^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 113, 909 (2012)	1-Jan-2012

$J^\pi(^{28}Si)=0^+$.

Others: 1986Fr05, 1983Pe17, 1980Cl03, 1980Ja12, 1980Ja18, 1980Sc25, 1978Ba65, 1976Te01, 1972El18, 1971Ko21, 1971Me12, 1970Ad06, 1967Be29, 1966Be26.

Other reactions:

^{28}Si(t,d): 1987Pe09.

^{28}Si(^{3}He,2p): 1988Ka05, 1980Va09, 1971St21.

^{28}Si(^{7}Li,^{6}Li): 1984Ec01.

^{28}Si(^{18}O,^{17}O): 1986Fe03.

1990Pi05: ^{28}Si(d,p): Target SiO_2; Projectile: d, E=12.3 MeV; multi-angle magnetic spectrograph, nuclear emulsion plates; measured and analysed proton spectra; deduced level energy.

1982Be52: ^{28}Si(d,pγ), Target: natural Si, Projectile: d, E=6.5,7 MeV; an annular surface barrier detector placed at 180° and Ge(Li) detector placed at 55° with respect to beam direction for 7 MeV beam and at 20, 30, 37.5, 45, 60, 70 and 90° for 6.5 MeV beam; measured proton spectrum, P-γ coincidence, deduced γ-ray correlation coefficient, level energy, spin. Results from ^{26}Mg(α,nγ) and ^{27}Al(^{3}He,pγ) reactions are also reported.

1974Me14: ^{28}Si(d,p), Target: 99.58% enriched ^{28}Si, Projectile: d, E=16 MeV; split-pole magnetic spectrograph; measured proton spectra, FWHM 15 keV, deduced level energy, l_n value, and neutron width.

^{29}Si Levels

E(level)[†]	Jπ[&]	$T_{1/2}$[b]	L[c]	S[f]	Comments
0	1/2+[a]		0	0.37	
1273.31 *17*	3/2+[a]	291 fs *10*	2	0.75	
2028.72 *25*	5/2+[a]	306 fs *10*	2	0.29	
2425.97[‡] *3*		18.4 fs *11*	2		
3066.9 *5*	5/2+[a]	32 fs *2*	2	0.10	
3624.15 *15*	7/2−[a]	2.60 ps *13*	3	0.88	
4080[#] *1*					
4741[#] *1*					
4840.2 *5*	1/2+[a]		0	0.02	
4895[#] *1*			2		
4934.6 *6*	3/2−[a]		1	0.55	
5255[#] *1*					
5286[#] *1*					
5652[#] *1*	9/2+[a]		4	0.13	
5813[#] *1*					
5949.14 *22*	3/2−[a]		2	0.07	
6107[#] *1*	5/2				
6194.14 *12*	7/2−[a]		3	0.30	
6380.82 *6*	1/2−[a]		1	0.26	
6423[#] *1*	7/2+			0.07	
6496.23 *21*	1/2 to 5/2		2[d]		
6522[#] *1*	3/2+,5/2+		2[d]		
6615[#] *1*					
6695.93 *14*	1/2+		0[e]		
6710[#] *1*	5/2+		2		L: For doublet.
6715[#] *1*	3/2+		2		L: For doublet.
6781.1 *7*					
6907.1 *3*	1/2−,3/2−				

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^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14 (continued)

^{29}Si Levels (continued)

E(level)[†]	Jπ[&]	L[c]	S[f]	Comments
6921[#] *1*	7/2			
7014[#] *1*				
7057.81 *17*	1/2+	0[e]		
7072[#] *1*	7/2	(2)[e]		Jπ: 7/2 in 1982Be52 is not consistent with L=(2) value reported in 1983Pe17.
7139[#] *1*				
7181.77 *21*	3/2	2		L: For doublet.
7197[#] *1*	3/2,5/2	2		L: For doublet.
7521[#] *1*	1/2,3/2			
7622.1 *8*	5/2−,7/2−	(3)	0.04	L: L=(3) from 1983Pe17. Other: L=2 (1972El18).
7692.0 *4*	1/2,3/2	0,2		L: L=0 (1983Pe17), L=2 (1972El18).
7767 *1*	3/2,5/2			
7787 *1*	7/2+	2		Jπ: not consistent with L=2.
7892 *1*				
7987 *1*				L: For doublet (1983Pe17).
7995 *1*	3/2−	1		L: For doublet (1983Pe17).
8138 *1*	1/2 to 5/2			
8161 *1*	3/2 to 7/2			
8173 *1*	11/2+			
8209 *1*	3/2+			
8270 *1*	3/2 to 9/2	3		
8290 *5*				
8331 *1*	5/2,9/2			
8349 *1*	3/2 to 7/2			
8371 *1*				
8418 *1*	3/2			
8476 *1*				
8505 *1*	3/2+,5/2+	2		L: From 1972El18.
8540 *1*				
8557 *2*				
8603 *2*				
8609[@] *2*	(9/2,13/2)			
8610[@] *2*	5/2,9/2+			
8622 *2*	3/2 to 7/2			
8641 *2*	13/2			
8670 *2*	7/2 to 11/2			
8762 *2*				
8854 *2*				
8865 *2*	7/2 to 11/2			
8909 *2*				
8959 *2*				
9151 *2*				
9157 *2*				
9219 *2*				
9252 *2*				
9298 *2*				
9326 *2*	7/2 to 11/2			
9392 *2*				
9413 *2*				
9518 *2*				
9667 *2*				
9683 *2*				
9765 *2*				
9779 *2*				
9850 *2*				
9943 *2*				

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^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14 (continued)

^{29}Si Levels (continued)

E(level)†	E(level)†	E(level)†
9952 *2*	10083 *2*	10213 *2*
9987 *2*	10131 *2*	10236 *2*
10006 *2*	10170 *2*	10252 *2*

† Up to 7692 keV from 1990Pi05, except otherwise noted. Above 7692 keV from 1982Be52.
‡ From Adopted Levels.
# From 1982Be52.
@ 8609 and 8610 keV levels were indistinguishable experimentally, the level energy has been presented in 1982Be52, based on conflicting γ-decay mode from the ^{26}Mg(α,nγ) reactions with 12 and 14 MeV beam energies.
& Assigned in 1982Be52, except otherwise noted, based on γ-ray correlation coefficient measurements and other studies. Assignments in 1982Be52 for levels below 6 MeV and 6194-, 6380-, 6615-, 6781-, 7014-, 7139-, 8505 MeV levels were taken from 1978En02 and are not quoted in this dataset.
a From Adopted Levels.
b From 1980Sc25 (by Doppler Shift Attenuation Method).
c From 1966Be26, 1971Me12, 1971Ko21, 1972El18, 1975Ha13, 1967De17, and 1970Mc12, except otherwise noted.
d For 6500 and 6520 keV doublet (1970De31).
e From 1983Pe17.
f From 1972El18. For other spectroscopic factors please see 1966Be26, 1971Me12, 1971Ko21, 1983Pe17.

