

Adopted Levels, Gammas 1998Ti06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. R. Tilley, C. Cheves, J. Kelley, S. Raman, H. Weller		NP A636, 249 (1998)	21-Apr-1997

$Q(\beta^-) = -13892.5$ 12; $S(n) = 16865.30$ 16; $S(p) = 1.284 \times 10^4$; $Q(\alpha) = -4730$ 2012Wa38

Note: Current evaluation has used the following Q record.

$Q(\beta^-) = -13886$ 7; $S(n) = 16864.4$ 6; $S(p) = 12843.50$ 7; $Q(\alpha) = -4729.84$ 1 1997Au04

See other reaction references in 1998Ti06.

 ^{20}Ne LevelsCross Reference (XREF) Flags

A	$^{20}\text{F} \beta^-$ decay	E	$^{16}\text{O}(\alpha, \alpha)$, $^{16}\text{O}(\alpha, 2\alpha)$	I	$^{19}\text{F}(\text{p}, \gamma)$
B	$^{20}\text{Na} \beta^+$ decay	F	$^{16}\text{O}(^6\text{Li}, \text{d})$	J	$^{19}\text{F}(\text{p}, \text{p})$, $^{19}\text{F}(\text{p}, \text{d})$
C	$^{12}\text{C}(^{12}\text{C}, \alpha)$	G	$^{16}\text{O}(^7\text{Li}, \text{t})$	K	$^{19}\text{F}(\text{p}, \alpha)$
D	$^{16}\text{O}(\alpha, \gamma)$	H	$^{16}\text{O}(^{12}\text{C}, ^8\text{Be})$		

E(level)	J^π	$T_{1/2}$	XREF	Comments
0.0	0^+	stable	ABCD FGHI	T=0
1633.674 15	2^+	0.73 ps 4	ABCD FGHI	$\mu = +1.08$ 8 (1989Ra17); $Q = -0.23$ 3 (1989Ra17); T=0
4247.7 11	4^+	64 fs 6	ABCD FGH	$\mu = +0.5$ 6 (1989Ra17); T=0
4966.51 20	2^-	3.3 ps 4	ABC FG I	T=0
5621.4 17	3^-	139 fs 35	A CD F	%IT=7 3; % α =93 3 $\Gamma_\gamma = 2.4 \times 10^{-4}$ eV 6; T=0
5787.7 26	1^-	0.028 keV 3	A CDEFGH	%IT=0.016 3; % α =100 $\Gamma_\gamma = 4.6 \times 10^{-3}$ eV 8; T=0
6706 47			B	T=0
6725 5	0^+	19.0 keV 9	A DEF	%IT=1.7 $\times 10^{-4}$; % α =100 $\Gamma_\gamma = 0.033$ eV; T=0
7004.0 36	4^-	305 fs 62	A C F	T=0
7156.3 5	3^-	8.2 keV 3	C EFGH	%IT=2.0 $\times 10^{-5}$ 2; % α =100 $\Gamma_\gamma = 16.1 \times 10^{-4}$ eV 15; T=0
7191 3	0^+	3.4 keV 2	CDE	%IT=1.29 $\times 10^{-4}$ 25; % α =100 $\Gamma_\gamma = 4.4 \times 10^{-3}$ eV 8; T=0
7421.9 12	2^+	15.1 keV 7	BCDEF	%IT=1.9 $\times 10^{-4}$ 3; % α =100 $\Gamma_\gamma = 0.029$ eV 4; T=0
7833.4 15	2^+	2 keV	BCDE	%IT=3.4 $\times 10^{-3}$; % α =100 $\Gamma_\gamma = 0.069$ eV 7; T=0
8453 4	5^-	0.013 keV 4	CDEF	%IT=0.10 4; % α =99.90 4 $\Gamma_\gamma = 0.013$ eV 3; T=0
≈ 8700	0^+	>800 keV	E	% α =100 T=0
8708 7	1^-	2.1 keV 8	CDE	%IT=3.3 $\times 10^{-3}$ 15; % α =100 $\Gamma_\gamma = 0.070$ eV 17; T=0
8777.6 22	6^+	0.11 keV 2	CDEFGH	%IT=0.091 21; % α =100 $\Gamma_\gamma = 0.100$ eV 15; T=0
8820	(5^-)	<1 keV	E	% α =100 T=0
8854 5	1^-	19 keV	C E	% α =100 T=0
90.0×10^2 18	2^+	≈ 800 keV	E	% α =? T=0
9031 7	4^+	3 keV	CDE	%IT=0.011; % α =100 $\Gamma_\gamma = 0.34$ eV 4; T=0
9116 3	3^-	3.2 keV	CDE	%IT=8 $\times 10^{-4}$; % α =100

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Adopted Levels, Gammas 1998Ti06 (continued)

