

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

$Q(\beta^-)=-3547.14$ 28; $S(n)=6761.16$ 4; $S(p)=13003.28$ 5; $Q(\alpha)=-7347.93$ 4 [2012Wa38](#)

 ^{21}Ne LevelsCross Reference (XREF) Flags

A	$^{18}\text{O}(\alpha, n\gamma)$	H	$^{22}\text{Ne}(p, d)$	O	Coulomb excitation
B	$^4\text{He}(^{18}\text{O}, n\gamma)$	I	$^{22}\text{Ne}(d, t)$	P	$^{12}\text{C}(^{13}\text{C}, \alpha)$
C	$^{12}\text{C}(^{13}\text{C}, \alpha\gamma)$	J	$^{22}\text{Ne}(^3\text{He}, \alpha)$	Q	$^{17}\text{O}(\alpha, \gamma)$
D	$^{19}\text{F}(^3\text{He}, p), (^3\text{He}, p\gamma)$	K	$^{21}\text{F} \beta^-$ decay	R	$^{17}\text{O}(\alpha, n), (\alpha, \gamma)$
E	$^{13}\text{C}(^{12}\text{C}, \alpha)$	L	$^{21}\text{Na} \beta^+$ decay	S	$^{20}\text{Ne}(n, n), (n, \gamma)$:res
F	$^2\text{H}(^{20}\text{Ne}, p\gamma)$	M	$^{16}\text{O}(^7\text{Li}, np\gamma)$	T	Neutron resonances
G	$^{20}\text{Ne}(d, p)$	N	$^{20}\text{Ne}(n, \gamma)$ E=thermal		

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0 [‡]	3/2 ⁺	stable	ABCDEFGHIJKLMNO P Q T	$\mu=-0.661797$ 5; $Q=+0.103$ 8 μ, Q : From 2011StZZ . J^π : From atomic beam measurement (1956Hu70), L(d,p)=2.
350.727 [‡] 8	5/2 ⁺	7.13 ps 14	ABCDEFGHIJKLMNO P Q	$\mu=0.49$ 4 J^π : L=2 (d,p), M1+E2 to 3/2 ⁺ . μ, Q : From 2011StZZ .
1745.910 [‡] 19	7/2 ⁺	52 fs 4	ABCDEF H JK M PQ	J^π : M1+E2 to 5/2 ⁺ , ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
2788.79 [@] 10	1/2 ⁻	81 ps 5	ABC EF HIJ MN P	J^π : L=1 in (d,t) and ($^3\text{He}, \alpha$). E1 to 3/2 ⁺ .
2794.17 ^{&} 3	1/2 ⁺	5.5 fs 7	AB DEFGH JKLMN	J^π : L=0 in ($^3\text{He}, \alpha$).
2866.6 [‡] 2	9/2 ⁺	40 fs 4	ABCDEF H J M Q	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$, M1+E2 to 7/2 ⁺ .
3663.57 [#] 7	3/2 ⁻	65 fs 6	A CDEFGHIJ MN	J^π : L=1 in (d,p), E1 to 3/2 ⁺ .
3735.59 ^{&} 14	5/2 ⁺	<10 fs	A CDE GH JK M P	J^π : L=2 (d,p), (p,d), ($^3\text{He}, \alpha$), ($\alpha, n\gamma$) $\gamma\gamma(\theta)$.
3883.96 [#] 21	5/2 ⁻	27 fs 3	A CDEF H JK M	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
4433.3 [‡] 7	11/2 ⁺	22 fs 3	A C E H J M	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$.
4525.84 ^c 24	5/2 ⁺	<7 fs	A CDE GHIJK M P	J^π : From (pol d,p), ($\alpha, n\gamma$) $\gamma\gamma(\theta)$.
4684.53 ^{&} 15	3/2 ⁺	11 fs 3	A CD F HIJK MN	J^π : L=2 in ($^3\text{He}, p\gamma$), γ 's to 1/2 ⁺ and 5/2 ⁺ .
4725.35 [@] 3	3/2 ⁻	7 fs 3	A CDEFGH J MN	J^π : L=1 in (d,p).
4867?			J	
5334.4 [#] 10	7/2 ⁻	<7 fs	A CDE G J M P	J^π : L=2 in (d,p), ($\alpha, n\gamma$) $\gamma\gamma(\theta)$.
5431.3 ^c 10	(7/2 ⁺)	<8 fs	A CDE J M	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
5525.0 15		69 fs 21	A D	
5549 ^b 2	3/2 ⁺	28 fs 9	A DE G J M	J^π : L=2 in (d,p), ($\alpha, n\gamma$) $\gamma\gamma(\theta)$.
5630.7 5	7/2 ⁺	<7 fs	A E	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
5689.81 ^a 4	1/2 ⁻	5.5 fs 24	A C E G J MN	J^π : L=1 in (d,p), ($\alpha, n\gamma$) $\gamma\gamma(\theta)$.
5773.0 20	(3/2, 5/2)	28 fs 9	A C	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
5818.2 10	7/2 ⁻	<24 fs	A C E J M	J^π : L=2 in (d,p).
5822 2	3/2 ⁺	55 fs 12	A D G	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$, L=2 in (d,p).
5992.56 8	3/2 ⁻	<7 fs	A C G IJ N	J^π : L=1 in (d,t), ($\alpha, n\gamma$) $\gamma\gamma(\theta)$.
6033.3 [#] 3	9/2 ⁻	19 fs 2	A C E G J M Q	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
6174.2 ^a 17	(5/2) ⁺	9 fs 4	A CDE G J M P	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
6263 ^b 2	(7/2 ⁺)	<14 fs	E M	J^π : From $^{16}\text{O}(^3\text{He}, np\gamma)$.
6267.0 ^{&} 16	9/2 ⁺	24 fs 12	A CD G J	J^π : From ($\alpha, n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
6271.3 7	9/2 ⁺		M	

