

Adopted Levels, Gammas 1991Aj01

Type	Author	History	Citation	Literature Cutoff Date
Update	F. Ajzenberg-selove, J. H. Kelley and C. D. Nesaraja		NP A523,1 (1991)	1-Jul-1990

$Q(\beta^-) = -5144.04$ 11; $S(n) = 10553.4$ 3; $S(p) = 7551$; $Q(\alpha) = -11612.2$ 4 [2012Wa38](#)

Note: Current evaluation has used the following Q record -5143.04 7 10553.3627 7550.56 2 -11612.3 4 [1997Au04](#).

[Additional information 1.](#)

 ^{14}N Levels

With the exception of the 16910, 17460, 21800, 22500, 23000, and 24000 levels, the 16650 and all higher states were derived from an s-matrix analysis of the $^{12}\text{C}(\text{d},\alpha)$ reaction by [1981Jo02](#).

Cross Reference (XREF) Flags

A	$^{14}\text{C} \beta^-$ decay	Q	$^{12}\text{C}(\gamma, \text{p})$	AF	$^{14}\text{N}(\gamma, \text{X})$
B	$^{14}\text{O} \beta^+$ decay	R	$^{12}\text{C}(\alpha, \text{d})$	AG	$^{14}\text{N}(\text{e}, \text{e}), ^{14}\text{N}(\text{e}, \text{e}')$
C	$^9\text{Be}(\gamma, \text{Li}, 2\text{n})$	S	$^{12}\text{C}(\gamma, \text{Li}, \alpha)$	AH	$^{14}\text{N}(\pi, \pi')$
D	$^{10}\text{B}(\alpha, \text{n})$ res	T	$^{12}\text{C}(\gamma, ^{10}\text{B})$	AI	$^{14}\text{N}(\text{n}, \text{n}), ^{14}\text{N}(\text{n}, \text{n}')$
E	$^{10}\text{B}(\alpha, \text{p})$ res	U	$^{12}\text{C}(\gamma, ^{11}\text{B})$	AJ	$^{14}\text{N}(\text{p}, \text{p}), ^{14}\text{N}(\text{p}, \text{p}')$
F	$^{10}\text{B}(\alpha, \text{d})$ res	V	$^{13}\text{C}(\text{p}, \gamma), ^{13}\text{C}(\text{p}, \text{p}'\gamma)$ res	AK	$^{14}\text{N}(\text{d}, \text{d}), ^{14}\text{N}(\text{d}, \text{d}')$
G	$^{10}\text{B}(\alpha, \alpha')$ res	W	$^{13}\text{C}(\text{p}, \text{n})$ res	AL	$^{14}\text{N}(\gamma, ^3\text{He}), ^{14}\text{N}(\gamma, ^3\text{He}')$
H	$^{10}\text{B}(\gamma, \text{Li}, \text{d})$	X	$^{13}\text{C}(\text{d}, \text{n})$	AM	$^{14}\text{N}(\alpha, \alpha), ^{14}\text{N}(\alpha, \alpha')$
I	$^{10}\text{B}(\gamma, \text{Li}, \text{t})$	Y	$^{13}\text{C}(\gamma, ^3\text{He}, \text{d})$	AN	$^{15}\text{N}(\gamma, \text{n})$
J	$^{11}\text{B}(\gamma, ^3\text{He}, \text{X})$ res	Z	$^{13}\text{C}(\alpha, \text{t})$	AO	$^{15}\text{N}(\text{p}, \text{d})$
K	$^{11}\text{B}(\alpha, \text{n})$	Others:		AP	$^{15}\text{N}(\text{d}, \text{t})$
L	$^{11}\text{B}(\gamma, ^6\text{Li}, \text{t})$	AA	$^{13}\text{C}(\gamma, ^7\text{Li}, ^6\text{He})$	AQ	$^{15}\text{N}(\gamma, ^3\text{He}, \alpha)$
M	$^{12}\text{C}(\text{d}, \text{n})$ res	AB	$^{14}\text{C}(\pi^+, \pi^0)$	AR	$^{15}\text{N}(\gamma, ^{13}\text{C}, ^{14}\text{C})$
N	$^{12}\text{C}(\text{d}, \text{p})$ res	AC	$^{14}\text{C}(\text{p}, \text{n})$	AS	$^{16}\text{O}(\pi^+, 2\text{p})$
O	$^{12}\text{C}(\text{d}, \text{d})$ res	AD	$^{14}\text{C}(\gamma, ^3\text{He}, \text{t})$	AT	$^{16}\text{O}(\text{p}, \text{X})$
P	$^{12}\text{C}(\text{d}, \alpha)$ res	AE	$^{14}\text{C}(\gamma, ^6\text{Li}, ^6\text{He})$	AU	$^{16}\text{O}(\text{d}, \alpha)$