^{20}Ne Levels (continued)				
E(level)	J^π	$T_{1/2}$	XREF	Comments
9196 30	2 ⁺		B	$\Gamma_\gamma=0.026$ eV 3; T=0
9318 2	(2 ⁻)		CD	T=0
9487 5	2 ⁺	29 keV 15	B DE	%IT=9×10 ⁻⁴ 6; %α=100
9873 4	3 ⁺		BC	$\Gamma_\gamma=0.26$ eV 10; T=0
9935 12	(1 ⁺)	<24.3 fs	C	$\Gamma_\gamma/\Gamma=0.82$ 27; T=0
9990 8	4 ⁺	155 keV 30	CDE	T=0
				%IT=6×10 ⁻⁴ 3; %α=100
10262 5	5 ⁻	145 keV 40	C EFGH	$\Gamma_\gamma=0.9$ eV 4; T=0
				%α=100
10273.2 19	2 ⁺	≤0.3 keV	B DE	T=0
				%IT=?; %α=?
10406 5	3 ⁻	80 keV	C E	$\Gamma_\gamma=4.6$ eV 5; T=1
				%α=100
10553 5	4 ⁺	16 keV	C E	T=0
				%α=100
10584 5	2 ⁺	24 keV	B E	T=0
				%α=100
10609 6	6 ⁻	16 fs 5	C	T=0
10694 6	4 ⁻ , 3 ⁺		C	T=0
10800 75	4 ⁺	350 keV	EF	T=0
				%α=100
10840 6	3 ⁻	45 keV	C E	T=0
				%IT=?; %α=?
10843 4	2 ⁺	13 keV	B E	T=0
				%α=100
10884 3	3 ⁺	<21 fs	B	$\Gamma_\gamma/\Gamma<0.3$; T=1
10917 6	3 ⁺		C	T=0
10940 9	2 ⁺		B	
109.7×10 ² 12	0 ⁺	580 keV	E	%α=100
				T=0
11020 8	4 ⁺	24 keV	C E	%α=100
				T=0
11090 3	4 ⁺	≤0.5 keV	DE	%IT=?; %α=?
				$\Gamma_\gamma=0.34$ eV 4; T=1
11116 9	2 ⁺		B	
11240 23	1 ⁻	175 keV	E	%α=100
				T=0
11262.3 19	1 ⁺		B D	T=1
11270 5	1 ⁻	≤0.3 keV	DE	%IT=?; %α=?
				$\Gamma_\gamma=0.71$ eV 6; T=1
11320 9	2 ⁺	40 keV 10	B E	%α=100
				T=0
11528 6	3 ⁺ , 4 ⁻	≤21 fs	C	T=0
11555 6	(3 ⁺)		C	T=0
11558 4	0 ⁺	1.1 keV 4	DE	%IT=?; %α=?
				T=0
11601 10	2 ⁻			T=1
				Decay mode not specified.
11653 5	(3 ⁺)		C	T=0
11885 7	2 ⁺	46 keV	B E	%IT=?; %α=?
				T=0
11928 4	4 ⁺	0.44 keV 15	DE	%IT=6×10 ⁻³ 3; %α=100
				$\Gamma_\gamma=0.026$ eV 6; T=0
11951 4	8 ⁺	0.035 keV 10	CDEFGH	%IT=0.022 7; %α=100

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Adopted Levels, Gammas 1998Ti06 (continued)

^{20}Ne Levels (continued)				
E(level)	J ^{π}	T _{1/2}	XREF	Comments
11985 16	1 ⁻	30 keV 5	CDE	$\Gamma_{\gamma}=7.7\times 10^{-3}$ eV 11; T=0 %IT=?; % α =?
12098 6	2 ⁻		C	T=0
12137 5	6 ⁺		C E	T=1 % α =100
12221 4	2 ⁺	<1 keV	CD	T=0 %IT=?; % α =?
12253 10	4 ⁺	155 keV 15	E	T=1 % α =100
12256 3	3 ⁻	<1 keV	DE	T=0 %IT=?; % α =?
12327 10	2 ⁺	390 keV 50	E	T=1 % α =100
12401 5	3 ⁻	37.3 keV 9	CDE	T=0 %IT=5 $\times 10^{-4}$; % α =100
12436 4	0 ⁺	24.4 keV 5	CDE	$\Gamma_{\gamma}=0.2$ eV; T=(1) %IT=7.0 $\times 10^{-4}$ 21; % α =100
12472 10	(2 ⁺)	124 keV 6	E	$\Gamma_{\gamma}=0.17$ eV 5; T=0 % α =100
12585 5	6 ⁺	72 keV 9	C EFGH	T=0 % α =100
12592 15	(2 ⁺)	145 keV 25	E	T=0 % α =100
12713 5	5 ⁻	84 keV 8	C E	T=0 % α =100
12743 10	(2 ⁺)	61 keV 12	C E	T=0 % α =100
12836 5	1 ⁻	30 keV 5	C E	T=0 % α =100
12957 5	2 ⁺	38 keV 4	C E	T=0 % α =100
13048 5	4 ⁺	18 keV 3	C E	T=0 % α =100
13060.7 21	2 ⁻	1.0 keV		T=0 %p=?; % α =?
13095 6	2 ⁺	162 keV 13	E	% α =100
13105 5	6 ⁺	102 keV 5	E	T=0 % α =100
13137 5	3 ⁻	48 keV 4	E	T=0 % α =100
13171.3 21	1 ⁺	2.3 keV 2	IJK	T=0 %IT=?; %p=?; % α =?
13222 10	0 ⁺	40 keV 13	C E K	T=(1) % α =100
13224 15	1 ⁻	80 keV	E K	T=0 %p=?; % α =?
13226 5	3 ⁻	53 keV 4	E	T=0 % α =100
13307.5 21	1 ⁺	0.9 keV 1		T=0 %IT=?; %p=?; % α =?
13338 5	7 ⁻	0.08 keV 3	C E	% α =100
13341 5	4 ⁺	26 keV 3	E	T=0 % α =100
13414 2	3 ⁻	24 keV 3	E IJK	T=0 % α =100

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Adopted Levels, Gammas 1998Ti06 (continued)