γ(^{29}Si)

Correlation coefficients A_2 and A_4 are from 1982Be52.

E_i(level)	J_i^π	E_γ†	I_γ	E_f	J_f^π
1273.31	3/2+	1273.25	100	0	1/2+
2028.72	5/2+	755.4	5 *1*	1273.31	3/2+
		2028.57	95 *1*	0	1/2+
2425.97		397.29	1.0 *5*	2028.72	5/2+
		1152.66	13 *1*	1273.31	3/2+
		2425.80	86 *2*	0	1/2+
3066.9	5/2+	640.9	2 *1*	2425.97	
		1038.1	20 *3*	2028.72	5/2+
		1793.5	78 *4*	1273.31	3/2+
3624.15	7/2−	1198.08	11 *2*	2425.97	
		1595.3	87 *3*	2028.72	5/2+
		2350.64	2 *1*	1273.31	3/2+
4080		2051	44 *3*	2028.72	5/2+
		2806	56 *3*	1273.31	3/2+
4741		661	5 *1*	4080	
		2712	95 *1*	2028.72	5/2+
4840.2	1/2+	2414.0	8 *1*	2425.97	
		3566.4	11 *1*	1273.31	3/2+
4895		1828	3.0 *5*	3066.9	5/2+
		2469	5.0 *5*	2425.97	
		2866	19 *2*	2028.72	5/2+
		3621	55 *4*	1273.31	3/2+
		4894	18 *2*	0	1/2+
4934.6	3/2−	3660.8	5 *3*	1273.31	3/2+

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^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14 (continued)

γ(^{29}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[‡]	δ[#]	Comments
4934.6	3/2⁻	4933.7	95 *5*	0	1/2⁺			
5255		1630.7	100	3624.15	7/2⁻			
5286		2219	13 *1*	3066.9	5/2⁺			
		2859.7	11 *1*	2425.97				
		3256.9	64 *3*	2028.72	5/2⁺			
		4012.1	11 *1*	1273.31	3/2⁺			
5652	9/2⁺	911	10 *1*	4741				
		1572	48 *3*	4080				
		2585	41 *3*	3066.9	5/2⁺			
5813		2745.8	54 *3*	3066.9	5/2⁺			
		3386.6	23 *3*	2425.97				
		3783.8	23 *3*	2028.72	5/2⁺			
5949.14	3/2⁻	2882	27 *3*	3066.9	5/2⁺			
		3523	20 *2*	2425.97				
		3920	16 *2*	2028.72	5/2⁺			
		4675	25 *3*	1273.31	3/2⁺			
		5948	12 *2*	0	1/2⁺			
6107	5/2	2482.6	7 *1*	3624.15	7/2⁻			
		3680.5	30 *2*	2425.97				A_2=−0.17 *5*, A_4=−0.10 *8*.
		4077.7	63 *3*	2028.72	5/2⁺	D+Q	−0.4 *+3−1*	A_2=0.03 *6*, A_4=−0.03 *6*.
6194.14	7/2⁻	939.1	2.0 *4*	5255				
		2569.8	4.0 *4*	3624.15	7/2⁻			
		4164.8	94 *1*	2028.72	5/2⁺			
6380.82	1/2⁻	3954.23	13 *1*	2425.97				
		5106.55	21 *2*	1273.31	3/2⁺			
		6379.32	66 *3*	0	1/2⁺			
6423	7/2⁺	3355.7	40 *4*	3066.9	5/2⁺			A_2=−0.21 *4*, A_4=0.05 *7*.
		4393.6	60 *4*	2028.72	5/2⁺	D+Q	−0.32 *+24−19*	A_2=−0.59 *5*, A_4=−0.01 *7*.
6496.23	1/2 to 5/2	4070	40 *3*	2425.97				
		4467	28 *3*	2028.72	5/2⁺			A_2=0.14 *11*, A_4=−0.26 *17*.
		6495	32 *3*	0	1/2⁺			
6522	3/2⁺,5/2⁺	4095.4	29 *2*	2425.97				
		4492.5	12 *2*	2028.72	5/2⁺			
		5247.7	38 *3*	1273.31	3/2⁺			
		6520.4	21 *3*	0	1/2⁺			
6615		2990.5	29 *2*	3624.15	7/2⁻			
		4585.5	71 *2*	2028.72	5/2⁺			
6695.93	1/2⁺	1761.2	10 *2*	4934.6	3/2⁻			A_2=0.05 *7*, A_4=0.04 *11*.
		5421.54	10 *2*	1273.31	3/2⁺			
		6694.28	80 *4*	0	1/2⁺			A_2=−0.14 *3*, A_4=0.02 *5*.
6710	5/2⁺	1814.9	7 *1*	4895		D+Q	<+0.14	A_2=0.76 *13*, A_4=−0.05 *12*.
		3085.5	8 *1*	3624.15	7/2⁻			
		3642.6	37 *3*	3066.9	5/2⁺			
		4680.5	13 *3*	2028.72	5/2⁺	D+Q	+0.5 *+6−3*	A_2=0.14 *8*, A_4=0.24 *13*.
		5435.6	35 *3*	1273.31	3/2⁺			
6715	3/2⁺	4288.3	17 *1*	2425.97				
		6713.3	83 *1*	0	1/2⁺			A_2=−0.38 *7*, A_4=0.02 *10*.
6781.1		1526.0	49 *2*	5255				
		3156.6	51 *2*	3624.15	7/2⁻			
6907.1	1/2⁻,3/2⁻	1972.4	5 *1*	4934.6	3/2⁻			
		3839.7	14 *1*	3066.9	5/2⁺			
		4480.4	28 *2*	2425.97				
		5632.6	36 *3*	1273.31	3/2⁺			A_2=0.12 *6*, A_4=−0.27 *9*.
		6905.4	16 *1*	0	1/2⁺			A_2=−0.32 *10*, A_4=0.08 *16*.
6921	7/2	4891.4	100	2028.72	5/2⁺	D+Q	−0.16 *5*	A_2=−0.72 *6*, A_4=0.16 *11*.
7014		3389.4	7 *1*	3624.15	7/2⁻			