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Adopted Levels, Gammas (continued) ^{21}Ne Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
6412.5 13			M	
6448.3 [‡] 10	(13/2 ⁺)	<14 fs	A CDE G J	J ^π : From (α,nγ) nγ(θ) and γγ(θ).
6543.5 ^c 10			M	J ^π : (α,nγ) γγ(θ).
6554.2 7	9/2	31 fs 21	A CDE G J	P
6609.0 10		<7 fs	A C E G J	J ^π : L=2 in (d,p).
6640.7 [@] 10	9/2 ⁽⁻⁾	15 fs 3	A C E G	M J ^π : From (α,nγ) nγ(θ) and γγ(θ), parity from band structure.
6748.5 15		10 fs 3	A C E G	
6761.11 3				N E(level): Neutron separation energy.
6853 20			D G	
6901.16 4	1/2 ⁻	3.7 eV 2	DE G IJ	ST Γ _γ =3.7 eV 2; Γ _n =861 eV 29
7008.7 23	7/2 ⁺	<12 fs	A CD	J ^π : From (α,nγ) nγ(θ) and γγ(θ).
7022.8 13	(7/2 ⁺)	13 fs 3	E	M
7043.9 ^a 11	(9/2 ⁺)		A CD	M J ^π : From (α,nγ) nγ(θ) and γγ(θ).
7109 4			A D	P
7154 5			A DE	
7211.1 5	1/2 ⁺	107.8 keV 11	I	ST E(level): Possible doublet. Γ _n =107.8 keV 11 J ^π : From 2006MuZX.
7226 5			A D	
7290 20			D	
7320 5	(1/2 ⁺)		A D	P
7362.7 15	(7/2,9/2 ⁺)	<8 fs	A CDE	P J ^π : From (α,nγ) nγ(θ) and γγ(θ).
7370.6 [@] 17	(7/2 ⁻)			M
7420.3 [#] 10	(11/2 ⁻)		A CDE	M J ^π : From (α,nγ) nγ(θ) and γγ(θ).
7465 10	(1/2,3/2) ⁻		DE	I J ^π : L=1 in (d,t).
7547 10			D	
7600 5			A D	
7628 10	3/2 ⁻	14 keV 4	I	T J ^π : From 2006MuZX.
7648 2	(7/2 ⁺)	<10 fs	A CDE	P
7740 10			D	
7810 10			DE	
7960.9 [#] 13	(11/2 ⁻)			M P
7980 10	3/2 ⁻	6 keV 2	D	T J ^π : From 2006MuZX.
7982.1 6	(7/2,11/2) ⁺		A C E	M J ^π : From (α,nγ) nγ(θ) and γγ(θ).
8009 10	1/2 ⁻	32 keV 6		T J ^π : From 2006MuZX.
8069 2	3/2 ⁺	8 keV 3	D	R T J ^π : From 2006MuZX.
8146 2	3/2 ⁺			R
8155.0 10	(9/2 ⁺)	<21 fs	A CDE	M Q
8160 2	5/2 ⁺			R
8189 2	3/2 ⁻			R
8223.7 14			E	M P
8240.5 ^a 10	(11/2) ⁺	<10 fs	A CDE	M J ^π : From (α,nγ) nγ(θ) and γγ(θ).
8264 2	5/2 ⁻			R
8292 2	3/2 ⁻		DE	R
8304 10	3/2 ⁻	27 keV 5	I	T J ^π : From 2006MuZX.
8361 10	3/2 ⁺	10 keV 3	D	T J ^π : From 2006MuZX.
8414 10			D	R
8438 2	3/2 ⁻		D	P R
8470 2	3/2 ⁻		DE	QR
8518 2	5/2 ⁻	6 keV	A D	R
8522 2	(3/2 ⁻)	6 keV	A D	T
8599 10	3/2 ⁺	38 keV 7		T J ^π : From 2006MuZX.
8658 2	9/2 ⁻			R

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Adopted Levels, Gammas (continued) ^{21}Ne Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF				Comments
8664.0 10	3/2 ⁻		A	DE		R T	J ^π : From $^{20}\text{Ne}(n,n)$.
8681 10	3/2 ⁻	54 keV 6				T	J ^π : From 2006MuZX.
8774 2	5/2 ⁺					R	
8782 5	3/2 ⁻	50 keV 6	A	DE		P T	J ^π : From 2006MuZX.
8791 2	1/2 ⁺					R	
8801 3		<5 keV	A				
8839 2	3/2 ⁺					R	
8846 5		10 keV	A	D		T	J ^π : From 2006MuZX.
8860.8 3	5/2 ⁺	2.5 keV 4	A	D	IJ	P T	T=3/2 J ^π : L=1 in (d,t).
8899 2	3/2 ⁻					R	
8929 2	5/2 ⁺	5 keV	A			R T	
8955 10				DE			
8981 2	3/2 ⁺					R	
8993 5		2.5 keV	A			T	
9061 10				D			
9099 2	5/2 ⁺					R	
9138 3	1/2 ⁺			D	J		J ^π : L=0 in ($^3\text{He},\alpha$).
9150.6 8	1/2 ⁺	7.6 keV 11		E		T	T=3/2 J ^π : From 2006MuZX.
9188 15				E			
9203 2	3/2 ⁻	10 keV				R T	
9232 2	5/2 ⁺					R	
9251 15				E			
9267 5		15 keV		E		P	
9299 5		10 keV				T	
9368 5		30 keV		E		T	
9401.0 [#] 10	(13/2 ⁻)		A	E	M		J ^π : From ($\alpha,n\gamma$) $n\gamma(\theta)$ and $\gamma\gamma(\theta)$.
9457 10		35 keV		E		T	
9509 5		45 keV 5				T	
9516 5		20 keV				T	
9647 10		30 keV				T	
9673 20		5 keV				T	
9696 10		10 keV				T	
9700 ^c 15	(13/2 ⁺)			E	M		
9724 10		10 keV				T	
9796 3		10 keV				T	
9834 10	3/2 ⁻	50 keV				T	
9857 [‡] 1	(15/2 ⁺)				M	P	
9894 10	3/2 ⁻	48 keV 6				T	J ^π : From 2006MuZX.
9932 10		15 keV				T	
9941 1			A	E	IJ		
9961.8 7	(1/2,3/2) ⁻				IJ		T=3/2 J ^π : L=1 in (d,t).
10043 20				E			
10076 10		5 keV				T	
10112 10		40 keV 5				T	
10188 10		20 keV 10	E			P T	J ^π : From 2006MuZX.
10294 10		73 keV 10				T	
10344 20		5 keV	E			P T	
10384 10		45 keV				T	
10447 10		55 keV				T	
10542 20			E				
10619 10		65 keV				T	
10633.7 5	3/2 ⁺	1.0 keV 6			I	T	T=3/2 J ^π : From 2006MuZX.

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Adopted Levels, Gammas (continued) ^{21}Ne Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF		Comments
10658.5 5		0.6 keV 4		T	T=3/2
10718 10		40 keV 10	E	T	
10844 10		20 keV	E	T	
10877 10		30 keV 10		T	
10915.6 3	3/2 ⁻	9.8 keV 5	E I	T	T=3/2 J ^π : L=1 in (d,t).
11095 20			E		
11283.2 5		18.7 keV 11		P T	T=3/2
11380 20			E		
11453 20			E		
11591 20			E		
11642 20			E		
11704 20			E	P	
11874 20			E		
11983.6 [#] 22	(15/2 ⁻)		E M		J ^π : From $^{16}\text{O}(^7\text{Li,np}\gamma) \gamma, \gamma(\theta)$.
12204 20			E		
12315 2		7 keV 4	E	T	T=3/2
12454.7 18		7.7 keV 32	E	T	T=3/2
12563 20			E		
12950 5		33 keV 10		T	T=3/2
13806 3	(3/2 ⁻)	24 keV 5	I	T	T=3/2 J ^π : From 2006MuZX.
16065 8	(3/2 ⁻)	55 keV 16	I	T	T=3/2 J ^π : From 2006MuZX.