					<u>²⁰Ne Levels (continued)</u>
E(level)	J ^π	T _{1/2}	XREF		Comments
13426 5	(5 ⁻)	49 keV 7	E		%α=100 T=0
13461 10	1 ⁻	195 keV 25	E K		%p=?; %α=?
13484 2	1 ⁺	6.4 keV 3	IJK		%IT=?; %p=?; %α=? T=1
13507 5	1 ⁻	24 keV 8	E JK		%p=?; %α=? T=0
13529 5	2 ⁺	61 keV 8	E		%α=100 T=0
13530 15	(0 ⁺)	76 keV 32	E		%α=100 T=0
13573 5	2 ⁺	12 keV 5	C E	K	%α=100 T=0
13586 3	2 ⁺	9 keV 1	JK		%p=?; %α=?
13642 3	0 ⁺	17 keV 1	C	JK	%p=?; %α=? T=1
13676.0 23	(2 ⁻)	4.5 keV 2	IJK		%IT=?; %p=?; %α=?
13677 5	5 ⁻	11 keV 2	E		%α=100 T=0
13692 10	7 ⁻	310 keV 30	E		%α=100 T=0
13736.0 25	1 ⁺	7.7 keV 5	IJK		%IT=?; %p=?; %α=?
13744 20	0 ⁺	≈80 keV	E		%α=100 T=0
13827 10	3 ⁻	136 keV 15	C E		%α=100 T=0
13866 30	1 ⁻	≈175 keV	C E	K	%p=?; %α=? T=0
13881.0 23	2 ⁺	0.14 keV 5	C	IJK	%IT=?; %p=?; %α=? T=1
13908 5	2 ⁺	74 keV 10	E K		%α=100 T=0
13926.0 23	(0 ⁺)	3.5 keV 4	K		%p=?; %α=?
13928 5	6 ⁺	65 keV 3	EFG		%α=100 T=0
13948 10	0 ⁺	79 keV 15	E		%α=100 T=0
13965 5	4 ⁺	8.1 keV 10	E		%α=100 T=0
14020	1 ⁻	≈70 keV	K		%p=?; %α=?
14063.0 23	2 ⁺	≈140 keV	JK		%p=?; %α=?
14115 5	2 ⁺	42 keV 6	E		%α=100 T=0
14128 2	2 ⁻	4.7 keV 7	IJK		%IT=?; %p=?; %α=?
14150.0 23	2 ⁻	11.8 keV 10	IJK		%IT=?; %p=?; %α=?
14200	1 ⁺	14 keV 1	IJ		%IT=?; %p=?
14270 10	4 ⁺	92 keV 9	E		%α=100 T=0
14304 10	(6 ⁺)	60 keV 13	C E		%α=100 T=0
14311 5	6 ⁺	117 keV 8	C EFGH		%α=100 T=0
14313 15	(3 ⁻)	≈45 keV	E		%α=100 T=0
14370 3		≈5 keV	JK		%p=?; %α=?
14454 5	5 ⁻	≈15 keV	E		%α=100

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Adopted Levels, Gammas 1998Ti06 (continued)

^{20}Ne Levels (continued)				
E(level)	J ^π	T _{1/2}	XREF	Comments
14455 3	(0 ⁺ ,2 ⁺)	33 keV 3	E JK	T=0 %p=?; %α=?
14475 6	0 ⁺	68 keV 2	JK	T=0 %p=?; %α=?
14593 10	4 ⁺	260 keV 25	E	%α=100 T=0
14597 7	1 ⁻	116 keV 5	E K	%p=?; %α=? T=0
14653 10	(0 ⁺)	25 keV	JK	%p=?; %α=?
14699.0 33	(1 ⁺)	36 keV 10	E JK	%p=?; %α=?
14731 10	(4 ⁺)	60 keV 25	E	%α=100 T=0
14761 5	6 ⁺	7.3 keV 48	E	%α=100 T=0
14776 4	(1 ⁻)	110 keV 20	JK	%p=?; %α=?
14807 5	6 ⁺	86 keV 7	E K	%α=100 T=0
14816 5	5 ⁻	117 keV 13	E	%α=100 T=0
14839 10	(4 ⁺)	79 keV 15	E	%α=100 T=0
14888 10	2 ⁺	100 keV 30	E K	%p=?; %α=? T=0
15047 10	2 ⁺	66 keV 20	C E K	%p=?; %α=? T=0
15073 10	5 ⁻	160 keV 25	E	%α=100 T=0
15142 15	(2 ⁺)	≈60 keV	E	%α=100 T=0
15159 5	6 ⁺	60 keV 15	C	%α=? T=0
15174 10	5 ⁻	230 keV 25	E	%α=100 T=0
15230		28 keV		%p=?; %α=?
15270	(1 ⁻)	285 keV	C EFGH	%p=?; %α=?
15330 5	4 ⁺	34 keV 10	C E	%α=100 T=0
15346 15	6 ⁺		E	T=0
15366 5	7 ⁻	110 keV 10	EFGH	%α=100 T=0
15436 15	(3 ⁻)	90 keV 20	C E K	%p=?; %α=? T=0
15500		55 keV	E K	%p=?; %α=?
15700 15	(8 ⁻)		C E	%α=100 T=0
15874 9	8 ⁺	100 keV 15	C F H	%α=100
15970	(6 ⁺)		E	%α=100 T=0
16010 25	(2 ⁺)	100 keV	K	%p=?; %α=? T=(1)
16139 15		38 keV	C E K	%α=100
16250			E	%α=100
16329 11	4 ⁺	45 keV	E K	%p=?; %α=? T=0
16437 11	(0,2,4) ⁺	35 keV	E	%α=100 T=0

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Adopted Levels, Gammas 1998Ti06 (continued)

^{20}Ne Levels (continued)				
E(level)	J ^π	T _{1/2}	XREF	Comments
16505 15	6 ⁺	24 keV 4	E	%α=100 T=0
16559 15	5 ⁻	90 keV 30	E	%α=100 T=0
16581 15	7 ⁻	92 keV 8	C E	%α=100 T=0
16628 20	3 ⁻	80 keV 25	E	%α=100 T=0
16630 20	(7 ⁻)		FGH	%α=100
16667 15	4 ⁺	100 keV 25	E	%α=100 T=0
16717 15	5 ⁻	≈25 keV	C E	%α=100 T=0
16732.9 27	0 ⁺	2.0 keV 5	IJK	%IT=?; %p=?; %α=? T=2
16746 25	8 ⁺	160 keV 50	E	%α=100 T=0
16847 15	5 ⁻	16 keV 8	E	%α=100 T=0
16871 20	6 ⁺	350 keV 50	E	%α=100 T=0
17072 20	4 ⁺	180 keV 30	E	%α=100 T=0
17155 15	5 ⁻	26 keV 5	E	%α=100 T=0
17213 15	4 ⁺	225 keV 30	E	%α=100 T=0
17284 15	3 ⁻	86 keV 25	E	%α=100 T=0
17295 15	8 ⁺	200 keV 25	EFGH	%α=100 T=0
17390 15		<10 keV	E	%α=100
17430 15	9 ⁻	220 keV 25	C E	%α=100 T=0
17541 15	6 ⁺	86 keV 9	E	%α=100 T=0
17550 10	(2 ⁺)	19 keV	K	%n=?; %p=?; %α=? T=(1)
17606 15	5 ⁻	140 keV 20	E	%α=100 T=0
17769 20	4 ⁺	≈125 keV	E K	%p=?; %α=? T=0
17851 15	5 ⁻	200 keV 30	E	%α=100 T=0
17910 20	(0 ⁺)			%n=?; %p=?
18005 15	7 ⁻	<10 keV	E	%α=100 T=0
18024 5	5 ⁻	34 keV 7	E	%α=100 T=0
18083 25	4 ⁺	140 keV 60	E	%α=100 T=0
18125 5	7 ⁻	29 keV 6	C E	%α=100 T=0
18286 10	6 ⁺	190 keV 30	E	%α=100 T=0

