^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

History

Type	Author	Citation	Literature Cutoff Date
Errata	Ninel Nica, John Cameron and Balraj Singh	NDS 113, 1 (2012)	31-Dec-2011

^{35}Cl target J$^{\pi}$: 3/2^{+}.

Data from 2002Ro24, 1994Il01, 1978Pa03, 1976Ma40, 1976Hu01, 1976Hu01, 1976Gr05, 1975Sa03, 1974Jo02, 1972Ho40, 1973Ho33, 1972Ho40, 1971BrXT, 1970Th04, 1970Th03, 1968Bo06, 1966Er06, 1966En04, 1965Er06, 1961Ku01, 1961He19.

Others: 1995Ro22, 1978Va23, 1972Ho26, 1970Ke10, 1966Ka18, 1965Er07, 1965Si15, 1964Si25, 1960Li15, 1960Cl02, 1957To32.

^{36}Ar Levels

Unless noted otherwise, the resonance strengths S(p,γ)=(2J+1)$\Gamma_p\Gamma_\gamma/\Gamma$, S(P,P$_1$)=(2J+1)$\Gamma_p\Gamma_{p1}/\Gamma$, and S(P,$\alpha_0$)=(2J+1)$\Gamma_p\Gamma_{\alpha0}/\Gamma$ (In eV) are from 1974Jo02 (uncertainties≈30%) for (p,γ) and (P,P$_1$) resonances, and from 1968Bo06 for (P,α_0) resonances.

1974Jo02 In the table denotes the context of (p,γ) reaction (while (1974Jo02, (p,p$_1$)) denotes the context of (p,p$_1$) reaction).

Most of the Γ values were rejected by the Recommended Upper Limits for γ-ray Strengths (RUL) reason for which they were not adopted here.

E(level)†‡#	J$^{\pi}$[a]	T$_{1/2}$@&	Comments
0.0	0^{+}		
1970.38 *5*	2^{+}	319 fs *28*	E(level): 1970.39 *5* (1972Ho40), 1970.2 *3* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 400 *100* (1970Th04); 350 *120* (1972Ho40); 340 *110* (1974Jo02).
4178.32 *11*	3^{-}	2.3 ps *3*	E(level): 4178.33 *11* (1972Ho40), 4178.1 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:>2000 (1970Th03);>1800 (1972Ho40);>1500 (1974Jo02).
4329.1 *7*	(0,1,2)$^{+}$	>485 fs	T$_{1/2}$: mean lifetime τ In fs:>700 (1974Jo02). E(level): 4329.7 *8* (1972Ho40), 4327.6 *12* (1974Jo02).
4414.40 *16*	4^{+}	76 fs *10*	E(level): 4414.36 *17* (1972Ho40), 4414.7 *5* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 125 *20* (1970Th03); 86 *18* (1972Ho40); 90 *40* (1974Jo02); 129 *8* (1975Sa03).
4440.11 *19*	2^{+}	76 fs *14*	E(level): 4440.1 *2* (1972Ho40), 4440.2 *5* (1974Jo02). J$^{\pi}$: π from 2699.4, M1+E2 γ from 3^{+}, 7140. T$_{1/2}$: mean lifetime τ In fs: 94 *30* (1970Th03); 100 *40* (1972Ho40); 100 *40* (1974Jo02); 153 *6* (1975Sa03).
4951.4 *4*	2^{+}	<35 fs	E(level): 4951.9 *5* (1972Ho40), 4950.9 *5* (1974Jo02). J$^{\pi}$: π=+ based on RUL. T$_{1/2}$: mean lifetime τ In fs:<70 (1972Ho40);<50 (1974Jo02).
4974.05 *18*	2^{-}	10 ps *3*	E(level): 4974.05 *19* (1972Ho40), 4974.1 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:>1000 (1970Th03);>1000 (1972Ho40);>1600 (1974Jo02).
5171.13 *16*	5^{-}	88 ps *3*	E(level): 5171.14 *16* (1972Ho40), 5170.9 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:>1000 (1970Th03);>850 (1972Ho40);>450 (1974Jo02).
5194.4 *8*	(0^{+},1^{+},2^{+},3^{-})	69 fs *21*	E(level): 5194.4 0.8 (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 100 *30* (1974Jo02).
5836.0 *4*	1^{-}	6.2 fs *21*	E(level): 5835.9 *8* (1972Ho40), 5836.0 *5* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 6 *4* (1970Th03); 8 *3* (1972Ho40); 14 *5* (1974Jo02).
5856.65 *19*	3^{-}	312 fs *104*	E(level): 5856.7 *2* (1972Ho40), 5856.0 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 840 *300* (1970Th03); 340 *170* (1972Ho40); 260 *110* (1974Jo02).
5895.92 *19*	4^{-}	347 fs *139*	E(level): 5895.9 *2* (1972Ho40), 5896.1 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:>600 (1970Th03); 800 *350* (1973Ho33, superseding 400 +1400-200 (1972Ho40)) 300+650-140 (1974Jo02).
6136.5 *15*	4^{+}		E(level): 6136.5 *15* (1974Jo02). J$^{\pi}$: E1 γ from 5^{-}, 9927.