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^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14 (continued)

γ(^{29}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[‡]	δ[#]	Comments
7014		3946.5	8 *1*	3066.9	5/2$^+$			
		4587.2	30 *3*	2425.97				
		4984.4	5 *1*	2028.72	5/2$^+$			
		5739.5	49 *3*	1273.31	3/2$^+$			
7057.81	1/2$^+$	2123.0	6 *1*	4934.6	3/2$^-$			
		4631.01	9.0 *5*	2425.97				
		5783.27	5 *1*	1273.31	3/2$^+$			
		7055.98	80 *2*	0	1/2$^+$			A_2=−0.04 *4*, A_4=−0.06 *6*.
7072	7/2	5042.4	100	2028.72	5/2$^+$	D+Q	−0.19 *+3−5*	A_2=−0.68 *4*, A_4=−0.11 *5*.
7139		1486.9	20 *2*	5652	9/2$^+$	D+Q	−0.29 *+4−6*	A_2=0.22 *7*, A_4=0.04 *4*.
		2397.8	25 *2*	4741				
		3058.7	55 *3*	4080				
7181.77	3/2	4755	9 *2*	2425.97				
		5152	74 *4*	2028.72	5/2$^+$			
		7180	17 *2*	0	1/2$^+$			A_2=−0.05 *7*, A_4=−0.24 *12*.
7197	3/2,5/2	4129.5	40 *5*	3066.9	5/2$^+$			
		4770.2	16 *2*	2425.97				A_2=−0.47 *7*, A_4=−0.28 *11*.
		5167.3	44 *5*	2028.72	5/2$^+$			
7521	1/2,3/2	5094.0	64 *6*	2425.97				A_2=0.09 *8*, A_4=0.00 *10*.
		6246.3	20 *3*	1273.31	3/2$^+$			
		7518.9	16 *3*	0	1/2$^+$			
7622.1	5/2$^-$,7/2$^-$	3997.3	76 *3*	3624.15	7/2$^-$	D+Q	−0.36 *+6−14*	A_2=0.31 *4*, A_4=0.00 *6*.
		4554.4	4.0 *5*	3066.9	5/2$^+$			
		5592.2	20 *2*	2028.72	5/2$^+$			
7692.0	1/2,3/2	2757.1	8 *1*	4934.6	3/2$^-$			
		7689.8	92 *1*	0	1/2$^+$			A_2=−0.07 *9*, A_4=−0.01 *14*.
7767	3/2,5/2	6492.1	100	1273.31	3/2$^+$			A_2=−0.31 *9*, A_4=−0.14 *13*.
7787	7/2$^+$	1171.9	2.0 *5*	6615				
		1973.9	4.0 *5*	5813				
		2500.8	16 *1*	5286				A_2=0.47 *7*, A_4=−0.17 *11*.
		3045.7	21 *2*	4741				A_2=−0.39 *7*, A_4=0.28 *9*.
		3706.5	8 *1*	4080				
		5757.1	48 *5*	2028.72	5/2$^+$			A_2=−0.33 *8*, A_4=0.36 *11*.
7892		5464.9	30 *3*	2425.97				
		5862.0	19 *2*	2028.72	5/2$^+$			
		6617.1	51 *2*	1273.31	3/2$^+$			
7987		2334.8	34 *3*	5652	9/2$^+$			A_2=0.40 *5*, A_4=0.05 *7*.
		3906.4	66 *3*	4080				A_2=−0.22 *4*, A_4=−0.01 *6*.
7995	3/2$^-$	3060.1	7 *1*	4934.6	3/2$^-$			
		3154.4	7 *1*	4840.2	1/2$^+$			A_2=−0.32 *7*, A_4=0.05 *11*.
		4927.2	25 *3*	3066.9	5/2$^+$			
		5567.9	5 *1*	2425.97				
		5965.0	25 *2*	2028.72	5/2$^+$			A_2=0.06 *6*, A_4=−0.13 *10*.
		6720.0	11 *1*	1273.31	3/2$^+$			
		7992.7	20 *2*	0	1/2$^+$			A_2=0.03 *8*, A_4=−0.32 *13*.
8138	1/2 to 5/2	3203	13 *2*	4934.6	3/2$^-$			
		6863	87 *2*	1273.31	3/2$^+$			A_2=0.01 *13*, A_4=−0.17 *2*.
8161	3/2 to 7/2	5093.2	66 *4*	3066.9	5/2$^+$			A_2=−0.24 *7*, A_4=−0.00 *11*.
		6130.9	33 *4*	2028.72	5/2$^+$			
8173	11/2$^+$	3431.6	26 *2*	4741		D+Q	+0.67 *+23−15*	A_2=0.70 *6*, A_4=0.22 *8*.
		4092.4	74 *2*	4080				A_2=0.26 *6*, A_4=−0.10 *10*.
8209	3/2$^+$	6933.9	38 *4*	1273.31	3/2$^+$			A_2=0.29 *11*, A_4=0.19 *15*.
		8206.5	62 *4*	0	1/2$^+$			A_2=0.01 *9*, A_4=0.25 *15*.
8270	3/2 to 9/2	4645.1	62 *4*	3624.15	7/2$^-$			A_2=−0.02 *12*, A_4=0.36 *18*.
		6239.9	38 *4*	2028.72	5/2$^+$			
8290		3395	19 *2*	4895				

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^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14 (continued)