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Adopted Levels, Gammas 1998Ti06 (continued)

^{20}Ne Levels (continued)				
E(level)	J ^π	T _{1/2}	XREF	Comments
18430 7	2 ⁺	9.5 keV 30	IJK	%IT=3×10 ⁻³ ; %n=?; %p=?; %α=? Γ _γ ≈0.30 eV; T=2
18430 20	7 ⁻	185 keV 40	E	%α=100 T=0
18494 20	5 ⁻	130 keV 30	E	%α=100 T=0
18538 7	8 ⁺	138 keV 33	C	%α=?
18621 20	8 ⁺	185 keV 30	E	%α=100 T=0
18745 25	6 ⁺	140 keV 50	E	%α=? T=0
18768 20	7 ⁻	140 keV 35	EF	%α=100 T=0
18960 25	8 ⁺	200 keV 60	E	%α=100 T=0
19051 15	5 ⁻	≈90 keV	E	%α=100 T=0
19150 20	6 ⁺	200 keV 50	E	%α=100 T=0
19284 15	6 ⁺	140 keV 25	E	%α=100 T=0
19298 25	7 ⁻	430 keV 60	EF	%α=100 T=0
19443 10	6 ⁺	130 keV 15	E	%α=100 T=0
19536 25	6 ⁺	250 keV 60	E	%α=100 T=0
19655 20	6 ⁺	140 keV 35	E	%α=100 T=0
19731 20	8 ⁺	330 keV 60	E	%α=100 T=0
19845 40	6 ⁺	3.6×10 ² keV 12	E	%α=100 T=0
19859 10	5 ⁻	170 keV 25	E	%α=100 T=0
19884 40	7 ⁻	≈120 keV	EF	%α=100 T=0
19991 30	4 ⁺	1.3×10 ² keV 10	E	%α=100 T=0
20027 15	6 ⁺	80 keV 35	E	%α=100 T=0
20106 25	7 ⁻	190 keV 35	E	%α=100 T=0
201.5×10 ² 15				%IT=?; %n=? T _{1/2} : Γ=broad.
20168 35	6 ⁺	2.9×10 ² keV 10	E	%α=100 T=0
20296 15	7 ⁻	255 keV 40	E	%α=100 T=0
20341 20	5 ⁻	190 keV 40	E	%α=100 T=0
20344 15	7 ⁻	135 keV 35	E	%α=100 T=0
20419 30	6 ⁺	215 keV 90	E	%α=100 T=0
20445 25	6 ⁺	370 keV 55	E	%α=100

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Adopted Levels, Gammas 1998Ti06 (continued)

²⁰ Ne Levels (continued)							
E(level)	J ^π	T _{1/2}	XREF	Comments			
20468 30	5 ⁻	280 keV 70	E	T=0 %α=100			
20686 6	9 ⁻	78 keV 11	C E G	T=0 %α=100			
20760 30	7 ⁻	240 keV 50	EF	T=0 %α=100			
20800 25	5 ⁻	170 keV 60	E	T=0 %α=100			
20950 40	7 ⁻	300 keV 50	C E	T=0 %α=100			
21062 6	9 ⁻	60 keV 6	C E GH	T=0 %α=100			
2130×10 ¹ 10	7 ⁻	300 keV	EF	T=0 %α=100			
2180×10 ¹ 10	7 ⁻	300 keV	C EF	T=0 %α=100			
2230×10 ¹ 10	7 ⁻	500 keV	C EF	T=0 %α=100			
2260×10 ¹ 30				T=0 %IT=?; %n=? T _{1/2} : Γ=broad.			
22800 60	9 ⁻	500 keV	C E	T=0 %α=100			
22870 40	9 ⁻	225 keV 40	C E GH	T=0 %α=100			
2340×10 ¹ 20	8 ⁺	500 keV	E	T=0 %α=100			
23700 30	(9 ⁻)	≤200 keV	FG	T=0 %α=100			
24210 25	8 ⁺	350 keV	E G	T=0 %α=100			
2490×10 ¹ 50				T=0 %IT=?; %n=? T _{1/2} : Γ=broad.			
25100 50	8 ⁺	≈200 keV	E G	T=0 %α=100			
25670 50		≈400 keV	E G	T=0 %α=100			
2710×10 ¹ 10	(9 ⁻)	700 keV	EF H	T=0 %α=100			
27500	10 ⁺			T=0 %IT=?; %n=? T _{1/2} : Γ=broad.			
28000	8 ⁺	1600 keV	E	T=0 %α=100			
2820×10 ¹ 30		700 keV	E	T=0 %α=100			
γ(²⁰ Ne)							
E _i (level)	J _i ^π	E _γ	I _γ	E _f	J _f ^π	Mult.	Comments
1633.674	2 ⁺	1633.602 15	100	0.0	0 ⁺	[E2]	B(E2)(W.u.)=20.3 10
4247.7	4 ⁺	2613.8 11	100	1633.674	2 ⁺	[E2]	B(E2)(W.u.)=22 2
4966.51	2 ⁻	3332.54 20	99.4 2	1633.674	2 ⁺	[E1+M2+E3]	B(E1)(W.u.)=7.3×10 ⁻⁶ 8; B(M2)(W.u.)=0.017 4; B(E3)(W.u.)=6 2
		4965.85 20	0.6 2	0.0	0 ⁺	[M2]	δ(M2/E1)=0.076 11, δ(E3/E1)=0.043 16.
5621.4	3 ⁻	654.9 18	4.8 16	4966.51	2 ⁻	[M1]	B(M2)(W.u.)=0.0025 8
		3987.3 17	87.6 10	1633.674	2 ⁺	[E1]	B(M1)(W.u.)=2.0×10 ⁻³ 9 B(E1)(W.u.)=6.6×10 ⁻⁶ 19