E(level)	J^π	$T_{1/2}$	XREF			Comments
0.0	1^+	stable	AB	HIJK	QRSTUV XYZ	XREF: Others: AA , AB , AC , AD , AE , AF , AG , AH , AI , AJ , AK , AL , AM , AN , AO , AP , AQ , AR , AS , AT , AU T=0; $\mu = +0.40376100$ 6 (1989Ra17); Q=+0.0193 8 (1989Ra17)
2312.798 11	0^+	68 fs 3	B	K	QRS UV XYZ	XREF: Others: AA , AB , AC , AD , AE , AG , AI , AJ , AL , AN , AO , AP , AQ , AT , AU T=1
3948.10 20	1^+	4.8 fs 18	B	HI K	QR V XYZ	XREF: Others: AA , AC , AD , AE , AH , AI , AJ , AK , AL , AM , AN , AO , AP , AQ T=0
4915.1 14	0^-	5.3 fs 10		HI	QRS XYZ	XREF: Others: AA , AD , AH , AI , AJ , AK , AL , AM , AO , AP , AQ T=0
5105.89 10	2^-	4.35 ps 5	C	HI K	QRS XYZ	XREF: Others: AA , AD , AE , AH , AI , AJ , AK , AL , AM , AO , AP , AQ , AT T=0; $\mu = 1.32$ 8 (1989Ra17)
5691.44 13	1^-	11 fs 6		HI	QRS V XY	XREF: Others: AA , AD , AH , AI , AJ , AK , AL , AM , AO , AP , AQ T=0
5834.25 14	3^-	8.30 ps 16	C	HI L	QRSTU XY	XREF: Others: AA , AD , AE , AH , AI , AJ , AK , AL , AM , AO , AP , AQ T=0; $\mu = 2.0$ 10 (1989Ra17)

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Adopted Levels, Gammas 1991Aj01 (continued) ^{14}N Levels (continued)

E(level)	J ^π	T _{1/2}	XREF			Comments
6203.5 6	1 ⁺	111 fs 14	HI	QRS	V XY	μ : reported as $\mu > 1.5 < 2.55$ (1989Ra17). XREF: Others: AD, AE, AJ, AK, AL, AM, AO, AP, AQ T=0
6446.17 10	3 ⁺	430 fs 42	HI	QRS	V XY	XREF: Others: AD, AJ, AK, AM, AO, AP, AQ T=0
7029.12 12	2 ⁺	3.7 fs 4	HI	QRS	V XY	XREF: Others: AA, AD, AE, AH, AI, AJ, AK, AL, AM, AO, AP, AQ T=0
7966.9 5	2 ⁻	2.5 eV 7	HI	QRS	V Y	XREF: Others: AJ, AM, AO, AP, AQ %IT=0.7 2; %p=99.3 2 $\Gamma_\gamma=0.018$ eV; T=0
8062.0 10	1 ⁻	23 keV 1		Q	V XY	XREF: Others: AJ, AL, AO, AQ %IT=0.053 12; %p=99.947 12 $\Gamma_\gamma=12.3$ eV 26; T=1
8490 2	4 ⁻	13.2 fs 21	HI	QRS	V XY	XREF: Others: AE, AH, AJ, AM, AP %IT=21 8; %p=79 8 T=0
8618 2	0 ⁺	3.8 keV 3		Q	V XY	$\Gamma_\gamma=0.0074$ eV 25. XREF: Others: AJ, AO, AQ %IT=0.14; %p=99.86 $\Gamma_\gamma=5.25$ eV; T=1
8776 7	0 ⁻	410 keV 20			V Y	%IT=0.011 3; %p=99.989 3 $\Gamma_\gamma=46$ eV 12; T=1
8907 3	3 ⁻	16 keV 2		Q	V XY	XREF: Others: AG, AJ, AO, AQ %IT=0.0024 4; %p=99.9977 4 $\Gamma_\gamma=0.38$ eV 4; T=1
8964 2	5 ⁺	73 fs 12	I L	QRST	V XY	XREF: Others: AO %IT=19 5; %p=81 5 T=0
8980 3	2 ⁺	8 keV 2	HI	Q	V XY	$\Gamma_\gamma=0.0012$ eV 2. XREF: Others: AO %IT=?; %p=? T=0
9129.0 5	3 ⁺	9 fs 4	HI	QR	V XY	XREF: Others: AM %IT=20 9; %p=80 9 T=0
9172.25 12	2 ⁺	122 eV 8		Q	V XY	$\Gamma_\gamma=0.0103$ eV 11. XREF: Others: AG, AJ, AO, AP, AQ %IT=5.2 4; %p=94.8 4 $\Gamma_\gamma=6.3$ eV 3; T=1
9388 3	2 ⁻	13 keV 3	HI	QRS	XY	XREF: Others: AJ, AM, AO, AP, AQ %p=100 T=0
9509 3	2 ⁻	41 keV 2		Q	V XY	XREF: Others: AJ, AO, AP, AQ %IT=0.0098 11; %p=99.9902 11 $\Gamma_\gamma=4.0$ eV 4; T=1
9703 4	1 ⁺	15 keV 3	H	Q S	V XY	XREF: Others: AJ, AO, AP, AQ %IT=0.00041 10; %p=99.99959 10 $\Gamma_\gamma=0.061$ eV 7; T=0
10079 ⁺ 10	(3 ⁺)	<10 keV	HI			In table 14.10, the IT decay mode is missing.
10101 15	2 ⁺ , 1 ⁺	12 keV 3		Q S	V Y	XREF: Others: AJ, AO, AP %IT=0.0017 5; %p=99.9983 5 $\Gamma_\gamma=0.21$ eV 2; T=0

