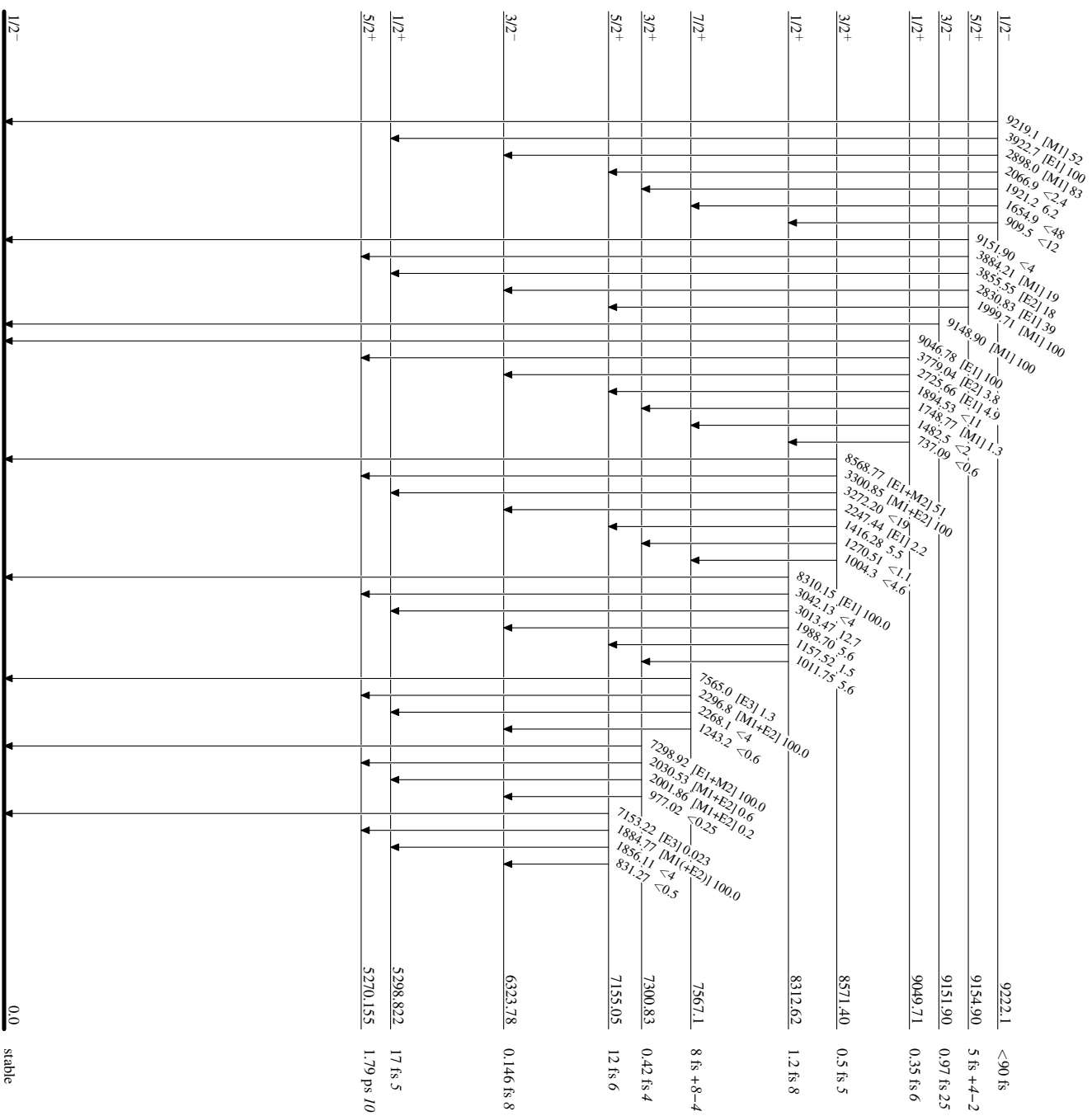
& Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided

 $^{15}\text{N}_8$

Adopted Levels, Gammas 1991Aj01**Level Scheme (continued)**

Intensities: Relative photon branching from each level
 & Multiply placed: undivided intensity given
 @ Multiply placed: intensity suitably divided



Adopted Levels, Gammas 1991Aj01Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given
@ Multiply placed: intensity suitably divided