γ(^{29}Si) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[‡]	δ[#]	Comments
8290		5863	28 *3*	2425.97				
		6260	32 *3*	2028.72	5/2$^+$			
		7015	21 *2*	1273.31	3/2$^+$			
8331	5/2,9/2	3044.7	20 *3*	5286				
		4706.0	80 *3*	3624.15	7/2$^-$			A_2=−0.33 *3*, A_4=−0.04 *4*.
8349	3/2 to 7/2	5281.1	61 *5*	3066.9	5/2$^+$			
		6318.8	39 *5*	2028.72	5/2$^+$			A_2=−0.30 *6*, A_4=−0.05 *5*.
8371		4290.3	100	4080				
8418	3/2	5990.7	39 *6*	2425.97				
		8415.4	61 *6*	0	1/2$^+$	D+Q	+0.44 *5*	A_2=0.31 *15*, A_4=0.15 *20*.
8476		2823.7	34 *3*	5652	9/2$^+$			
		3734.5	26 *2*	4741				
		4395.3	40 *3*	4080				
8505	3/2$^+$,5/2$^+$	5437	24 *3*	3066.9	5/2$^+$			
		7229.8	76 *3*	1273.31	3/2$^+$			A_2=−0.05 *7*, A_4=−0.24 *12*.
8540		7264.8	100	1273.31	3/2$^+$			
8557		4476	26 *2*	4080				
		6527	61 *3*	2028.72	5/2$^+$			
8603		4522.3	100	4080				
8609	(9/2,13/2)	3867.5	100	4741				A_2=0.33 *2*, A_4=−0.15 *3*.
8610	5/2,9/2$^+$	3324	42 *6*	5286				
		4529	22 *5*	4080				A_2=−0.39 *7*, A_4=−0.14 *10*.
		4985	28 *2*	3624.15	7/2$^-$			
8622	3/2 to 7/2	4541	57 *4*	4080				
		4997	11 *1*	3624.15	7/2$^-$			
		6592	33 *3*	2028.72	5/2$^+$	D+Q	−0.53 *11*	A_2=−0.13 *8*, A_4=−0.01 *11*.
8641	13/2	1502	6 *1*	7139		D+Q	+1.0 *+7−4*	A_2=0.98 *7*, A_4=0.35 *9*.
		3899	94 *1*	4741				A_2=0.25 *3*, A_4=−0.26 *4*.
8670	7/2 to 11/2	3928	100	4741		D+Q	+0.20 *+4−3*	A_2=0.09 *6*, A_4=0.03 *8*. δ: For J=11, for J=7 δ=0.15 *+4−2* or 3.5 *5*.
8762		1981	33 *2*	6781.1				
		3507	67 *2*	5255				
8854		3958	17 *2*	4895				
		6824	48 *4*	2028.72	5/2$^+$			
		8851	26 *4*	0	1/2$^+$			
8865	7/2 to 11/2	4123	100	4741		D+Q	−0.9 *3*	A_2=−0.17 *8*, A_4=0.12 *13*.
8909		3623	23 *3*	5286				
		3654	11 *2*	5255				
		5284	66 *4*	3624.15	7/2$^-$			
8959		3704	28 *2*	5255				
		4063	16 *2*	4895				
		4218	25 *3*	4741				
		4878	31 *3*	4080				
9151		6083	100	3066.9	5/2$^+$			
9157		2542	39 *4*	6615				
		3342	61 *4*	5813				
9219		3567	26 *3*	5652	9/2$^+$			
		7188	74 *6*	2028.72	5/2$^+$			
9252		7221	100	2028.72	5/2$^+$			
9298		4042	80 *2*	5255				
		5673	20 *2*	3624.15	7/2$^-$			
9326	7/2 to 11/2	3674	25 *5*	5652	9/2$^+$			
		4584	75 *5*	4741		D+Q	−0.13 *+9−6*	A_2=−0.64 *11*, A_4=0.15 *15*. δ: For J=11. for J=7 δ=+0.26 *+9−12*.
9392		4650	100	4741				
9413		9410	100	0	1/2$^+$			

Continued on next page (footnotes at end of table)

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14 (continued)

γ(^{29}Si) (continued)

E_i(level)	E_γ †	I_γ	E_f	J^π_f	E_i(level)	E_γ †	I_γ	E_f	J^π_f
9518	3705	35 *5*	5813		9943	5862	30 *5*	4080	
	4776	26 *5*	4741		9952	3337	100	6615	
	5437	17 *4*	4080		9987	3205	59 *5*	6781.1	
	7487	23 *5*	2028.72	$5/2^+$		4731	41 *5*	5255	
9667	4411	100	5255		10006	7975	100	2028.72	$5/2^+$
9683	4941	100	4741		10083	5341	69 *6*	4741	
9765	3150	9 *2*	6615			8052	31 *6*	2028.72	$5/2^+$
	4478	57 *5*	5286		10131	4478	64 *6*	5652	$9/2^+$
	5023	34 *4*	4741			5388	36 *6*	4741	
9779	6154	100	3624.15	$7/2^-$	10170	4914	100	5255	
9850	2710.7	32 *5*	7139		10213	6132	100	4080	
	5108.0	68 *5*	4741		10236	4583	100	5652	$9/2^+$
9943	3162	18 *5*	6781.1		10252	7183.2	100	3066.9	$5/2^+$
	5201	51 *5*	4741						

† Deduced by the evaluator from level energy differences and recoil energy subtraction. Measured γ-ray energies are not listed in source references.

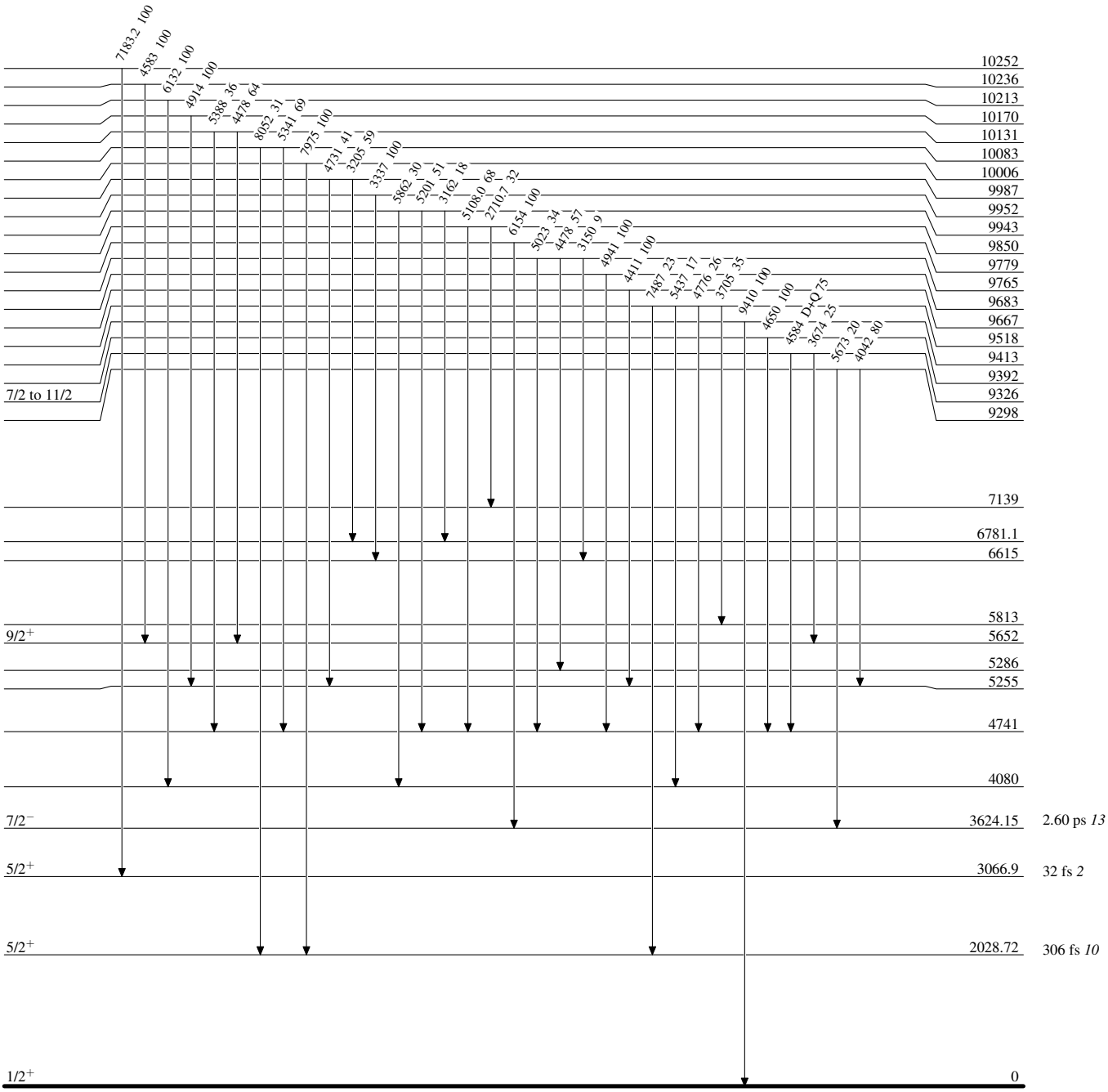
‡ Assigned by the evaluator based on the mixing ratio data reported in 1982Be52.