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Adopted Levels, Gammas 1991Aj01 (continued)

¹⁴ N Levels (continued)							
E(level)	J ^π	T _{1/2}	XREF				Comments
10226 8	1 ⁽⁻⁾	80 keV 15		QR	V	Y	XREF: Others: AO %IT=0.0050 19; %p=99.9950 19 Γ _γ =4.0 eV 13; T=0
10432 7	2 ⁺	33 keV 3	L	Q	V		XREF: Others: AD , AG , AO , AP , AQ %IT=0.039 4; %p=99.961 4 Γ _γ =13.0 eV 6; T=1 %p=100
10534 20	(1 ⁻)	140 keV		Q		Y	XREF: Others: AM %IT=4.1 8; %p=95.9 8 Γ _γ =0.016 eV 7; T=0 In table 14.10, the proton decay mode is missing.
10812 15	5 ⁺	0.39 eV 16	HI L	QRS		Y	%IT=?; %p=? XREF: Others: AO , AP %IT=0.018 7; %p=99.982 7 Γ _γ =0.21 eV 3 %n=?; %p=?; %d=? T=0
11000 30	3 ⁺	165 keV 30				V	T=1
11050 5		1.2 keV 4	HI L	QRS		Y	XREF: Others: AO , AP %IT=0.018 7; %p=99.982 7 Γ _γ =0.21 eV 3 %n=?; %p=?; %d=? T=0
11070	1 ⁺	100 keV		MN		W	XREF: Others: AG , AH , AJ , AK , AL , AM , AO %IT=?; %n=?; %p=? T=0
11210 30		220 keV 30		MN			T: tentative. XREF: Others: AO %n=?; %p=?; %d=? T=0
11240 15	3 ⁻	11 keV	L	Q		W Y	XREF: Others: AG , AH , AJ , AK , AL , AM , AO %IT=?; %n=?; %p=? T=0
11270 15	2 ⁻	180 keV	H	MN	S	W Y	XREF: Others: AO %n=?; %p=?; %d=? T=0
11357 15	1 ⁺	30 keV		MN Q		W	XREF: Others: AO %n=?; %p=?; %d=? T=0
11513.5 15	2 ⁺ ,3 ⁺	7.0 keV 5	HI	LMNOP			%p=?; %d=? XREF: Others: AO %n=?; %p=?; %d=? %IT=?; %p=?; %d=? The IT decay mode is tentative.
11676 18	1 ⁻ ,2 ⁻	150 keV 20		MNO		W Y	%IT=?; %p=?; %d=? The IT decay mode is tentative. %n=?; %p=?; %d=? %IT=?; %p=?; %d=? The IT decay mode is tentative.
11741 6	1 ⁻ ,2 ⁻	40 keV 9		MN			%n=?; %p=?; %d=? XREF: Others: AO %n=?; %p=?; %d=? T=0
11761 6	3 ⁻ ,4 ⁻	78 keV 6		MN			XREF: Others: AD %n=?; %p=?; %d=?; %α=? XREF: Others: AD %p=?; %d=?
11807 7	2 ⁻ ,(1 ⁺)	119 keV 9		MNO			XREF: Others: AG , AO , AP , AQ %IT=?; %n=?; %p=?; %d=?; %α=? T=1
11874 6	2 ⁻ ,(1 ⁻)	101 keV 9		MN		W	T: tentative. XREF: Others: AM , AO %n=?; %p=?; %d=?; %α=?
12200 19	1 ⁻ ,2 ⁻	300 keV 30		MNO		W	The neutron decay mode is tentative. XREF: Others: AM %n=?; %p=?; %d=?; %α=? %p=?; %d=?
12408 3	(4 ⁻)	34 keV 3	EF	MN	S		XREF: Others: AD %n=?; %p=?; %d=?; %α=? XREF: Others: AD %p=?; %d=?
12418 3	3 ⁻ ,4 ⁻	41 keV 4	H	LMN	Q		XREF: Others: AG , AO , AP , AQ %IT=?; %n=?; %p=?; %d=?; %α=? T=1
12495 9	(1 ⁺)	39 keV 5	E	MN	Q	V	T: tentative. XREF: Others: AM , AO %n=?; %p=?; %d=?; %α=?
12594 3	3 ⁺	48 keV 2	E	MNO	Q	W	The neutron decay mode is tentative. XREF: Others: AM %n=?; %p=?; %d=?; %α=? %p=?; %d=?
12690 5	3 ⁻	18 keV 5	EF HI	LMNO	Q S	W	XREF: Others: AJ , AK , AL , AM , AO %n=?; %p=?; %d=?; %α=?
12708? 9		43 keV 15		MN			
12789 5	4 ⁺	16 keV 3	EF I	LMNO	Q		