[†] From weighted average of most precise values in associated datasets.

[‡] Band(A): K^π=3/2⁺ band.

[#] Band(B): K^π=3/2⁻ band.

[@] Band(C): K^π=1/2⁻ band.

[&] Band(D): K^π=1/2⁺ band.

^a Band(E): K^π=1/2⁺ band.

^b Band(F): K^π=3/2⁺ band.

^c Band(G): K^π=5/2⁺ band.

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	$\gamma(^{21}\text{Ne})$		Comments
							δ		
350.727	5/2 ⁺	350.725 8	100	0.0	3/2 ⁺	M1+E2	-0.075 3		B(M1)(W.u.)=0.0712 14; B(E2)(W.u.)=24.3 20
1745.910	7/2 ⁺	1395.131 17	100.0 [†] 18	350.727	5/2 ⁺	M1+E2	-0.14 2		B(M1)(W.u.)=0.146 12; B(E2)(W.u.)=11 4
		1745.8 1	5.04 [†] 9	0.0	3/2 ⁺	E2(+M3)	-0.03 4		B(E2)(W.u.)=(9.3 8); B(M3)(W.u.)=(1.9×10 ⁴ +52-19)
2788.79	1/2 ⁻	2437.84 25	100.0 11	350.727	5/2 ⁺	M2(+E3)	+0.12 3		B(M2)(W.u.)=(0.48 3); B(E3)(W.u.)=(13 7)
		2787.87 10	20.0 11	0.0	3/2 ⁺	E1(+M2)	<0.6		B(E1)(W.u.)>5.7×10 ⁻⁸ ; B(M2)(W.u.)<0.014
2794.17	1/2 ⁺	2793.94 5	100 3	0.0	3/2 ⁺	M1			B(M1)(W.u.)=0.184 24
2866.6	9/2 ⁺	1120.0 3	100 5	1745.910	7/2 ⁺	M1+E2	-0.08 2		B(M1)(W.u.)=0.24 3; B(E2)(W.u.)=9 5
		2516.0 2	63 5	350.727	5/2 ⁺	E2+(M3)	-0.03 4		B(E2)(W.u.)=15.7 22; B(M3)(W.u.)=(1.6×10 ⁴ +42-16)
3663.57	3/2 ⁻	869.37 11	7 3	2794.17	1/2 ⁺				
		874.84 11	62 5	2788.79	1/2 ⁻	M1+E2	-0.09 4		B(M1)(W.u.)=0.184 24; B(E2)(W.u.)=15 13
		3311.92 25	100 4	350.727	5/2 ⁺	E1(+M2)	+0.05 7		B(E1)(W.u.)=(0.000222 25); B(M2)(W.u.)=(0.23 +65-23)
3735.59	5/2 ⁺	1989 1	8 2	1745.910	7/2 ⁺				
		3384.6 2	14 2	350.727	5/2 ⁺	M1+E2	-0.55 10		B(M1)(W.u.)>0.0046; B(E2)(W.u.)>0.71
		3735.2 2	100 3	0.0	3/2 ⁺	M1+E2	-0.15 2		B(M1)(W.u.)>0.034; B(E2)(W.u.)>0.30
3883.96	5/2 ⁻	221 1	6.0 15	3663.57	3/2 ⁻				
		1095 1	0.6 3	2788.79	1/2 ⁻				
		3533.2 4	100 4	350.727	5/2 ⁺	E1(+M2)	+0.07 4		B(E1)(W.u.)=(0.00053 7); B(M2)(W.u.)=(1.0 +11-10)
		3883.5 3	33 4	0.0	3/2 ⁺	E1(+M2)	+0.03 3		B(E1)(W.u.)=(0.000133 23); B(M2)(W.u.)=(0.04 +8-4)
4433.3	11/2 ⁺	1567.2 10	100 5	2866.6	9/2 ⁺	M1+E2	-0.10 3		B(M1)(W.u.)=0.20 4; B(E2)(W.u.)=6 4
		2687	32 7	1745.910	7/2 ⁺				
4525.84	5/2 ⁺	2779.4 3	5.0 [†] 5	1745.910	7/2 ⁺				
		4174.3 3	100 [†] 2	350.727	5/2 ⁺				
		4525.84 24	29.7 [†] 8	0.0	3/2 ⁺				
4684.53	3/2 ⁺	1890.4 3	3.8 [†] 6	2794.17	1/2 ⁺	(M1)			B(M1)(W.u.)=0.0069 22
		4333.35 25	100 [†] 3	350.727	5/2 ⁺	M1			B(M1)(W.u.)=0.015 5
		4683.94 25	59.0 [†] 21	0.0	3/2 ⁺	M1			B(M1)(W.u.)=0.0071 20
4725.35	3/2 ⁻	1931.08 6	30.0 6	2794.17	1/2 ⁺				
		4374.13 6	100.0 6	350.727	5/2 ⁺				
5334.4	7/2 ⁻	1451.2 10	5 1	3883.96	5/2 ⁻				
		2467.6 10	15 5	2866.6	9/2 ⁺				
		4984.1 10	100 5	350.727	5/2 ⁺				
5431.3	(7/2 ⁺)	2564.7 10	13 3	2866.6	9/2 ⁺				
		3685.2 10	26 4	1745.910	7/2 ⁺				
		5080.7 10	100 4	350.727	5/2 ⁺	M1+E2	+0.84 +40-24		B(M1)(W.u.)>0.0054; B(E2)(W.u.)>0.80
5525.0		1746	100						
5549	3/2 ⁺	1024 2	56 8	4525.84	5/2 ⁺				
		1815 2	100 12	3735.59	5/2 ⁺				
		2754 2	64 20	2794.17	1/2 ⁺				
		2760 2	72 20	2788.79	1/2 ⁻				
		5199 2	24 12	350.727	5/2 ⁺				
		5550 2	84 12	0.0	3/2 ⁺	M1+E2	-0.27 3		B(M1)(W.u.)=0.0009 4; B(E2)(W.u.)=0.016 7

5

²¹Ne₁₁-5

From ENSDF

²¹Ne₁₁-5

Adopted Levels, Gammas (continued)