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Adopted Levels, Gammas 1998Ti06 (continued)

$\gamma(^{20}\text{Ne})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	Comments
5621.4	3 ⁻	5620.6 17	7.6 10	0.0	0 ⁺	[E3]		B(E3)(W.u.)=11 4
5787.7	1 ⁻	4154 3	82 5	1633.674	2 ⁺	[E1]		B(E1)(W.u.)=1.1×10 ⁻⁴ 2
		5787 3	18 5	0.0	0 ⁺	[E1]		B(E1)(W.u.)=8.3×10 ⁻⁶ 3
6725	0 ⁺	5090 5	100	1633.674	2 ⁺	[E2]		B(E2)(W.u.)=3.6
		6724 5		0.0	0 ⁺	[E0]		
7004.0	4 ⁻	1383 4	25	5621.4	3 ⁻	[M1]		B(M1)(W.u.)=6.9×10 ⁻³
		2037 4	11	4966.51	2 ⁻	[E2]		B(E2)(W.u.)=1.8
		2756 4	63.5	4247.7	4 ⁺	[E1]		B(E1)(W.u.)=9.1×10 ⁻⁵
		5369 4	0.5 2	1633.674	2 ⁺	[M2]		B(M2)(W.u.)=1.5×10 ⁻² 8
7156.3	3 ⁻	1369 3	40 5	5787.7	1 ⁻	[E2]		B(E2)(W.u.)=50 8
		2908.4 12	60 5	4247.7	4 ⁺	[E1]		B(E1)(W.u.)=7.9×10 ⁻⁵ 9
7191	0 ⁺	5556 3	100	1633.674	2 ⁺	[E2]		B(E2)(W.u.)=0.31 6
		7190 3		0.0	0 ⁺	[E0]		
7421.9	2 ⁺	3173.9 17	≤7.6	4247.7	4 ⁺			I _γ : author quotes I _γ /Σ (I _γ)≤7.6%.
		5787.3 12	≥89.2	1633.674	2 ⁺	[M1+E2]	+8.4 +15-10	B(M1)(W.u.)=1.0×10 ⁻⁴ 3; B(E2)(W.u.)=1.7 2
								I _γ : author quotes I _γ /Σ (I _γ)≥90.6% 14.
								I _γ : author quotes I _γ /Σ (I _γ)≤9.4% 14.
7833.4	2 ⁺	7420.4 12	≤10.8	0.0	0 ⁺			
		3585.4 19	<2	4247.7	4 ⁺			
		6198.7 15	17 1	1633.674	2 ⁺	[M1]		B(M1)(W.u.)=2.3×10 ⁻³ 3
		7831.8 15	83 1	0.0	0 ⁺	[E2]		B(E2)(W.u.)=0.73 9
8453	5 ⁻	2832 5	100	5621.4	3 ⁻	[E2]		B(E2)(W.u.)=27 6
8708	1 ⁻	7073 7	13 8	1633.674	2 ⁺	[E1]		B(E1)(W.u.)=5×10 ⁻⁵ 3
		8706 7	87 8	0.0	0 ⁺	[E1]		B(E1)(W.u.)=1.9×10 ⁻⁴ 5
8777.6	6 ⁺	4529.3 25	100	4247.7	4 ⁺	[E2]		B(E2)(W.u.)=20 3
9031	4 ⁺	4782 7	<2	4247.7	4 ⁺			
		7396 7	100	1633.674	2 ⁺	[E2]		B(E2)(W.u.)=5.8 7
9116	3 ⁻	3495 4	17 4	5621.4	3 ⁻	[M1]		B(M1)(W.u.)=4.9×10 ⁻³ 12
		4149 3	33 5	4966.51	2 ⁻	[M1]		B(M1)(W.u.)=5.8×10 ⁻³ 11
		7480 3	50 5	1633.674	2 ⁺	[E1]		B(E1)(W.u.)=6.2×10 ⁻⁵ 10
9318	(2 ⁻)	7682.7 20	100	1633.674	2 ⁺			
9487	2 ⁺	7848 3	100	1633.674	2 ⁺	[M1]		B(M1)(W.u.)=2.5×10 ⁻² 10
								I _γ : authors report I _γ /Σ (I _γ)=(100)%.
		9481 3		0.0	0 ⁺			
9873	3 ⁺	2451 5	≈3	7421.9	2 ⁺			
		4252 5	≈7	5621.4	3 ⁻			
		4905 4	≤5	4966.51	2 ⁻			
		5624 5	12 3	4247.7	4 ⁺			
		8237 4	78	1633.674	2 ⁺			
		9870 4	<0.5	0.0	0 ⁺			
9935	(1 ⁺)	4967 12	22 5	4966.51	2 ⁻			
		8299 12	78 5	1633.674	2 ⁺			
9990	4 ⁺	8354 8	100	1633.674	2 ⁺	[E2]		B(E2)(W.u.)=8.3 37
								I _γ : authors report I _γ /Σ (I _γ)=(100)%.
		9987 8		0.0	0 ⁺			
10273.2	2 ⁺	2440.4 33	0.22 6	7833.4	2 ⁺	[M1]		B(M1)(W.u.)=2.6×10 ⁻² 7
		2852 4	6.9 4	7421.9	2 ⁺	[M1]		B(M1)(W.u.)=0.64 8
		4652 4	2.1 2	5621.4	3 ⁻	[E1]		B(E1)(W.u.)=1.9×10 ⁻³ 3
		5306 3	1.3 1	4966.51	2 ⁻	[E1]		B(E1)(W.u.)=8.0×10 ⁻⁴ 11
		8638 3	88.9 5	1633.674	2 ⁺	[M1]		B(M1)(W.u.)=0.30 3
		10271 3	0.65 14	0.0	0 ⁺	[E2]		B(E2)(W.u.)=9.5×10 ⁻² 26
10609	6 ⁻	2156 8	4.5 12	8453	5 ⁻	[M1]		B(M1)(W.u.)=6.1×10 ⁻³ 28
		3605 8	95.5 12	7004.0	4 ⁻	[E2]		B(E2)(W.u.)=17 6
10694	4 ⁻ ,3 ⁺	5726 6	75 4	4966.51	2 ⁻			
		6445 6	25 4	4247.7	4 ⁺			
10884	3 ⁺	6635 4	23 5	4247.7	4 ⁺			