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Adopted Levels, Gammas 1991Aj01 (continued) ^{14}N Levels (continued)

E(level)	J ^π	T _{1/2}	XREF				Comments
12813 4	4 ⁻	5 keV 2	EF HI	MNO			XREF: Others: AD , AG , AH , AJ , AK , AL , AM , AN , AO , AP %IT=?; %p=?; %d=?; %α=? %n=?; %p=?; %d=? %n=?; %p=?; %d=? %p=?; %d=? %p=?; %d=?; %α=? %IT=?; %p=? XREF: Others: AG , AO %IT=?; %n=?; %p=?; %d=?; %α=? %α=100 XREF: Others: AG , AM , AO %IT=?; %n=?; %p=?; %α=? %IT=?; %p=? T=1 %n=?; %p=?; %d=?; %α=? %IT=?; %n=?; %p=?; %d=?; %α=? XREF: Others: AC , AG , AO , AP , AQ %IT=?; %n=?; %p=?; %d=?; %α=? T=1 The IT decay mode is tentative. %p=?; %α=? %n=?; %p=?; %d=?; %α=? %n=?; %p=?; %d=?; %α=? %p=?; %α=? %p=?; %α=? %n=?; %p=?; %α=? %n=?; %p=?; %α=? XREF: Others: AH %α=100 T=0 %IT=?; %n=?; %p=?; %α=? T=1 T: tentative. %n=?; %p=?; %d=?; %α=? %n=?; %p=?; %α=? XREF: Others: AG , AH %IT=?; %n=?; %p=?; %α=? T=1 %p=?; %d=?; %α=? %n=?; %p=?; %d=?; %α=? XREF: Others: AG %IT=?; %n=?; %p=?; %d=?; %α=? XREF: Others: AP %n=?; %p=?; %α=? %p=?; %d=?; %α=? %d=?; %α=? T=0&1 XREF: Others: AG , AH T=1 %p=?; %d=?; %α=? T=0&1 %d=?; %α=? T=0&1 %d=?; %α=? T=0&1
12826 6		11 keV 3		MNO			
12857 6		78 keV 10		MN	S	W	
12883 8		134 keV 11		MN			
12922 5	4 ⁺	22 keV 4	EF	LMNO			
13007 17		120 keV 30	HI			V	
13167 5	1 ⁺	15 keV 5	EFGH		Q		
13192 9	3 ⁺	65 keV 10	G	L	O		
13243 10	2 ⁻	92 keV 5	DE			W	
13300 40	(2 ⁻)	1000 keV 150				V	
13656 5	(2 ⁺ , 3 ⁺)	≈90 keV	E G	MNO			
13714 5	2 ⁻ , 3 ⁺	105 keV 25	DE H				
13740 10	1 ⁺	180 keV 20	DE G	MNO		VW	
13770 10	(1 ⁺)	120 keV	E				
14040 30		100 keV	DE	MNO		W	
14160 30		230 keV	DE	MNO			
14250 50	3 ⁺	420 keV 100	E G				
14300 20		150 keV	E				
14560 20		100 keV	DE	L			
14590 30		50 keV	DE	L			
14660 10	5 ⁻	100 keV 20	G				
14730 25	(2 ⁻)	125 keV	DE				
14860 30		140 keV	DE H	LMNOP	S	W	
14920 30		43 keV 8	DE	L	Q	W	
15020 20	3 ⁻ , 4 ⁻	≈60 keV	D H		R	W	
15240 20		100 keV	E HI	LMNO			
15430 20		100 keV	DE	MN P	S		
15700 50		350 keV	H	MNOPQ	S	W	
16210 20		125 keV	DE		S	W	
16400 20		150 keV	E	P			
16650 25	4 ⁺	240 keV 25		P			
16910 20	5 ⁻	170 keV 25		L			
16910 30	4 ⁺	290 keV 30		P			
16920 20	2 ⁺	830 keV 170		P			
17030 50	3 ⁻	245 keV 50		P			

