Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia, A. Chakraborty	NDS 197,1 (2024)	31-May-2024

Q(β^-)=−4232.11 *6*; S(p)=13514.2 *3* 2021Wa16
S(n)=10609.199 *22*, Q(α)=−10643.33 *4*, S(2n)=19082.801 *22*, S(2p)=23990.96 *26* (2021Wa16).

There are 27 neutron resonances for the ^{29}Si+n reaction in the 15 keV to 1389 keV energy range (2018MuZY). Others: 1974Ke18, 1975Bo36, 1976Ke04, 1983Ke11, 2003Gu05.

2007No13: Production cross section ~80 mb and ~70 mb, measured in ^{40}Ar fragmentation reactions of ^{9}Be(^{40}Ar,X), E=90 MeV/nucleon, and ^{181}Ta(^{40}Ar,X), E=94 MeV/nucleon, respectively.

1960Ve06: ^{31}Si(n,d), E_n=14.1 MeV (not mentioned explicitly); two proportional counters as a telescope, a scintillation counter; measured deuteron energy spectrum, $\sigma(\theta)$; deduced L=0 for the g.s. transition to ^{30}Si and σ=(21.8 *12*) × 10^{-27} cm^2/sr at θ=0 (Lab).
1961Be38: Measured ^{30}Mg(γ,n) reaction threshold to be 10618 keV *7*.
1970Fi01 – ^{30}Si(d,d′), E=11.8 MeV; measured $\sigma(\theta)$. Also 1972Be78, E=10 MeV; measured $\sigma(\theta)$, deduced deformation parameter. Also 1973Da26.
1985Ke01: ^{31}P(γ,p), E=14.6-25 MeV; measured absolute σ(E,θ); deduced σ(E,p′), deduced integral C^2S.
1977Pa11: ^{27}Al(^{16}O,X), E=35 MeV, measured ^{30}Si g.s. production cross section to be 8 μb/sr (±40°).

^{30}Si Levels

Cross Reference (XREF) Flags

A	^{30}Al β^- decay	I	^{27}Al(α,pγ)	Q	^{30}Si(n,n′γ)
B	^{30}P ε decay	J	^{28}Si(t,p),(t,pγ)	R	^{30}Si(pol ^{3}He,^{3}He),(^{3}He,^{3}He′)
C	^{14}C(^{16}O,^{16}O):res	K	^{28}Si(α,^{2}He),(^{18}O,^{16}O)	S	^{30}Si(α,$\alpha'\gamma$)
D	^{14}C(^{18}O,2nγ)	L	^{29}Si(n,γ) E=thermal	T	^{31}P(γ,pγ')
E	^{26}Mg(α,n),(α,γ),(α,α):res	M	^{29}Si(d,p)	U	^{31}P(e,e′p)
F	^{26}Mg(^{6}Li,d),^{34}S(d,^{6}Li)	N	^{30}Si(γ,γ'),(pol γ,γ')	V	^{31}P(d,^{3}He)
G	^{26}Mg(^{16}O,^{12}C)	O	^{30}Si(e,e′)		
H	^{27}Al(α,p)	P	^{30}Si(p,p′)		

E(level)†	J$^\pi$	T$_{1/2}$g	XREF	Comments
0	0$^+$	stable	AB D FGHIJKLMN PQRSTUV	<r^2>$^{1/2}$=3.17 fm *+15−7* (1977Br16). δ<r^2>^{30,28}=0.070 fm *29* (2024Ko07).
2235.325 *24*	2$^+$	236 fs *12*	AB D FGHIJKLM PQRSTUV	μ=+0.9 *2* Q=−0.05 *6* J$^\pi$: L=2 in (t,p). μ: from 2020StZV, 1978Za13 – Perturbed angular correlation after ion implantation. Q: from 1981Sp07,2021StZZ – Coulomb Excitation Reorientation. Other: +0.01 *6* in 1979Fe08 and 1989Vo02 – depending on constructive or destructive interference from the 2nd excited state – Coulomb Excitation Reorientation. T$_{1/2}$: weighted average of 223 fs *12* from (α,pγ), 243 fs *13* from (t,p), 248 fs *12* from (α,^{2}He), and 249 fs *27* from (α,$\alpha'\gamma$), 187 fs *130* (1977Sc36 – from τ=0.27 ps *14 13*), and 187 fs *+35−24* (1985GeZY – τ=270 fs *+50−35*).
3498.49 *3*	2$^+$	61 fs *6*	AB D GHIJKLM PQRSTUV	XREF: J(3510). J$^\pi$: L=2 in (t,p). T$_{1/2}$: weighted average of 63 fs *6* from (α,pγ) and 58.9 fs *55*

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Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$[g]	XREF	Comments
				from (t,p).
3769.48 *4*	1+[c]	42 fs *9*	AB F IJKLMN PQRSTU	XREF: F(3700)R(3700). $T_{1/2}$: other: 35 fs *19* (γ,γ').
3787.72 *5*	0+	8.9 ps *6*	B IJKLM PQ STUV	XREF: V(3772). Jπ: 1552.36$\gamma(\theta)$, isotropic distribution, in (α,pγ) (1971Sy01) and L(d,p)=0.
4810.33 *11*	2+[c]	131 fs *14*	A IJKLM PQRS V	XREF: V(4823). Jπ: see footnote. L=2 in (d,p). 2+ in ^{30}Si($\alpha,\alpha'\gamma$) (1970Oh03).
4830.86 *4*	3+[@c]	87 fs *17*	A D IJKLM PQ S	Jπ: see footnote. L=2 in (d,p). Other: Tentative assignment (2+) in ^{30}Si($\alpha,\alpha'\gamma$).
5231.52 *9*	3+[c]	63 fs *14*	A D IJ LM PQ S UV	XREF: P(5220). Jπ: see footnote. L=2 in (d,p). For 3− in 1970Di10 (n,n′γ) is inconsistent − no arguments for a 3− assignment are available.
5279.25 *13*	4+	96 fs *10*	D F IJK Q S	Jπ: L=4 in (t,p).
5372.2 *6*	0+	59 fs *21*	IJKL PQ S V	Jπ: L=0 in (d,^{3}He), absence of γ to g.s.
5487.49[#] *6*	3−	46 fs *12*	D F IJKLM PQRS	XREF: P(5477). Jπ: L=3 in (t,p).
5614.05 *13*	2+	<14 fs	A EF IJKLM P S V	XREF: V(5620). Jπ: L=2 in (t,p).
5950.69 *14*	4+[e]	16 fs *8*	A D F IJK S	Jπ: see footnote. Also in 1971Sy01 based on (α,α') population at 180° and $\gamma(\theta)$.
6503.42[#] *8*	4−	124 fs *31*	D IJK M S	Jπ: L=3 in (d,p), M1+E2 γ from 5− at 7043.
6537[‡] *4*	2+	33 fs *24*	HIJK S V	XREF: H(6.55E3)J(6528). Jπ: L=2 in (t,p). Spin 4 in (α,p) is not consistent.
6641[‡] *4*	0+		IJk	Jπ: L=0 in (t,p).
6641.21 *7*	2−	25 fs *9*	I kLM	XREF: M(6636). Jπ: 1810.4γ to 3+, 1153.6γ to 3−. For the second member of the doublet, 1973Ba50 (t,p) suggested J^π=0−,1− or 2−, 1980Bi14 excluded 0− and 1− assignments from 1810.4γ intensity and feeding the 3+ state. L=1 in (d,p).
6744.06 *4*	1−	<10.4 fs	F IJKLM ST	Jπ: L=1 in (t,p).
6865[‡] *2*	3+	23 fs *11*	HIJK V	Jπ: L=2 in (d,^{3}He), M1(+E2) 914γ to 4+. J^π=4+ is rejected from E2 strength calculations (1971Sy01).
6914.77 *25*	2+	<24.3 fs	F IJKL S	Jπ: L=2 in (d,^{3}He), L=(2) in (t,p).
6998.78 *15*	5+	115 fs *17*	D IJ	XREF: J(6993). Jπ: assigned in 1980Bi14 based on unnatural parity, population from 8196 keV (J^π=5−) level, and RUL.
7043.17 *12*	5−	0.83 ps *+14−10*	D F HIJK	Jπ: L=5 in (t,p).
7079[‡] *1*	3+	<14 fs	IJ V	XREF: J(7070). Jπ: L=2 in (d,^{3}He). D γ to 2+ and γ from 4+. Unnatural parity from absence in (α,α') 1971Sy01. Shell model predictions in 1980Bi14 (α,pγ).
7223.2 *4*	4+[b]	<14 fs	D hIJ	Jπ: L=4 in (α,p).
7255[‡] *4*	2+	35 fs *14*	E hIJ V	XREF: E(7.3E3). Jπ: L=2 in (t,p).
7440[‡] *4*	0+		IJ V	XREF: J(7441). Jπ: L=0 in (t,p). L=2 in (d,^{3}He) is not consistent.
7507.87 *5*	(2−)	<24 fs	IJ LM	
7613[‡] *1*	4−[@]	13 fs *6*	I	

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Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$[g]	XREF	Comments
7623[‡] *4*	2^+[@]	<17 fs	IJ M	XREF: J(7612). Jπ: L=2 in (t,p) for doublet (7613 and 7623), Jπ(7613)=4^- and the evaluators consider L=2 in (t,p) for this level.
7634[‡] *4*	$(1,2)^+$		I K M U	Jπ: L=2 in (d,^{3}He), γ to 0^+.
7667.4 *6*	$(1,2)^+$	<14 fs	IJ LM V	XREF: J(7660). Jπ: L=2 in (d,^{3}He), γ to 0^+.
7810[‡] *2*	4^+	12 fs *8*	IJ	XREF: J(7800). Jπ: L=4 in (t,p).
7911[‡] *2*	2^+	24 fs *14*	IJK M	XREF: J(7897)M(7925). Jπ: L=2 in (t,p).
8104.9 *3*	$(2^+,3^+)$	25 fs *17*	IJ LM	Jπ: γs to 1^+; 2^+; 3^+; 3^-; 2628γ from $(3^-,4^+)$. $2^+,3^-$ in 1980Bi14 – (α,pγ). L=(0) in (t,p) is inconsistent with this assignment.
8156.2 *7*	(1,2)		IJ LM V	Jπ: L=1 in (d,p) yields $(0,1,2)^-$, L=2 in (d,^{3}He) yields $(1,2,3)^+$.
8163.22 *7*	1^-		IJKL	Jπ: L=1 in (t,p).
8190[‡] *4*	(2^+)[@]	25 fs *17*	IJ	XREF: J(8177).
8193.9[#] *4*	5^-	38 fs *12*	D IJ	XREF: J(8204). Jπ: L=5 in (t,p).
8290[‡] *4*	$(1^-,2,3)$		IJ	XREF: J(8279). Jπ: γs to 2^+ and 3^-.
8330[‡] *4*			IJ	XREF: J(8319).
8442[‡] *4*	3^-		IJ M	XREF: M(8461). Jπ: L=3 in (t,p).
8537[‡] *3*	$(3^+,4^+)$	38 fs *16*	IJ	Jπ: 1538 to 5^+, 6301γ to 2^+.
8554[‡] *2*	3^-	<14 fs	IJ	XREF: J(8564). Jπ: L=3 in (t,p).
8577			j M	E(level): from (d,p).
8596[‡] *4*	4^-[@]	<17 fs	IjK M	Jπ: L=3 in (d,p); shell model predictions (α,pγ) (1980Bi14).
8640[‡] *4*	(4^+)[f]	<17 fs	HIJ M	XREF: H(8.66E3). Jπ: 4 in (α,p) – see the footnote, γ to 2^+ and 3^+.
8673[‡] *4*	$(1^-,2^+)$[@]		IJ	XREF: J(8661).
8684[‡] *4*	2^+	<17 fs	hIJ	Jπ: L=2 in (t,p).
8735[‡] *3*	$0^+,1,2,3^+$		IJ	XREF: J(8720). Jπ: γ to 2^+.
8799[‡] *4*	$(1,2^+)$[@]		IJ M V	XREF: J(8785). Jπ: L=(1) in (d,p).
8887[‡] *4*	$(2^+,3^-)$		IJ	Jπ: L=(2,3) in (t,p).
8898.10 *11*	1^-		I LM	Jπ: L=1 in (d,p), γ to 0^+.
8930 *40*	(6^+)		F K	E(level): from (α,^{2}He),(^{18}O,^{16}O). Jπ: from (^{6}Li,d),(d,^{6}Li). Spin and parity proposed by the authors in 1977De33, based on dσ/dΩ (10° to 40°) and DWBA analysis and fit.
8938 *4*	(2^+)		IJ L O V	Jπ: L=2 in (d,^{3}He) yields $1^+,2^+,3^+$; L=(2,3) in (t,p) yields $2^+,3^-$.
8953.4 *5*	(1,2)	0.13 fs *4*	I LMN T	XREF: N(8942.7). Jπ: L=2 in (d,^{3}He); tentative L=(1) in (d,p). $T_{1/2}$: from (γ,γ′).
8958.8 *8*	(5^-)	17 fs *10*	D IJ	Jπ: L=(5) in (t,p).
8980 *3*	$(1,2^+)$		I	

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Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$[g]	XREF	Comments
9035[‡] *4*	(1⁺,2⁺)		IJ	XREF: J(9021). Jπ: γs to 0⁺; 1⁺; and 2⁺.
9045 *4*	(3,4)	35 fs *14*	I M	
9103.73 *6*	(1,2)⁻	25 fs *17*	IJKLM	XREF: J(9092). Jπ: L=1 in (d,p), 998.9γ to (2⁺,3⁻).
9106.71 *16*	6⁻[b]	24 fs *6*	D I	
9131[‡] *4*	(5⁺)[f]	28 fs *14*	HIJ	XREF: H(9.11E3)J(9120). Jπ: 5 in (α,p) – see the footnote, γ to 3⁺, and 4⁺, and 5⁺.
9167[‡] *4*	(1⁺,2,3⁺)	31 fs *15*	IJ	Jπ: γs to 1⁺; 2⁺; and 3⁺. L=3 in (t,p) is not consistent.
9255[‡] *4*	(2⁺,3⁺)		IJ M V	XREF: J(9241)V(9240).
9308.11 *22*	(1⁻,2⁻)	<24.3 fs	IJKLM	XREF: J(9296). Jπ: tentative L=(1) in (d,p), γ to 1⁺, and 2⁺, and 2⁻.
9350[‡] *4*	4⁻	<24.3 fs	IJ	XREF: J(9338). Jπ: assignment from 1980Bi14 (α,pγ). Authors assign unambigious spin-parity assignment 4⁻ for this level. In general, their assignments are based on γ-rays linear polarization measurements, angular correlation coefficients and recommended upper limits (RUL). Jπ: γs to 3⁺; 3⁻; and (4⁻).
9362[‡] *4*	(1,2⁺)[@]	0.07 fs *2*	HI NO	XREF: N(9356.6). $T_{1/2}$: from (γ,γ′).
9367.0 *4*	6⁺[b]	<17.3 fs	D I	Jπ: E2 γ, ΔJ=2, to 4⁺.
9406[‡] *4*	4⁺	<24.3 fs	IJ	Jπ: L=4 in (t,p).
9440[‡] *4*	1⁻		IJ M	XREF: J(9418). Jπ: L=1 in (d,p), γ to 0⁺.
9475[‡] *4*	(2⁺,3,4⁺)		IJ	XREF: J(9457). Jπ: γs to 2⁺ and 4⁺.
9507 *4*	(5⁻)[@]	<17.3 fs	I	
9576 *4*	(1⁺,2,3,4⁺)		I	Jπ: γs to 2⁺ and 3⁺.
9597.3 *3*	(1⁺,2,3,4⁺)		e I LM	Jπ: γs to 2⁺ and 3⁺.
9605[‡] *4*	(2,3,4⁺)		e I	Jπ: γs to 2⁺; 3⁺; and 3⁻.
9619.74 *13*	(1⁻)		I L	Jπ: γ to 0⁺, primary γ from (0⁺,1⁺) capture state in (n,γ) E=Thermal.
9648 *4*	(3⁻,4)	<35 fs	I	Jπ: γs to 3⁺; 3⁻; and 5⁻.
9689[‡] *4*	(0⁻,2,3⁻)		I K	Jπ: γ to 1⁻.
9726 *4*			I	
9761 *4*	(2⁺,3,4⁺)	<35 fs	I	Jπ: γs to 2⁺ and 4⁺.
9770[‡] *4*	1⁺	0.23 fs *9*	I NO	Jπ: from M1 excitation in (γ,γ′). $T_{1/2}$: from (γ,γ′).
9773.6[#] *5*	6⁻[b]	<24.3 fs	D I	
9792.3 *3*	1⁻		I L N	Jπ: from the difference in excitation magnitude in (γ,γ′) and (pol γ,γ′) excitation (Fig 1, 1984Be26).
9815[‡] *4*			hI	
9882[‡] *4*	4⁺		HIJ	XREF: H(9840). Jπ: L=4 in (t,p). L=5 in (α,p) for doublet.
9897 *4*			I	
9955 *2*	(4,5)	<14 fs	I	Jπ: proposed in 1980Bi14 (α,pγ), angular correlation coefficients data imply ΔJ=0 or 1 transitions. γs to 3⁺, and 4⁺, and 5⁺ imply (3⁺,4,5⁺).
9958[‡] *4*	(1,2⁺)		I O	Jπ: γ to 0⁺.