$\gamma(^{21}\text{Ne})$ (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>
5630.7	7/2 ⁺	1895.0 10	9 6	3735.59	5/2 ⁺			
		3884.1 10	20 7	1745.910	7/2 ⁺			
		5279.6 10	100 7	350.727	5/2 ⁺			
		5630.2 10	14 6	0.0	3/2 ⁺			
5689.81	1/2 ⁻	964	11.9 24	4725.35	3/2 ⁻			
		2895.32 10	100 7	2794.17	1/2 ⁺			
		5688.97 6	81 5	0.0	3/2 ⁺			
5773.0	(3/2,5/2)	5422 2	18 12	350.727	5/2 ⁺			
		5773 2	100 12	0.0	3/2 ⁺			
5818.2	7/2 ⁻	1294 2	16 6	4525.84	5/2 ⁺			
		1934 2	100 12	3883.96	5/2 ⁻	M1+E2	+0.09 4	B(M1)(W.u.)>0.040; B(E2)(W.u.)>0.077
		2082 2	38 9	3735.59	5/2 ⁺	E1+M2	-0.04 4	B(E1)(W.u.)>0.00050
		2154 2	12 6	3663.57	3/2 ⁻			
		2953 2	75 6	2866.6	9/2 ⁺	E1(+M2)	+0.02 3	B(E1)(W.u.)>0.00035
		4073 2	16 6	1745.910	7/2 ⁺			
		5468 2	53 6	350.727	5/2 ⁺			
5822	3/2 ⁺	3025 2	92 10	2794.17	1/2 ⁺			
		5471 2	100 10	350.727	5/2 ⁺			
5992.56	3/2 ⁻	5641.00 25		350.727	5/2 ⁺			
		5991.71 13	100 5	0.0	3/2 ⁺			
6033.3	9/2 ⁻	698.1 6	39 9	5334.4	7/2 ⁻			
		2149.3 6	30 4	3883.96	5/2 ⁻			
		3166.2 6	83 4	2866.6	9/2 ⁺	E1(+M2)	-0.08 13	B(E1)(W.u.)=(0.00048 6); B(M2)(W.u.)=(1.4 +46-14)
		4286.7 6	100 4	1745.910	7/2 ⁺	E1+M2	-0.08 +5-4	B(E1)(W.u.)=0.00023 3; B(M2)(W.u.)=0.4 +5-4
6174.2	(5/2) ⁺	2438 2	36 11	3735.59	5/2 ⁺	M1+E2	-1.6 +15-6	B(M1)(W.u.)=0.008 +11-8; B(E2)(W.u.)=24 19
		4429 2	100 11	1745.910	7/2 ⁺	M1+E2	-0.09 +5-4	B(M1)(W.u.)=0.012 6; B(E2)(W.u.)=0.04 +5-4
		5824 2	80 11	350.727	5/2 ⁺			
		6175 2	11 7	0.0	3/2 ⁺			
6263	(7/2 ⁺)	3393 1		2866.6	9/2 ⁺			
		5909 1		350.727	5/2 ⁺			
6267.0	9/2 ⁺	1833.2 16	5 3	4433.3	11/2 ⁺			
		2382	8 5	3883.96	5/2 ⁻			
		3400.1 16	100 11	2866.6	9/2 ⁺	M1+E2	+0.02 +5-8	B(M1)(W.u.)=0.016 9; B(E2)(W.u.)=0.004 +22-4
		4520.6 16	10 6	1745.910	7/2 ⁺			
		5916.1 16	20 7	350.727	5/2 ⁺			
6271.3	9/2 ⁺	2534		3735.59	5/2 ⁺			
		3405.0 7	100	2866.6	9/2 ⁺			
6412.5		3545 1	100	2866.6	9/2 ⁺			
6448.3	(13/2 ⁺)	2015 3	100 12	4433.3	11/2 ⁺	M1+E2	<-0.3	B(M1)(W.u.)>0.14 δ : +0.21 5 (for J ^{π} =9/2 ⁺).
		3581.9 15	25 12	2866.6	9/2 ⁺			
6543.5		4797 1	100	1745.910	7/2 ⁺			
6554.2	9/2	2122.5 12	17 5	4433.3	11/2 ⁺			E _{γ} : Energy adjusted by evaluator to fit level scheme.

Adopted Levels, Gammas (continued)

$\gamma(^{21}\text{Ne})$ (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>
6554.2	9/2	3687.6 12	37 6	2866.6	9/2 ⁺			
		4808.2 12	100 9	1745.910	7/2 ⁺	D+Q	+0.0 2	
6609.0		6256.0 18	100 5	350.727	5/2 ⁺	M1+E2	+0.8 +6-4	B(M1)(W.u.)>0.0031; B(E2)(W.u.)>0.078
		6606.6 18	5 5	0.0	3/2 ⁺			
6640.7	9/2 ⁽⁻⁾	1090 2	24.4 22	5549	3/2 ⁺			
		2208 2	33.3 22	4433.3	11/2 ⁺			
		3773 2	100 4	2866.6	9/2 ⁺	D+Q	+0.09 15	
		4893 2	64 4	1745.910	7/2 ⁺	Q+O	+0.03 6	
6748.5		3013 3	32 5	3735.59	5/2 ⁺			
		6398 3	100 7	350.727	5/2 ⁺			
		6748 3	37 7	0.0	3/2 ⁺			
6761.11		768.53 7	0.81 12	5992.56	3/2 ⁻	E1		
		1071.27 4	18.0 4	5689.81	1/2 ⁻	E1		
		2035.65 3	100 4	4725.35	3/2 ⁻	E1		
		2076.53 21	0.88 14	4684.53	3/2 ⁺	M1		
		3097.29 7	0.45 12	3663.57	3/2 ⁻	E1		
		3966.52 4	0.55 7	2794.17	1/2 ⁺	E1		
		3971.99 10	1.34 21	2788.79	1/2 ⁻	E1		
		6409.34 4	0.69 10	350.727	5/2 ⁺	E2		
		6759.94 3	10.1 5	0.0	3/2 ⁺	M1		
7008.7	7/2 ⁺	3271 1	5.7 19	3735.59	5/2 ⁺			
		4139 1	11 6	2866.6	9/2 ⁺			
		5260 1	100 8	1745.910	7/2 ⁺	(M1+E2)	-0.35 6	B(M1)(W.u.)>0.0058; B(E2)(W.u.)>0.14
		6655 1	58 8	350.727	5/2 ⁺	(E2+M3)	-0.21 4	B(E2)(W.u.)>0.31; B(M3)(W.u.)>1.4×10 ³
		7006 1	13 4	0.0	3/2 ⁺			
7022.8	(7/2 ⁺)	5276 1	100	1745.910	7/2 ⁺			
7043.9	(9/2 ⁺)	1610 1	10.9 16	5431.3	(7/2 ⁺)			
		4176 1	38 3	2866.6	9/2 ⁺			
		5295 1	100 5	1745.910	7/2 ⁺	M1+E2	-0.27 6	B(M1)(W.u.)>0.0051; B(E2)(W.u.)<0.20 δ : +0.27 6 (for J ^{π} =5/2 ⁺).
		6690 1	8 5	350.727	5/2 ⁺			
7362.7	(7/2,9/2 ⁺)	4490 2	54 8	2866.6	9/2 ⁺			
		5610 2	100 8	1745.910	7/2 ⁺			
7370.6	(7/2 ⁻)	4504.3 18	100 6	2866.6	9/2 ⁺			
		5623 4	32 4	1745.910	7/2 ⁺			
7420.3	(11/2 ⁻)	2087 1	4 3	5334.4	7/2 ⁻			
		4556 1	100 4	2866.6	9/2 ⁺	(D+Q)	+0.12 +3-2	δ : -0.12 +2-3 (for J ^{π} =7/2 ⁺).
7648	(7/2 ⁺)	4782 2	20 12	2866.6	9/2 ⁺			
		5902 2	100 14	1745.910	7/2 ⁺			
		7297 2	59 16	350.727	5/2 ⁺			
		7648 2	48 14	0.0	3/2 ⁺			
7960.9	(11/2 ⁻)	5093 1	100	2866.6	9/2 ⁺			
7982.1	(7/2,11/2 ⁺)	3550 1	38 5	4433.3	11/2 ⁺			