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Adopted Levels, Gammas 1991Aj01 (continued)

¹⁴ N Levels (continued)						
E(level)	J ^π	T _{1/2}	XREF			Comments
			L	P	S	
17170 30	1 ⁻	300 keV 30				XREF: Others: AG %IT=?; %p=?; %d=?; %α=? T=0&1
17310 30	4 ⁺	275 keV 30			P	XREF: Others: AP %d=?; %α=? T=0&1
17400 25	4 ⁺	245 keV 25			P	%d=?; %α=? T=0&1
17460 [†]	5 ⁻					XREF: Others: AH T=0
17850 50	4 ⁺	475 keV 50			P	%d=?; %α=? T=0&1
17850 50	3 ⁻	440 keV 50			P	%d=?; %α=? T=0&1
17930 70	2 ⁺	340 keV 70			P	%d=?; %α=? T=0&1
18020 60	3 ⁻	570 keV 60			P	%d=?; %α=? T=0&1
18140 50	4 ⁺	480 keV 50			P	%d=?; %α=? T=0&1
18350 60	1 ⁻	560 keV 60			P	%d=?; %α=? T=0&1
18430 65	4 ⁺	315 keV 65			P	%d=?; %α=? T=0&1
18500 10	5 ⁻	62 keV 10			P	XREF: Others: AG %d=?; %α=? T=0&1
18530 80	2 ⁺	410 keV 80			P	%d=?; %α=? T=0&1
18530 60	3 ⁻	310 keV 60			P	%d=?; %α=? T=0&1
18640 70	3 ⁻	675 keV 70			P	XREF: Others: AH %d=?; %α=? T=0&1
18780 35	1 ⁻	315 keV 35			P	%d=?; %α=? T=0&1
18880 50	4 ⁺	475 keV 50			P	%d=?; %α=? T=0&1
18930 50	2 ⁺ ,3 ⁻	450 keV 50			P	%d=?; %α=? T=0&1
19100 90	3 ⁻	870 keV 90			P	%d=?; %α=? T=0&1
19900 60	2 ⁺	575 keV 60			P	%d=?; %α=? T=0&1
19990 50	1 ⁻	510 keV 50			P	%d=?; %α=? T=0&1
20110? 20	3 ⁻ ,4 ⁻	120 keV 20				XREF: Others: AG , AH T=0&1
2063×10 ¹ 11	4 ⁺	1100 keV 110			P	%d=?; %α=? T=0&1
20650 60	5 ⁻	610 keV 60			P	%d=?; %α=? T=0&1
21240 50	4 ⁺	415 keV 50			P	%d=?; %α=? T=0&1
21510 25	3 ⁻	235 keV 25			P	%d=?; %α=? T=0&1

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Adopted Levels, Gammas 1991Aj01 (continued) ^{14}N Levels (continued)

E(level)	J^π	$T_{1/2}$	XREF	Comments
21530 75	5 ⁻	360 keV 75	P	%d=?; %α=? T=0&1
21680 40	4 ⁺	360 keV 40	P	%d=?; %α=? T=0&1
21800	4 ⁺	650 keV	J	%IT=?; % ³ He=? T=0&1
22260 15	4 ⁺	65 keV 15	P	%d=?; %α=? T=0&1
22310 60	5 ⁻	570 keV 60	P	%d=?; %α=? T=0&1
22500	2 ⁻		V	%IT=?; %p=? T=1
23000	2 ⁻	≈3000 keV	V	%IT=?; %n=?; %p=? T=1
23400 70	5 ⁻	640 keV 70	P	%d=?; %α=? T=0&1
24000		≈1000 keV	J	%n=?; % ³ He=?; %α=?

† Decay mode not specified.