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Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$[g]	XREF	Comments
10027 *4*	(2,3,4$^+$)		I	Jπ: γs to 2$^+$; 3$^+$; and 3$^-$.
10057 *4*	4$^+$		IJ	Jπ: L=4 in (t,p).
10079 *4*	(1$^+$,2$^+$,3$^+$,4$^+$)		I	Jπ: γs to 2$^+$ and 3$^+$.
10116 *4*	(2$^+$,3,4$^+$)		I	Jπ: γs to 2$^+$; 3$^-$; and 4$^+$.
10184 *4*	(0$^+$,1,2,3$^+$)		I	Jπ: γs to 1$^+$ and 2$^+$.
10188 *2*	5$^-$[@]	19 fs *14*	I	
10202.4 *5*	(1$^-$)		I L	Jπ: γs to 0$^+$; 1$^+$; and 2$^+$; primary γ from (0$^+$,1$^+$) capture state (n,γ) E=thermal.
10218 *4*			I	
10275.5 *7*			I L O	
10288 *2*	(4$^+$,5$^+$)	<28 fs	I	Jπ: proposed in 1980Bi14 (α,pγ), angular correlation coefficients data imply ΔJ=0 or 1 transitions. γs to 4$^+$ and 5$^+$ imply (3$^+$,4,5,6$^+$).
10305 *4*	3$^-$[@]		I	
10349 *4*	(3$^+$,4)	<24.3 fs	I	Jπ: γs to 3$^-$; 3$^+$; 4$^+$; and 5$^+$.
10355 *4*			I	
10397 *4*	2$^+$,3,4,5$^+$	<24.3 fs	I	Jπ: γs to 3$^+$ and 4$^+$; L=6 in (α,p) for a multiplet. Other: 3,5$^{(+)}$ in 1980Bi14.
10420 *4*			I	
10449[‡] *4*	(0$^+$,1,2,3$^+$)		I K	Jπ: γs to 1$^+$ and 2$^+$.
10465 *4*	3$^+$,4,5$^+$	<35 fs	I	Jπ: γs to 3$^+$; 4$^+$; and 5$^+$. Other: 4,3$^+$ in 1980Bi14.
10470[‡] *4*	1$^+$	0.14 fs *5*	I NO	XREF: N(10478.0)O(10480). Jπ: from M1 excitation in (γ,γ′).
10508 *4*	(0$^+$ to 3$^+$)		I	Jπ: γs to 1$^+$ and 2$^+$.
10554.5 *3*	(6$^-$)[@]	<35 fs	D I	
10582 *4*	(0$^+$,1,2,3$^+$)		I	Jπ: γ to 1$^+$.
10621[‡] *4*			I O	
10669 *4*	(5,4,3$^-$)	<17.3 fs	I	Jπ: γs to 4$^+$; 4$^-$; and 5$^-$.
10674.8 *12*	6$^+$	12 fs *8*	D F HIJK	XREF: F(10.6E3)H(10.72E3)K(10640). Jπ: L=6 in (t,p).
10719.28 *18*	7$^-$[b]	17 fs *9*	D I	Jπ: M1+E2 γ, ΔJ=1, to 6$^-$; E2 γ, ΔJ=2, to 5$^-$.
10732[‡] *3*	(3$^-$,4$^+$)	<28 fs	hIJ	Jπ: γs to (2$^+$,3$^+$); 4$^+$; 4$^-$; and 5$^-$. L=5 in (t,p) for doublet – is more likely associated with this level, which imply Jπ=5$^-$. (3$^-$,4$^-$,5$^-$) in 1980Bi14 (α,pγ). However, for a 5$^-$ assignment, Jπ(8104.9)=(2$^+$,3$^+$) is not consistent.
10766			M O	E(level): From (d,p).
10795 *4*	(2 to 4)		I	
10805 *4*			I	
10823 *4*	(4,5,6$^+$)	<24.3 fs	I	Jπ: γs to 4$^+$; 5$^+$; and 5$^-$.
10835 *4*			I	
10866[‡] *4*	(5,4,3$^-$)	<35 fs	I	Jπ: γs to 4$^+$; 4$^-$; and 5$^-$.
10909 *10*	(2$^+$)		J	E(level),Jπ: from (t,p), L=(2) in (t,p).
10930 *10*	(7)[f]		H O	XREF: H(10.91E3).
10975 *4*			I	
10991 *4*	(3$^+$,4,5$^+$)		IJ	Jπ: γs to 3$^+$; 4$^-$; and 5$^+$.
11003 *10*	2$^+$		J	Jπ: L=2 in (t,p).
11015 *4*	(2$^+$,3,4$^+$)		I	Jπ: γs to 2$^+$ and 4$^+$.
11038 *4*	(3$^-$,4,5,6$^+$)	<52 fs	I	Jπ: γs to 4$^+$ and 5$^-$.
11073 *4*	(2$^+$,3,4$^+$,5,6$^+$)	<35 fs	I	Jπ: γ to 4$^+$.
11083.5 *22*	(6$^-$,5$^-$,4$^-$)	24 fs *9*	D I	Jπ: γs to 4$^-$; 5$^-$; and 6$^-$. In 2010St13 (^{18}O,2nγ) Jπ 6$^-$ or 7$^-$ was proposed based on γ-ray feeding.
11091 *4*	(2$^+$,3,4$^+$,5,6$^+$)	<35 fs	I	Jπ: γ to 4$^+$.

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Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

E(level)[†]	J$^\pi$	T$_{1/2}$[g]	XREF	Comments
11180 *10*			O	
11205 *4*			I	
11210 *4*	(4,5$^+$)		I	J$^\pi$: γ to 3$^+$; 4$^+$; and 5$^-$.
11250 *4*	4$^-$,5$^-$	<24.3 fs	I	J$^\pi$: γs to 3$^-$; 4$^+$; 4$^-$; 5$^+$; 5$^-$; and 6$^-$.
11268 *4*	(2$^+$,3,4,5$^+$)		I	J$^\pi$: γs to 3$^+$ and 4$^+$.
11322 *4*	(2$^+$,3,4,5$^+$)		I	J$^\pi$: γs to 3$^+$ and 4$^+$.
11348 *4*			I	
11360 *10*			O	
11380 *4*			I	
11417 *4*	(6$^+$,4$^+$)	<35 fs	I	J$^\pi$: proposed in 1980Bi14 (α,pγ), angular correlation coefficients data imply a ΔJ=2 or 0 γ transition. γs to 4$^+$ and 5$^+$ imply (3$^+$,4,5,6$^+$).
11477 *4*	(6$^-$,5$^-$)	<104 fs	I	J$^\pi$: proposed in 1980Bi14 (α,pγ), angular correlation coefficients data imply a ΔJ=0 or 1 γ transition, γs to 5$^+$; 5$^-$; and 6$^-$ imply (4$^-$,5,6).
11493 *4*	(3$^+$,4,5,6$^+$)		I	J$^\pi$: γs to 4$^+$ and 5$^+$.
11512 *4*	(4$^-$,5,6$^+$)		I	J$^\pi$: γs to 4$^+$ and 6$^-$.
11539.1[#] *9*	7$^-$[b]	12 fs *8*	D I	
11564 *4*	(5,3)	<24.3 fs	I	J$^\pi$: D γ, ΔJ=1, to 4$^+$. Other: 5,3$^+$ in 1980Bi14 (α,pγ).
11661 *2*	(4,5,6)	12 fs *9*	I	J$^\pi$: γs to 5$^+$ and 5$^-$.
11700 *10*			O	
11740 *4*	(3$^-$,4,5)		I	J$^\pi$: γs to 4$^+$; 4$^-$; and 5$^-$.
11782 *2*	(3$^+$,4,5$^+$)	<35 fs	I	J$^\pi$: γs to 3$^+$; 4$^+$; and 5$^+$.
11840[‡] *4*			I O	
11880 *4*			I	
12015 *4*	(4,5,6$^+$)		I	J$^\pi$: γs to 4$^+$; 5$^+$; and 5$^-$.
12020 *10*			O	
12200 *10*			O	
12.34×10^3 *5*	(6)[f]		H	
12393.7 *24*			D O	XREF: O(12400).
12510 *3*			D	
12700 *10*			O	
12714.8 *15*			D	
12830 *10*			O	E(level): excited in (e,e′), presumably different than 12832 (8$^-$) level.
12831.96 *24*	(8$^-$)[d]		D	
13022 *5*			E O	XREF: O(13030). E(level): from (α,n),(α,γ),(α,α):Res.
13077 *5*		>4 keV	E	
13140 *10*			O	
13182 *5*		>4 keV	E	
13202.8 *5*	(8$^-$)[d]		D	
13220 *5*		>18 keV	E	
13234 *5*		>12 keV	E	
13307 *5*		>52 keV	E	
13403 *5*		>4 keV	E O	E(level): from (α,n),(α,γ),(α,α):Res.
13471 *5*		>13 keV	E	
13489 *5*	1$^-$[a]	>17 keV	E	
13588 *5*		>12 keV	E	
13604 *5*		>10 keV	E O	E(level): from (α,n),(α,γ),(α,α):Res.
13674 *5*		>20 keV	E	
13705 *5*		>20 keV	E	
13725 *5*		>20 keV	E	
13747 *5*		>13 keV	E	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

E(level)[†]	J$^{\pi}$	T$_{1/2}$[g]	XREF	Comments
13773 *5*	0$^+$[a]	>19 keV	E	
13796 *5*		>13 keV	E O	E(level): from (α,n),(α,γ),(α,α):Res.
13858 *5*	1$^-$[a]	>17 keV	E	
13888 *5*	(1$^-$)[a]	>14 keV	E	
13938 *5*		>4 keV	E	
13957 *5*		>6 keV	E	
13986 *5*		>20 keV	E	
14007 *5*	0$^+$[a]	>13 keV	E O	E(level): from (α,n),(α,γ),(α,α):Res.
14094 *5*	1$^-$[a]	>18 keV	E	
14147 *5*		>13 keV	E	
14177 *5*		>20 keV	E	
14190	0$^+$[a]		E O	E(level): from (α,n),(α,γ),(α,α):Res.
14237 *5*	(8)[f]	>7 keV	E H	E(level): from (α,n),(α,γ),(α,α):Res. Γ from (α,n),(α,γ),(α,α):Res.
14253 *5*	(2$^+$)[a]	>11 keV	E	
14311 *5*	1$^-$[a]	>19 keV	E	
14320	(0$^+$)[&]		E	
14376	(0$^+$)[&]		E	
14596 *50*	(0$^+$)[&]		E	
14630 *10*	(2$^+$)[&]		E O	XREF: E(14647). E(level): from (e,e′).
14675	(1$^-$)[&]		E	
14.69×10^3 *5*	(8)[f]		H	
14718	(3$^-$)[&]		E	
14874	(0$^+$)[&]		E	
14918	(3$^-$)[&]		E	
1.499×10^4 *3*			E	
15022	(4$^+$)[&]		E	
15191.3 *5*	(9$^-$)[d]		D	
15528.8 *14*	(9$^-$)[d]		D	
15.95×10^3 *5*	(8)[f]		H	
16.70×10^3 *5*	(9)[f]		H	
40.9×10^3			C	
41.8×10^3			C	
45.0×10^3			C	
45.6×10^3			C	
46.5×10^3			C	

[†] From a least squares fit to the γ-ray energies. Four Eγ fitted poorly above 3 or 4 σ. In the least squares fit, the uncertainties of the γ-rays 3043.2(1), 2168.9(3), 1556.3(1) and 3676.7(2) depopulating the states 5279, 6998, 7043 and 10719 keV, respectively, were doubled for a better fitting.

[‡] From (α,pγ).

[#] K^{π}=3$^-$ band; with an absolute value of intrinsic quadrupole moment Q$_o$=350 mb *+250−70*.

[@] From γ-rays linear polarization measurements, measured angular correlation coefficients and recommended upper limits (RUL) in (α,pγ) (1980Bi14).

[&] From ^{26}Mg(α,α') (1977NaZI). No details are given. Evaluators list as tentative in parentheses.

[a] As proposed by authors in 1972Ru02, based on angular distribution data for the ground state transitions in (α,γ) and $\alpha(\theta)$

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{30}Si Levels (continued)

measurements in (α,$\alpha\gamma$).

[b] Consistent with γ-ray polarization data ((α,pγ) – 1980Bi14).

[c] Assigned in 1971Sy01 (^{27}Al(α,pγ)), based on γ-rays angular correlation and expected natural/unnatural parity from ^{30}Si(α,α') studies.

[d] Assigned by 2010St13 (^{18}O,2nγ), based on γ-feeding sequence to the lower levels.

[e] 4 from α-$\gamma(\theta)$ and parity from expected excitation of natural parity states in the ^{30}Si(α,$\alpha'\gamma$) reaction, i.e. 0^+ target and 0^+ projectile (1970Du03).

[f] From (α,p) based on measured $\sigma(\theta)$ and calculations using Hauser-Feshbach theory.

[g] From (α,pγ), except otherwise noted.

Adopted Levels, Gammas (continued)

$\gamma(^{30}Si)$

Additional information 1.

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult. [b]	δ [b]	α [d]	Comments
2235.325	2^+	2235.23# *3*	100	0	0^+	E2		4.36×10^{-4} *6*	B(E2)(W.u.)=7.76 *+40−38* α(K)=5.65×10^{-6} *8*; α(L)=4.03×10^{-7} *6*; α(M)=2.66×10^{-8} *4* α(IPF)=0.000429 *6*
3498.49	2^+	1263.13@ *3*	100[a] *3*	2235.325	2^+	M1+E2	+0.18 *6*	2.90×10^{-5} *5*	B(M1)(W.u.)=0.096 *+12−10*; B(E2)(W.u.)=9 *+7−5* α(K)=1.359×10^{-5} *21*; α(L)=9.70×10^{-7} *15*; α(M)=6.39×10^{-8} *10* α(IPF)=1.438×10^{-5} *26* δ: From 1971Sh11 (α,pγ). Also same in 1963Br15 (p,p′) − no dataset presented − measured γ yields, $\gamma(\theta)$, deduced δ.
		3498.33# *5*	81 *7*	0	0^+	E2		9.94×10^{-4} *14*	B(E2)(W.u.)=1.43 *+17−15* α(K)=2.75×10^{-6} *4*; α(L)=1.960×10^{-7} *27*; α(M)=1.292×10^{-8} *18* α(IPF)=0.000991 *14* I_γ: unweighted average of 80.8 *24* from ^{30}Al β^- decay, 93 *12* from ^{30}P ε decay, 73 *4* from (^{18}O,2nγ), 89 *9* from (α,pγ), 98.4 *31* from (n,γ) E=thermal, and 54 *8* from (n,n′γ).
3769.48	1^+	1534.12# *4*	100# *3*	2235.325	2^+	M1+E2	−0.09 *4*	8.40×10^{-5} *12*	B(M1)(W.u.)=0.078 *+21−14*; B(E2)(W.u.)=1.2 *+15−9* α(K)=9.60×10^{-6} *14*; α(L)=6.85×10^{-7} *10*; α(M)=4.52×10^{-8} *6* α(IPF)=7.37×10^{-5} *11*
		3769.22# *5*	84.8 *25*	0	0^+	M1		9.49×10^{-4} *13*	B(M1)(W.u.)=0.0045 *+12−8* α(K)=2.371×10^{-6} *33*; α(L)=1.691×10^{-7} *24*; α(M)=1.115×10^{-8} *16* α(IPF)=0.000947 *13* I_γ: weighted average of 80 *10* from ^{30}P ε decay, 82 *9* from (α,pγ), and 85.1 *25* from (n,γ) E=thermal. Other: 100 *19* from (n,n′γ).
3787.72	0^+	1552.36# *4*	100	2235.325	2^+	E2		1.21×10^{-4} *2*	B(E2)(W.u.)=1.28 *9* α(K)=1.121×10^{-5} *16*; α(L)=8.00×10^{-7} *11*; α(M)=5.27×10^{-8} *7* α(IPF)=0.0001091 *15*
4810.33	2^+	1040.9#e	10 *3*	3769.48	1^+				
		1311.80# *14*	89# *7*	3498.49	2^+	M1+E2	−0.17 *6*	3.58×10^{-5} *6*	B(M1)(W.u.)=0.0284 *+38−34*; B(E2)(W.u.)=2.2 *+19−13* α(K)=1.268×10^{-5} *19*; α(L)=9.06×10^{-7} *14*; α(M)=5.97×10^{-8} *9* α(IPF)=2.22×10^{-5} *4*
		2574.8# *5*	28# *7*	2235.325	2^+	M1+E2	−0.52 *11*	5.13×10^{-4} *10*	B(M1)(W.u.)=9.6×10^{-4} *25*; B(E2)(W.u.)=0.18 *+8−7* α(K)=4.21×10^{-6} *6*; α(L)=3.00×10^{-7} *4*; α(M)=1.979×10^{-8} *30* α(IPF)=0.000509 *10*
		4810.0# *3*	100# *7*	0	0^+	E2		1.43×10^{-3} *2*	B(E2)(W.u.)=0.133 *+17−15*

From ENSDF

$^{30}_{14}Si_{16}$-9

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
									α(K)=1.741×10^{-6} *24*; α(L)=1.242×10^{-7} *17*; α(M)=8.18×10^{-9} *11* α(IPF)=0.001432 *20*
4830.86	3$^+$	1332.48[#] *16*	10 *3*	3498.49	2$^+$	M1+E2[c]	+0.7 *+6−4*	4.4×10^{-5} *5*	α(K)=1.33×10^{-5} *10*; α(L)=9.5×10^{-7} *7*; α(M)=6.3×10^{-8} *5* α(IPF)=2.93×10^{-5} *35* B(M1)(W.u.)=0.0065 *34*; B(E2)(W.u.)=8 *+8−7* I_γ: unweighted average of 16.1 *16* from ^{30}Al β$^-$ decay, 3.2 *5* from (^{18}O,2nγ), 9.0 *20* from (α,pγ), and 10.3 *11* from (n,γ) E=thermal.
		2595.39[#] *4*	100.0 *20*	2235.325	2$^+$	M1+E2	+0.72 *+11−9*	5.36×10^{-4} *10*	B(M1)(W.u.)=0.0087 *+22−17*; B(E2)(W.u.)=3.1 *+10−7* α(K)=4.19×10^{-6} *6*; α(L)=2.99×10^{-7} *4*; α(M)=1.973×10^{-8} *29* α(IPF)=0.000531 *10* I_γ: weighted average of 100.0 *24* from ^{30}Al β$^-$ decay, 100 *4* from (^{18}O,2nγ), 100.0 *20* from (α,pγ), and 100.0 *29* from (n,γ) E=thermal.
5231.52	3$^+$	400.2 *4*	3.80 *27*	4830.86	3$^+$				E_γ: weighted average of 400.0 *2* from (^{18}O,2nγ) and 400.9 *4* from (n,γ) E=thermal. I_γ: weighted average of 3.78 *27* from (^{18}O,2nγ) and 4.5 *18* from (n,γ) E=thermal.
		421.0[#] *5*	5.4[#] *18*	4810.33	2$^+$				
		1732.3 *8*	100[&] *4*	3498.49	2$^+$	M1+E2	+0.12 *6*	1.49×10^{-4} *2*	B(M1)(W.u.)=0.055 *+15−10*; B(E2)(W.u.)=1.2 *+16−9* α(K)=7.82×10^{-6} *11*; α(L)=5.58×10^{-7} *8*; α(M)=3.68×10^{-8} *5* α(IPF)=0.0001410 *22* E_γ: unweighted average of 1731.5 *2* from (^{18}O,2nγ) and 1733.0 *1* from (n,γ) E=thermal.
		2995.0 *8*	12.5 *9*	2235.325	2$^+$				E_γ: weighted average of 2994.5 *6* from (^{18}O,2nγ) and 2996.2 *9* from (n,γ) E=thermal. I_γ: weighted average of 12.6 *9* from (^{18}O,2nγ), 13.0 *20* from (α,pγ), and 10.8 *27* from (n,γ) E=thermal. Other: 11 *6* from (n,n′γ).
5279.25	4$^+$	1781	1.0 *3*	3498.49	2$^+$	[E2]		2.19×10^{-4} *3*	α(K)=8.55×10^{-6} *12*; α(L)=6.11×10^{-7} *9*; α(M)=4.02×10^{-8} *6* α(IPF)=0.0002094 *29* B(E2)(W.u.)=0.59 *19*
		3043.2[&] *1*	100.0 *3*	2235.325	2$^+$	(E2)		8.07×10^{-4} *11*	B(E2)(W.u.)=4.04 *+45−39* α(K)=3.40×10^{-6} *5*; α(L)=2.426×10^{-7} *34*; α(M)=1.599×10^{-8} *22* α(IPF)=0.000803 *11*
5372.2	0$^+$	1602.8[#] *9*	78 *11*	3769.48	1$^+$	M1		1.05×10^{-4} *2*	B(M1)(W.u.)=0.040 *+21−11*