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas 1998Ti06 (continued) $\gamma(^{20}\text{Ne})$ (continued)

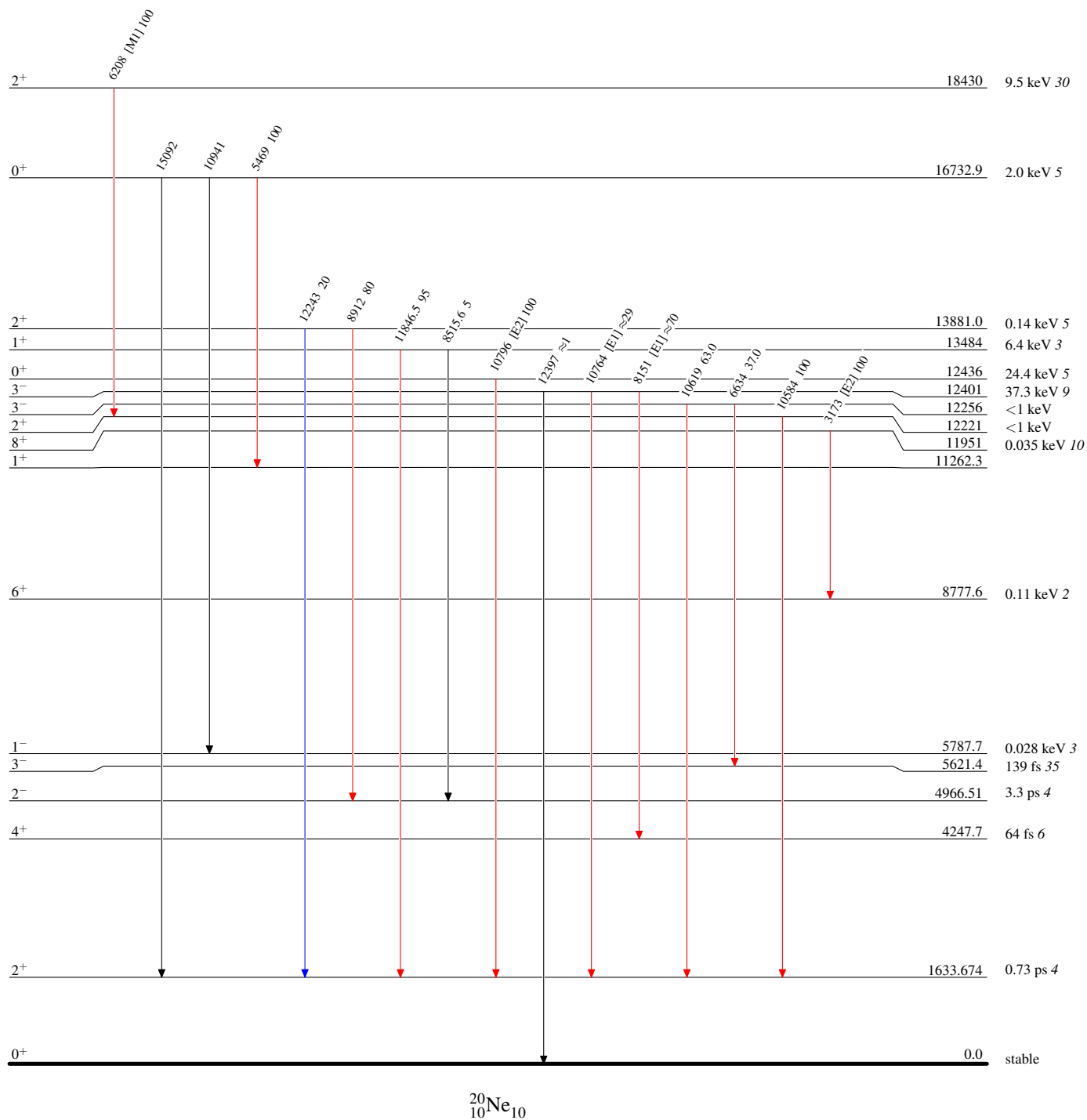
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	Comments
10884	3 ⁺	9248 3	77 5	1633.674	2 ⁺		
11090	4 ⁺	6841 4	99.50 25	4247.7	4 ⁺	[M1]	B(M1)(W.u.)=5.0×10 ⁻² 6
		9454 3	0.50 25	1633.674	2 ⁺	[E2]	B(E2)(W.u.)=1.0×10 ⁻² 5
11262.3	1 ⁺	9626.1 19	16 5	1633.674	2 ⁺	[M1]	B(M1)(W.u.)=0.11 4
		11258.9 19	84 5	0.0	0 ⁺	[M1]	B(M1)(W.u.)=0.37 7
11270	1 ⁻	1952 6	9 1	9318	(2 ⁻)	[M1]	B(M1)(W.u.)=0.40 6
		2416 7	27.0 15	8854	1 ⁻	[M1]	B(M1)(W.u.)=0.63 8
		6302 5	6.5 10	4966.51	2 ⁻	[M1]	B(M1)(W.u.)=8.8×10 ⁻³ 7
		9634 5	2.5 10	1633.674	2 ⁺	[E1]	B(E1)(W.u.)=4.0×10 ⁻⁵ 16
		11267 5	55 2	0.0	0 ⁺	[E1]	B(E1)(W.u.)=5.4×10 ⁻⁴ 7
11528	3 ⁺ ,4 ⁻	4523 7		7004.0	4 ⁻		Deexcites the 11528 and/or the 11555 level.
		6560 6	70 3	4966.51	2 ⁻		
		7279 6	30 3	4247.7	4 ⁺		
11555	(3 ⁺)	4550 7		7004.0	4 ⁻		Deexcites the 11555 and/or the 11528 level.
		9918 6		1633.674	2 ⁺		
11558	0 ⁺	7309 5	<8	4247.7	4 ⁺		
		9921 4	100	1633.674	2 ⁺		
11653	(3 ⁺)	7404 6	86 3	4247.7	4 ⁺		
		10016 5	14 3	1633.674	2 ⁺		
11928	4 ⁺	7678 5	79 11	4247.7	4 ⁺	[M1]	B(M1)(W.u.)=2.2×10 ⁻³ 6
		10291 4	21 11	1633.674	2 ⁺	[E2]	B(E2)(W.u.)=1.8×10 ⁻² 10
11951	8 ⁺	3173 5	100	8777.6	6 ⁺	[E2]	B(E2)(W.u.)=9.0 13
12221	2 ⁺	10584 4	100	1633.674	2 ⁺		I _γ : authors report I _γ /Σ (I _γ)=(100)%.
12256	3 ⁻	6634 4	37.0 15	5621.4	3 ⁻		
		10619 3	63.0 15	1633.674	2 ⁺		
12401	3 ⁻	8151 6	≈70	4247.7	4 ⁺	[E1]	B(E1)(W.u.)=7.4×10 ⁻⁴
		10764 5	≈29	1633.674	2 ⁺	[E1]	B(E1)(W.u.)=1.3×10 ⁻⁴
		12397 5	≈1	0.0	0 ⁺		
12436	0 ⁺	10796 5	100	1633.674	2 ⁺	[E2]	B(E2)(W.u.)=0.43 13
13484	1 ⁺	8515.6 20	5	4966.51	2 ⁻		
		11846.5 20	95	1633.674	2 ⁺		
13881.0	2 ⁺	8912 23	80	4966.51	2 ⁻		
		12243 23	20	1633.674	2 ⁺		
16732.9	0 ⁺	5469 6	100	11262.3	1 ⁺		I _γ : authors report I _γ /Σ (I _γ)=(100)%.
		10941 6		5787.7	1 ⁻		
		15092 5		1633.674	2 ⁺		
18430	2 ⁺	6208 21	100	12221	2 ⁺	[M1]	B(M1)(W.u.)=6×10 ⁻² I _γ : authors report I _γ /Σ (I _γ)=(100)%.