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^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)[†‡#]	J$^\pi$[a]	T$_{1/2}$[@&]	Comments
6217.3 *3*	5$^-$	201 fs *35*	E(level): 6217.1 *3* (1972Ho40), 6217.8 *5* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 280 *90* (1972Ho40); 230 *60* (1974Jo02).
6356.0 *6*	4$^+$	305 fs *104*	E(level): 6356.1 *9* (1972Ho40), 6355.8 *9* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 440 *150* (1973Ho33).
6611.0 *3*		15 fs *6*	E(level): 6610.8 *3* (1972Ho40), 6611.4 *5* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 23 *19* (1972Ho40); 22 *10* (1974Jo02).
6645.6 *15*	(2$^+$,3$^+$,4$^+$)		E(level): 6645.6 *15* (1974Jo02).
6724 *2*	NOT 1$^+$		E(level): 6724 *2* (1974Jo02).
6835.16 *19*	4$^-$	555 fs *173*	E(level): 6835.2 *2* (1972Ho40), 6834.9 *5* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 800 *250* (1973Ho33, superseding>800 (1972Ho40));>350 (1974Jo02).
6836.50 *18*	3$^-$	166 fs *42*	E(level): 6836.5 *2* (1972Ho40), 6836.5 *4* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 330 *140* (1970Th03); 230 *80* (1972Ho40); 200 *80* (1974Jo02).
6866.9 *7*	(1,2$^+$)		E(level): 6868.5 *10* (1972Ho40), 6865.2 *10* (1974Jo02).
7136.5 *9*	(1$^-$,2$^+$)	9 fs *3*	E(level): 7136.3 *18* (1972Ho40), 7136.6 *10* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:<27 (1972Ho40); 13 *5* (1974Jo02).
7139.6 *4*	3$^+$	69 fs *35*	E(level): 7139.5 *4* (1972Ho40), 7140.5 *10* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 100 *30* (1972Ho40).
7178.9 *4*	(1,2$^+$)		E(level): 7178.7 *9* (1972Ho40), 7179.0 *5* (1974Jo02).
7247.4 *6*	NOT 0$^-$	<21 fs	E(level): 7247.3 *7* (1972Ho40), 7247.5 *10* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:<30 (1972Ho40).
7258.6 *8*	3$^-$	<14 fs	E(level): 7258.5 *10* (1972Ho40), 7258.8 *15* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs:<19 (1972Ho40).
7336.6 *6*	3$^+$	10 fs *5*	E(level): 7335.6 *7* (1972Ho40), 7338.5 *10* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 15 *7* (1972Ho40).
7353.9 *3*	6$^-$	125 fs *28*	E(level): 7354.0 *3* (1972Ho40), 7353.6 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 190 *90* (1972Ho40); 140 *30* (1974Jo02).
7432.3 *7*		<69 fs	E(level): 7432.9 *9* (1972Ho40), 7431.6 *10* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 50 *+60−40* (1972Ho40).
7573.1 *3*	4$^-$	159 fs *49*	E(level): 7573.1 *3* (1972Ho40), 7573.0 *7* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 300 *100* (1972Ho40); 160 *80* (1974Jo02).
7672.1 *6*	NOT (1,2)$^-$		E(level): 7671.9 *7* (1972Ho40), 7672.5 *10* (1974Jo02).
7710.3 *5*	1		E(level): 7710.7 *18* (1972Ho40), 7711.1 *15* (1974Jo02).
7749.7 *5*	NOT 0$^-$		E(level): 7749.9 *6* (1972Ho40), 7749.2 *10* (1974Jo02).
7879 *2*	NOT (0,3)$^-$		E(level): 7879 *2* (1974Jo02).
8015.9 *10*	(3,4)$^-$		E(level): 8015.9 *10* (1974Jo02).
8131.9 *6*	1,(2$^+$)		E(level): 8132 *2* (1974Jo02).
8332.5 *15*	NOT (0 to 2)$^-$		E(level): 8332.5 *15* (1974Jo02).
8472.0 *10*	(3$^-$,4$^-$,5$^-$)	30 fs *7*	E(level): 8472.0 *10* (1974Jo02). T$_{1/2}$: mean lifetime τ In fs: 44 *10* (1974Jo02).
8806.4 *18*			E(p)(lab)=308.0 *18* (1994Il01, deduced from E(level)).
8938.8 *5*	(2$^+$,3,4$^-$)		E(p)(lab)=444.3 *5*. 444.1 *5* (1961He19); 445.9 *15* (1961Ku01); 444.0 *3* (1965Er06); 442.4 *8* (1994Il01, deduced from E(level)). S(p,γ)=0.09.
9014.9 *10*	(3$^-$,4,5$^-$)		E(p)(lab)=522.5 *10*. 522.2 *8* (1965Er06); 519.8 *17* (1994Il01, deduced from E(level)). S(p,γ)=0.012.
9025.3 *6*	2		E(p)(lab)=533.2 *6*. 532.9 *6* (1961He19); 533.8 *15* (1961Ku01); 533.0 *8* (1965Er06); 531.9 *13* (1994Il01 deduced from E(level)). J$^\pi$: from 1976Gr05. S(p,γ)=0.18.
9066.4 *6*	3$^-$		E(p)(lab)=575.5 *6*.

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^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)[†‡#]	Jπ[a]	Comments
		575.2 *6* (1961He19); 575.9 *15* (1961Ku01): 575.4 *9* (1965Er06); 572.7 *15* (1994Il01 deduced from E(level)).
		S(p,γ)=0.17.
9116.3 *16*		E(p)(lab)=626.9 *16* (1994Il01 deduced from E(level)).
9132.5 *7*	3$^-$	E(p)(lab)=643.5 *7*.
		643.2 *7* (1961He19); 644.2 *15* (1961Ku01); 643.1 *10* (1965Er06); 643.4 *14* (1994Il01 deduced from E(level)).
		S(p,γ)=0.17.
9144.9 *7*	(2$^+$,3$^-$)	E(p)(lab)=656.3 *7*.
		656.0 *7* (1961He19); 656.8 *15* (1961Ku01); 656.0 *10* (1965Er06); 653.9 *15* (1994Il01 deduced from E(level)).
		S(p,γ)=0.11.
9192.1 *11*	(3$^-$,4$^+$)	E(p)(lab)=704.9 *11*.
		704.5 *11* (1965Er06).
		S(p,γ)=0.05.
9220.2 *11*	1$^+$	E(p)(lab)=733.8 *11*.
		734.6 *15* (1961Ku01); 733.4 *11* (1965Er06); 733.8 *13* (1994Il01 deduced from E(level)).
		S(p,γ)=0.7.
9240.5 *11*	(1$^-$,2$^-$,3$^-$)	E(p)(lab)=754.7 *11*.
		755.4 *15* (1961Ku01); 754.3 *11* (1965Er06).
		S(p,γ)=0.13.
9248.4 *11*	(1$^-$,2$^-$,3$^-$)	E(p)(lab)=762.8 *11*.
		762.4 *11* (1965Er06).
		S(p,γ)=0.13.
9258.3 *12*	3$^-$	E(p)(lab)=773.0 *12*.
		772.6 *12* (1965Er06).
		S(p,γ)=0.12.
9300.1 *4*	4$^-$	E(p)(lab)=816.0 *4*.
		818.2 *15* (1961Ku01); 817.0 *12* (1965Er06); 816.0 *4* (1972Ho40).
		S(p,γ)=0.6.
9342.5 *4*	3$^-$	E(p)(lab)=859.6 *4*.
		861.4 *15* (1961Ku01); 859.7 *13* (1965Er06); 859.9 *4* (1972Ho40); 859.2 *7* (1994Il01 deduced from E(level)).
		Γ=12 eV (1971BrXT).
		S(p,γ)=4.9 *7* (1966En04), S(p,γ)=5.5 *13* (1978Pa03).
9356.0 *8*	1$^-$,2$^+$	E(p)(lab)=873.6 *8*.
		873.3 *13* (1965Er06); 873.2 *11* (1968Bo06).
		S(p,γ)=0.3, S(P,α_0)=1.2.
9365.9 *8*	1$^-$	E(p)(lab)=883.7 *8*.
		885.7 *15* (1961Ku01); 883.5 *13* (1965Er06); 883.4 *11* (1968Bo06).
		S(p,γ)=0.7, S(P,α_0)=8.
9374.1 *13*	(1$^-$,2$^-$,3$^-$)	E(p)(lab)=892.1 *13*.
		893.0 *15* (1961Ku01); 891.6 *13* (1965Er06).
		S(p,γ)=0.9.
9379.9 *13*	(2$^+$,3$^+$,4$^+$)	E(p)(lab)=898.1 *13*.
		899.2 *15* (1961Ku01); 897.6 *13* (1965Er06).
		S(p,γ)=1.5.
9393.4 *10*	(2$^+$,3$^+$,4$^+$)	E(p)(lab)=912.0 *10* (1974Jo02).
		S(p,γ)=0.3.
9413.9 *29*		E(p)(lab)=933 *3*.
9439.2 *14*	(2$^+$,3$^+$,4$^+$)	E(p)(lab)=959.1 *14*.
		958.6 *2* (1965Er06).
		S(p,γ)=0.01.
9448.1 *9*	1$^-$,2$^+$,3$^-$	E(p)(lab)=968.2 *9*.
		968.0 *5* (1965Er06); 968.0 *12* (1968Bo06).
		S(p,γ)=0.14, S(P,α_0)=1.8.