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
									α(K)=8.89×10^{-6} *12*; α(L)=6.35×10^{-7} *9*; α(M)=4.18×10^{-8} *6* α(IPF)=9.54×10^{-5} *14* I_γ: weighted average of 82 *11* from (α,pγ) and 62 *23* from (n,γ) E=thermal.
5372.2	0$^+$	3136.6[#] *7*	100[#] *11*	2235.325	2$^+$	E2		8.47×10^{-4} *12*	B(E2)(W.u.)=3.2 *+17−9* α(K)=3.24×10^{-6} *5*; α(L)=2.314×10^{-7} *32*; α(M)=1.525×10^{-8} *21* α(IPF)=0.000843 *12* I_γ: weighted average of 100 *11* from (α,pγ) and 100 *23* from (n,γ) E=thermal.
5487.49	3$^-$	1989.02[#] *7*	92 *4*	3498.49	2$^+$	E1		6.40×10^{-4} *9*	B(E1)(W.u.)=9.3×10^{-4} *+33−20* α(K)=4.21×10^{-6} *6*; α(L)=3.00×10^{-7} *4*; α(M)=1.978×10^{-8} *28* α(IPF)=0.000635 *9* I_γ: weighted average of 90 *4* from (^{18}O,2nγ), 92 *8* from (α,pγ), and 96 *5* from (n,γ) E=thermal.
		3252.00[#] *9*	100[#] *5*	2235.325	2$^+$	E1		1.37×10^{-3} *2*	B(E1)(W.u.)=2.3×10^{-4} *+8−5* α(K)=2.180×10^{-6} *31*; α(L)=1.555×10^{-7} *22*; α(M)=1.025×10^{-8} *14* α(IPF)=0.001365 *19*
5614.05	2$^+$	783	6 *2*	4830.86	3$^+$	M1+E2	+0.20 *11*	3.65×10^{-5} *14*	α(K)=3.39×10^{-5} *13*; α(L)=2.43×10^{-6} *9*; α(M)=1.60×10^{-7} *6*
		804	2 *1*	4810.33	2$^+$				
		1844.40[#] *16*	100[#] *8*	3769.48	1$^+$	M1+E2	+0.11 *5*	1.91×10^{-4} *3*	α(K)=7.04×10^{-6} *10*; α(L)=5.03×10^{-7} *7*; α(M)=3.31×10^{-8} *5* α(IPF)=0.0001831 *27*
		3378.68[#] *25*	77 *8*	2235.325	2$^+$	(M1+E2)	−0.29 *4*	8.19×10^{-4} *12*	α(K)=2.78×10^{-6} *4*; α(L)=1.983×10^{-7} *28*; α(M)=1.307×10^{-8} *18* α(IPF)=0.000816 *12* I_γ: weighted average of 81 *8* from (α,pγ) and 73 *8* from (n,γ) E=thermal.
5950.69	4$^+$	671	0.5 *2*	5279.25	4$^+$				
		719	0.3 *1*	5231.52	3$^+$				
		1120	1.7 *4*	4830.86	3$^+$				
		2452.6[&] *13*	4.9 *19*	3498.49	2$^+$	(E2)		5.40×10^{-4} *8*	B(E2)(W.u.)=3.3 *+31−16* α(K)=4.82×10^{-6} *7*; α(L)=3.44×10^{-7} *5*; α(M)=2.268×10^{-8} *32* α(IPF)=0.000535 *8* I_γ: unweighted average of 3.0 *5* from (^{18}O,2nγ) and 6.7 *17* from (α,pγ).
		3714.9[&] *2*	100.0 *20*	2235.325	2$^+$	(E2)		1.07×10^{-3} *2*	B(E2)(W.u.)=8 *+7−3* α(K)=2.513×10^{-6} *35*; α(L)=1.793×10^{-7} *25*; α(M)=1.182×10^{-8} *17* α(IPF)=0.001071 *15*

From ENSDF

$^{30}_{14}Si_{16}$-11

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
6503.42	4⁻	551.9[&] *11*	1.11[&] *19*	5950.69	4⁺	[E1]			B(E1)(W.u.)=2.1×10⁻⁴ *+8−6*
		1016.0[&] *1*	12.8 *9*	5487.49	3⁻	(M1+E2)	−0.23 *2*		B(M1)(W.u.)=0.0118 *+39−25*; B(E2)(W.u.)=2.8 *+11−7* I_γ: weighted average of 13.0 *9* from (^{18}O,2nγ) and 9 *4* from (α,pγ).
		1271.9[&] *2*	100[&] *4*	5231.52	3⁺	(E1)		1.15×10⁻⁴ *2*	B(E1)(W.u.)=0.0016 *+5−3* α(K)=8.51×10⁻⁶ *12*; α(L)=6.08×10⁻⁷ *9*; α(M)=4.00×10⁻⁸ *6* α(IPF)=0.0001060 *15*
		1672.4[&] *1*	61.1[&] *18*	4830.86	3⁺	(E1)		4.08×10⁻⁴ *6*	B(E1)(W.u.)=4.2×10⁻⁴ *+14−9* α(K)=5.45×10⁻⁶ *8*; α(L)=3.89×10⁻⁷ *5*; α(M)=2.56×10⁻⁸ *4* α(IPF)=0.000402 *6*
6537	2⁺	923	13 *4*	5614.05	2⁺				
		1305	16 *7*	5231.52	3⁺				
		2767	35 *9*	3769.48	1⁺				
		3038	100 *7*	3498.49	2⁺				
		4301	27 *7*	2235.325	2⁺				
		6536	31 *7*	0	0⁺	E2			B(E2)(W.u.)=0.036 *+42−17* α(IPF)=0.001863 *26*
6641	0⁺	4405	100	2235.325	2⁺				
6641.21	2⁻	1153.61[#] *13*	15.5[#] *10*	5487.49	3⁻				
		1810.42[#] *22*	15.5[#] *10*	4830.86	3⁺	[E1]		5.11×10⁻⁴ *7*	α(K)=4.83×10⁻⁶ *7*; α(L)=3.45×10⁻⁷ *5*; α(M)=2.271×10⁻⁸ *32* α(IPF)=0.000506 *7* B(E1)(W.u.)=4.7×10⁻⁴ *+26−13*
		1830.6[#] *4*	7.9[#] *10*	4810.33	2⁺	[E1]		5.26×10⁻⁴ *7*	B(E1)(W.u.)=2.3×10⁻⁴ *+13−7* α(K)=4.75×10⁻⁶ *7*; α(L)=3.39×10⁻⁷ *5*; α(M)=2.234×10⁻⁸ *31* α(IPF)=0.000521 *7*
		2871.6[#] *3*	11.7[#] *14*	3769.48	1⁺	[E1]		1.18×10⁻³ *2*	α(K)=2.55×10⁻⁶ *4*; α(L)=1.821×10⁻⁷ *26*; α(M)=1.200×10⁻⁸ *17* α(IPF)=0.001178 *16* B(E1)(W.u.)=8.9×10⁻⁵ *+50−25*
		4405.56[#] *8*	100[#] *3*	2235.325	2⁺	[E1]		1.83×10⁻³ *3*	B(E1)(W.u.)=2.1×10⁻⁴ *+12−6* α(K)=1.508×10⁻⁶ *21*; α(L)=1.075×10⁻⁷ *15*; α(M)=7.09×10⁻⁹ *10* α(IPF)=0.001833 *26*
		6640.7[#] *9*	4.8[#] *14*	0	0⁺	[M2]			B(M2)(W.u.)=0.31 *+20−11*
6744.06	1⁻	1933.9[#] *5*	0.60[#] *11*	4810.33	2⁺	[E1]		6.01×10⁻⁴ *8*	α(K)=4.38×10⁻⁶ *6*; α(L)=3.13×10⁻⁷ *4*; α(M)=2.061×10⁻⁸ *29* α(IPF)=0.000596 *8*
		2956.25[#] *12*	3.55[#] *19*	3787.72	0⁺	[E1]		1.22×10⁻³ *2*	α(K)=2.460×10⁻⁶ *34*; α(L)=1.755×10⁻⁷ *25*; α(M)=1.156×10⁻⁸ *16* α(IPF)=0.001219 *17* I_γ: Other: 100 *5* (α,pγ).

From ENSDF

$^{30}_{14}Si_{16}$-12

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
6744.06	1⁻	4508.64[#] *17*	2.15[#] *13*	2235.325	2⁺	(E1)		1.86×10^{-3} *3*	α(K)=1.468×10^{-6} *21*; α(L)=1.047×10^{-7} *15*; α(M)=6.90×10^{-9} *10* α(IPF)=0.001862 *26*
		6743.22[#] *4*	100[#] *3*	0	0⁺	E1			α(IPF)=0.002465 *35* I_γ: Other: 5 *2* (α,pγ).
6865	3⁺	914	6 *2*	5950.69	4⁺	M1(+E2)[c]	−0.03 *10*		B(M1)(W.u.)=0.04 *+8−2*
		1251	4 *2*	5614.05	2⁺				
		1586	4 *2*	5279.25	4⁺				
		1633	4 *2*	5231.52	3⁺				
		2034	73 *12*	4830.86	3⁺	M1+E2[c]	+1.2 *5*	3.08×10^{-4} *19*	α(K)=6.40×10^{-6} *20*; α(L)=4.57×10^{-7} *14*; α(M)=3.01×10^{-8} *9* α(IPF)=0.000302 *19* B(M1)(W.u.)=0.017 *+20−8*; B(E2)(W.u.)=27 *+21−14*
		2055	12 *4*	4810.33	2⁺				
		4629	100 *16*	2235.325	2⁺	M1+E2[c]	−0.15 *+9−15*	1.23×10^{-3} *2*	α(K)=1.788×10^{-6} *25*; α(L)=1.275×10^{-7} *18*; α(M)=8.41×10^{-9} *12* α(IPF)=0.001229 *19* B(M1)(W.u.)=0.0047 *+36−17*
6914.77	2⁺	1301	4.2 *22*	5614.05	2⁺				
		3145.1[#]	20 *7*	3769.48	1⁺				
		3415.7[#] *7*	29 *7*	3498.49	2⁺				I_γ: weighted average of 27 *7* from (α,pγ) and 30 *7* from (n,γ) E=thermal.
		4679.2[#] *3*	100[#] *7*	2235.325	2⁺	M1+E2	−0.63 *14*	1.29×10^{-3} *2*	α(K)=1.774×10^{-6} *25*; α(L)=1.266×10^{-7} *18*; α(M)=8.34×10^{-9} *12* α(IPF)=0.001284 *23*
		6913.7[#] *5*	77 *12*	0	0⁺	E2			α(IPF)=0.001939 *27* I_γ: weighted average of 71 *16* from (α,pγ) and 79 *12* from (n,γ) E=thermal.
6998.78	5⁺	1048.2[&] *2*	22.0 *17*	5950.69	4⁺	M1+E2[c]	+0.12 *2*		B(M1)(W.u.)=0.0214 *+42−31*; B(E2)(W.u.)=1.3 *+6−4* I_γ: weighted average of 22.7 *13* from (^{18}O,2nγ) and 18.0 *30* from (α,pγ).
		1719.4[&] *1*	100[&] *4*	5279.25	4⁺	M1+E2[c]	+0.25 *5*	1.47×10^{-4} *2*	α(K)=7.97×10^{-6} *12*; α(L)=5.69×10^{-7} *8*; α(M)=3.75×10^{-8} *5* α(IPF)=0.0001384 *22* B(M1)(W.u.)=0.0211 *+38−28*; B(E2)(W.u.)=2.1 *+10−8*
		1767.7[&] *10*	7.5[&] *15*	5231.52	3⁺	[E2]		2.13×10^{-4} *3*	α(K)=8.68×10^{-6} *12*; α(L)=6.19×10^{-7} *9*; α(M)=4.08×10^{-8} *6* α(IPF)=0.0002033 *29* B(E2)(W.u.)=2.3 *+6−5*

From ENSDF

$^{30}_{14}Si_{16}$-13

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
6998.78	5+	2168.9& *3*	38.9 *27*	4830.86	3+	E2[c]		4.03×10^{-4} *6*	α(K)=5.96×10^{-6} *8*; α(L)=4.25×10^{-7} *6*; α(M)=2.80×10^{-8} *4* α(IPF)=0.000397 *6* B(E2)(W.u.)=4.3 *+8−6* I_γ: weighted average of 40.0 *27* from (^{18}O,2nγ) and 35 *5* from (α,pγ).
7043.17	5−	539.5& *3*	97.2& *28*	6503.42	4−	M1+E2	+0.04 *1*	7.58×10^{-5} *11*	B(M1)(W.u.)=0.060 *9*; B(E2)(W.u.)=1.5 *+9−7* α(K)=7.04×10^{-5} *10*; α(L)=5.04×10^{-6} *7*; α(M)=3.32×10^{-7} *5*
		1092.1& *2*	100.0& *35*	5950.69	4+	E1+M2[c]	−0.02 *1*		B(E1)(W.u.)=2.37×10^{-4} *+33−35*; B(M2)(W.u.)=0.36 *+46−28*
		1556.3& *1*	30.3 *14*	5487.49	3−	E2[c]		1.23×10^{-4} *2*	α(K)=1.115×10^{-5} *16*; α(L)=7.96×10^{-7} *11*; α(M)=5.24×10^{-8} *7* α(IPF)=0.0001108 *16* B(E2)(W.u.)=1.49 *22* I_γ: weighted average of 30.1 *14* from (^{18}O,2nγ) and 32 *4* from (α,pγ).
		1763.8& *1*	46.2& *21*	5279.25	4+	E1+M2[c]	+0.06 *3*	4.75×10^{-4} *7*	α(K)=5.05×10^{-6} *8*; α(L)=3.61×10^{-7} *6*; α(M)=2.37×10^{-8} *4* α(IPF)=0.000470 *7* B(E1)(W.u.)=2.58×10^{-5} *38*; B(M2)(W.u.)=0.14 *+17−10* I_γ: other: 62 *6* from (α,pγ).
7079	3+	1847	<8	5231.52	3+				
		2269	45 *8*	4810.33	2+	D+Q	+0.15 *1*		
		3580	22 *5*	3498.49	2+				
		4843	100 *17*	2235.325	2+	D			
7223.2	4+	720	<2	6503.42	4−				
		1272	24 *7*	5950.69	4+				
		1736	<9	5487.49	3−				
		1943.0& *11*	100 *7*	5279.25	4+	M1+E2	+0.3 *4*	2.34×10^{-4} *16*	α(K)=6.53×10^{-6} *22*; α(L)=4.66×10^{-7} *16*; α(M)=3.07×10^{-8} *10* α(IPF)=0.000227 *16*
		1991.5& *4*	30 *7*	5231.52	3+	M1+E2	+0.6 *1*	2.67×10^{-4} *6*	α(K)=6.40×10^{-6} *10*; α(L)=4.57×10^{-7} *7*; α(M)=3.01×10^{-8} *5* α(IPF)=0.000260 *6* I_γ: other: 63 *15* in (^{18}O,2nγ).
		2392	23 *4*	4830.86	3+	D+Q	+0.10 *3*		
		3725.5& *10*	25 *5*	3498.49	2+				I_γ: other: 89 *22* in (^{18}O,2nγ).
7255	2+	1767	31 *7*	5487.49	3−	[E1]		4.79×10^{-4} *7*	α(K)=5.01×10^{-6} *7*; α(L)=3.58×10^{-7} *5*; α(M)=2.355×10^{-8} *33* α(IPF)=0.000474 *7* B(E1)(W.u.)=3.3×10^{-4} *+22−11*
		2023	24 *7*	5231.52	3+				
		2424	17 *7*	4830.86	3+				
		2445	45 *10*	4810.33	2+	M1+E2[c]	−1.5 *+7−20*	5.06×10^{-4} *31*	α(K)=4.74×10^{-6} *13*; α(L)=3.38×10^{-7} *9*; α(M)=2.23×10^{-8} *6* α(IPF)=0.000501 *31* B(M1)(W.u.)=0.0017 *+24−12*; B(E2)(W.u.)=3.0 *+20−16*

From ENSDF

$^{30}_{14}Si_{16}$-14

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
7255	2+	3756	66 *14*	3498.49	2+	D+Q			
		5019	100 *10*	2235.325	2+	M1+E2	+3.7 *15*	1.48×10^{-3} *3*	B(M1)(W.u.)=1.0×10^{-4} *+22−5*; B(E2)(W.u.)=0.25 *+14−9* α(K)=1.640×10^{-6} *23*; α(L)=1.170×10^{-7} *17*; α(M)=7.71×10^{-9} *11* α(IPF)=0.001483 *27*
		7254	63 *8*	0	0+	E2			B(E2)(W.u.)=0.027 *+17−8* α(IPF)=0.001998 *28*
7440	0+	3670	100	3769.48	1+				
7507.87	(2−)	1893.6# *5*	1.01# *19*	5614.05	2+				
		2020.33# *23*	8.0# *3*	5487.49	3−				
		2276.22# *8*	7.9# *4*	5231.52	3+				
		2676.87# *6*	13.8# *6*	4830.86	3+				
		3738.20# *18*	10.8# *5*	3769.48	1+				
		4009.09# *21*	5.89# *25*	3498.49	2+				
		5272.09# *7*	100# *3*	2235.325	2+				
		7507.4# *8*	0.89# *19*	0	0+				
7613	4−	1110	7 *2*	6503.42	4−				
		2125	98 *12*	5487.49	3−	(M1+E2)[c]	+0.25 *3*	3.07×10^{-4} *4*	α(K)=5.63×10^{-6} *8*; α(L)=4.02×10^{-7} *6*; α(M)=2.65×10^{-8} *4* α(IPF)=0.000301 *4* B(M1)(W.u.)=0.07 *+5−2*; B(E2)(W.u.)=4.4 *+38−16*
		2334	17 *5*	5279.25	4+	[E1]		8.70×10^{-4} *12*	B(E1)(W.u.)=3.0×10^{-4} *+26−12* α(K)=3.36×10^{-6} *5*; α(L)=2.399×10^{-7} *34*; α(M)=1.580×10^{-8} *22* α(IPF)=0.000866 *12*
		2381	17 *5*	5231.52	3+	[E1]		8.99×10^{-4} *13*	α(K)=3.27×10^{-6} *5*; α(L)=2.335×10^{-7} *33*; α(M)=1.538×10^{-8} *22* α(IPF)=0.000896 *13* B(E1)(W.u.)=2.8×10^{-4} *+24−11*
		2782	100 *10*	4830.86	3+	(E1)[c]		1.13×10^{-3} *2*	α(K)=2.66×10^{-6} *4*; α(L)=1.898×10^{-7} *27*; α(M)=1.251×10^{-8} *18* α(IPF)=0.001131 *16* B(E1)(W.u.)=0.0011 *+8−4*
7623	2+	4124	100 *16*	3498.49	2+				
		5387	61 *11*	2235.325	2+	D+Q	+0.38 *6*		
		7622	14 *5*	0	0+	(E2)			α(IPF)=0.002061 *29*
7634	(1,2)+	3846	43 *14*	3787.72	0+				
		3864	100 *14*	3769.48	1+				