Adopted Levels, Gammas (continued)

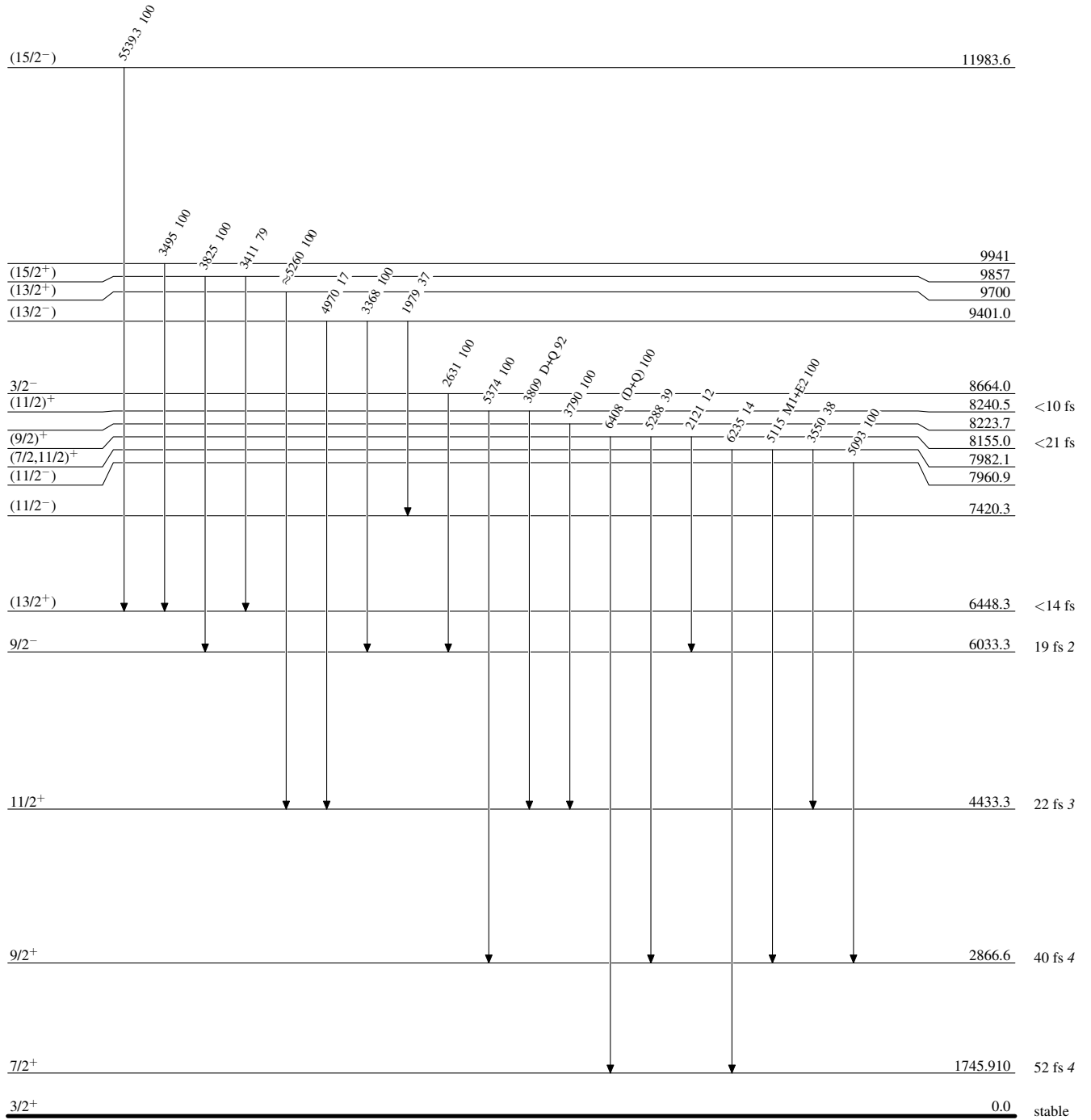
γ(²¹Ne) (continued)

<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>
7982.1	(7/2,11/2) ⁺	5115 1	100 3	2866.6	9/2 ⁺	M1+E2	+0.19 4	δ: +0.19 4 (for J ^π =7/2 ⁺).
		6235 1	14 3	1745.910	7/2 ⁺			
8155.0	(9/2) ⁺	2121 1	12 6	6033.3	9/2 ⁻			
		5288 1	39 9	2866.6	9/2 ⁺			
		6408 1	100 9	1745.910	7/2 ⁺	(D+Q)	-0.05 4	
8223.7		3790	100	4433.3	11/2 ⁺			
8240.5	(11/2) ⁺	3809 1	92 8	4433.3	11/2 ⁺	D+Q	-1.2 2	
		5374 1	100 8	2866.6	9/2 ⁺			
8664.0	3/2 ⁻	2631 1	100	6033.3	9/2 ⁻			
9401.0	(13/2 ⁻)	1979 1	37 5	7420.3	(11/2 ⁻)			
		3368 1	100 7	6033.3	9/2 ⁻			
		4970 1	17 5	4433.3	11/2 ⁺			
9700	(13/2 ⁺)	≈5260	100	4433.3	11/2 ⁺			
9857	(15/2 ⁺)	3411 1	79 7	6448.3	(13/2 ⁺)			
		3825 1	100 7	6033.3	9/2 ⁻			
9941		3495 1	100	6448.3	(13/2 ⁺)			
11983.6	(15/2 ⁻)	5539.3 2	100	6448.3	(13/2 ⁺)			

† From ²¹F β⁻ decay.