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^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)[†‡#]	J$^{\pi}$[a]	Comments
9465.9 *5*	$1^-,2^+$	E(p)(lab)=986.5 *5*. 985.9 *25* (1965Er06); 986.5 *5* (1974Jo02); 985.5 *12* (1968Bo06). S(p,γ)=0.6, S(P,α_0)=0.5.
9474.0 *8*	(1,2)	E(p)(lab)=994.9 *8* (1974Jo02). S(p,γ)=0.04.
9494.3 *12*		E(p)(lab)=1015.8 *12* (1968Bo06). S(P,α_0)=0.19.
9502.8 *5*	(2,3)	E(p)(lab)=1024.5 *5*. 1023 *2* (1965Er06); 1023.1 *13* (1972Ho40); 1024.5 *5* (1974Jo02). S(p,γ)=0.3.
9509.6 *6*	$(2^+,3^+,4^+)$	E(p)(lab)=1031.5 *6*. 1029 *2* (1965Er06); 1031.5 *6* (1974Jo02). S(p,γ)=0.10.
9542.0 *11*	$(1,2,3)^-$	E(p)(lab)=1064.8 *11*. 1064 *2* (1965Er06); 1064.8 *11* (1974Jo02). S(p,γ)=0.14.
9550.3 *5*	(0^+ to 4^+)	E(p)(lab)=1073.4 *5*. 1073 *2* (1965Er06); 1073.0 *3* (1972Ho40); 1073.4 *5* (1974Jo02). S(p,γ)=0.9.
9574.3 *4*	4^-	E(p)(lab)=1098.1 *4*. 1097 *2* (1965Er06); 1098.1 *3* (1972Ho40); 1098.1 *4* (1974Jo02). S(p,γ)=2.4.
9595.4 *7*	2^+	E(p)(lab)=1119.8 *7*. 1116 *2* (1965Er06); 1119.8 *7* (1974Jo02); 1119.4 *13* (1968Bo06). S(p,γ)=0.4, S(P,α_0)=12.
9606.8 *5*	$(0,1,2)^-$	E(p)(lab)=1131.5 *5*. 1129 *2* (1965Er06); 1128.3 *17* (1972Ho40); 1131.5 *3* (1974Jo02). S(p,γ)=0.2.
9667.1 *10*	3^-	E(p)(lab)=1193.5 *10*. 1191 *2* (1965Er06); 1193.5 *10* (1974Jo02); 1192.6 *13* (1968Bo06). S(p,γ)=0.3, S(P,α_0)=7.
9681.9 *5*	$4^+,6^+$	E(p)(lab)=1208.8 *5*. 1207 *2* (1965Er06); 1208.8 *5* (1974Jo02). J$^{\pi}$: ΔJ=2 E2, or ΔJ=0, M1+E2 γ to 4^+, 4414. S(p,γ)=0.12.
9703.2 *14*	$0^+,1^-,2^+$	E(p)(lab)=1230.7 *14* (1968Bo06). S(P,α_0)=2.0.
9734.3 *5*	$1^-,3^-,4^+$	E(p)(lab)=1262.7 *5*. 1264 *2* (1965Er06); 1262.7 *5* (1974Jo02); 1264.0 *14* (1968Bo06). S(P,α_0)=3.1.
9737.5 *8*	3^-	E(p)(lab)=1266.0 *8*. 1267 *2* (1965Er06); 1264.0 *9* (1972Ho40); 1266.0 *18* (1974Jo02). Γ=400 eV (1971BrXT). S(p,γ)=1.9.
9764.5 *5*	$(3^-,4^-,5^-)$	E(p)(lab)=1293.8 *5* (1974Jo02). S(p,γ)=0.09.
9812.2 *5*	$(1,2,3^-)$	E(p)(lab)=1342.8 *5* (1974Jo02). S(p,γ)=0.3.
9862.6 *5*	3^+	E(p)(lab)=1394.7 *5*. 1396 *2* (1965Er06); 1393.0 *9* (1972Ho40); 1394.7 *5* (1974Jo02). S(p,γ)=0.5.
9878.6 *5*	$(2^+,3^+,4^+)$	E(p)(lab)=1411.1 *5*. 1412 *2* (1965Er06); 1409.1 *11* (1972Ho40); 1411.1 *5* (1974Jo02). S(p,γ)=0.2.
9889.3 *5*		E(p)(lab)=1422.1 *5*.