From ENSDF

$^{30}_{14}Si_{16}$-15

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
7667.4	(1,2)$^+$	4168.4[#]	23[#] *5*	3498.49	2$^+$				E_γ: uncertain placement in (n,γ) E=thermal.
		5431.5[#] *6*	100[#] *10*	2235.325	2$^+$				
		7666	12 *4*	0	0$^+$				
7810	4$^+$	731	4 *2*	7079	3$^+$				
		945	12 *4*	6865	3$^+$				
		1859	46 *8*	5950.69	4$^+$				
		2531	100 *10*	5279.25	4$^+$				
		2578	18 *4*	5231.52	3$^+$				
		2979	20 *4*	4830.86	3$^+$				
7911	2$^+$	2423	11 *4*	5487.49	3$^-$	[E1]		9.25×10^{-4} *13*	α(K)=3.20×10^{-6} *4*; α(L)=2.280×10^{-7} *32*; α(M)=1.502×10^{-8} *21* α(IPF)=0.000921 *13* B(E1)(W.u.)=1.3×10^{-4} *+13−6*
		4141	40 *9*	3769.48	1$^+$				
		4412	25 *7*	3498.49	2$^+$				
		5675	100 *18*	2235.325	2$^+$	M1+E2[c]	+0.7 *3*	0.00156 *4*	α(K)=1.374×10^{-6} *20*; α(L)=9.80×10^{-8} *14*; α(M)=6.46×10^{-9} *9* α(IPF)=0.00156 *4* B(M1)(W.u.)=0.0019 *+20−9*; B(E2)(W.u.)=0.14 *+15−9*
8104.9	(2$^+$,3$^+$)	1190	3 *2*	6914.77	2$^+$				
		2491	5 *3*	5614.05	2$^+$				
		2617	9 *3*	5487.49	3$^-$				
		2873	14 *5*	5231.52	3$^+$				
		3294.9[#] *9*	19 *5*	4810.33	2$^+$				I_γ: weighted average of 17 *5* from (α,pγ) and 28 *11* from (n,γ) E=thermal.
		4335	6 *3*	3769.48	1$^+$				
		5868.8[#] *7*	100 *15*	2235.325	2$^+$				
8156.2	(1,2)	2669	32 *10*	5487.49	3$^-$				I_γ: weighted average of 29 *10* from (α,pγ) and 39 *15* from (n,γ) E=thermal.
		4657	43 *14*	3498.49	2$^+$				
		5920.2[#] *7*	100[#] *14*	2235.325	2$^+$				
8163.22	1$^-$	4375.18[#] *15*	41.6[#] *17*	3787.72	0$^+$				
		4393.43[#] *23*	24.2[#] *14*	3769.48	1$^+$				
		4664.36[#] *12*	38.6[#] *14*	3498.49	2$^+$				
		5927.24[#] *15*	45.7[#] *24*	2235.325	2$^+$				
		8162.01[#] *11*	100[#] *3*	0	0$^+$				
8190	(2$^+$)	2576	18 *6*	5614.05	2$^+$				
		4691	100 *6*	3498.49	2$^+$				

From ENSDF

$^{30}_{14}Si_{16}$-16

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
8193.9	5⁻	970.3[&] *7*	34 *3*	7223.2	4⁺	E1[c]			B(E1)(W.u.)=0.0024 *+11−6*
		1151	6 *1*	7043.17	5⁻	M1+E2	−0.15 *3*	1.974×10^{-5} *28*	α(K)=1.604×10^{-5} *23*; α(L)=1.146×10^{-6} *16*; α(M)=7.55×10^{-8} *11* α(IPF)=2.47×10^{-6} *4* B(M1)(W.u.)=0.0078 *+39−22*; B(E2)(W.u.)=0.61 *+45−27*
		1195	6 *1*	6998.78	5⁺	[E1]		6.48×10^{-5} *9*	B(E1)(W.u.)=2.3×10^{-4} *+11−7* α(K)=9.49×10^{-6} *13*; α(L)=6.78×10^{-7} *9*; α(M)=4.46×10^{-8} *6* α(IPF)=5.46×10^{-5} *8*
		1690.2[&] *5*	100 *6*	6503.42	4⁻				
		2242.7[&] *18*	77 *6*	5950.69	4⁺	[E1]		8.12×10^{-4} *11*	α(K)=3.55×10^{-6} *5*; α(L)=2.53×10^{-7} *4*; α(M)=1.670×10^{-8} *23* α(IPF)=0.000808 *11* B(E1)(W.u.)=4.4×10^{-4} *+21−11*
		2707.5[&] *16*	43 *9*	5487.49	3⁻	[E2]		6.58×10^{-4} *9*	α(K)=4.10×10^{-6} *6*; α(L)=2.92×10^{-7} *4*; α(M)=1.926×10^{-8} *27* α(IPF)=0.000654 *9* B(E2)(W.u.)=2.8 *+14−8* I_γ: Other: 90 *19* in (^{18}O,2nγ).
		2915	20 *3*	5279.25	4⁺	E1+M2[c]	+0.06 *3*	1.20×10^{-3} *2*	α(K)=2.51×10^{-6} *4*; α(L)=1.793×10^{-7} *26*; α(M)=1.181×10^{-8} *17* α(IPF)=0.001197 *17* B(E1)(W.u.)=5.2×10^{-5} *+25−15*; B(M2)(W.u.)=0.10 *+15−8*
8290	(1⁻,2,3)	2802	9 *4*	5487.49	3⁻				
		4791	16 *5*	3498.49	2⁺				
		6054	100 *7*	2235.325	2⁺				
8330		1107	13 *4*	7223.2	4⁺				
		1251	30 *7*	7079	3⁺				
		1331	7 *4*	6998.78	5⁺				
		2716	27 *7*	5614.05	2⁺				
		2842	20 *4*	5487.49	3⁻				
		3051	37 *10*	5279.25	4⁺				
		3499	100 *17*	4830.86	3⁺				
		3519	13 *7*	4810.33	2⁺				
		6094	87 *14*	2235.325	2⁺				
8442	3⁻	2954	16 *4*	5487.49	3⁻				
		4943	100 *11*	3498.49	2⁺				
		6206	63 *11*	2235.325	2⁺				
8537	(3⁺,4⁺)	1538	39 *7*	6998.78	5⁺				
		3305	23 *5*	5231.52	3⁺				
		3726	100 *14*	4810.33	2⁺				
		5038	16 *5*	3498.49	2⁺				
		6301	50 *9*	2235.325	2⁺				

From ENSDF

$^{30}_{14}Si_{16}$-17

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]
8554	3⁻	1913	6.3 *25*	6641.21	2⁻		
		3066	100 *7*	5487.49	3⁻		
		3743	19 *7*	4810.33	2⁺		
8596	4⁻	1373	16 *5*	7223.2	4⁺	D(+Q)	−0.13 *13*
		2645	24 *5*	5950.69	4⁺		
		3108	82 *12*	5487.49	3⁻	D+Q	+0.08 *3*
		3364	100 *12*	5231.52	3⁺	D	
8640	(4⁺)	1775	25 *13*	6865	3⁺		
		3026	25 *13*	5614.05	2⁺		
		5141	100 *25*	3498.49	2⁺		
		6404	100 *25*	2235.325	2⁺		
8673	(1⁻,2⁺)	3185	100 *20*	5487.49	3⁻		
		4903	53 *14*	3769.48	1⁺		
		5174	87 *17*	3498.49	2⁺		
		6437	77 *17*	2235.325	2⁺		
		8672	20 *10*	0	0⁺		
8684	2⁺	1461	11 *4*	7223.2	4⁺		
		1605	21 *8*	7079	3⁺		
		2733	54 *15*	5950.69	4⁺		
		3070	21 *8*	5614.05	2⁺		
		3405	100 *18*	5279.25	4⁺		
		3452	50 *11*	5231.52	3⁺		
		3853	43 *11*	4830.86	3⁺		
		3873	57 *15*	4810.33	2⁺		
8735	0⁺,1,2,3⁺	5236	100 *12*	3498.49	2⁺		
		6499	47 *12*	2235.325	2⁺		
8799	(1,2⁺)	5029	100 *30*	3769.48	1⁺		
		8798	100 *30*	0	0⁺		
8887	(2⁺,3⁻)	6651	100	2235.325	2⁺		
8898.10	1⁻	1390.3[#] *5*	3.7[#] *12*	7507.87	(2⁻)		
		2154.3[#] *6*	7.3[#] *18*	6744.06	1⁻		
		2256.7[#] *4*	12.8[#] *18*	6641.21	2⁻		
		3283.8[#] *3*	22.0[#] *24*	5614.05	2⁺		
		4087.6[#] *5*	20.7[#] *18*	4810.33	2⁺		
		5128.18[#] *17*	100[#] *4*	3769.48	1⁺		
		5398.8[#] *4*	24[#] *3*	3498.49	2⁺		
		6662.00[#] *25*	63[#] *3*	2235.325	2⁺		
		8896.7[#] *3*	31[#] *3*	0	0⁺		
8938	(2⁺)	5168	100 *40*	3769.48	1⁺		

From ENSDF

$^{30}_{14}Si_{16}$-18

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ [‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
8938	(2$^+$)	6702	100 *40*	2235.325	2$^+$				
8953.4	(1,2)	6717.3[#] *8*	89[#] *15*	2235.325	2$^+$				
		8951.9[#] *5*	100[#] *11*	0	0$^+$				
8958.8	(5$^-$)	765	11 *4*	8193.9	5$^-$	(M1+E2)	−0.04 *3*		B(M1)(W.u.)=0.09 *+9−4*; B(E2)(W.u.)=1.1 *+29−10*
		1149	5.6 *19*	7810	4$^+$	[E1]		4.07×10^{-5} *6*	α(K)=1.019×10^{-5} *14*; α(L)=7.28×10^{-7} *10*; α(M)=4.79×10^{-8} *7* α(IPF)=2.97×10^{-5} *4* B(E1)(W.u.)=4.1×10^{-4} *+47−20*
		1346	30 *4*	7613	4$^-$	(M1+E2)	+0.22 *5*	4.16×10^{-5} *7*	α(K)=1.217×10^{-5} *18*; α(L)=8.69×10^{-7} *13*; α(M)=5.73×10^{-8} *9* α(IPF)=2.85×10^{-5} *5* B(M1)(W.u.)=0.041 *+42−16*; B(E2)(W.u.)=5 *+6−3*
		1915.6[&] *7*	93 *12*	7043.17	5$^-$	(M1)		2.18×10^{-4} *3*	α(K)=6.61×10^{-6} *9*; α(L)=4.72×10^{-7} *7*; α(M)=3.11×10^{-8} *4* α(IPF)=0.0002107 *30* B(M1)(W.u.)=0.046 *+46−18* δ: −0.03 *13* (α,pγ).
		1960	19 *4*	6998.78	5$^+$	[E1]		6.19×10^{-4} *9*	B(E1)(W.u.)=2.8×10^{-4} *+29−12* α(K)=4.30×10^{-6} *6*; α(L)=3.07×10^{-7} *4*; α(M)=2.021×10^{-8} *28* α(IPF)=0.000615 *9*
		2455	52 *8*	6503.42	4$^-$	(M1+E2)	−0.13 *3*	4.42×10^{-4} *6*	α(K)=4.46×10^{-6} *6*; α(L)=3.19×10^{-7} *4*; α(M)=2.100×10^{-8} *29* α(IPF)=0.000437 *6* B(M1)(W.u.)=0.012 *+12−5*; B(E2)(W.u.)=0.16 *+20−8*
		3008	15 *4*	5950.69	4$^+$	[E1]		1.25×10^{-3} *2*	α(K)=2.406×10^{-6} *34*; α(L)=1.716×10^{-7} *24*; α(M)=1.131×10^{-8} *16* α(IPF)=0.001245 *17* B(E1)(W.u.)=6×10^{-5} *+6−3*
		3471	48 *8*	5487.49	3$^-$	[E2]		9.83×10^{-4} *14*	α(K)=2.78×10^{-6} *4*; α(L)=1.983×10^{-7} *28*; α(M)=1.307×10^{-8} *18* α(IPF)=0.000980 *14* B(E2)(W.u.)=1.5 *+16−6*
		3679	100 *12*	5279.25	4$^+$	(E1)		1.56×10^{-3} *2*	α(K)=1.872×10^{-6} *26*; α(L)=1.335×10^{-7} *19*; α(M)=8.80×10^{-9} *12* α(IPF)=0.001553 *22* B(E1)(W.u.)=2.2×10^{-4} *+23−9* δ: −0.02 *3* (α,pγ).
8980	(1,2$^+$)	6744	100 *40*	2235.325	2$^+$				
		8979	100 *40*	0	0$^+$				
9035	(1$^+$,2$^+$)	5265	100 *20*	3769.48	1$^+$				
		5536	60 *16*	3498.49	2$^+$				
		9034	40 *12*	0	0$^+$				
9045	(3,4)	2541	48 *17*	6503.42	4$^-$				
		3094	65 *13*	5950.69	4$^+$				
		3557	100 *17*	5487.49	3$^-$				

From ENSDF

$^{30}_{14}Si_{16}$-19

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
9045	(3,4)	3813	29 *10*	5231.52	3^+				
		4214	81 *17*	4830.86	3^+				
9103.73	$(1,2)^-$	998.9[#] *3*	7.1[#] *9*	8104.9	$(2^+,3^+)$				
		2359.57[#] *4*	100[#] *3*	6744.06	1^-				
9106.71	6^-	914.0[&] *13*	2.6 *6*	8193.9	5^-				
		2063.4[&] *1*	100.0 *6*	7043.17	5^-	M1+E2	+0.35 *4*	2.86×10^{-4} *4*	α(K)=5.93×10^{-6} *8*; α(L)=4.23×10^{-7} *6*; α(M)=2.79×10^{-8} *4* α(IPF)=0.000279 *4* B(M1)(W.u.)=0.091 *+31−19*; B(E2)(W.u.)=12.1 *+49−32*
9131	(5^+)	1908	43 *9*	7223.2	4^+				
		2132	100 *11*	6998.78	5^+				
		3180	62 *11*	5950.69	4^+				
		4300	65 *9*	4830.86	3^+				
9167	$(1^+,2,3^+)$	2302	40 *12*	6865	3^+				
		2630	40 *12*	6537	2^+				
		4336	100 *20*	4830.86	3^+				
		4356	40 *20*	4810.33	2^+				
		5397	80 *20*	3769.48	1^+				
		5668	20 *12*	3498.49	2^+				
		6931	80 *24*	2235.325	2^+				
9255	$(2^+,3^+)$	3641	24 *6*	5614.05	2^+				
		4023	48 *6*	5231.52	3^+				
		4444	13 *4*	4810.33	2^+				
		7019	100 *10*	2235.325	2^+				
9308.11	$(1^-,2^-)$	2667.0[#] *6*	16[#] *4*	6641.21	2^-				
		5538.05[#] *24*	100[#] *6*	3769.48	1^+				
		7071.8[#] *7*	19[#] *6*	2235.325	2^+				
9350	4^-	754	13 *5*	8596	4^-				
		1737	63 *25*	7613	4^-				
		2271	10 *5*	7079	3^+				
		2846	40 *15*	6503.42	4^-				
		3862	25 *8*	5487.49	3^-				
		4118	100 *25*	5231.52	3^+				
9362	$(1,2^+)$	9360	100	0	0^+				
9367.0	6^+	2368.0[&] *4*	83 *10*	6998.78	5^+	D+Q	+0.24 *3*		I_γ: other: 100 *7* (^{18}O,2nγ) – presumably the intensity of 2368.0γ and 4088.7γ were switched in 2010St13.
		3418.8[&] *14*	55 *8*	5950.69	4^+	E2		9.62×10^{-4} *13*	α(K)=2.84×10^{-6} *4*; α(L)=2.029×10^{-7} *28*; α(M)=1.337×10^{-8} *19* α(IPF)=0.000958 *13*

From ENSDF

$^{30}_{14}Si_{16}$-20

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	Comments
9367.0	6^+	4088.7[&] *20*	100 *12*	5279.25	4^+	Q	I_γ: other: 72 *10* (^{18}O,2nγ) – presumably the intensity of 4088.7γ and 2368.0γ were switched in 2010St13.
9406	4^+	4174	66 *11*	5231.52	3^+		
		4575	100 *15*	4830.86	3^+		
		4595	21 *9*	4810.33	2^+		
		5907	26 *7*	3498.49	2^+		
9440	1^-	5670	100 *40*	3769.48	1^+		
		9438	100 *40*	0	0^+		
9475	$(2^+,3,4^+)$	2396	50 *20*	7079	3^+		
		4195	100 *20*	5279.25	4^+		
		7239	50 *10*	2235.325	2^+		
9507	(5^-)	2464	6 *3*	7043.17	5^-		
		2508	17 *3*	6998.78	5^+	D	δ: −0.00 *+1−4* (α,pγ).
		3003	6 *3*	6503.42	4^-		
		4019	14 *5*	5487.49	3^-		
		4227	100 *8*	5279.25	4^+	D	δ: −0.00 *+4−10* (α,pγ).
9576	$(1^+,2,3,4^+)$	4745	54 *16*	4830.86	3^+		
		6077	100 *16*	3498.49	2^+		
9597.3	$(1^+,2,3,4^+)$	4766.7[#] *7*	19[#] *6*	4830.86	3^+		
		4786.5[#] *8*	15[#] *6*	4810.33	2^+		
		6098.0[#] *3*	100[#] *9*	3498.49	2^+		
		7361	43 *11*	2235.325	2^+		
9605	$(2,3,4^+)$	4117	43 *12*	5487.49	3^-		
		4373	100 *18*	5231.52	3^+		
		6106	71 *15*	3498.49	2^+		
		7369	71 *15*	2235.325	2^+		
9619.74	(1^-)	9618.08[#] *13*	100[#]	0	0^+		
9648	$(3^-,4)$	2605	38 *8*	7043.17	5^-		
		4160	29 *6*	5487.49	3^-		
		4368	25 *8*	5279.25	4^+		
		4817	100 *12*	4830.86	3^+		
9689	$(0^-,2,3^-)$	2945	100	6744.06	1^-		
9726		6227	100 *13*	3498.49	2^+		
		7490	54 *13*	2235.325	2^+		
9761	$(2^+,3,4^+)$	3810	100 *14*	5950.69	4^+		
		4930	78 *12*	4830.86	3^+		
		6262	22 *7*	3498.49	2^+		
		7525	22 *7*	2235.325	2^+		
9770	1^+	7534	67 *17*	2235.325	2^+		
		9768	100 *17*	0	0^+		