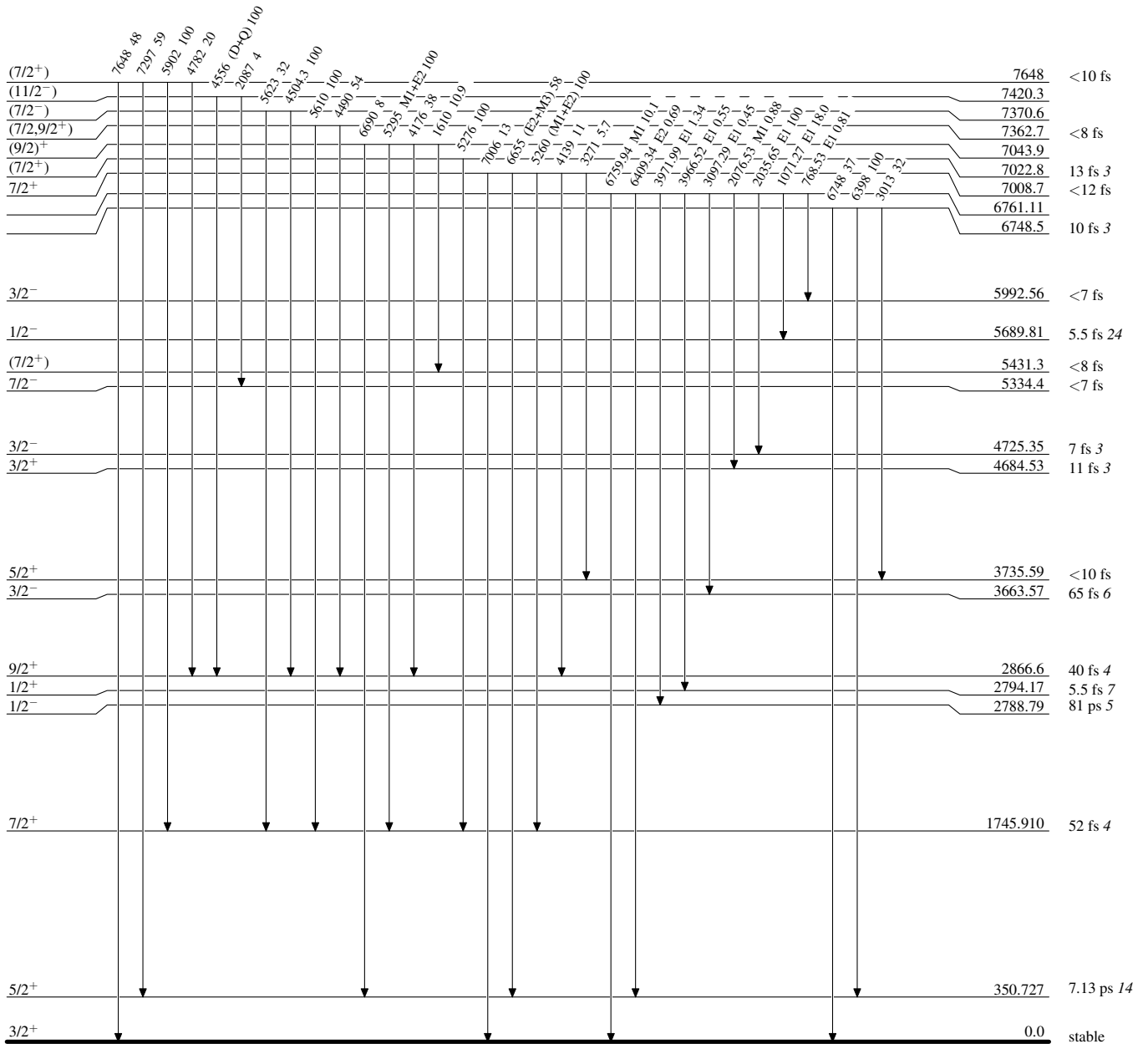
Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level

 $^{21}_{10}\text{Ne}_{11}$

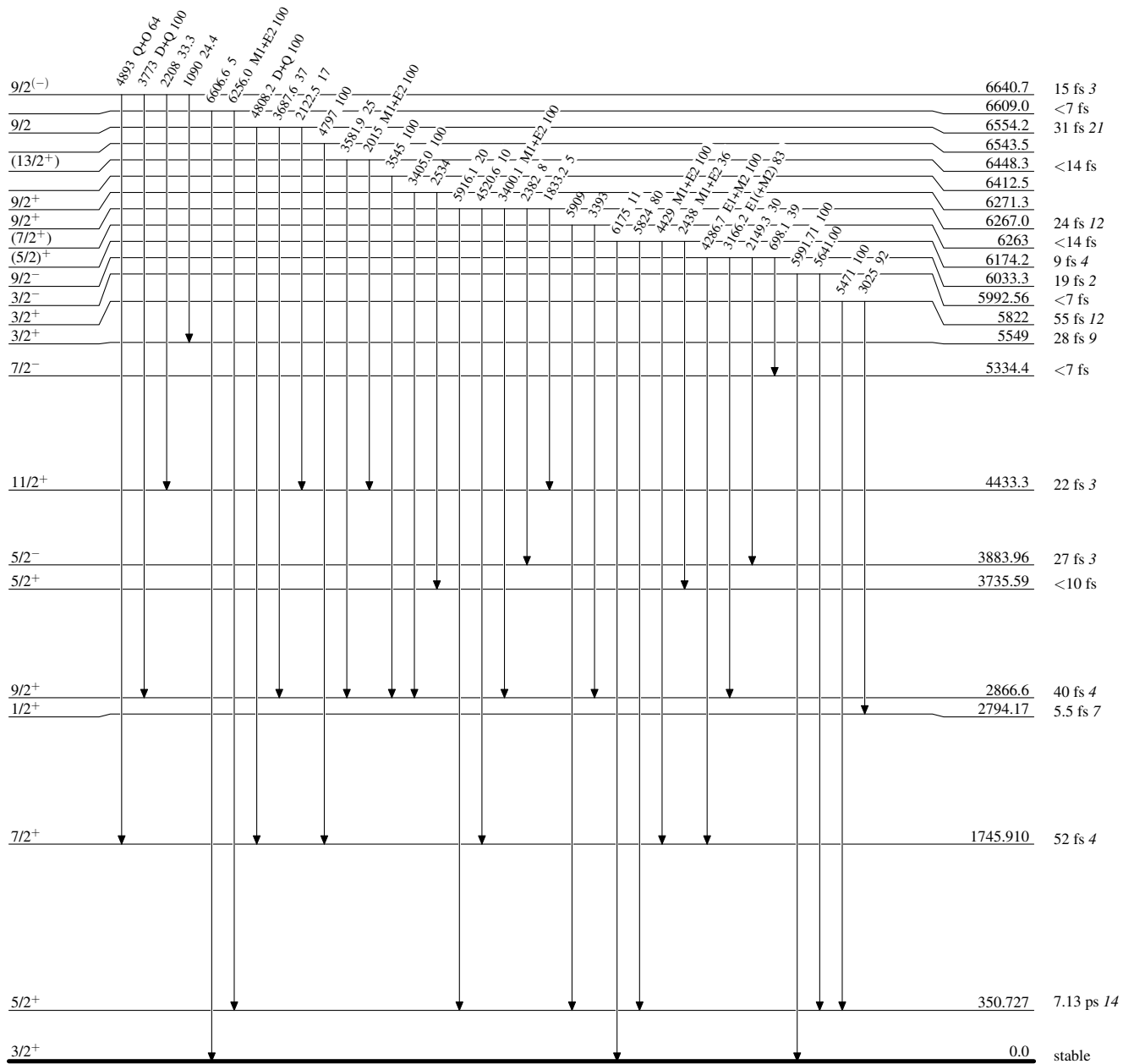
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