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^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)†‡#	Jπa	Comments
		1422 *2* (1965Er06); 1422.1 *5* (1974Jo02); 1423.4 *15* (1968Bo06).
		Jπ: 1⁻,2⁺ (1974Jo02, $\gamma(\theta)$) and (2⁻,3⁻) (γ decay) are contradictory and May indicate a doublet.
		S(p,γ)=0.5, S(P,α_0)=14.
9902.1 *5*	4⁺	E(p)(lab)=1435.3 *5*.
		1436 *2* (1965Er06); 1435.3 *5* (1974Jo02); 1436.3 *15* (1968Bo06).
		S(p,γ)=0.4, S(P,α_0)=2.8.
9927.4 *5*	5⁻	E(p)(lab)=1461.3 *5*.
		1462 *2* (1965Er06); 1461.3 *5* (1974Jo02).
		Jπ: from 2002Ro24 based on measured γ multipolarities.
		S(p,γ)=0.3.
9942.5 *5*	(2,3⁻)	E(p)(lab)=1476.9 *5*.
		1477 *2* (1965Er06); 1475.6 *12* (1972Ho40); 1476.9 *5* (1974Jo02).
		S(p,γ)=0.6.
9956.9 *5*	(1,2⁺)	E(p)(lab)=1491.7 *5*.
		1493 *2* (1965Er06); 1491.7 *5* (1974Jo02).
		S(p,γ)=3.2.
9982.6 *16*	(1,3)⁻	E(p)(lab)=1518.1 *16*.
		1517 *2* (1965Er06), 1518.1 *16* (1968Bo06).
		S(P,α_0)=22.
9983.2 *5*	1⁺,(2⁺)	E(p)(lab)=1518.8 *5*.
		1517 *2* (1965Er06); 1518.8 *5* (1974Jo02); 1518.1 *16* (1968Bo06).
		S(p,γ)=18.
9991.9 *16*	1⁻,2⁺	E(p)(lab)=1527.7 *16*.
		1528 *2* (1965Er06); 1527.7 *16* (1968Bo06).
		S(p,γ)=0.5 (sum of strengths of 9991.9 and 9992.9), S(P,α_0)=60.
9992.9 *9*		E(p)(lab)=1528.7 *9*.
		1528 *2* (1965Er06); 1528.6 *9* (1972Ho40); 1528.7 *9* (1974Jo02).
		S(p,γ)=0.5 (sum of strengths of 9991.9 and 9992.9).
10002.4 *10*	(1⁻,2,3)	E(p)(lab)=1538.5 *10* (1974Jo02).
		S(p,γ)=0.16, S(P,P_1)=0.01.
10044.4 *12*	1⁻	E(p)(lab)=1581.7 *12*.
		1578 *2* (1965Er06); 1581.7 *12* (1974Jo02); 1581.5 *20* (1968Bo06).
		$T_{1/2}$: 2.1 *5* keV (1968Bo06), 900 eV (1971BrXT).
		Γ=1.5 *3* keV (1965Er06); Γ=2.1 *5* keV (1968Bo06).
		S(p,γ)=8.4, S(P,α_0)=24.
10050.6 *15*	2⁺	E(p)(lab)=1588.1 *15*.
		1588.1 *15* (1974Jo02); 1588.3 *20* (1968Bo06).
		Γ=0.9 *5* keV (1968Bo06), Γ=400 eV (1968Bo06).
		S(p,γ)=0.8, S(P,P_1)=0.03, S(P,α_0)=240.
10076.7 *5*	(1⁻,2,3)	E(p)(lab)=1615.0 *5*.
		1614 *2* (1965Er06); 1615.0 *5* (1974Jo02).
		S(p,γ)=0.9.
10092.3 *29*		E(p)(lab)=1631 *3*.
10094.9 *15*	2⁺	E(p)(lab)=1633.7 *15*.
		1633 *2* (1965Er06); 1633.7 *15* (1974Jo02); 1634.3 *20* (1968Bo06).
		S(p,γ)=0.3, S(P,P_1)<0.01, S(P,α_0)=6.
10099.4 *6*	1⁻	E(p)(lab)=1638.3 *6*.
		1637 *2* (1965Er06); 1638.3 *6* (1974Jo02); 1637.0 *18* (1968Bo06).
		Γ=400 eV (1971BrXT).
		S(p,γ)=1.6, S(P,α_0)=180.
10139.5 *9*	(2⁺,3⁻)	E(p)(lab)=1679.6 *9*.
		1678 *3* (1965Er06); 1679.6 *9* (1974Jo02).
		S(p,γ)=0.4.
10143.0 *6*	(1⁻,2)	E(p)(lab)=1683.2 *6* (1974Jo02).
		S(p,γ)=1.4.
		E(p)(lab)=1683.2 *6*.
10149.6 *5*	(3⁻,4)	E(p)(lab)=1690.0 *5* (1974Jo02).

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^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)†‡#	Jπa	Comments
		S(p,γ)=0.7.
10167.4 *5*	3^-	E(p)(lab)=1708.3 *5*. 1705 *3* (1965Er06); 1708.3 *5* (1974Jo02); 1708.8 *20* (1968Bo06). S(p,γ)=3.0, S(P,α_0)=15.
10173.4 *5*	$(1^-,2^+)$	E(p)(lab)=1714.4 *5*. 1714 *3* (1965Er06); 1714.4 *5* (1974Jo02); 1714.9 *20* (1968Bo06). Γ=0.9 *5* keV (1968Bo06). S(p,γ)=5.0, S(P,α_0)=150.
10193.6 *10*	$(3^-,4,5,6^+)$	E(p)(lab)=1735.2 *10* (1974Jo02). S(p,γ)=0.3.
10201.3 *18*		E(p)(lab)=1743.1 18 (1968Bo06). S(P,α_0)=80.
10220.3 *5*	$4^{(-)}$	E(p)(lab)=1762.7 *5*. 1761 *3* (1965Er06); 1759.9 *8* (1972Ho40); 1762.7 *5* (1974Jo02). S(p,γ)=2.9. E(p)(lab)=1761.9 *9*.
10256.0 *10*	$(3^-,4)$	E(p)(lab)=1799.4 *10*. 1797 *3* (1965Er06); 1799 *3* (1965Er06); 1799.4 *10* (1974Jo02). S(p,γ)=0.8.
10257.5 *10*	$(3^-,4^+)$	E(p)(lab)=1801.0 *10* (1974Jo02). S(p,γ)=1.2.
10260.5 *19*		E(p)(lab)=1804.1 *21* (1968Bo06). S(P,α_0)=8.
10267.3 *5*	1^-	E(p)(lab)=1811.0 *5*. 1811 *3* (1965Er06); 1811.0 *5* (1974Jo02); 1812.6 *21* (1968Bo06). Γ=400 eV (1971BrXT). S(p,γ)=1.2, S(P,α_0)=13.
10271.7 *6*	$(3^-,4^-,5^-)$	E(p)(lab)=1815.6 *6*. 1815 *3* (1965Er06); 1813.3 *6* (1972Ho40); 1815.6 *6* (1974Jo02). S(p,γ)=1.8, S(P,P_1)=0.03.
10281.1 *10*	3^-	E(p)(lab)=1825.2 *10*. 1825.2 *10* (1974Jo02); 1827.4 *21* (1968Bo06). S(p,γ)=0.3, S(P,P_1)=0.01, S(P,α_0)=2.6.
10301.5 *9*	4^+	E(p)(lab)=1846.2 *9*. 1845 *3* (1965Er06); 1846.2 *9* (1974Jo02); 1847.3 *19* (1968Bo06). S(p,γ)=1.9, S(P,P_1)=0.01, S(P,α_0)=13.
10308.7 *8*	$(2,3)^-$	E(p)(lab)=1853.6 *8* (1974Jo02). S(p,γ)=0.7, S(P,P_1)=0.6.
10319.5 *15*	2^+	E(p)(lab)=1864.7 *15* (1974Jo02). 1864.7 *15* (1974Jo02); 1867.1 *19* (1968Bo06). S(p,γ)=0.6, S(P,P_1)=0.02, S(P,α_0)=80.
10329.0 *15*	$(3^-,4^-,5^-)$	E(p)(lab)=1874.5 *15* (1974Jo02). S(p,γ)=0.3, S(P,P_1)=0.01.
10377.1 *19*		E(p)(lab)=1924 *2*. 1923.6 *21* (1968Bo06). S(P,α_0)=6.
10420.8 *10*	3^-	E(p)(lab)=1969.0 *10*. 1969 *3* (1965Er06); 1967 *3* (1972Ho40); 1969.0 *10* (1974Jo02); 1969.1 *19* (1974Jo02, (p,p_1)). Γ=7 *2* keV (1965Er06). S(p,γ)=13, S(P,P_1)=29.
10435.0 *14*		E(p)(lab)=1983.6 *14*. 1984 *3* (1965Er06); 1983 *3* (1972Ho40); 1983.6 *14* (1974Jo02); 1984.2 *6* (1974Jo02, (p,p_1)). J^π: $(1,2,3)^-$ (1971BrXT, (p,p_0)) and (2^+) from γ decay May indicate a doublet. Γ=15 *5* keV (1965Er06). S(p,γ)=6.1, S(P,P_1)=2.6.
10439.4 *19*	2^+	E(p)(lab)=1988.1 *20*.