From 1982Be52. Sign convention as of the ENSDF policy (Krane and Steffen (1970Kr03)).

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme

Intensities: % photon branching from each level

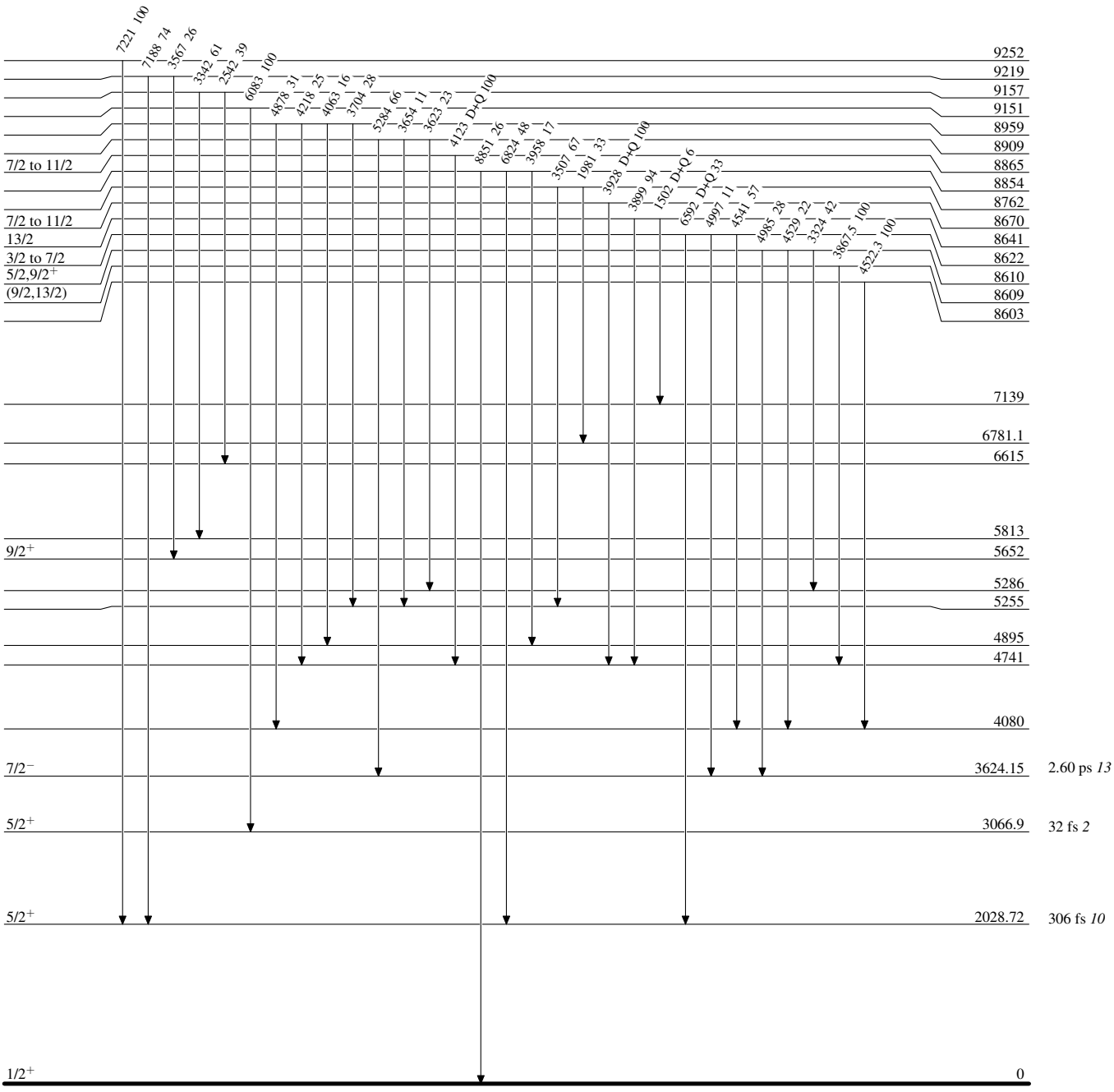