 $^{21}_{10}\text{Ne}_{11}$

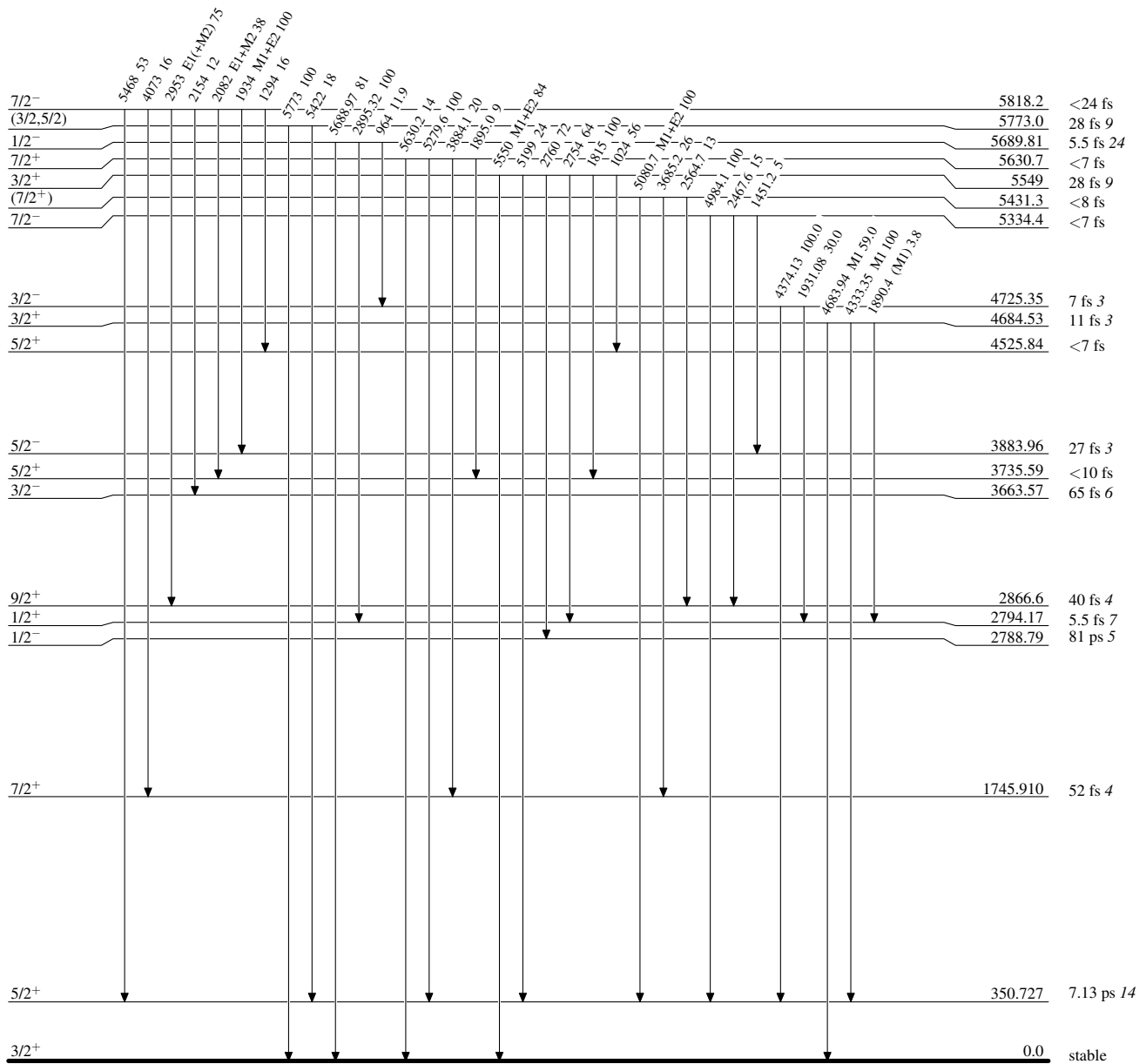
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