Continued on next page (footnotes at end of table)

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)[†‡#]	J^{π}[a]	Comments
		1988.1 *20* (1968Bo06). S(P,α_0)=250.
10462.2 *9*	2^-	E(p)(lab)=2011.6 *9* (1974Jo02, (p,p_1)). Γ=5.1 keV (1971BrXT). S(P,P_1)=3.9.
10475.3 *21*		E(p)(lab)=2025.0 *22* (1968Bo06). S(P,α_0)=4.7.
10488.1 *20*	$(3^-,4^+)$	E(p)(lab)=2038.2 *21* (1968Bo06). S(P,α_0)=60.
10500.2 *5*	$(1,2,3)^-$	E(p)(lab)=2050.7 *5*. 2051.3 *7* (1974Jo02); 2050.7 *5* (1974Jo02, (p,p_1)). Γ=2.5 keV (1971BrXT). S(p,γ)=1.3, S(P,P_1)=33.
10524 *3*		E(p)(lab)=2075 *3* (1968Bo06). Γ=7.1 *20* keV (1968Bo06). S(P,α_0)=50.
10539.6 *12*	3^-	E(p)(lab)=2091.2 *12*. 2091 *3* (1965Er06); 2091.6 *16* (1974Jo02); 2091.2 *12* (1974Jo02, (p,p_1)). S(p,γ)=7.0, S(P,P_1)=29.
10558.5 *20*	2^+	E(p)(lab)=2110.6 *21*. 2110.6 *21* (1968Bo06).
10562.1 *9*	3^-	E(p)(lab)=2114.3 *9*. 2113 *3* (1965Er06); 2114.1 *10* (1974Jo02); 2114.3 *9* (1974Jo02, (p,p_1)). S(p,γ)=2.1, S(P,P_1)=1.4, S(P,α_0)=140.
10568.3 *21*		E(p)(lab)=2120.7 *22* (1968Bo06). S(P,α_0)=3.4.
10582.9 *6*	5^-	E(p)(lab)=2135.7 *6*. 2135 *3* (1965Er06); 2135.7 *13* (1972Ho40); 2135.9 *10* (1974Jo02); 2135.7 *6* (1974Jo02, (p,p_1)). S(p,γ)=2.7, S(P,P_1)=1.1.
10593.3 *21*	2^+	E(p)(lab)=2146.4 *22* (1968Bo06). S(P,α_0)=220.
10615.6 *7*	4^-	E(p)(lab)=2169.4 *7*. 2168 *3* (1965Er06); 2166.9 *5* (1972Ho40); 2169.5 *10* (1974Jo02); 2169.4 *7* (1974Jo02, (p,p_1)); 2168 *3* (1968Bo06). Γ=2.9 *5* keV (1968Bo06). S(p,γ)=10, S(P,P_1)=5.9, S(P,α_0)=60.
10617.9 *21*	3^-	E(p)(lab)=2171.7 *22* (1968Bo06). S(P,α_0)=60.
10635.7 *5*	1^-	E(p)(lab)=2190.1 *5*. 2191 *3* (1965Er06); 2190 *3* (1972Ho40); 2189.4 *10* (1974Jo02); 2190.1 *5* (1974Jo02, (p,p_1)). Γ=4.1 keV (1971BrXT), Γ=7 *2* keV (1965Er06). S(p,γ)=5.3, S(P,P_1)=3.0.
10646.7 *10*		E(p)(lab)=2201.4 *10* (1974Jo02, (p,p_1)). S(P,P_1)=8.2.
10650.6 *11*	1^-	E(p)(lab)=2205.4 *11*. 2205.4 *11* (1974Jo02, (p,p_1)); 2207 *3* (1968Bo06). Γ=2.0 *5* keV (1968Bo06), Γ=1.5 keV (1971BrXT). S(P,P_1)=26, S(P,α_0)=1000.
10664.1 *21*	$(0^+,1^-,2^+)$	E(p)(lab)=2219.3 *22* (1968Bo06). S(P,α_0)=40.
10674.3 *22*	$(3^-,4^+)$	E(p)(lab)=2229.8 *23* (1968Bo06). S(P,α_0)=19.
10675.9 *10*	5	E(p)(lab)=2231.4 *10*. 2231 *3* (1965Er06); 2230.4 *7* (1972Ho40); 2231.4 *10* (1974Jo02); 2231.5 *10* (1974Jo02, (p,p_1)). S(p,γ)=9.7, S(P,P_1)=7.0.
10683.9 *10*	1^-	E(p)(lab)=2239.6 *10* (1974Jo02, (p,p_1)).

Continued on next page (footnotes at end of table)