From ENSDF

$^{30}_{14}Si_{16}$-21

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
9773.6	6⁻	1578.7& *6*	79 *6*	8193.9	5⁻	D+Q	+0.26 *5*		I_γ: other: 46 *3* (^{18}O,2nγ).
		2730.5& *8*	100 *9*	7043.17	5⁻	D+Q	+0.10 *3*		I_γ: other: 69 *6* (^{18}O,2nγ).
		2776.1& *16*	30 *6*	6998.78	5⁺	D			I_γ: other: 51 *10* (^{18}O,2nγ). δ: −0.00 *5* (α,pγ).
		3271.6& *10*	94 *9*	6503.42	4⁻	E2		9.02×10^{-4} *13*	α(K)=3.04×10^{-6} *4*; α(L)=2.169×10^{-7} *30*; α(M)=1.430×10^{-8} *20* α(IPF)=0.000899 *13* I_γ: other: 100 *13* (^{18}O,2nγ).
9792.3	1⁻	6004.4# *9*	8# *3*	3787.72	0⁺				
		9790.5# *3*	100# *5*	0	0⁺				
9815		6316	100	3498.49	2⁺				
9882	4⁺	3378	51 *9*	6503.42	4⁻				
		3931	89 *11*	5950.69	4⁺				
		4394	30 *6*	5487.49	3⁻				
		4650	100 *11*	5231.52	3⁺				
9897		2982	83 *24*	6914.77	2⁺				
		5086	67 *17*	4810.33	2⁺				
		6398	100 *20*	3498.49	2⁺				
		7661	83 *17*	2235.325	2⁺				
9955	(4,5)	1418	13 *4*	8537	(3⁺,4⁺)				
		2145	100 *8*	7810	4⁺				
		2956	25 *4*	6998.78	5⁺				
		3090	21 *4*	6865	3⁺				
		4004	11.5 *20*	5950.69	4⁺				
		4675	13 *4*	5279.25	4⁺				
		4723	7.7 *20*	5231.52	3⁺				
9958	(1,2⁺)	7722	100 *11*	2235.325	2⁺				
		9956	54 *11*	0	0⁺				
10027	(2,3,4⁺)	4539	30 *6*	5487.49	3⁻				
		4795	70 *12*	5231.52	3⁺				
		6528	100 *14*	3498.49	2⁺				
10057	4⁺	3553	50 *10*	6503.42	4⁻				
		4106	100 *20*	5950.69	4⁺				
		4777	100 *20*	5279.25	4⁺				
		5226	83 *17*	4830.86	3⁺				
10079	(1⁺,2⁺,3⁺,4⁺)	3164	60 *10*	6914.77	2⁺				
		5248	40 *8*	4830.86	3⁺				
		5268	100 *12*	4810.33	2⁺				
10116	(2⁺,3,4⁺)	4165	75 *13*	5950.69	4⁺				
		4628	100 *15*	5487.49	3⁻				

From ENSDF

$^{30}_{14}Si_{16}$-22

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
10116	(2$^+$,3,4$^+$)	7880	75 *13*	2235.325	2$^+$				
10184	(0$^+$,1,2,3$^+$)	5373	56 *12*	4810.33	2$^+$				
		6414	100 *18*	3769.48	1$^+$				
		7948	67 *14*	2235.325	2$^+$				
10188	5$^-$	1994	15 *8*	8193.9	5$^-$				
		2378	50 *10*	7810	4$^+$	E1[c]		8.97×10^{-4} *13*	α(K)=3.28×10^{-6} *5*; α(L)=2.339×10^{-7} *33*; α(M)=1.541×10^{-8} *22* α(IPF)=0.000894 *13* B(E1)(W.u.)=6×10^{-4} *+6−3*
		3145	100 *15*	7043.17	5$^-$	M1+E2[c]	−0.26 *6*	7.28×10^{-4} *11*	α(K)=3.08×10^{-6} *4*; α(L)=2.200×10^{-7} *31*; α(M)=1.450×10^{-8} *20* α(IPF)=0.000725 *11* B(M1)(W.u.)=0.014 *+17−6*; B(E2)(W.u.)=0.4 *+6−3*
		3189	23 *5*	6998.78	5$^+$				
		3684	63 *10*	6503.42	4$^-$	M1+E2[c]	−0.10 *5*	9.20×10^{-4} *13*	α(K)=2.450×10^{-6} *34*; α(L)=1.747×10^{-7} *24*; α(M)=1.152×10^{-8} *16* α(IPF)=0.000918 *13* B(M1)(W.u.)=0.006 *+7−3*; B(E2)(W.u.)=0.020 *+40−16*
10202.4	(1$^-$)	6432	60 *14*	3769.48	1$^+$				
		7965.8[#] *9*	25[#] *8*	2235.325	2$^+$				
		10200.6[#] *6*	100[#] *13*	0	0$^+$				
10218		5407	100	4810.33	2$^+$				
10275.5		5465	20 *4*	4810.33	2$^+$				
		6487.0[#] *7*	[#]	3787.72	0$^+$				
		6776	13 *4*	3498.49	2$^+$				
		8039	100 *5*	2235.325	2$^+$				
10288	(4$^+$,5$^+$)	3289	100 *8*	6998.78	5$^+$				
		4337	30 *4*	5950.69	4$^+$				
		5008	70 *8*	5279.25	4$^+$				
10305	3$^-$	2692	100 *18*	7613	4$^-$				
		3801	83 *14*	6503.42	4$^-$				
		4691	52 *11*	5614.05	2$^+$				
		5025	59 *11*	5279.25	4$^+$				
		6806	52 *11*	3498.49	2$^+$				
10349	(3$^+$,4)	3350	100 *14*	6998.78	5$^+$				
		4861	30 *6*	5487.49	3$^-$				
		5069	40 *10*	5279.25	4$^+$				
		5518	30 *6*	4830.86	3$^+$				
10355		5544	100 *20*	4810.33	2$^+$				
		6856	75 *15*	3498.49	2$^+$				

From ENSDF

$^{30}_{14}Si_{16}$-23

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
10355		8118	75 *15*	2235.325	2^+				
10397	2^+,3,4,5^+	5117	100 *8*	5279.25	4^+				
		5165	25 *8*	5231.52	3^+				
10420		4469	100	5950.69	4^+				
10449	(0^+,1,2,3^+)	6679	67 *17*	3769.48	1^+				
		8212	100 *17*	2235.325	2^+				
10465	3^+,4,5^+	3466	29 *15*	6998.78	5^+				
		4514	100 *15*	5950.69	4^+				
		5233	71 *15*	5231.52	3^+				
		5634	86 *18*	4830.86	3^+				
10470	1^+	6971	100 *30*	3498.49	2^+				
		10468	100 *30*	0	0^+				
10508	(0^+ to 3^+)	5697	36 *9*	4810.33	2^+				
		6738	45 *11*	3769.48	1^+				
		8271	100 *15*	2235.325	2^+				
10554.5	(6^-)	1047	30.2 *24*	9507	(5^-)				
		1447.9[&] *5*	44 *5*	9106.71	6^-	D+Q	−0.10 *5*		
		1596	7.0 *24*	8958.8	(5^-)				
		3511.0[&] *3*	100 *10*	7043.17	5^-	D+Q	+0.27 *2*		
		3555	42 *5*	6998.78	5^+	D+Q	−0.04 *8*		
		4050	9.3 *24*	6503.42	4^-				
10582	(0^+,1,2,3^+)	6812	100	3769.48	1^+				
10621		7122	100	3498.49	2^+				
10669	(5,4,3^-)	2859	7 *3*	7810	4^+				
		3626	14 *5*	7043.17	5^-				
		4165	100 *8*	6503.42	4^-				
		5389	21 *5*	5279.25	4^+				
10674.8	6^+	3631.4[&] *12*	100 *4*	7043.17	5^-	(E1)		1.54×10^{-3} *2*	B(E1)(W.u.)=1.0×10^{-3} *+11−4* α(K)=1.902×10^{-6} *27*; α(L)=1.356×10^{-7} *19*; α(M)=8.94×10^{-9} *13* α(IPF)=0.001534 *21*
		4171	12.5 *25*	6503.42	4^-	[M2]		8.29×10^{-4} *12*	α(K)=2.71×10^{-6} *4*; α(L)=1.932×10^{-7} *27*; α(M)=1.274×10^{-8} *18* α(IPF)=0.000826 *12* B(M2)(W.u.)=21 *+24−10* exceeds RUL=3.
		5395	12.5 *25*	5279.25	4^+	[E2]		1.60×10^{-3} *2*	α(K)=1.490×10^{-6} *21*; α(L)=1.062×10^{-7} *15*; α(M)=7.00×10^{-9} *10* α(IPF)=0.001600 *22* B(E2)(W.u.)=0.19 *+21−9*
10719.28	7^-	1353.2[&] *13*	7.2[&] *6*	9367.0	6^+	[E1]		1.69×10^{-4} *3*	α(K)=7.66×10^{-6} *11*; α(L)=5.47×10^{-7} *8*;

From ENSDF

$^{30}_{14}Si_{16}$-24

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
									α(M)=3.60×10^{-8} *5* α(IPF)=0.0001612 *24* B(E1)(W.u.)=6×10^{-4} *+6−2*
10719.28	7$^-$	1612.5[&] *1*	95[&] *3*	9106.71	6$^-$	M1+E2[c]	+0.27 *3*	1.11×10^{-4} *2*	α(K)=8.91×10^{-6} *13*; α(L)=6.36×10^{-7} *9*; α(M)=4.19×10^{-8} *6* α(IPF)=0.0001011 *15* B(M1)(W.u.)=0.14 *+13−5*; B(E2)(W.u.)=18 *+17−7*
		3676.7[&] *2*	100[&] *5*	7043.17	5$^-$	E2		1.06×10^{-3} *2*	α(K)=2.55×10^{-6} *4*; α(L)=1.820×10^{-7} *25*; α(M)=1.200×10^{-8} *17* α(IPF)=0.001058 *15* B(E2)(W.u.)=4.4 *+41−16* I_γ: Strongest in (^{18}O,2nγ).
10732	(3$^-$,4$^+$)	2538	20 *10*	8193.9	5$^-$				
		2627	20 *6*	8104.9	(2$^+$,3$^+$)				
		4228	100 *10*	6503.42	4$^-$				
		4781	30 *6*	5950.69	4$^+$				
		5452	30 *6*	5279.25	4$^+$				
10795	(2 to 4)	3930	100 *25*	6865	3$^+$				
		5307	50 *13*	5487.49	3$^-$				
		5563	100 *25*	5231.52	3$^+$				
10805		8568	100	2235.325	2$^+$				
10823	(4,5,6$^+$)	2629	22 *7*	8193.9	5$^-$				
		3600	11 *5*	7223.2	4$^+$				
		3824	11 *5*	6998.78	5$^+$				
		4872	78 *18*	5950.69	4$^+$				
		5543	100 *20*	5279.25	4$^+$				
10835		5603	100	5231.52	3$^+$				
10866	(5,4,3$^-$)	2672	18 *6*	8193.9	5$^-$				
		3823	18 *4*	7043.17	5$^-$				
		4362	27 *6*	6503.42	4$^-$				
		4915	18 *4*	5950.69	4$^+$				
		5586	100 *9*	5279.25	4$^+$				
10975		8738	100	2235.325	2$^+$				
10991	(3$^+$,4,5$^+$)	2454	100 *25*	8537	(3$^+$,4$^+$)				
		3992	100 *50*	6998.78	5$^+$				
		4487	75 *15*	6503.42	4$^-$				
		5040	100 *25*	5950.69	4$^+$				
		5711	75 *15*	5279.25	4$^+$				
		6159	50 *10*	4830.86	3$^+$				
11015	(2$^+$,3,4$^+$)	5064	100 *34*	5950.69	4$^+$				
		5400	67 *34*	5614.05	2$^+$				

From ENSDF

$^{30}_{14}Si_{16}$-25

Adopted Levels, Gammas (continued)

$\gamma(^{30}Si)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ‡	E_f	J^π_f
11038	$(3^-,4,5,6^+)$	3995	100 *35*	7043.17	5^-
		5087	75 *25*	5950.69	4^+
		5758	75 *25*	5279.25	4^+
11073	$(2^+,3,4^+,5,6^+)$	5122	100	5950.69	4^+
11083.5	$(6^-,5^-,4^-)$	1972	17 *5*	9106.71	6^-
		2487	25 *5*	8596	4^-
		3470	17 *9*	7613	4^-
		4040.0& *22*	100 *10*	7043.17	5^-
		4580	8 *4*	6503.42	4^-
11091	$(2^+,3,4^+,5,6^+)$	5811	100	5279.25	4^+
11205		7705	54 *16*	3498.49	2^+
		8968	100 *16*	2235.325	2^+
11210	$(4,5^+)$	1022	43 *15*	10188	5^-
		3400	43 *15*	7810	4^+
		5259	100 *29*	5950.69	4^+
		5978	100 *29*	5231.52	3^+
11250	$4^-,5^-$	1476	17 *7*	9773.6	6^-
		2143	10 *7*	9106.71	6^-
		2291	23 *7*	8958.8	(5^-)
		2920	13 *7*	8330	
		3056	10 *7*	8193.9	5^-
		3637	67 *7*	7613	4^-
		4207	17 *7*	7043.17	5^-
		4251	100 *17*	6998.78	5^+
		4746	17 *7*	6503.42	4^-
		5762	33 *10*	5487.49	3^-
		5970	27 *7*	5279.25	4^+
11268	$(2^+,3,4,5^+)$	5988	54 *12*	5279.25	4^+
		6436	100 *12*	4830.86	3^+
11322	$(2^+,3,4,5^+)$	3512	88 *15*	7810	4^+
		4099	100 *20*	7223.2	4^+
		6090	63 *10*	5231.52	3^+
11348		6068	100	5279.25	4^+
11380		9143	100	2235.325	2^+
11417	$(6^+,4^+)$	4193	21 *4*	7223.2	4^+
		4418	28 *4*	6998.78	5^+
		5466	100 *9*	5950.69	4^+
		6137	26 *4*	5279.25	4^+
11477	$(6^-,5^-)$	922	36 *6*	10554.5	(6^-)
		1703	39 *9*	9773.6	6^-
		2370	67 *15*	9106.71	6^-

$^{30}_{14}Si_{16}$-26

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ [‡]	E_f	J_f^π	Mult.[b]	δ[b]	α[d]	Comments
11477	(6⁻,5⁻)	4433	100 *12*	7043.17	5⁻				
		4478	61 *9*	6998.78	5⁺				
11493	(3⁺,4,5,6⁺)	4269	78 *11*	7223.2	4⁺				
		4494	100 *22*	6998.78	5⁺				
		6213	44 *9*	5279.25	4⁺				
11512	(4⁻,5,6⁺)	2405	100 *17*	9106.71	6⁻				
		6232	67 *17*	5279.25	4⁺				
11539.1	7⁻	1765	42 *6*	9773.6	6⁻	M1+E2	+0.25 *3*	1.63×10^{-4} *2*	α(K)=7.63×10^{-6} *11*; α(L)=5.45×10^{-7} *8*; α(M)=3.59×10^{-8} *5* α(IPF)=0.0001553 *23* B(M1)(W.u.)=0.05 *+6−2*; B(E2)(W.u.)=4 *+6−2*
		2172	42 *6*	9367.0	6⁺	E1[c]		7.65×10^{-4} *11*	α(K)=3.71×10^{-6} *5*; α(L)=2.65×10^{-7} *4*; α(M)=1.746×10^{-8} *24* α(IPF)=0.000761 *11* B(E1)(W.u.)=9×10^{-4} *+10−4* δ: −0.04 *+4−1* in (α,pγ).
		2431.8[&] *11*	86 *6*	9106.71	6⁻	M1[c]		4.30×10^{-4} *6*	α(K)=4.52×10^{-6} *6*; α(L)=3.23×10^{-7} *5*; α(M)=2.128×10^{-8} *30* α(IPF)=0.000425 *6* B(M1)(W.u.)=0.039 *+46−17* I_γ: 35 *6* in (^{18}O,2nγ). δ: −0.03 *3* (α,pγ).
		3345.7[&] *13*	100 *8*	8193.9	5⁻	E2		9.32×10^{-4} *13*	α(K)=2.94×10^{-6} *4*; α(L)=2.096×10^{-7} *29*; α(M)=1.382×10^{-8} *19* α(IPF)=0.000929 *13* B(E2)(W.u.)=7 *+9−3*
		4496	8 *3*	7043.17	5⁻	[E2]		1.34×10^{-3} *2*	α(K)=1.911×10^{-6} *27*; α(L)=1.363×10^{-7} *19*; α(M)=8.99×10^{-9} *13* α(IPF)=0.001340 *19* B(E2)(W.u.)=0.13 *+16−7*
11564	(5,3)	4340	100 *3*	7223.2	4⁺	D			δ: −0.0 *+1−10* (α,pγ).
		6284	11 *3*	5279.25	4⁺				
11661	(4,5,6)	3467	100 *6*	8193.9	5⁻				
		4617	13 *4*	7043.17	5⁻				
		4662	13 *4*	6998.78	5⁺				
11740	(3⁻,4,5)	4696	100 *20*	7043.17	5⁻				
		5236	100 *20*	6503.42	4⁻				
		5789	100 *20*	5950.69	4⁺				
		6460	100 *20*	5279.25	4⁺				
11782	(3⁺,4,5⁺)	4783	100 *7*	6998.78	5⁺				
		6502	20 *4*	5279.25	4⁺				
		6950	13 *4*	4830.86	3⁺				
11840		9603	100	2235.325	2⁺				
11880		4836	100	7043.17	5⁻				

From ENSDF

$^{30}_{14}Si_{16}$-27

Adopted Levels, Gammas (continued)

γ(^{30}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π
12015	(4,5,6$^+$)	4971	67 *11*	7043.17	5$^-$	12831.96	(8$^-$)	2112.7[&] *2*	100 *4*	10719.28	7$^-$
		5016	100 *18*	6998.78	5$^+$			3724.7[&] *3*	37 *7*	9106.71	6$^-$
		6064	56 *11*	5950.69	4$^+$	13202.8	(8$^-$)	2483.4[&] *4*	100	10719.28	7$^-$
12393.7		3286.8[&] *24*	100	9106.71	6$^-$	15191.3	(9$^-$)	2358.9[&] *6*	67 *7*	12831.96	(8$^-$)
12510		3403[&] *3*	100	9106.71	6$^-$			4472.1[&] *6*	100 *7*	10719.28	7$^-$
12714.8		3607.9[&] *15*	100	9106.71	6$^-$	15528.8	(9$^-$)	2696.7[&] *13*	100	12831.96	(8$^-$)

[†] From (α,pγ), except where otherwise noted. Eγ without uncertainty are from level energy difference with recoil energy subtracted. These Eγ were not considered in the least squares fit.

[‡] From (α,pγ), except where otherwise noted. In a few cases the data from (α,pγ) differed compared to that in (^{18}O,2nγ). The evaluators preferred Iγ data in (α,pγ) and possible causes of the deviations are noted. Also Iγ data from the (α,pγ) dataset is also preferred, when more Eγ are reported in the dataset compared to others.

[#] From (n,γ) E=Thermal.

[@] From ^{30}Al β^- decay.

[&] From (^{18}O,2nγ).

[a] From (n,γ) E=Thermal.

[b] From (α,pγ), multipolarities are based on γ-ray linear polarization and angular correlation measurements.

[c] Magnetic or/and electric character assigned by the evaluators based on RUL.

[d] Additional information 2.