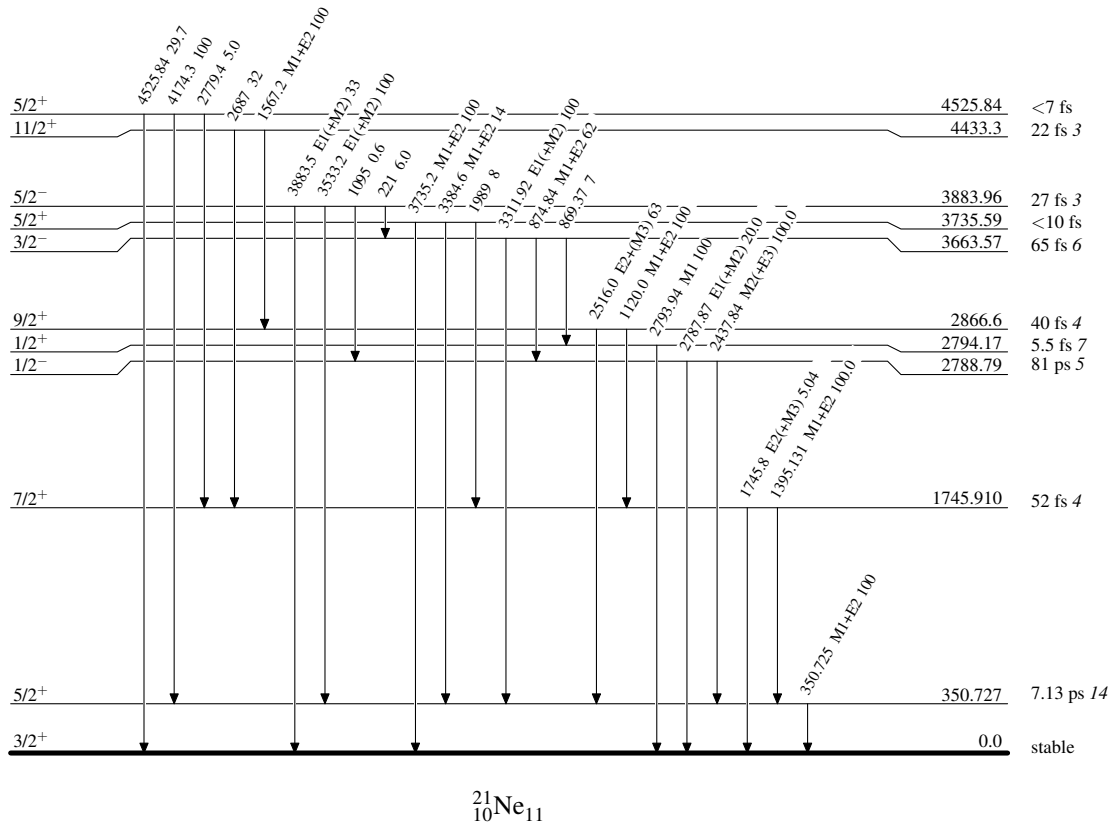
Adopted Levels, Gammas**Level Scheme (continued)**

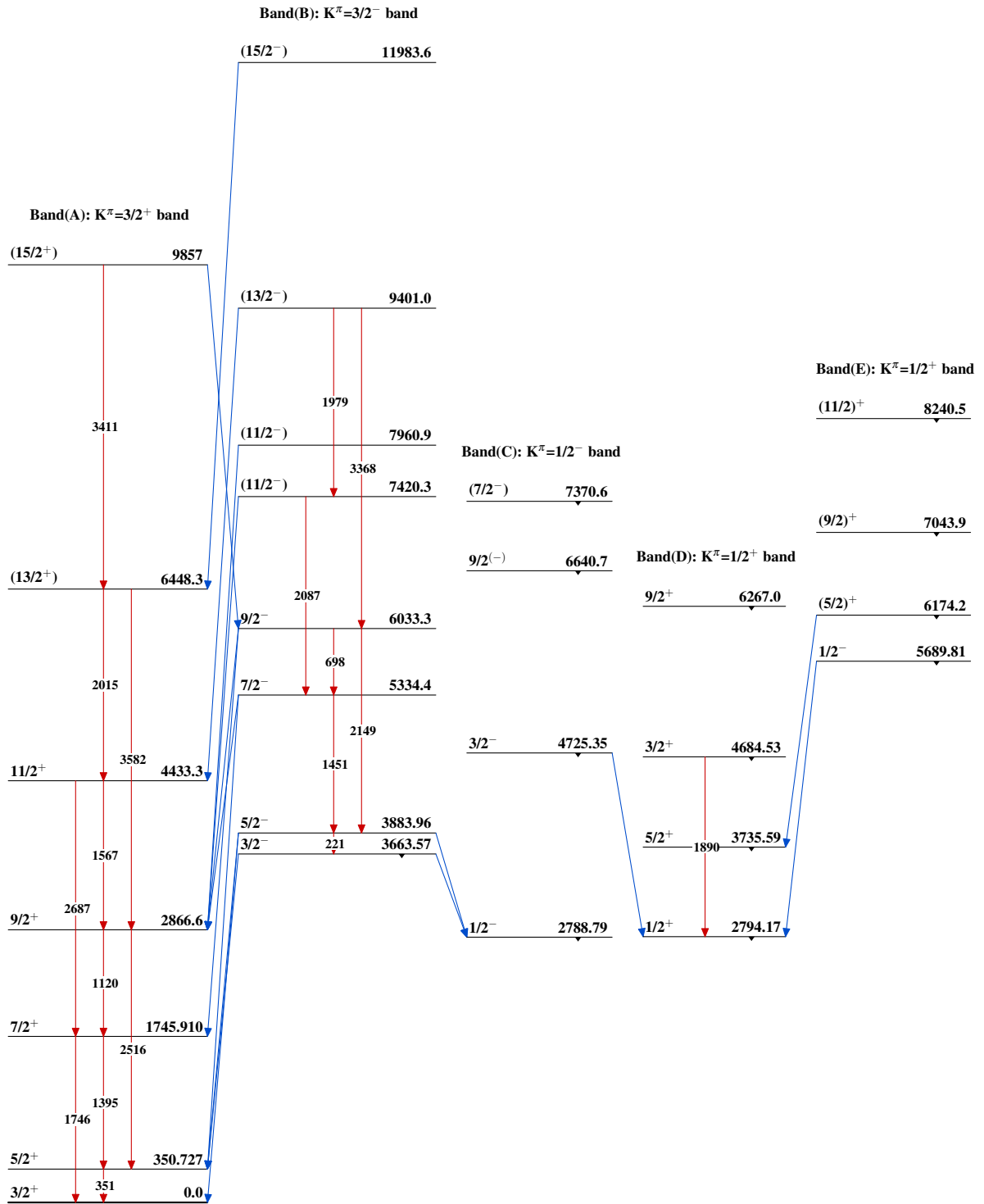
Intensities: Relative photon branching from each level

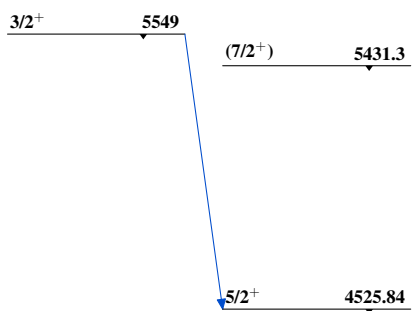
 $^{21}_{10}\text{Ne}_{11}$

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

Intensities: Relative photon branching from each level



Adopted Levels, Gammas $^{21}_{10}\text{Ne}_{11}$

Adopted Levels, Gammas (continued)Band(G): $K^\pi=5/2^+$ band(13/2⁺) 9700Band(F): $K^\pi=3/2^+$ band(7/2⁺) 6263 $^{21}_{10}\text{Ne}_{11}$