 $\gamma(^{14}\text{N})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	$\delta^\#$	Comments
2312.798	0 ⁺	2312.593 11	100	0.0	1 ⁺	[M1]		B(M1)(W.u.)=0.026 1
3948.10	1 ⁺	1635.20 20	100.0 3	2312.798	0 ⁺	[M1]†		B(M1)(W.u.)=1.0 +6-3
		3947.50 20	4.1 2	0.0	1 ⁺	[M1+E2]†	+2.8 3	B(M1)(W.u.)=0.00033 +20-10; B(E2)(W.u.)=2.2 +12-6
4915.1	0 ⁻	967.0 14	<0.5	3948.10	1 ⁺			
		2602.0 14	<1	2312.798	0 ⁺			
		4914.2 14	100 3	0.0	1 ⁺	[E1]		B(E1)(W.u.)=0.0018 4
5105.89	2 ⁻	1157.74 23	0.9 5	3948.10	1 ⁺	[E1]		B(E1)(W.u.)=1.2×10 ⁻⁶ 7
		2792.79 10	24.3 15	2312.798	0 ⁺	[M2]		B(M2)(W.u.)=1.38 9
		5104.89 10	100.0 13	0.0	1 ⁺	[E1+M2+E3]	‡	B(E1)(W.u.)=1.52×10 ⁻⁶ 3; B(M2)(W.u.)=0.0068 17; B(E3)(W.u.)=4.4 13
5691.44	1 ⁻	3378.20 13	100.0 19	2312.798	0 ⁺	[E1]		B(E1)(W.u.)=0.0011 5
		5690.20 13	56.5 19	0.0	1 ⁺	[E1]		B(E1)(W.u.)=1.2×10 ⁻⁴ 7
5834.25	3 ⁻	728.34 17	100.0 17	5105.89	2 ⁻	[M1+E2]	+0.044 22	B(M1)(W.u.)=0.00533 14; B(E2)(W.u.)=0.2 2
		5832.94 14	27.1 17	0.0	1 ⁺	[M2+E3]	-1.20 22	B(M2)(W.u.)=0.0082 24; B(E3)(W.u.)=6.7 15
6203.5	1 ⁺	3890.1 6	100.0 26	2312.798	0 ⁺	[M1]		B(M1)(W.u.)=0.0026 4
		6202.0 6	30.0 26	0.0	1 ⁺	[M1+E2]	-0.19 4	B(M1)(W.u.)=0.0018 2; B(E2)(W.u.)=0.021 6
6446.17	3 ⁺	611.91 17	5.3 9	5834.25	3 ⁻	[E1]		B(E1)(W.u.)=4.4×10 ⁻⁴ 11
		1340.21 14	9.3 9	5105.89	2 ⁻	[E1]		B(E1)(W.u.)=7.4×10 ⁻⁵ 11
		2497.83 23	28.1 14	3948.10	1 ⁺	[E2]		B(E2)(W.u.)=1.3 2
		6444.58 10	100.0 21	0.0	1 ⁺	[E2]		B(E2)(W.u.)=0.040 4
7029.12	2 ⁺	3080.7 23	0.91 25	3948.10	1 ⁺	[M1]		B(M1)(W.u.)=0.0018 6
		4715.47 12	0.5 1	2312.798	0 ⁺	[E2]		B(E2)(W.u.)=0.16 4
		7027.22 12	100.0 3	0.0	1 ⁺	[M1+E2]	-0.74 9	B(M1)(W.u.)=0.012 2; B(E2)(W.u.)=1.8 4

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued)