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)[†‡#]	J$^{\pi}$[a]	T$_{1/2}$[@&]	Comments
			Γ=6.2 keV (1971BrXT).
			S(P,P$_1$)=54.
10700.4 *15*	2$^+$		E(p)(lab)=2256.6 *15*.
			2256 *3* (1965Er06); 2256.6 *15* (1974Jo02); 2258.4 *23* (1968Bo06).
			Γ=300 eV (1971BrXT).
			S(p,γ)=5.4, S(P,P$_1$)=4.7, S(P,α_0)=80.
10701.7 *12*	(0$^+$,1$^-$,2$^+$)		E(p)(lab)=2258.0 *12*.
			2256.7 *9* (1972Ho40); 2258.0 *12* (1974Jo02, (p,p$_1$)); 2260.1 *25* (1968Bo06).
			S(P,α_0)=190.
10738.7 *97*			E(p)(lab)=2296 *10* (1968Bo06).
			Γ=45 *15* keV (1968Bo06).
			S(P,α_0)=340.
10751.6 *15*			E(p)(lab)=2309.3 *15* (1974Jo02, (p,p$_1$)).
			S(P,P$_1$)=1.5.
10759.1 *19*	4$^+$		E(p)(lab)=2317 *2*.
10760.9 *15*	(2,3)$^-$		E(p)(lab)=2318.9 *15*.
			2318.9 *15* (1974Jo02, (p,p$_1$)); 2318.0 *23* (1968Bo06).
			S(P,P$_1$)=1.5, S(P,α_0)=160.
10763.8 *22*	4$^+$		E(p)(lab)=2321.9 *23* (1968Bo06).
			S(P,α_0)=26.
10780.0 *22*	4$^+$		E(p)(lab)=2338.5 *23* (1968Bo06).
			S(P,α_0)=60.
10790.1 *15*	(0$^+$,1$^-$,2$^+$)		E(p)(lab)=2348.9 *15*.
			2348.9 *15* (1974Jo02, (p,p$_1$)); 2348.0 *25* (1968Bo06).
			S(P,P$_1$)=1.5, S(P,α_0)=13.
10808.9 *12*			E(p)(lab)=2368.3 *12*.
			2368.3 *12* (1974Jo02); 2367.5 *15* (1974Jo02, (p,p$_1$)); 2368.2 *15* (1976Hu01).
			S(p,γ)=4.0, S(P,P$_1$)=1.6.
10816.0 *29*			E(p)(lab)=2375.6 *25*.
			2375.6 *25* (1968Bo06).
			S(P,α_0)=3.7.
10823.4 *15*			E(p)(lab)=2383.2 *15* (1976Hu01).
10832.3 *15*	(1$^-$,3$^-$,4$^+$)		E(p)(lab)=2392.3 *15*.
			2390.1 *15* (1974Jo02, (p,p$_1$)); 2392.3 *15* (1976Hu01); 2392.5 *24* (1968Bo06).
			S(P,P$_1$)=1.3, S(P,α_0)=31.
10845.7 *15*			E(p)(lab)=2406.1 *15*.
			2403.8 *15* (1974Jo02, (p,p$_1$)); 2406.1 *15* (1976Hu01).
			S(P,P$_1$)=0.7.
10852.0 *15*	2$^+$		E(p)(lab)=2412.6 *15*.
			2410.0 *15* (1974Jo02, (p,p$_1$)); 2412.6 *15* (1976Hu01).
			S(P,P$_1$)=1.4.
10853.8 *15*	0$^+$	<4 fs	E(p)(lab)=2414.4 *15*.
			2414.4 *15* (1976Hu01); 2410 *4* (1976Ma40); 2413.1 *24* (1968Bo06).
			S(p,γ)=0.10 (1976Hu01), S(P,α_0)=290.
			Γ_γ=80 *5* meV (1976Ma40).
10865 *7*	(1$^-$,3$^-$),4$^+$		E(p)(lab)=2426 *7* (1968Bo06).
			Γ=18 *5* keV (1968Bo06).
			S(P,α_0)=190.
10898.6 *15*			E(p)(lab)=2460.5 *15* (1974Jo02, (p,p$_1$)).
			S(P,P$_1$)=180.
10902 *3*	1$^-$		E(p)(lab)=2464 *3* (1968Bo06).
			Γ=1.2 *5* keV (1968Bo06).
			S(P,α_0)=390.
10906.0 *10*			E(p)(lab)=2468.1 *10*.
			2468.1 *10* (1974Jo02); 2468.5 *15* (1974Jo02, (p,p$_1$)).
			S(P,P$_1$)=14.
10917 *3*			E(p)(lab)=2480 *3* (1968Bo06).

Continued on next page (footnotes at end of table)

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)†‡#	Jπa	Comments
		S(P,α_0)=7.
10934 *3*		E(p)(lab)=2497 *3* (1968Bo06).
		S(P,α_0)=7.
10939 *3*		E(p)(lab)=2502 *3* (1968Bo06).
		S(P,α_0)=5.
10955.7 *12*		E(p)(lab)=2519.3 *12* (1974Jo02).
10960.3 *24*	2^+	E(p)(lab)=2524.0 *25* (1968Bo06).
		S(P,α_0)=830.
10968.1 *15*		E(p)(lab)=2532.0 *15*.
		2532.0 *15* (1974Jo02); 2533.3 *15* (1974Jo02, (p,p$_1$)).
		S(P,P$_1$)=1400.
10976.2 *24*	4^+	E(p)(lab)=2540.4 *25* (1968Bo06).
		S(P,α_0)=150.
10986.0 *15*		E(p)(lab)=2550.5 *15* (1974Jo02, (p,p$_1$)).
		S(P,P$_1$)=380.
10993.5 *24*	$0^+,1^-,2^+$	E(p)(lab)=2558.2 *25* (1968Bo06).
		S(P,α_0)=70.
11014.3 *15*		E(p)(lab)=2579.6 *15* (1974Jo02, (p,p$_1$)).
		S(P,P$_1$)=5.8.
11027.7 *15*		E(p)(lab)=2593.4 *15*.
		2595 *4* (1965Er06); 2593.4 *15* (1974Jo02); 2594.8 *15* (1974Jo02, (p,p$_1$)); 2595 *3* (1968Bo06).
		Γ=1.0 *5* keV (1968Bo06).
		S(P,P$_1$)=23, S(P,α_0)=800.
11043.4 *15*	4^+	E(p)(lab)=2609.5 *15*.
		2609.5 *15* (1974Jo02, (p,p$_1$)); 2610 *3* (1968Bo06).
		S(P,P$_1$)=190, S(P,α_0)=160.
11050 *3*	$0^+,1^-,2^+$	E(p)(lab)=2616 *3* (1968Bo06).
		Γ=0.9 *5* keV (1968Bo06).
		S(P,α_0)=500.
11059.7 *15*	$1^-,3^-$	E(p)(lab)=2626.3 *15*.
		2626.3 *15* (1974Jo02, (p,p$_1$)); 2630 *3* (1968Bo06).
		Γ=1.3 *5* keV (1968Bo06).
		S(P,P$_1$)=4.0, S(P,α_0)=410.
11086.1 *15*		E(p)(lab)=2653.4 *15* (1974Jo02, (p,p$_1$)).
		S(P,P$_1$)=220.
11091 *3*	$4^+,(5^-)$	E(p)(lab)=2658 *3* (1968Bo06).
		S(P,α_0)=24.
11110 *3*	$0^+,1^-,2^+,3^-$	E(p)(lab)=2678 *3* (1968Bo06).
		S(P,α_0)=25.
11118.8 *15*		E(p)(lab)=2687.1 *15*.
		2687.1 *15* (1974Jo02, (p,p$_1$)); 2688 *4* (1968Bo06).
		Γ=5.5 *15* keV (1968Bo06).
		S(P,P$_1$)=140, S(P,α_0)=110.
11123.2 *25*	3^-	E(p)(lab)=2691.6 *26* (1968Bo06).
		S(P,α_0)=260.
11131.4 *15*	$1^-,3^-$	E(p)(lab)=2700.0 *15* (1974Jo02, (p,p$_1$)).
		2700.0 *15* (1974Jo02, (p,p$_1$)); 2704 *3* (1968Bo06).
		S(P,P$_1$)=10, S(P,α_0)=430.
11149.4 *15*		E(p)(lab)=2718.6 *15*.
		2720 *4* (1965Er06); 2718.6 *15* (1974Jo02).
11155.9 *15*	2^+	E(p)(lab)=2725.3 *15* (1974Jo02, (p,p$_1$)).
		2725.3 *15* (1974Jo02, (p,p$_1$)); 2729 *3* (1968Bo06).
		Γ=1.1 *5* keV (1968Bo06).
		S(P,P$_1$)=770, S(P,α_0)=420.
11167.8 *15*		E(p)(lab)=2737.5 *15* (1974Jo02, (p,p$_1$)).
		S(P,P$_1$)=870.
11182.3 *15*		E(p)(lab)=2752.4 *15* (1974Jo02, (p,p$_1$)).