[e] Placement of transition in the level scheme is uncertain.

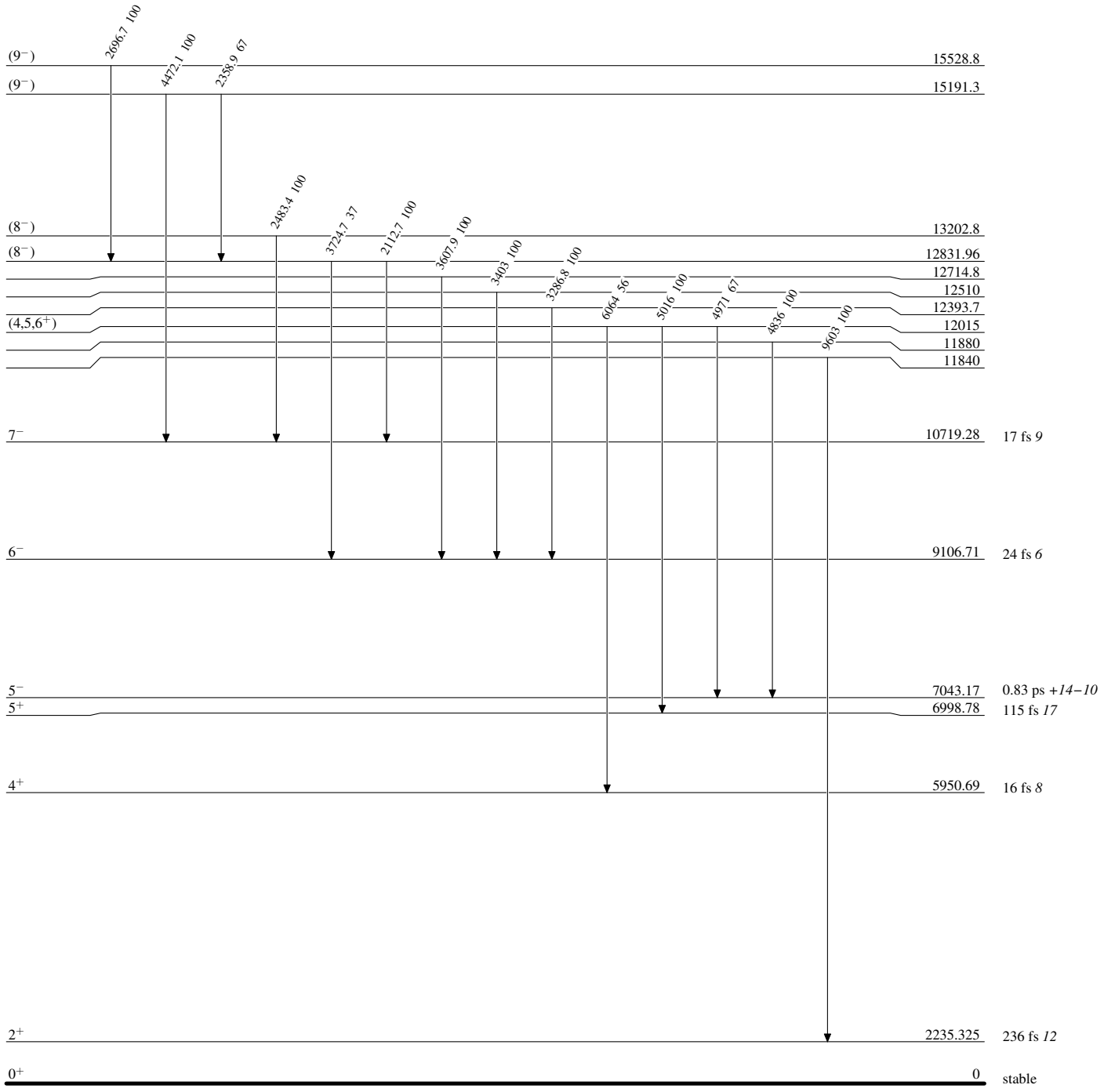
From ENSDF

$^{30}_{14}Si_{16}$-28

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

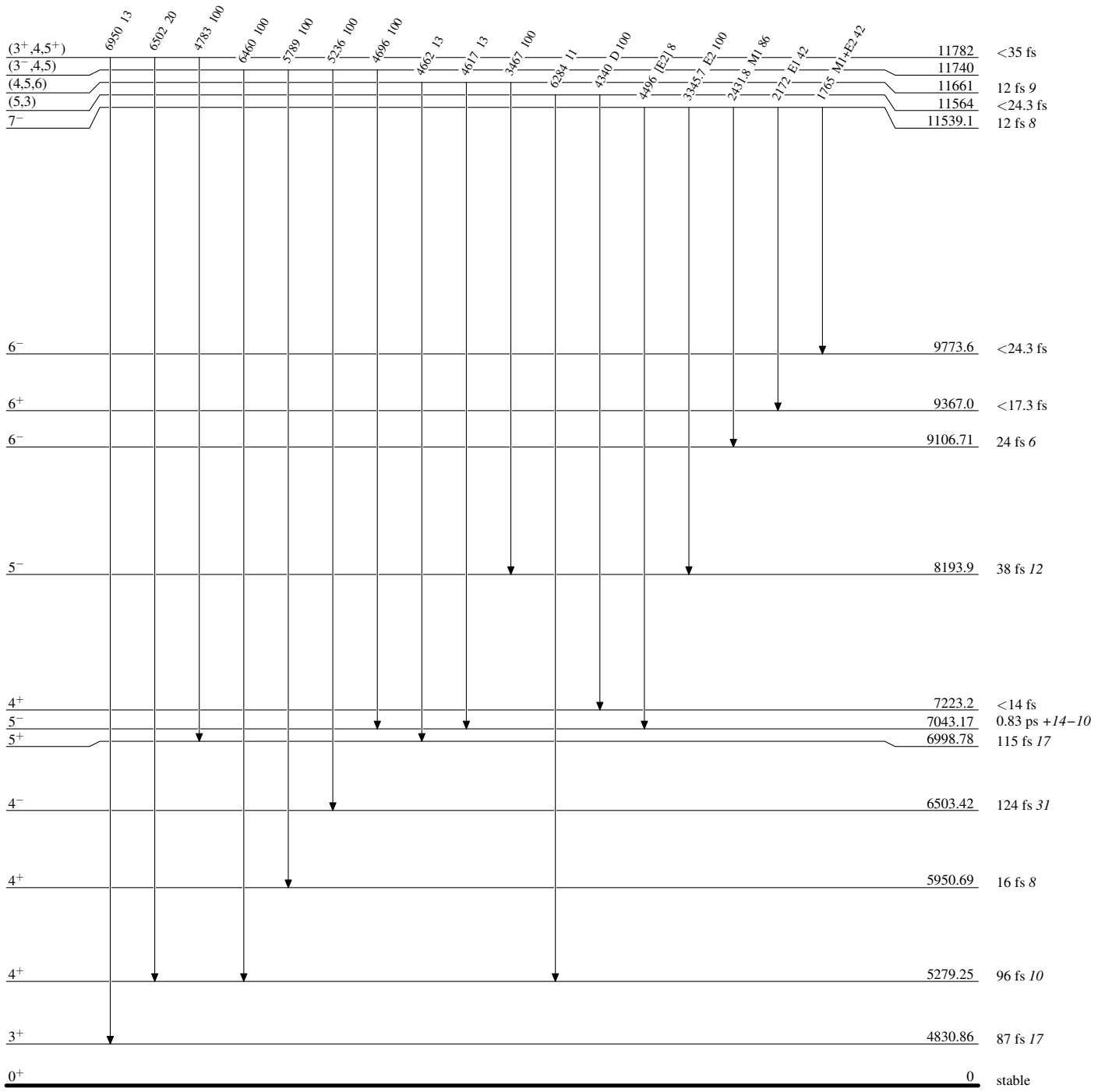


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

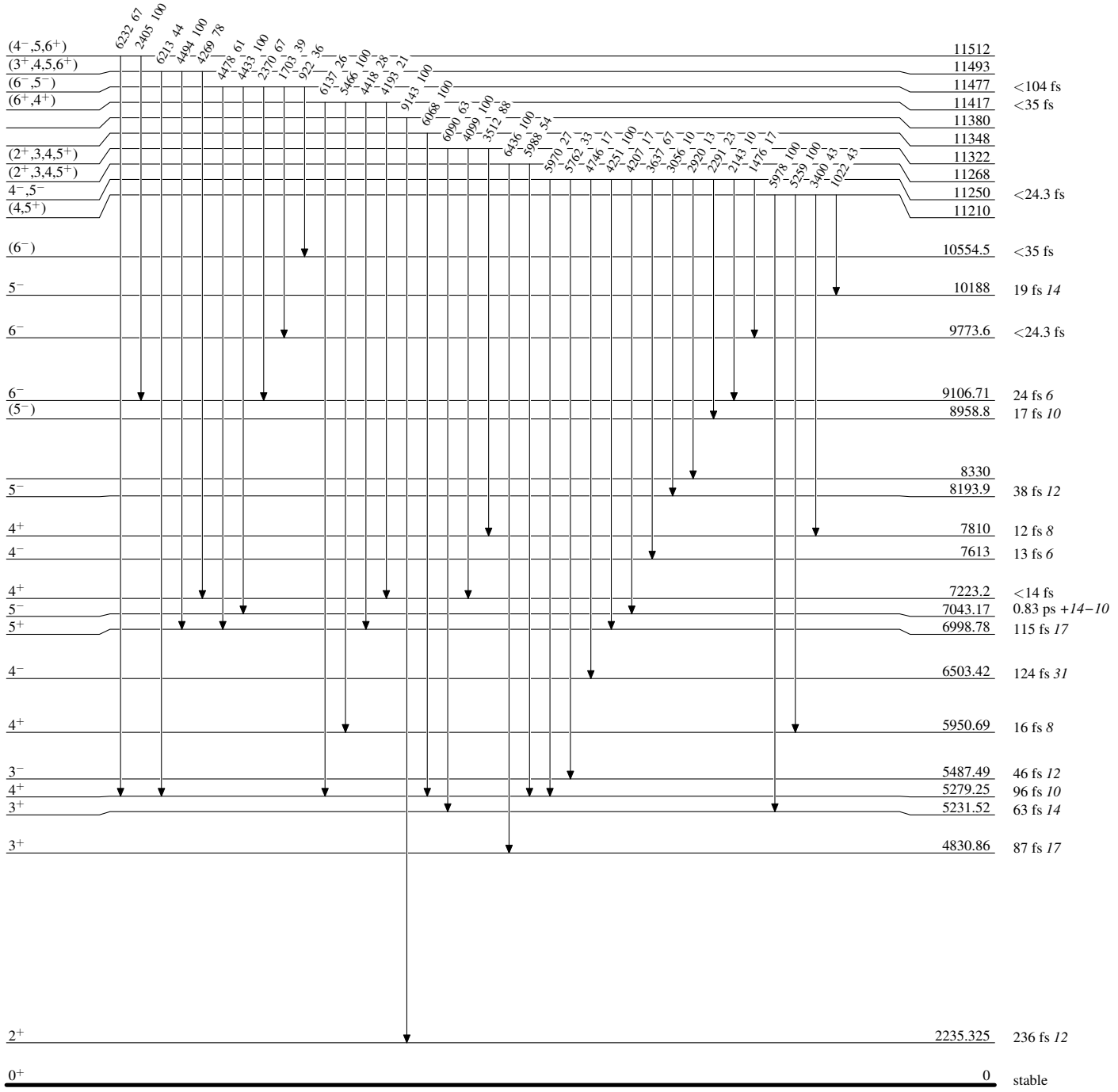


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

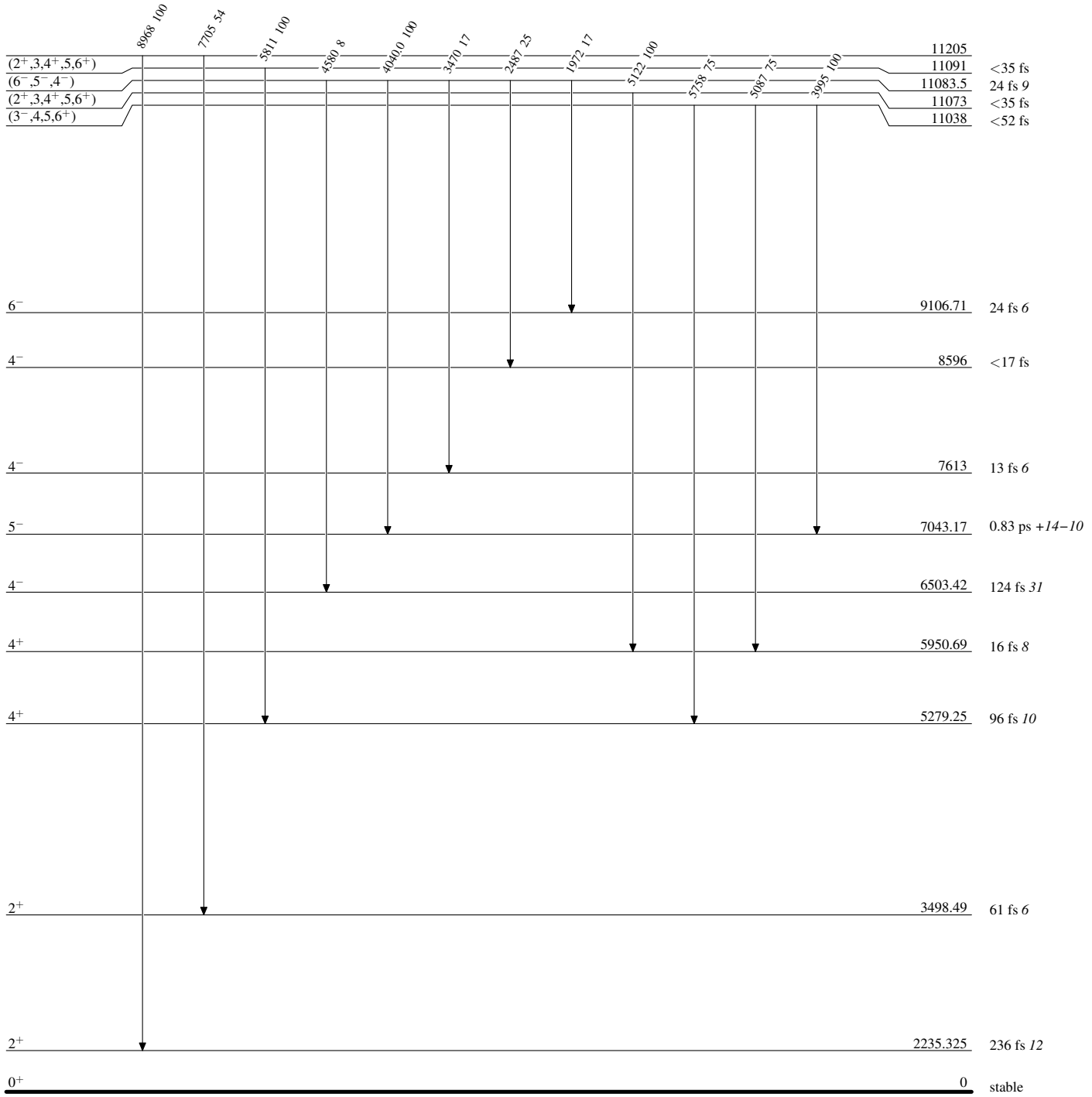


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

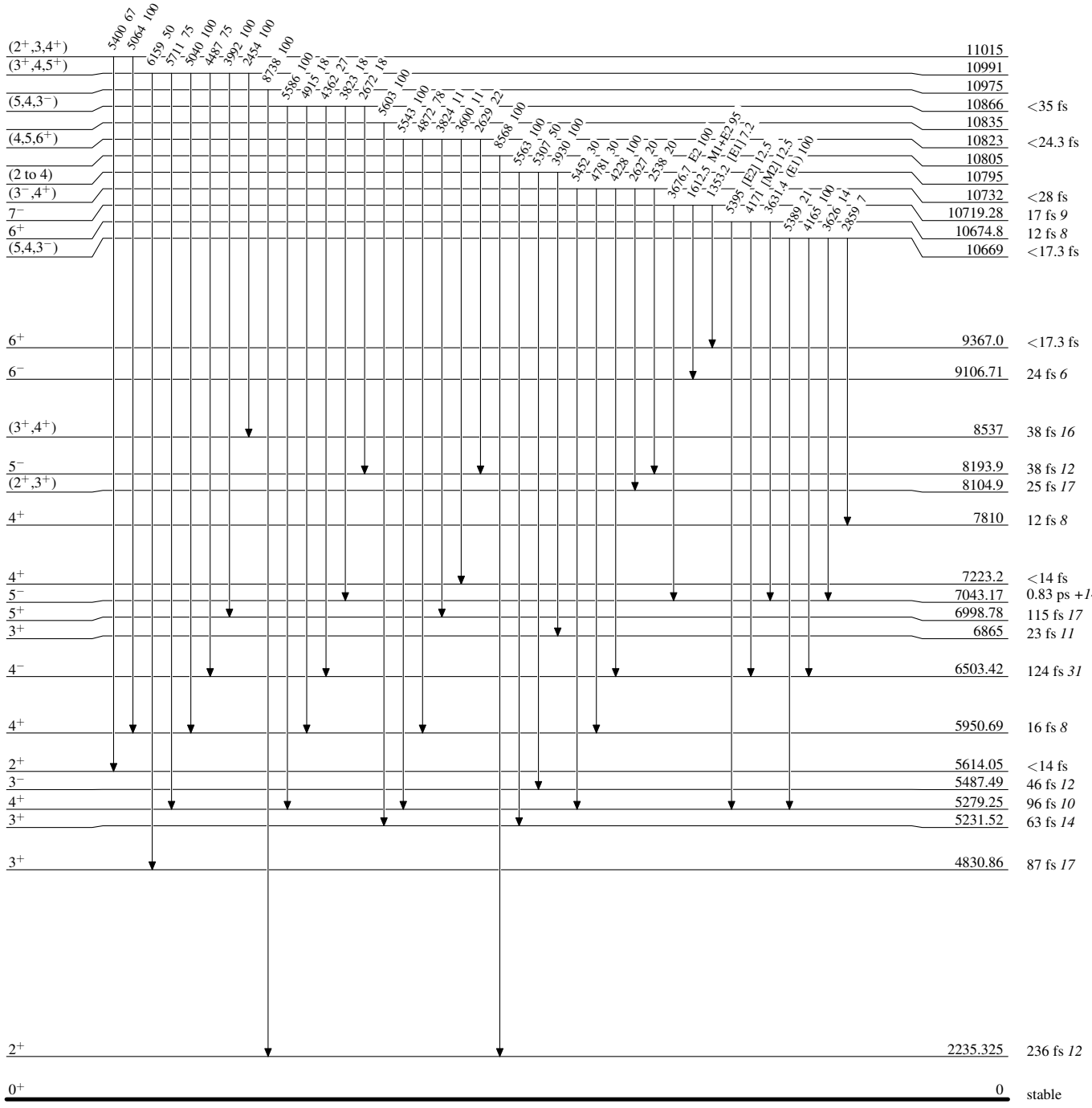