$\gamma(^{14}\text{N})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	$\delta^\#$	Comments
7966.9	2 ⁻	4018.2 5	82 6	3948.10	1 ⁺	[E1]		B(E1)(W.u.)=0.00032 9 B(E1)(W.u.): calculated by M. J. Martin from branching in table 14.11. Not given by 1991Aj01 in table 2.
		7964.5 5	100 6	0.0	1 ⁺	[E1]		B(E1)(W.u.)=5.0×10 ⁻⁵ 14 B(E1)(W.u.): calculated by M. J. Martin from branching in table 14.11. Not given by 1991Aj01 in table 2.
8062.0	1 ⁻	2371 10	4.4 5	5691.44	1 ⁻	[M1]		B(M1)(W.u.)=1.5 4
		2956 10	0.31 18	5105.89	2 ⁻	[M1]		B(M1)(W.u.)=0.06 4
		3147 10	2.32 18	4915.1	0 ⁻	[M1]		B(M1)(W.u.)=0.35 9
		4113 10	15.8 5	3948.10	1 ⁺	[E1]		B(E1)(W.u.)=0.057 15
		5748 10	1.74 18	2312.798	0 ⁺	[E1]		B(E1)(W.u.)=0.0023 7
		8060 10	100.0 8	0.0	1 ⁺	[E1]		B(E1)(W.u.)=0.048 12
8490	4 ⁻	2656 2	20 4	5834.25	3 ⁻	[M1]		B(M1)(W.u.)=0.0033 10
		3384 2	100 4	5105.89	2 ⁻	[E2]		B(E2)(W.u.)=8.3 20
8618	0 ⁺	2414 2	100	6203.5	1 ⁺	[M1]		B(M1)(W.u.)=7.2 B(M1)(W.u.): calculated by M. J. Martin from branching in table 14.11. Not given by 1991Aj01 in table 2.
		2927 2	32	5691.44	1 ⁻	[E1]		B(E1)(W.u.)=0.069
		4670 2	60	3948.10	1 ⁺	[M1]		B(M1)(W.u.)=0.59
		8615 2	58	0.0	1 ⁺	[M1]		B(M1)(W.u.)=0.089
8776	0 ⁻	8773 7	100	0.0	1 ⁺	[E1]		B(E1)(W.u.)=0.17 5 I _γ : author gives %I _γ =90 10.
8907	3 ⁻	1878 3	3.9 6	7029.12	2 ⁺	[E1]		B(E1)(W.u.)=0.0050 8
		2461 3	6.3 7	6446.17	3 ⁺	[E1]		B(E1)(W.u.)=0.0034 5
		3073 3	100.0 11	5834.25	3 ⁻	[M1]		B(M1)(W.u.)=0.53 7
		3800 3	5.0 6	5105.89	2 ⁻	[M1]		B(M1)(W.u.)=0.014 3
		8904 3	3.4 4	0.0	1 ⁺	[M2]		B(M2)↓=2.3 4
8964	5 ⁺	2518 2	100	6446.17	3 ⁺	[E2]		B(E2)(W.u.)=7.2 12
		8961 2	<1	0.0	1 ⁺			
9129.0	3 ⁺	2682.7 5	11 4	6446.17	3 ⁺	[M1]		B(M1)(W.u.)=0.0022 7
		3294.4 5	11 4	5834.25	3 ⁻	[E1]		B(E1)(W.u.)=6.4×10 ⁻⁵ 21
		9125.8 5	100 4	0.0	1 ⁺	[E2]		B(E2)(W.u.)=0.0081 10 δ: δ(M3/E2)=-0.03 2.
9172.25	2 ⁺	2142.95 17	3.7 4	7029.12	2 ⁺	[M1+E2]	+0.037 15	B(M1)(W.u.)=0.97 15; B(E2)(W.u.)=3.8 23
		2725.79 16	10.4 10	6446.17	3 ⁺	[M1+E2]	-0.031 6	B(M1)(W.u.)=1.3 2; B(E2)(W.u.)=2.2 7
		3337.59 19	0.72 10	5834.25	3 ⁻	[E1]		B(E1)(W.u.)=0.0027 4
		3480.35 18	0.58 12	5691.44	1 ⁻	[E1]		B(E1)(W.u.)=0.0019 4
		6857.65 12	1.00 10	2312.798	0 ⁺	[E2]		B(E2)(W.u.)=2.2 2
		9169.02 12	100.0 12	0.0	1 ⁺	[M1]		B(M1)(W.u.)=0.33 2 δ: δ(E2/M1)=+0.003 3.
9509	2 ⁻	3674 3	22.1 20	5834.25	3 ⁻	[M1]		B(M1)(W.u.)=0.64 10
		4402 3	100 6	5105.89	2 ⁻	[M1]		B(M1)(W.u.)=1.7 2
		5560 3	8.7 7	3948.10	1 ⁺	[E1]		B(E1)(W.u.)=0.0038 6
		9506 3	0.79 13	0.0	1 ⁺	[E1]		B(E1)(W.u.)=7.7×10 ⁻⁵ 18
9703	1 ⁺	7388 4	100 12	2312.798	0 ⁺	[M1]		B(M1)(W.u.)=0.0051 6
		9699 4	43 12	0.0	1 ⁺	[M1]		B(M1)(W.u.)=9.4×10 ⁻⁴ 21
10101	2 ⁺ , 1 ⁺	10097 15	100	0.0	1 ⁺	[M1]		B(M1)(W.u.)=0.0097 9
10226	1 ⁽⁻⁾	7910 8	100	2312.798	0 ⁺			Authors give %I _γ ≈100.
10432	2 ⁺	3401 7	7.8 4	7029.12	2 ⁺	[M1]		B(M1)(W.u.)=1.0 1
		3984 7	7.8 4	6446.17	3 ⁺	[M1]		B(M1)(W.u.)=0.64 5
		4739 7	1.9 5	5691.44	1 ⁻	[E1]		B(E1)(W.u.)=0.0050 12

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1991Aj01 (continued)

$\gamma(^{14}\text{N})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	Comments
10432	2 ⁺	5324 7	2.9 3	5105.89	2 ⁻	[E1]	B(E1)(W.u.)=0.0052 5
		10427 7	100 4	0.0	1 ⁺	[M1]	B(M1)(W.u.)=0.45 3
10812	5 ⁺	4365 15	100	6446.17	3 ⁺	[E2]	B(E2)(W.u.)=6 3
11050	3 ⁺	7100 15	75 17	3948.10	1 ⁺	[E2]	B(E2)(W.u.)=3.0 7
		11045 15	100 17	0.0	1 ⁺	[E2]	B(E2)(W.u.)=0.44 7