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level

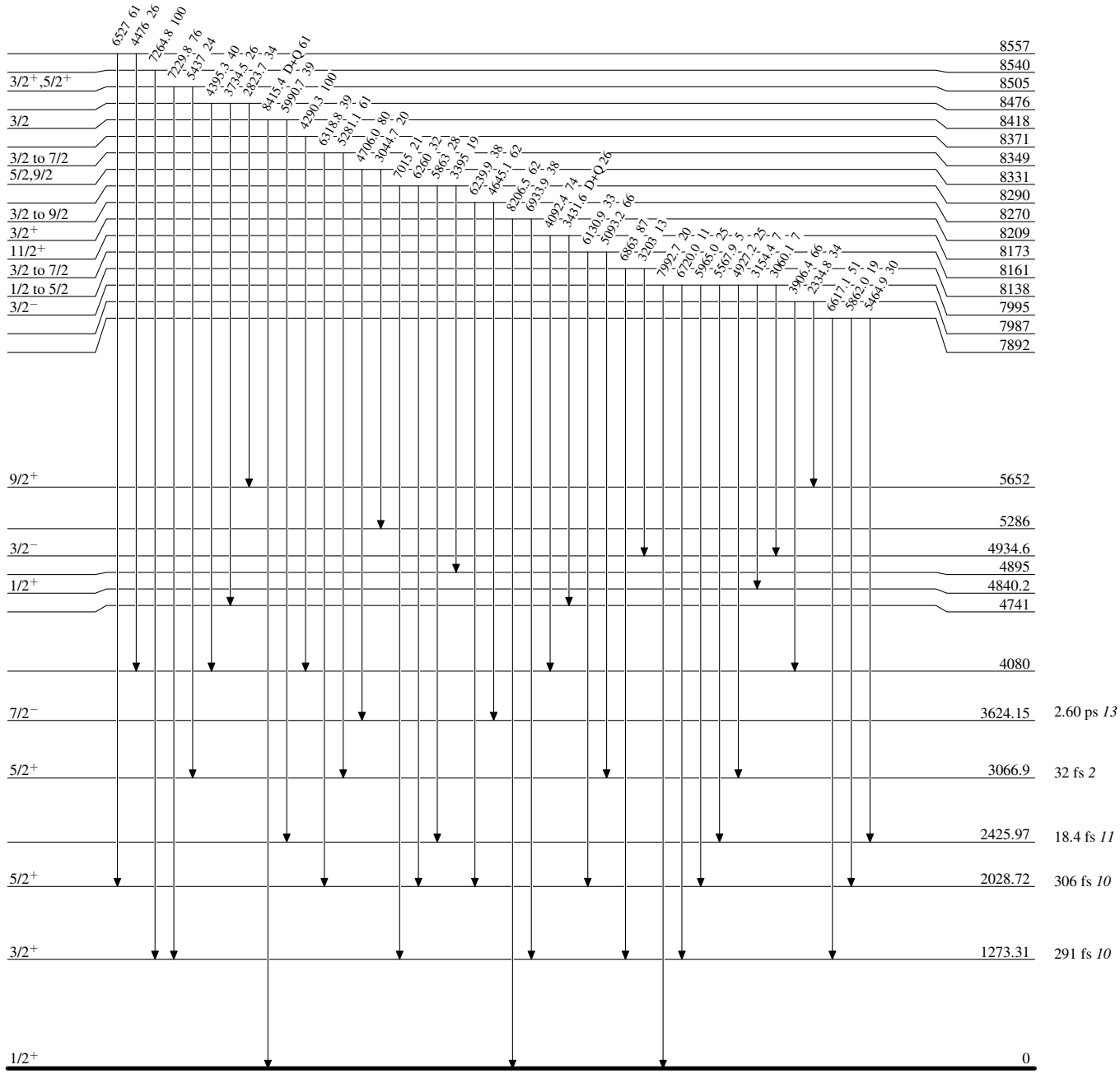


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level

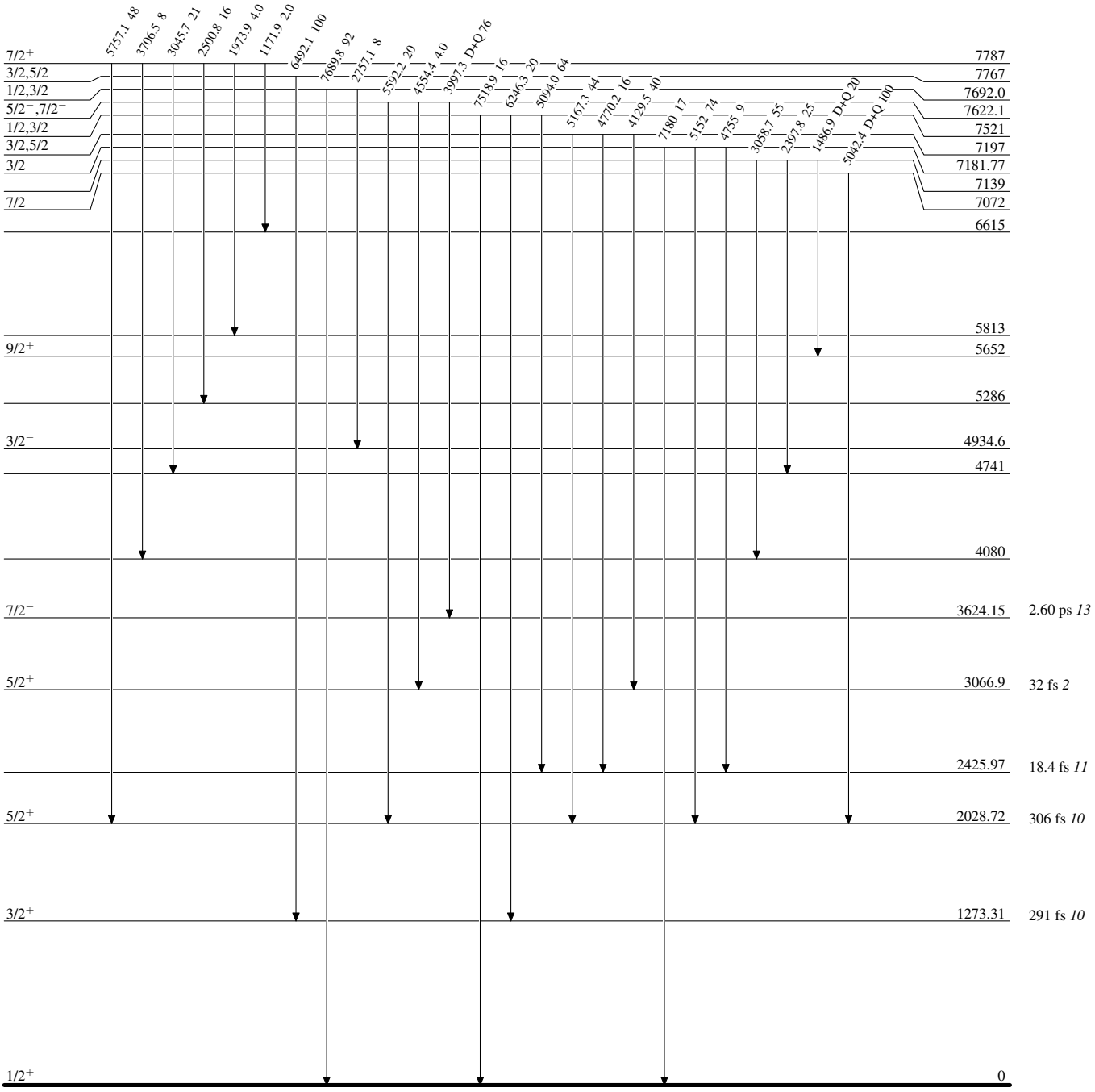


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level