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

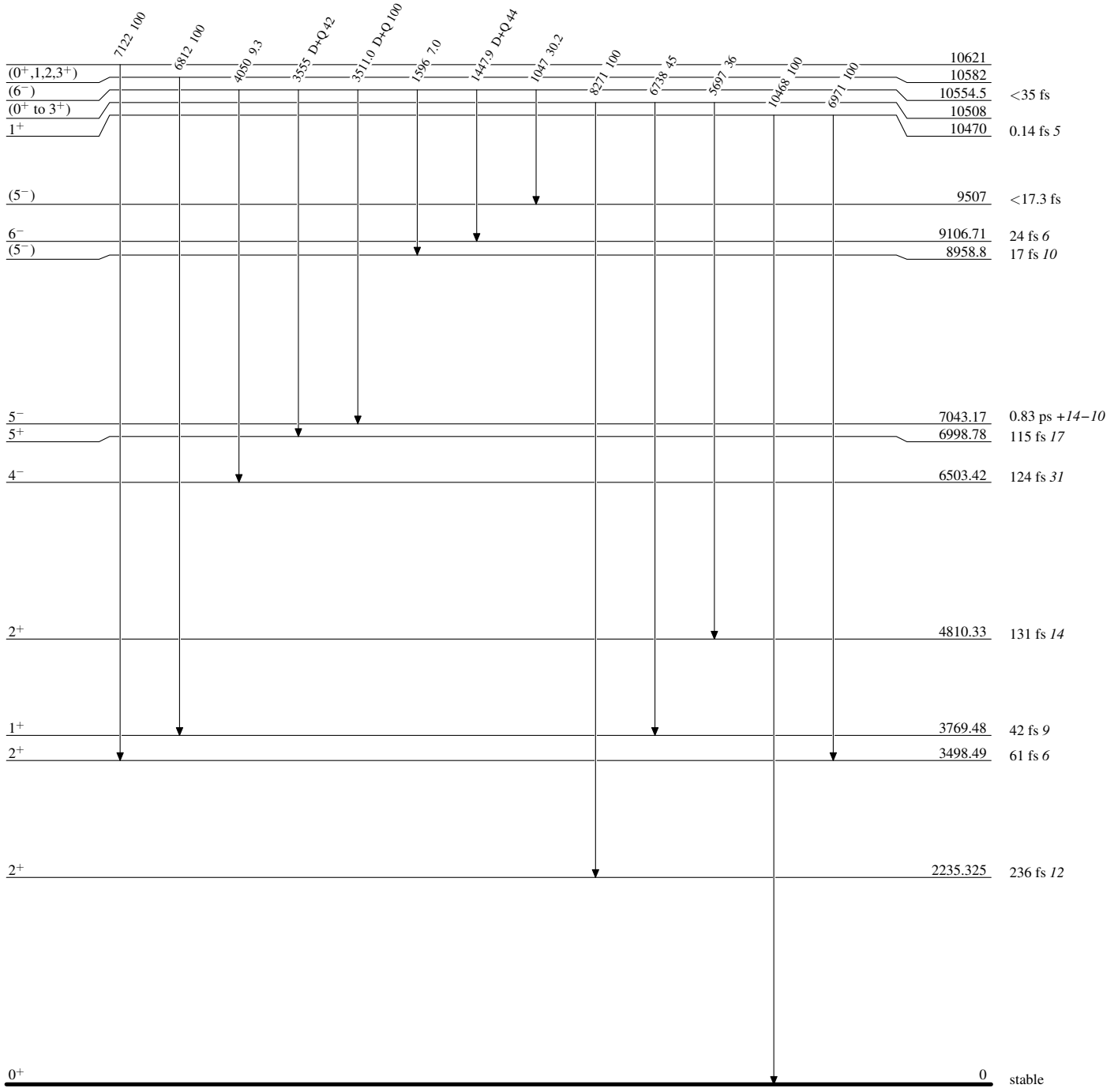


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

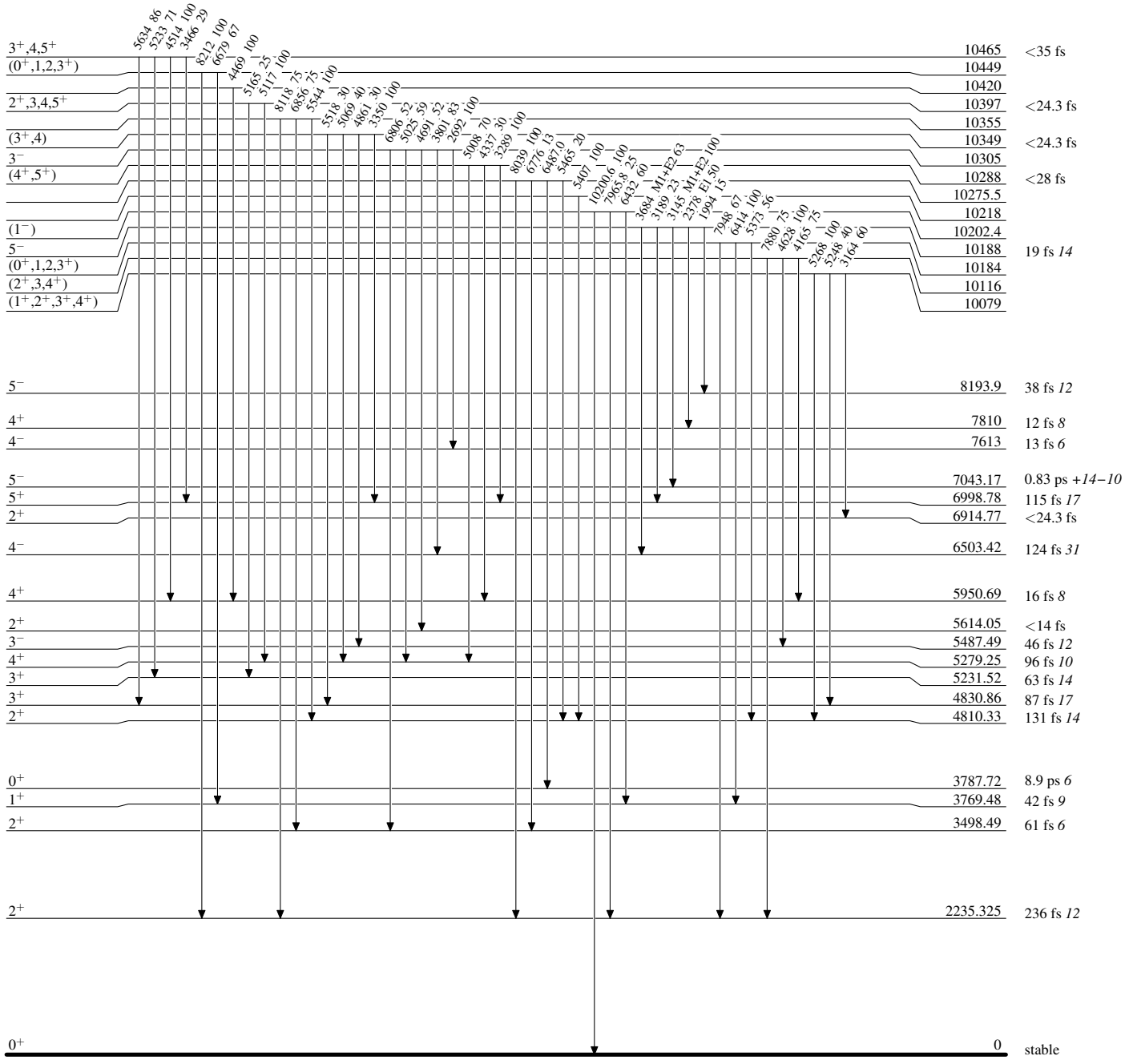


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

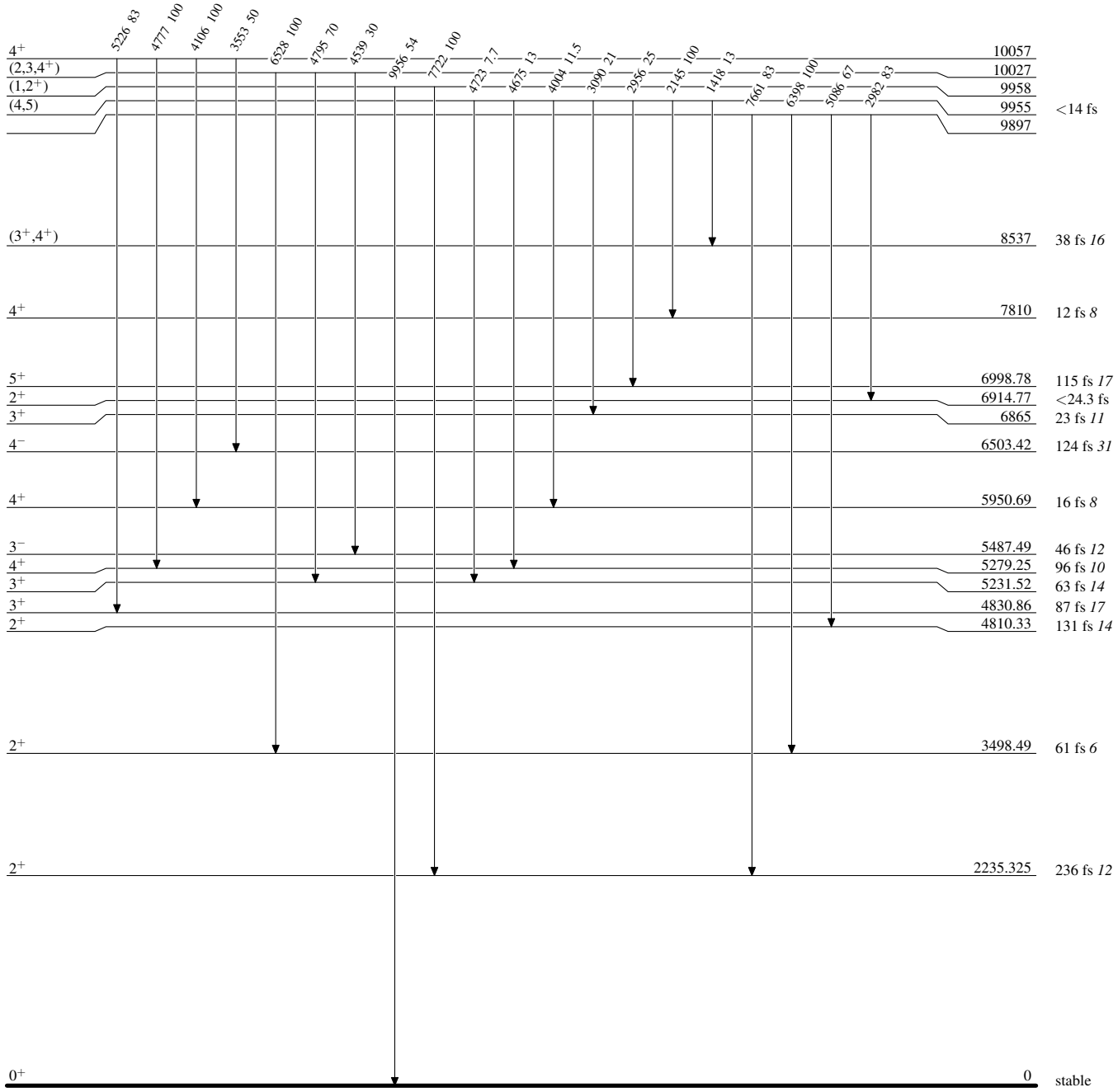


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

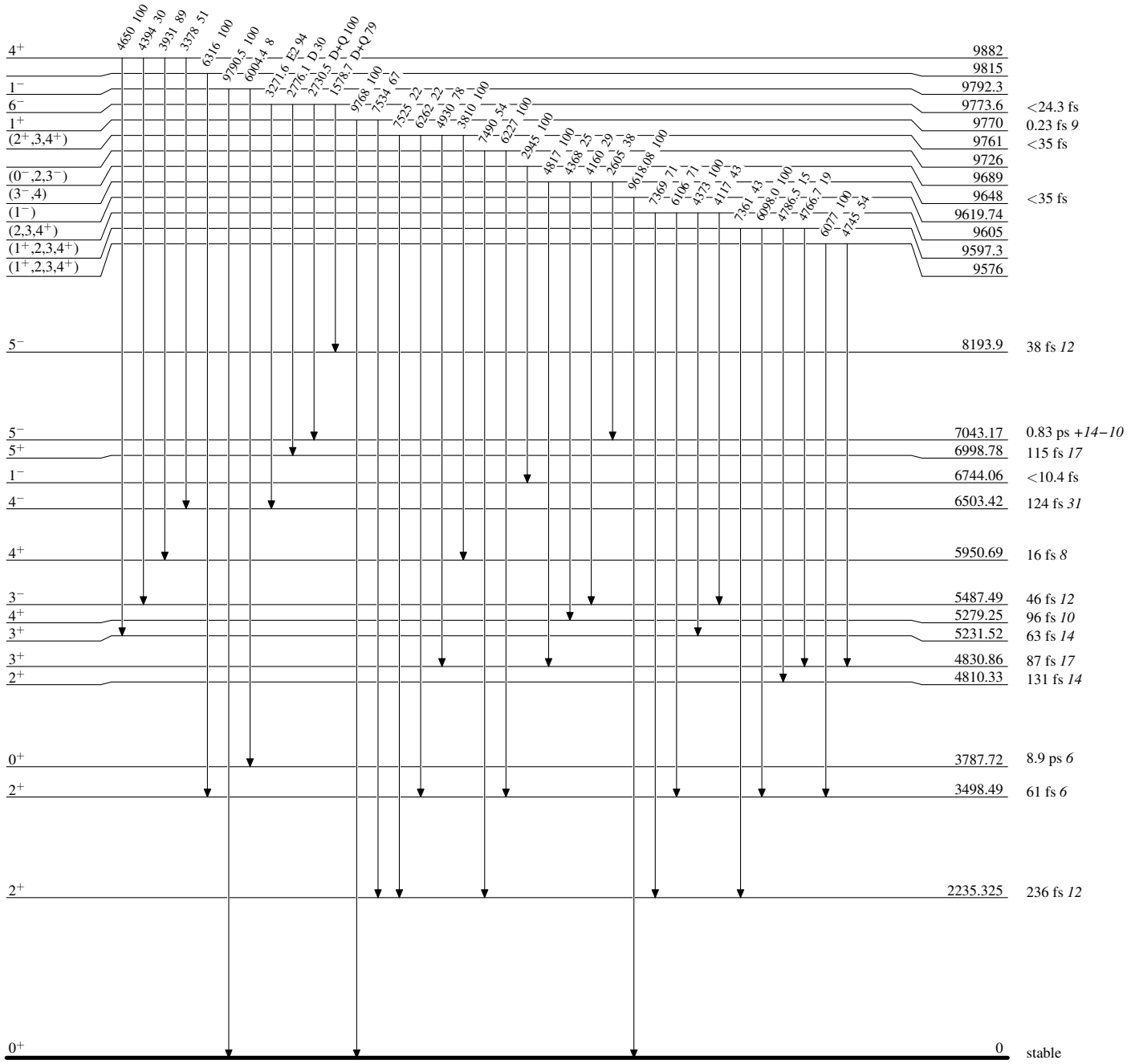


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

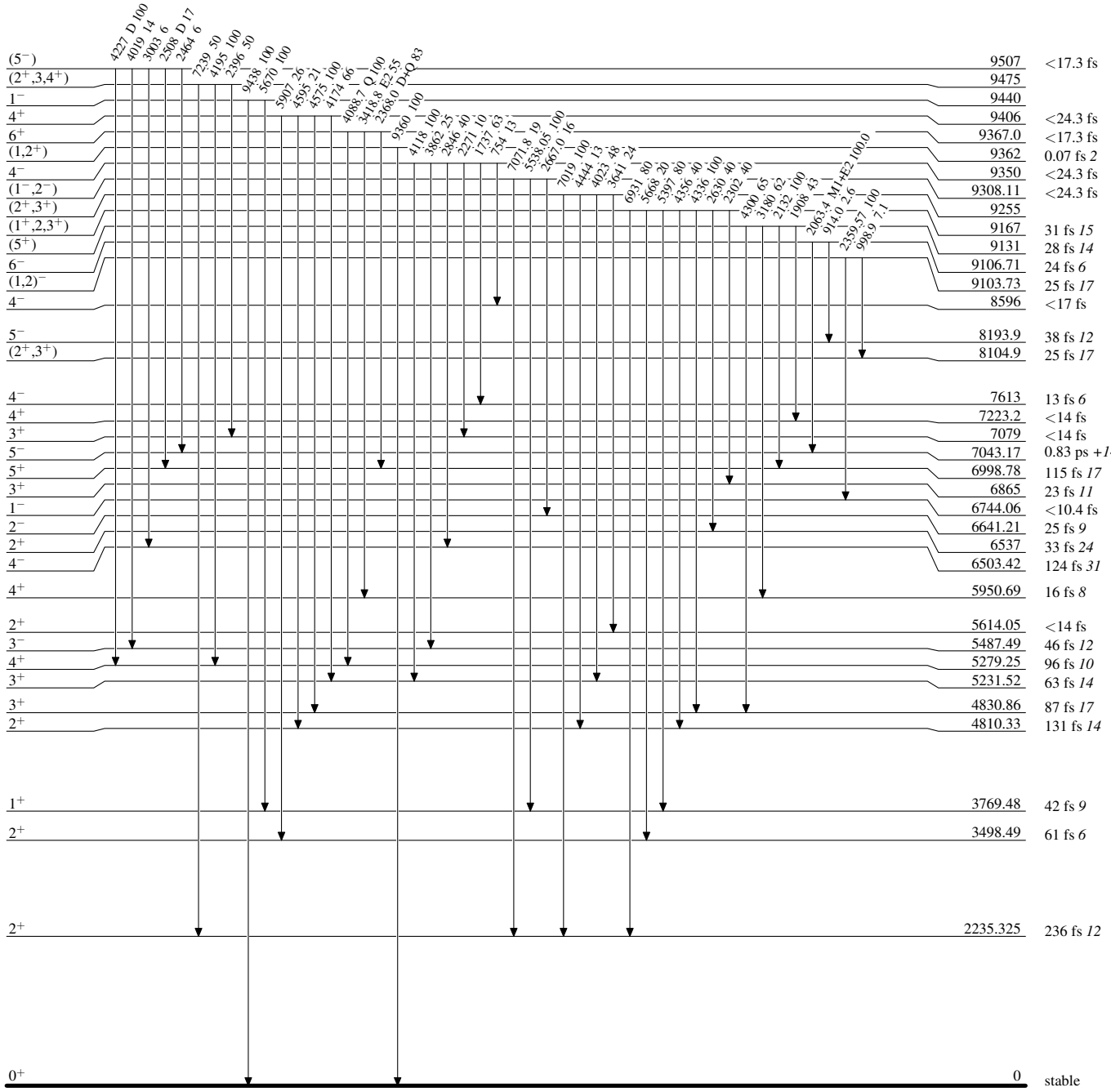


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