Adopted Levels, Gammas 1998Ti06**Level Scheme**

Intensities: Type not specified

Legend

- $\longrightarrow$ $I_\gamma < 2\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma < 10\% \times I_\gamma^{\max}$
 $\longrightarrow$ $I_\gamma > 10\% \times I_\gamma^{\max}$

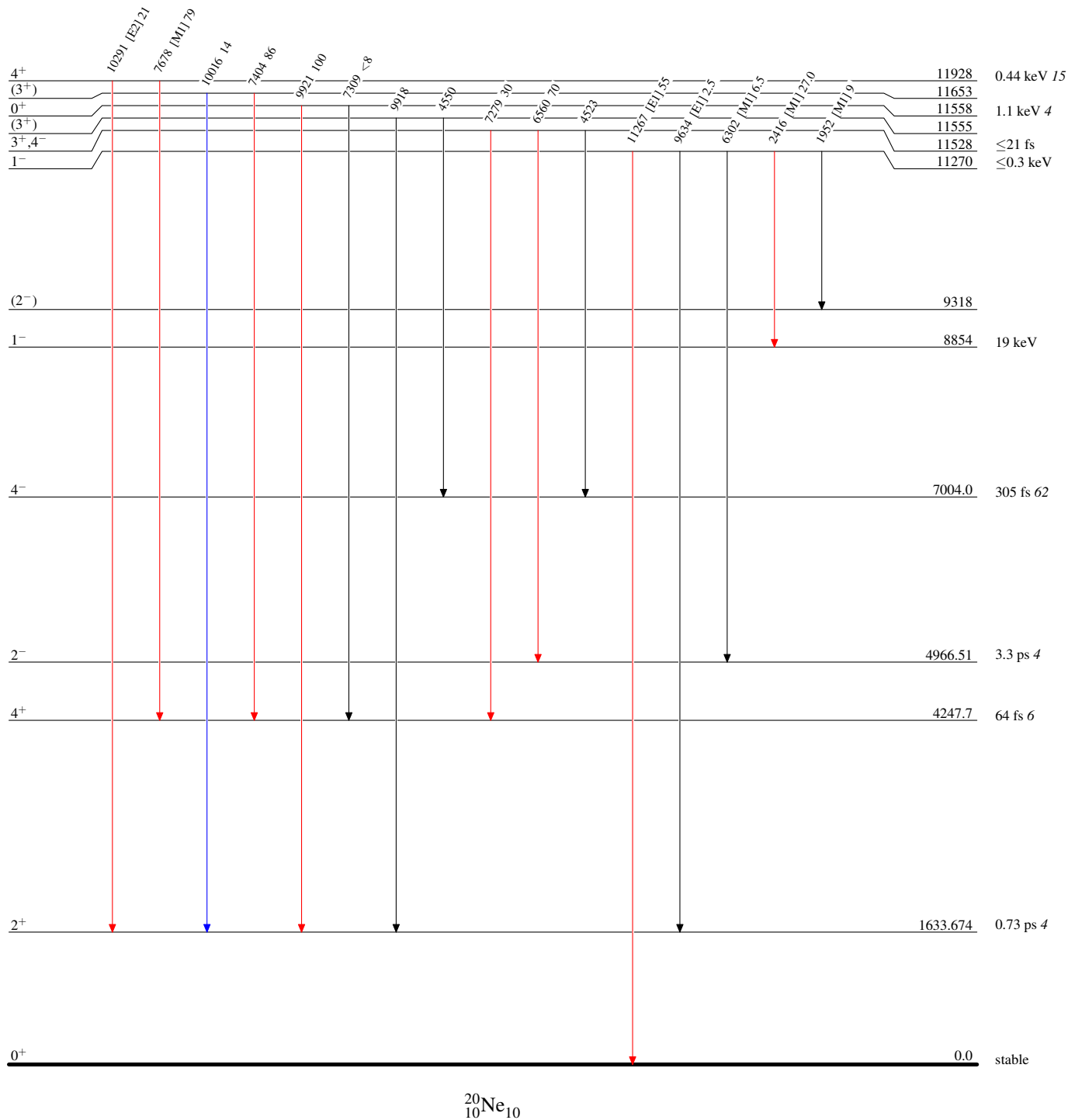


Adopted Levels, Gammas 1998Ti06**Level Scheme (continued)**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
—→ $I_\gamma < 10\% \times I_\gamma^{\max}$
—→ $I_\gamma > 10\% \times I_\gamma^{\max}$