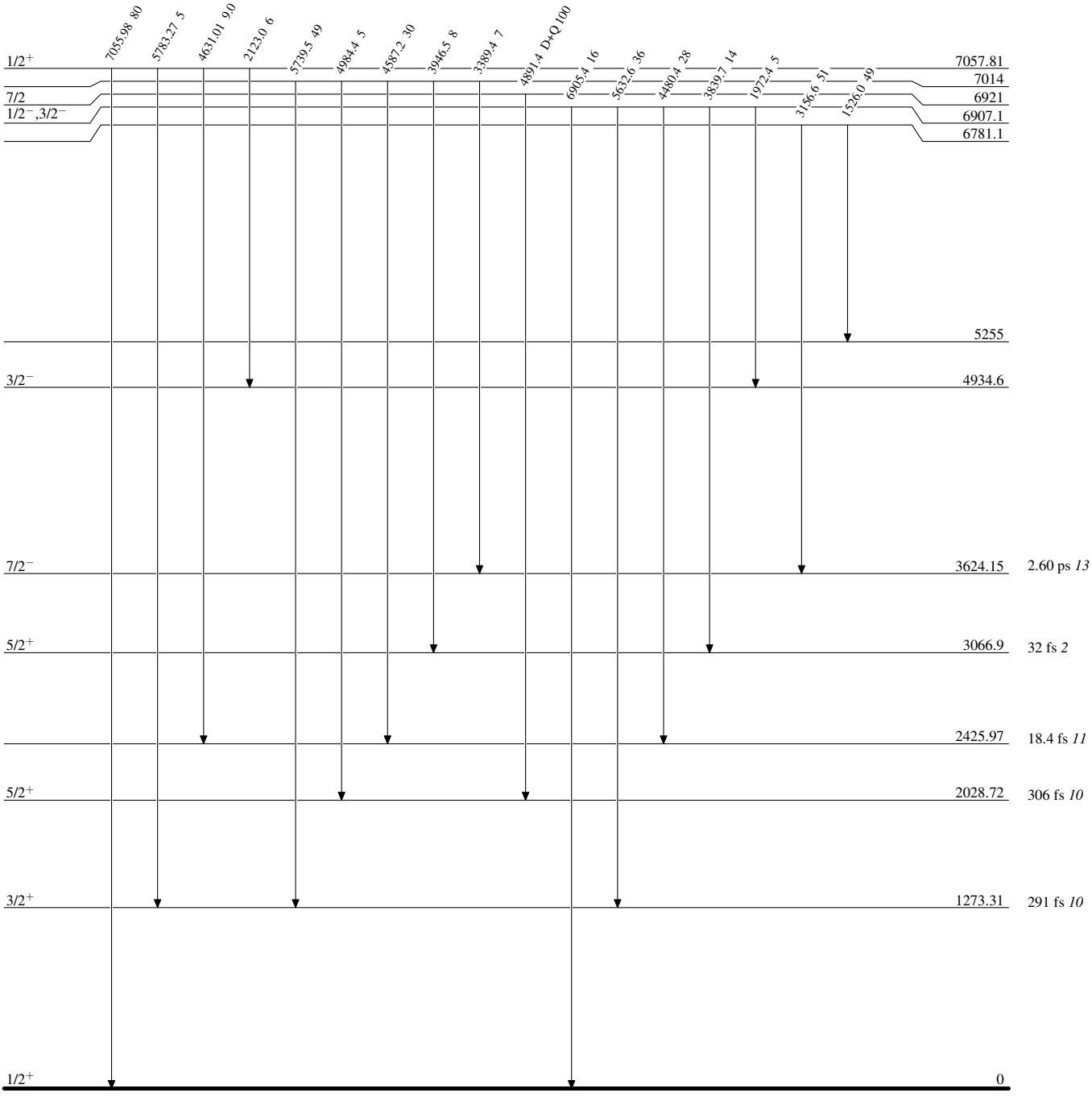


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level

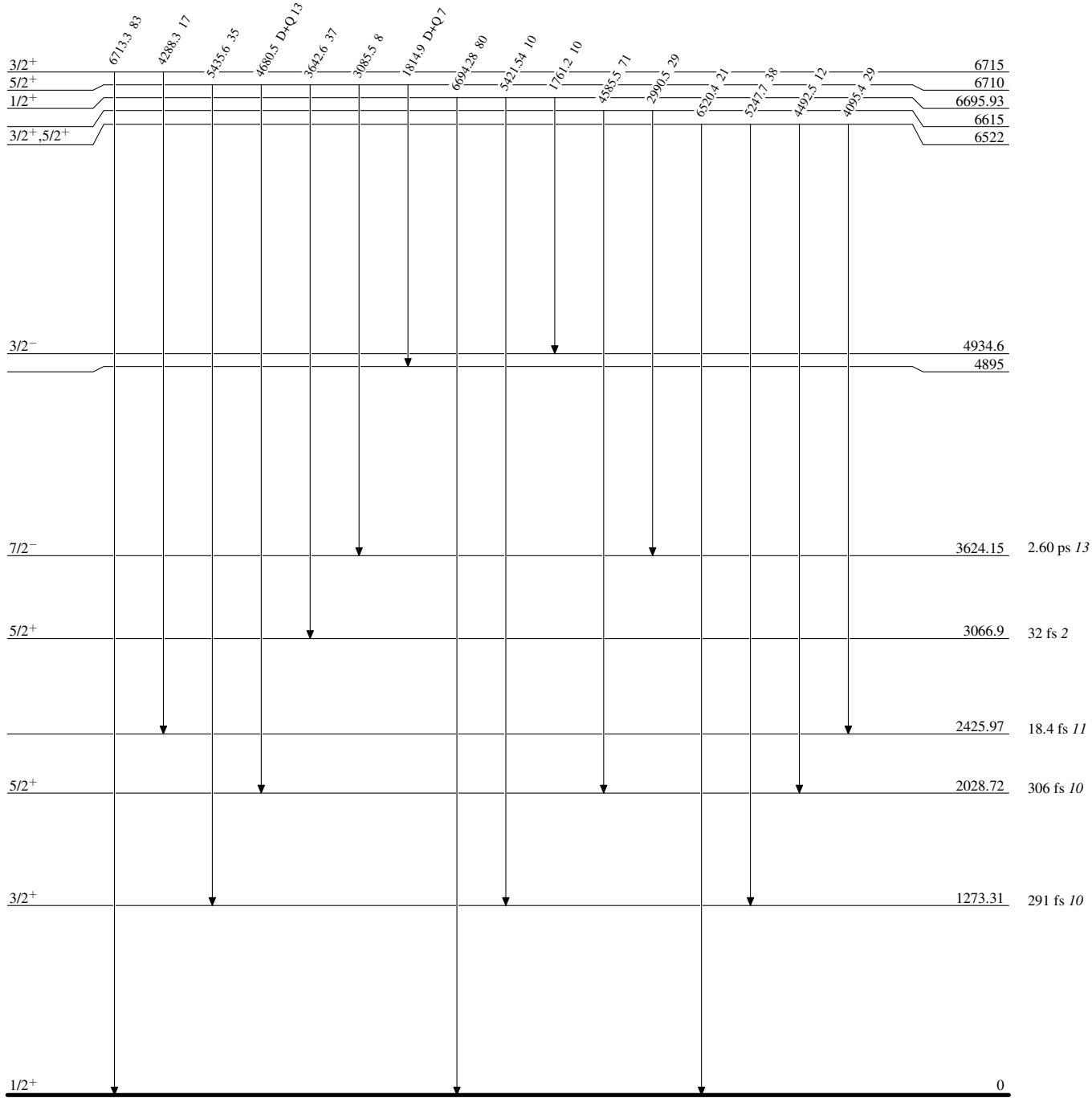


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level

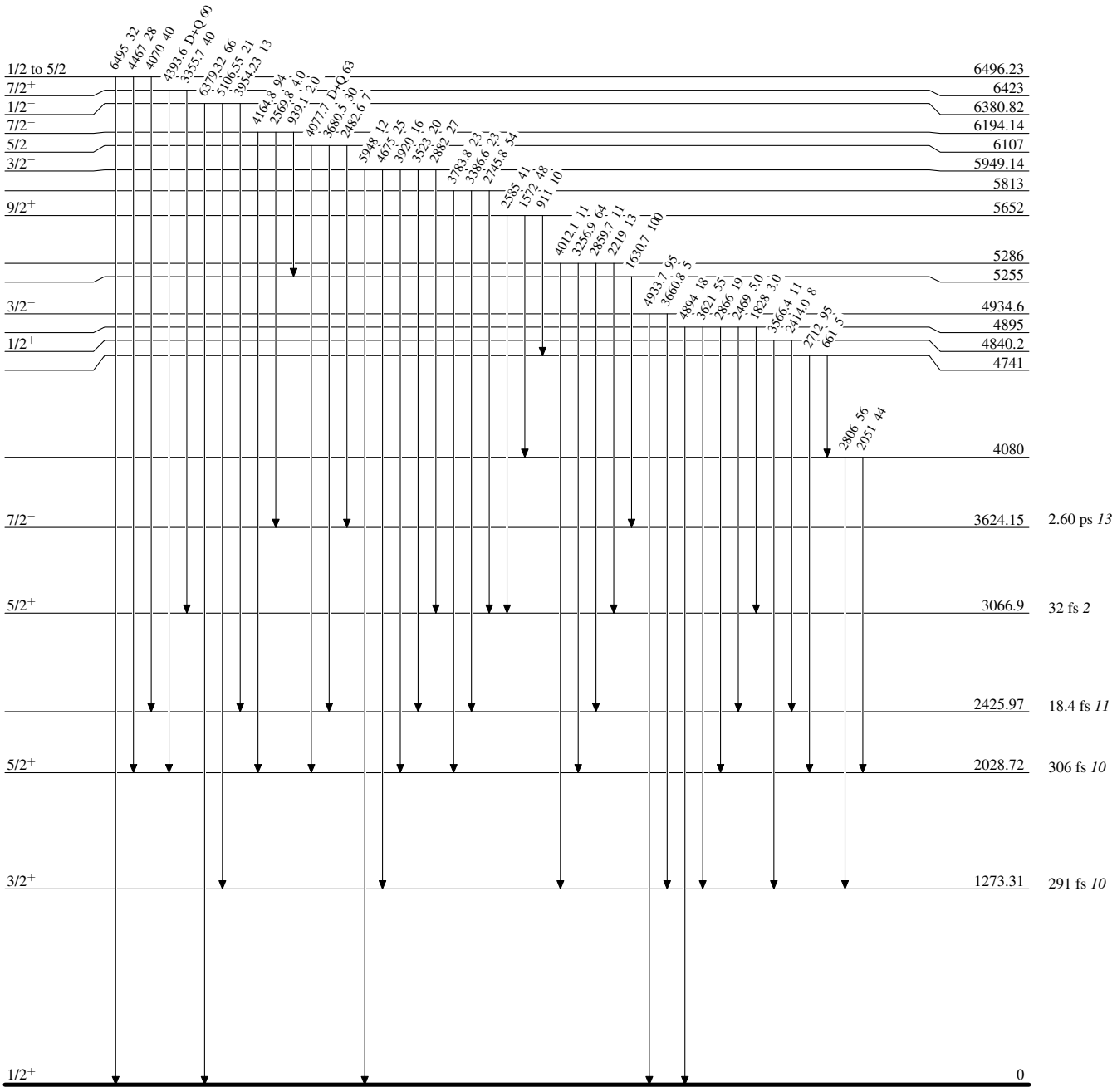


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level

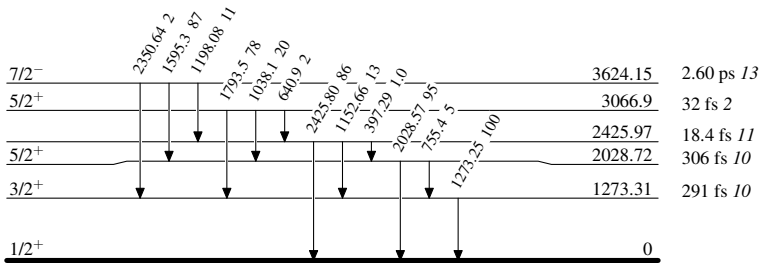


$^{29}_{14}Si_{15}$

^{28}Si(d,p),(d,pγ) 1990Pi05,1982Be52,1974Me14

Level Scheme (continued)

Intensities: % photon branching from each level



$^{29}_{14}Si_{15}$