Continued on next page (footnotes at end of table)

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

^{36}Ar Levels (continued)

E(level)†‡#	Jπa	Comments
		2751.7 *15* (1974Jo02); 2752.4 *15* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=6.4.
11206.7 *15*		E(p)(lab)=2777.5 *15*. 2777.5 *15* (1974Jo02, (p,p$_1$)); 2777 *3* (1968Bo06). S(P,P$_1$)=64, S(P,α_0)=13.
11210 *3*		E(p)(lab)=2781 *3* (1968Bo06). S(P,α_0)=900.
11215.7 *15*		E(p)(lab)=2786.8 *15* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=43.
11224 *3*	1$^-$,2$^-$	E(p)(lab)=2795 *3* (1968Bo06). Γ=1.0 *5* keV (1968Bo06). S(P,α_0)=460.
11237.6 *15*		E(p)(lab)=2809.3 *15* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=870.
11243 *3*	(1$^-$)	E(p)(lab)=2814 *3* (1968Bo06). Γ=1.6 *5* keV (1968Bo06). S(P,α_0)=4000.
11248 *3*		E(p)(lab)=2820 *3* (1968Bo06). S(P,α_0)=290.
11269.7 *15*		E(p)(lab)=2842.3 *15* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=400.
11278 *3*	3$^-$	E(p)(lab)=2851 *3* (1968Bo06). S(P,α_0)=220.
11303 *3*		E(p)(lab)=2877 *3* (1968Bo06). S(P,α_0)=11.
11312 *3*	4$^+$,5$^-$	E(p)(lab)=2886 *3* (1968Bo06). S(P,α_0)=150.
11321.9 *19*		E(p)(lab)=2896 *2* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=130.
11336.4 *19*	2$^+$	E(p)(lab)=2911 *2*. 2911 *4* (1965Er06); 2909 *2* (1974Jo02); 2911 *2* (1974Jo02, (p,p$_1$)); 2913 *3* (1968Bo06). Γ=0.8 *5* keV (1968Bo06). S(P,P$_1$)=320, S(P,α_0)=90.
11344 *3*	1$^-$	E(p)(lab)=2919 *3* (1968Bo06). S(P,α_0)=140.
11358.8 *19*		E(p)(lab)=2934 *2* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=2400.
11419.1 *19*		E(p)(lab)=2996 *2* (1974Jo02, (p,p$_1$)). S(P,P$_1$)=2500.

† Energies of the bound levels are weighted averages of values listed In comments.

‡ For resonance level energies the following formula was used by the evaluators: E_x = S(p)+E(p)(lab) × AM(^{35}Cl)/[AM(^{35}Cl)+AM(P)], with S(p)(^{36}Ar)=8506.99 *5* and the atomic masses (AM) of ^{35}Cl and proton from 2011AuZZ.

E(p)(lab) from 1974Jo02 ((p,γ) reaction), unless stated otherwise.

@ Except when noted otherwise, half lives are from 1990En08.

& For all resonances measured by 1968Bo06 which do not have a measured Γ value listed In the table 1968Bo06 give an upper limit Γ<0.5 keV.

a From resonance analysis (1968Bo06–(P,α_0) and 1971BrXT-(P,P$_0$)), $\gamma(\theta)$, $\gamma\gamma(\theta)$ and polarization measurements (1972Ho40,1966Er06), and RUL (1974Jo02), except when noted otherwise.

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

γ(^{36}Ar)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
1970.38	2^+	1970.3	100	0.0	0^+	E2[&]		
4178.32	3^-	2207.9	93.2 *9*	1970.38	2^+	E1(+M2)[&]	−0.04[&] *2*	
		4178.1	6.8 *9*	0.0	0^+			
4329.1	$(0,1,2)^+$	2358.6	100	1970.38	2^+			
		4328.8	<10	0.0	0^+			
4414.40	4^+	2443.9	100	1970.38	2^+	E2(+M3)[&]	+0.05[&] *3*	Mult.: also A_2=+0.40 *2*, A_4=−0.18 *3* (2002Ro24).
		4414.1	<2	0.0	0^+			
4440.11	2^+	2469.6	36 *2*	1970.38	2^+			
		4439.8	64 *2*	0.0	0^+			
4951.4	2^+	537.0	<6	4414.40	4^+			
		773.1	<2	4178.32	3^-			
		2980.9	15 *4*	1970.38	2^+			
		4951.0	85 *4*	0.0	0^+			
4974.05	2^-	533.9	<0.3	4440.11	2^+			
		559.6	<0.4	4414.40	4^+			
		795.7	78 *2*	4178.32	3^-	M1+E2[&]	−0.21[&] *7*	
		3003.5	4 *1*	1970.38	2^+			
		4973.7	18 *2*	0.0	0^+			
5171.13	5^-	197.1	<4	4974.05	2^-			
		219.7	<3	4951.4	2^+			
		731.0	<0.3	4440.11	2^+			
		756.7	12 *2*	4414.40	4^+			
		992.8	82 *3*	4178.32	3^-	E2(+M3)[&]	−0.04[&] *2*	
		3200.6	6 *1*	1970.38	2^+			
		5170.7	<1	0.0	0^+			
5194.4	$(0^+,1^+,2^+,3^-)$	754.3	<3	4440.11	2^+			
		780.0	<3	4414.40	4^+			
		3223.9	100	1970.38	2^+			
		5194.4	<10	0.0	0^+			
5836.0	1^-	664.9	<1	5171.13	5^-			
		861.9	<1	4974.05	2^-			
		884.6	<1	4951.4	2^+			
		1395.9	<1	4440.11	2^+			
		1421.6	<1	4414.40	4^+			
		1506.9	<1	4329.1	$(0,1,2)^+$			
		1657.6	1 *1*	4178.32	3^-			
		3865.4	4 *2*	1970.38	2^+			
		5835.5	95 *2*	0.0	0^+	E1		
5856.65	3^-	x[@]	8					
		685.5	<1	5171.13	5^-			
		882.6	<2	4974.05	2^-			