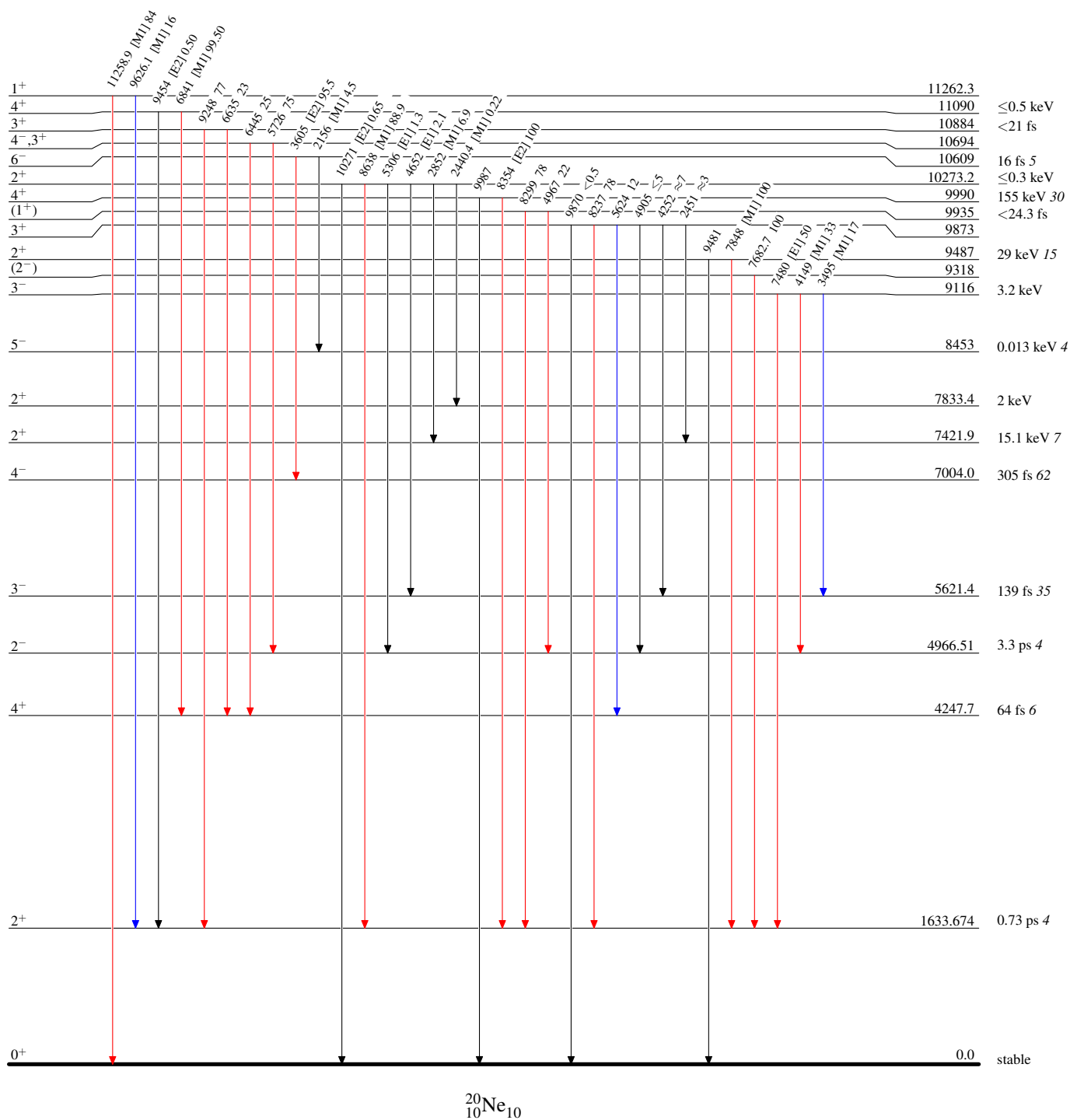


Adopted Levels, Gammas 1998Ti06**Level Scheme (continued)**

Intensities: Type not specified

Legend

-  $I_\gamma < 2\% \times I_\gamma^{\max}$
 $I_\gamma < 10\% \times I_\gamma^{\max}$
 $I_\gamma > 10\% \times I_\gamma^{\max}$



Adopted Levels, Gammas 1998Ti06**Level Scheme (continued)**

Intensities: Type not specified

Legend

-  $I_\gamma < 2\% \times I_\gamma^{\max}$
 $I_\gamma < 10\% \times I_\gamma^{\max}$
 $I_\gamma > 10\% \times I_\gamma^{\max}$