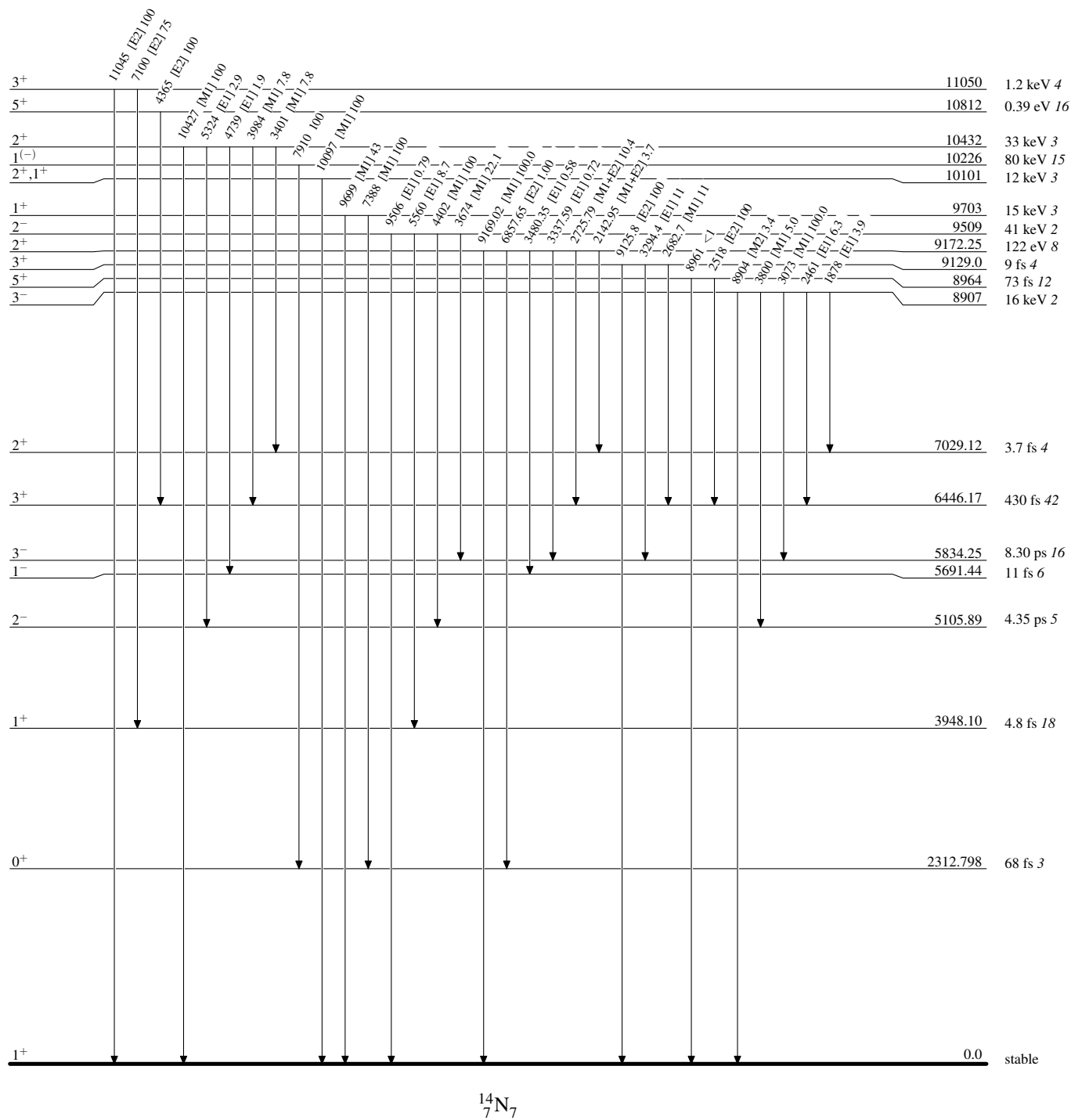
[†] The reduced transition probabilities have been calculated by M. J. Martin from data in earlier evaluations by the authors.

[‡] $\delta(\text{M2/E1})=+0.16$ 2, $\delta(\text{E3/E1})=+0.150$ 25.

[#] 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.

Adopted Levels, Gammas 1991Aj01Level Scheme

Intensities: Relative photon branching from each level



Adopted Levels, Gammas 1991AJ01

Level Scheme (continued)

Intensities: Relative photon branching from each level