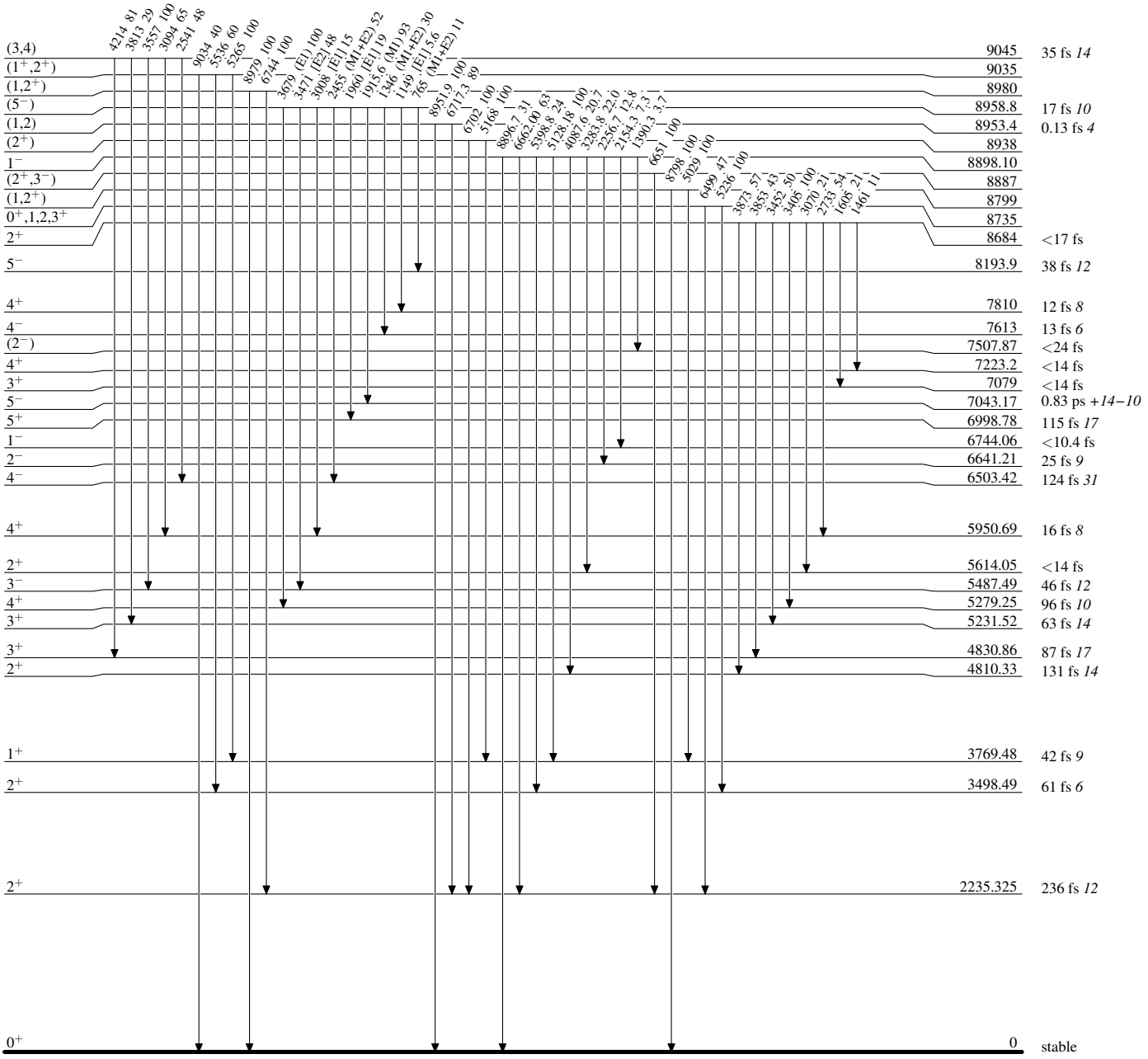


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

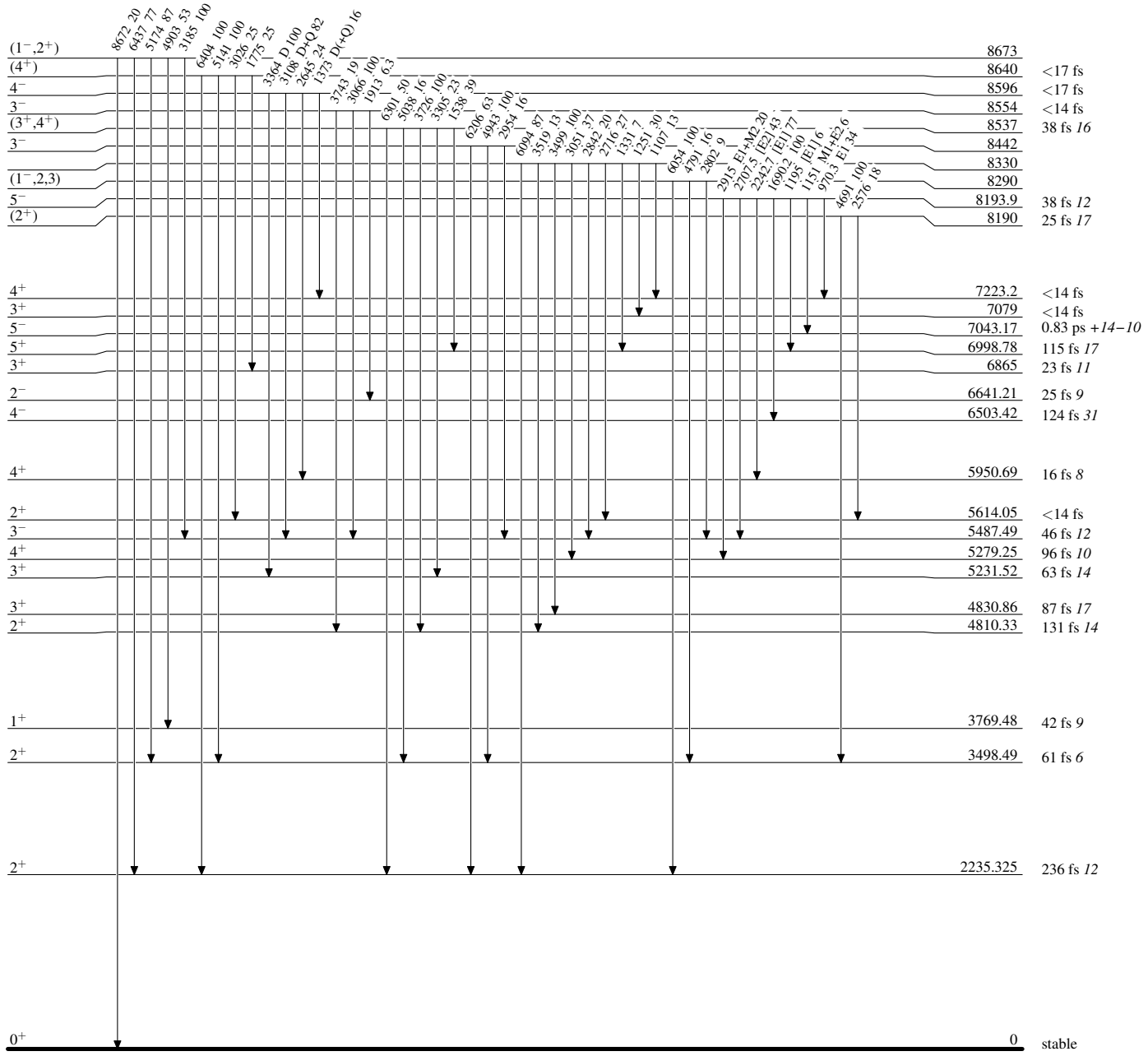


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

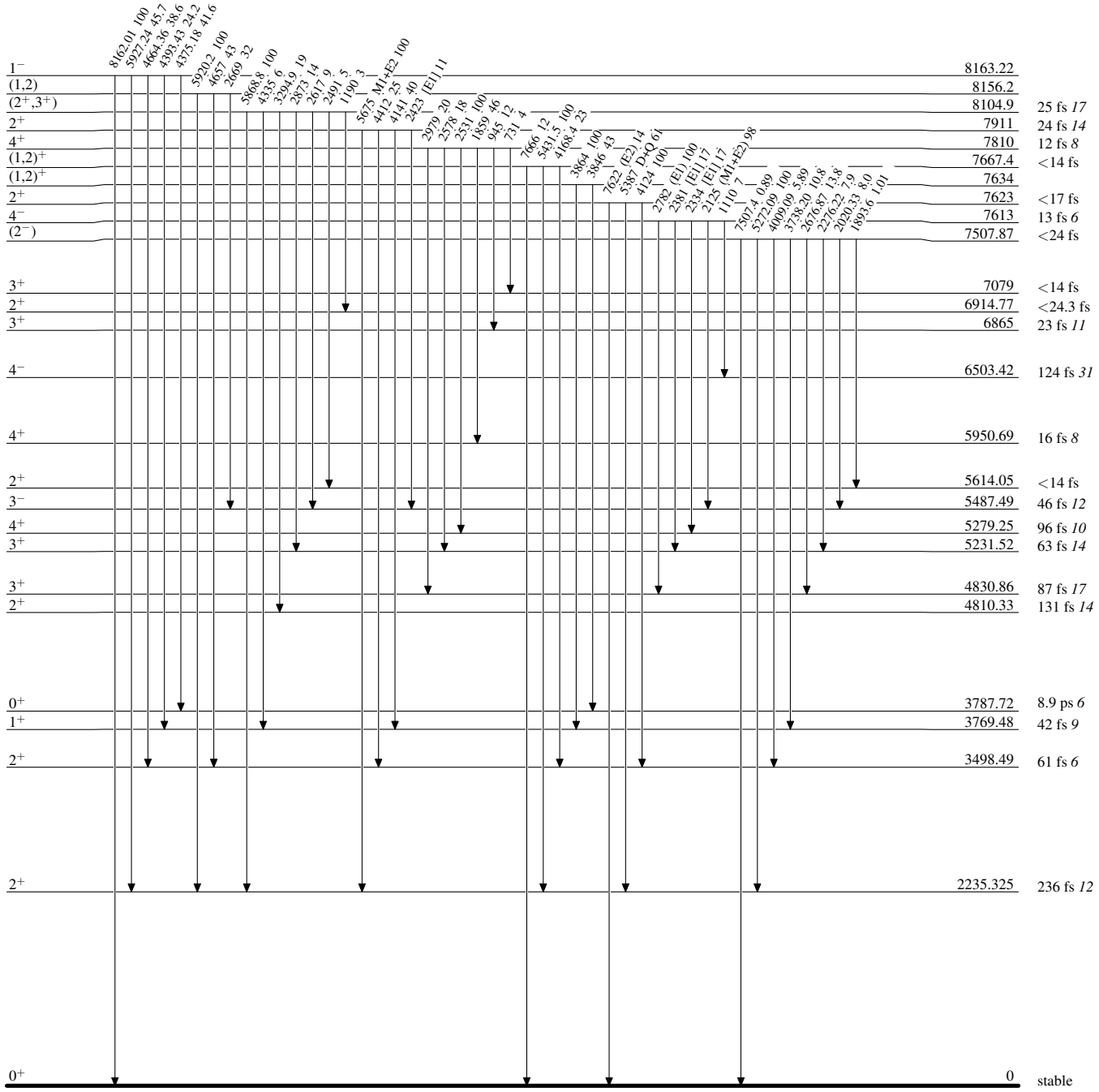


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

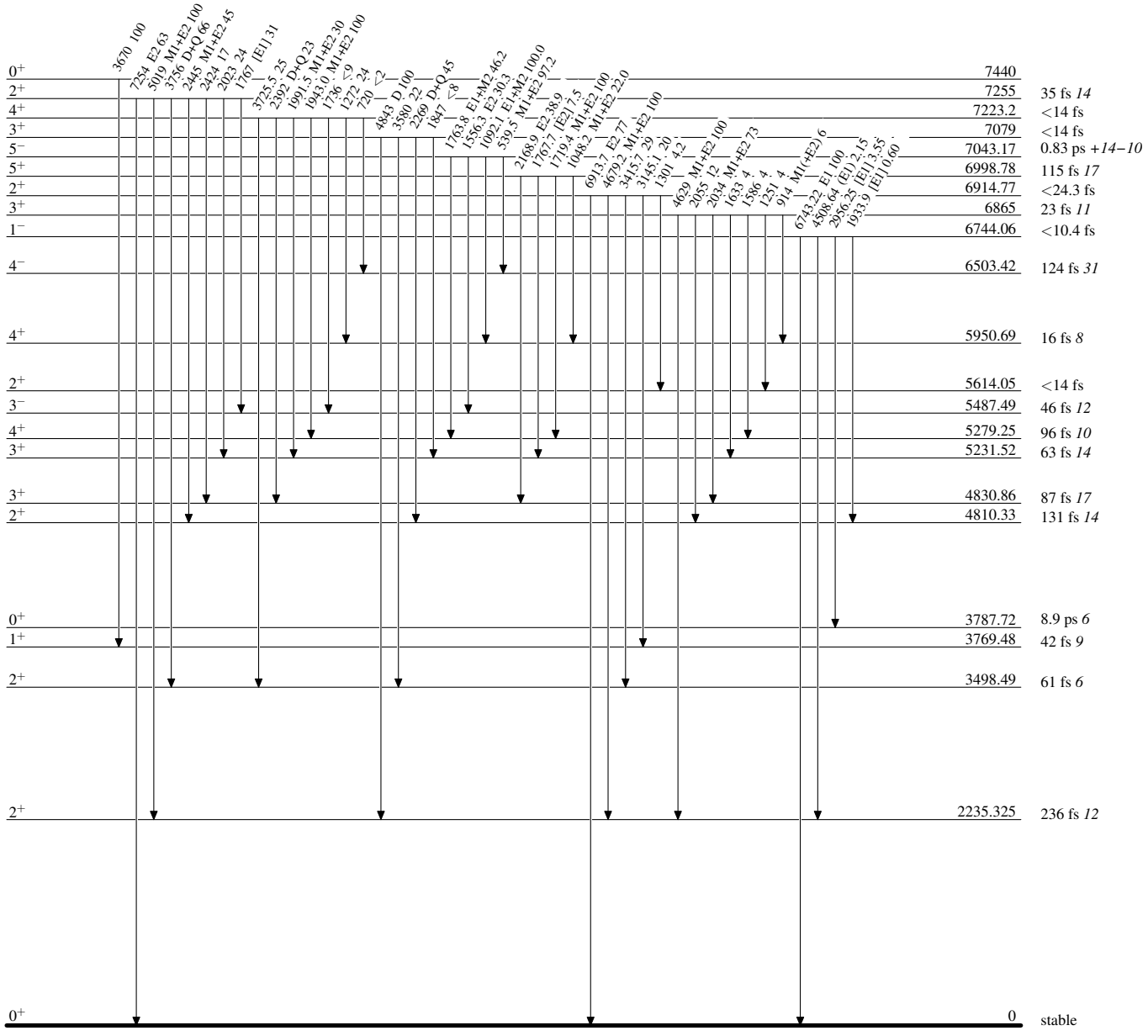


$^{30}_{14}Si_{16}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{30}_{14}Si_{16}$

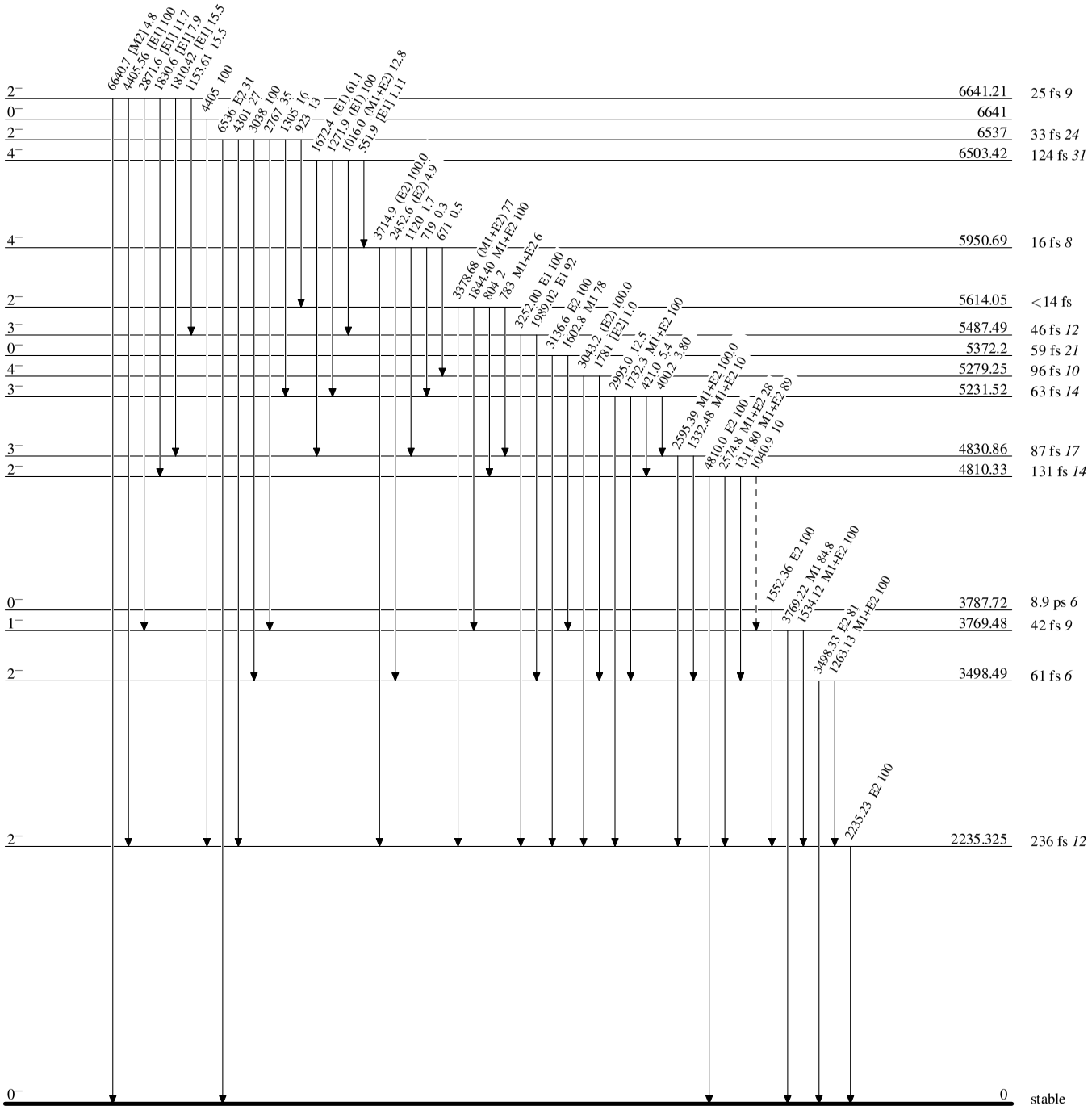
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{30}_{14}Si_{16}$