$^{36}_{18}Ar_{18}$-11

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
5856.65	3$^-$	905.2	<2	4951.4	2$^+$			
		1416.5	<5	4440.11	2$^+$			
		1442.2	<4	4414.40	4$^+$			
		1527.5	<3	4329.1	(0,1,2)$^+$			
		1678.3	13.0 *10*	4178.32	3$^-$	M1+E2	−0.46 *17*	δ: or +2.9 *9*.
		3886.0	76 *2*	1970.38	2$^+$	E1(+M2)	+0.02 *2*	
		5856.7	3.0 *10*	0.0	0$^+$			
5895.92	4$^-$	724.8	<1	5171.13	5$^-$			
		921.9	<1	4974.05	2$^-$			
		1481.5	<3	4414.40	4$^+$			
		1566.8	<2	4329.1	(0,1,2)$^+$			
		1717.6	94 *2*	4178.32	3$^-$	M1+E2	+0.16 *2*	I_γ: from 1974Jo02; 100 (1972Ho40).
		3925.3	6 *2*	1970.38	2$^+$			I_γ: from 1974Jo02 marked As uncertain;<3 (1972Ho40).
		5895.4	<3	0.0	0$^+$			
6136.5	4$^+$	4165.9	100	1970.38	2$^+$			
6217.3	5$^-$	x[@]	12					
		360.7	<3	5856.65	3$^-$			
		381.3	<3	5836.0	1$^-$			
		1046.2	2.0 *5*	5171.13	5$^-$			I_γ: from 1974Jo02 marked As uncertain;<2 (1972Ho40).
		1243.2	<1	4974.05	2$^-$			
		1265.9	<2	4951.4	2$^+$			
		1777.1	<1	4440.11	2$^+$			
		1802.9	9 *3*	4414.40	4$^+$	E1(+M2)	+0.03 *7*	
		1888.1	<2	4329.1	(0,1,2)$^+$			
		2038.9	77 *4*	4178.32	3$^-$	E2(+M3)	+0.01 *2*	
		4246.7	<2	1970.38	2$^+$			
		6216.7	<2	0.0	0$^+$			
6356.0	4$^+$	1404.6	<6	4951.4	2$^+$			
		1915.8	15 *2*	4440.11	2$^+$			
		1941.5	37 *2*	4414.40	4$^+$			
		4385.3	48 *2*	1970.38	2$^+$	E2		
		6355.4	<7	0.0	0$^+$			
6611.0		754.3	<2	5856.65	3$^-$			
		775.0	<1	5836.0	1$^-$			
		1439.8	<5	5171.13	5$^-$			
		1660	<5	4951.4	2$^+$			
		2170.8	<6	4440.11	2$^+$			
		2196.5	<5	4414.40	4$^+$			
		2281.8	<6	4329.1	(0,1,2)$^+$			
		2432.6	82 *3*	4178.32	3$^-$			
		4640.3	<5	1970.38	2$^+$			
		6610.3	18 *3*	0.0	0$^+$			
6645.6	(2$^+$,3$^+$,4$^+$)	2205.4	100	4440.11	2$^+$			

$^{36}_{18}Ar_{18}$-12

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
6724	NOT 1^+	x[@]	30					
		6723	70 *10*	0.0	0^+			
6835.16	4^-	978.5	4.5 *10*	5856.65	3^-			
		1664.0	36 *3*	5171.13	5^-	M1+E2	+0.7 *3*	δ: or +1.5 *+40−4*.
		1861.1	37 *3*	4974.05	2^-			
		1883.7	<2	4951.4	2^+			
		2395.0	4.5 *10*	4440.11	2^+			
		2506.0	<2	4329.1	$(0,1,2)^+$			
		2656.7	18 *2*	4178.32	3^-	M1+E2	+0.32 *8*	δ: or>+4.
		4864.4	<2	1970.38	2^+			
		6834.5	<1	0.0	0^+			
6836.50	3^-	1665.3	26 *2*	5171.13	5^-	E2(+M3)	+0.07 *9*	
		1862.4	11 *4*	4974.05	2^-			
		1885.1	3.5 *5*	4951.4	2^+			
		2396.3	2.5 *10*	4440.11	2^+			I_γ: from 1974Jo02 marked As uncertain;<2 (1972Ho40).
		2425	<2	4414.40	4^+			
		2658.7	57 *4*	4178.32	3^-	M1+E2	−1.9 *5*	δ: or +1.5 *+40−4*.
		4865.8	<5	1970.38	2^+			
		6835.8	<1	0.0	0^+			
6866.9	$(1,2^+)$	4896.2	75 *5*	1970.38	2^+			
		6866.2	25 *5*	0.0	0^+			
7136.5	$(1^-,2^+)$	1300.5	<1	5836.0	1^-			
		2162.4	<2	4974.05	2^-			
		2696.3	<3	4440.11	2^+			
		2722.0	<2	4414.40	4^+			
		2958.0	<4	4178.32	3^-			
		5165.7	21 *2*	1970.38	2^+			
		7135.7	79 *2*	0.0	0^+			
7139.6	3^+	1282.9	<2	5856.65	3^-			
		1303.6	<2	5836.0	1^-			
		2699.4	53 *5*	4440.11	2^+	M1+E2[&]	−0.28 *3*	δ: or −1.5 *2* (1973Ho33).
		2725.1	<3	4414.40	4^+			
		2961.1	<3	4178.32	3^-			
		5168.8	47 *5*	1970.38	2^+			
		7138.8	<2	0.0	0^+			
7178.9	$(1,2^+)$	5208.1	33 *10*	1970.38	2^+			
		7178.1	67 *10*	0.0	0^+			
7247.4	NOT 0^-	3068.9	<5	4178.32	3^-			
		5276.6	100	1970.38	2^+			
		7246.6	<6	0.0	0^+			
7258.6	3^-	x[@]	10					
		3080.1	<12	4178.32	3^-			

$^{36}_{18}Ar_{18}$-13

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
7258.6	3^-	5287.8	90 *5*	1970.38	2^+	E1(+M2)	−0.14 *+19−9*	δ: or −3.2 *8*.
		7257.8	<15	0.0	0^+			
7336.6	3^+	1479.9	<4	5856.65	3^-			
		2362.5	<3	4974.05	2^-			
		2385.1	<5	4951.4	2^+			
		2896.4	54 *2*	4440.11	2^+			
		2922.1	11 *2*	4414.40	4^+	M1(+E2)	+0.02 *7*	δ: or −4.0 *9*.
		3007.4	<7	4329.1	$(0,1,2)^+$			
		3158.1	9 *2*	4178.32	3^-			
		5365.8	26 *3*	1970.38	2^+	M1+E2	+0.31 *10*	δ: or +7>.
		7335.8	<3	0.0	0^+			
7353.9	6^-	1497.2	<6	5856.65	3^-			
		1517.9	<4	5836.0	1^-			
		2182.7	100	5171.13	5^-	M1+E2	−6.0 *9*	
		2379.8	<4	4974.05	2^-			
		2402.4	<4	4951.4	2^+			
		2913.7	<3	4440.11	2^+			
		2939.4	<4	4414.40	4^+			
		3024.7	<8	4329.1	$(0,1,2)^+$			
		3175.4	<7	4178.32	3^-			
		5383.1	<5	1970.38	2^+			
		7353.1	<3	0.0	0^+			
7432.3		5461.5	35 *15*	1970.38	2^+			
		7431.5	65 *15*	0.0	0^+			
7573.1	4^-	1677.1	5 *1*	5895.92	4^-			
		1737.1	<2	5836.0	1^-			
		2401.9	47 *2*	5171.13	5^-	M1+E2	−0.49 *4*	δ: or −1.68 *12*.
		2598.9	8 *1*	4974.05	2^-	E2		
		2621.6	<1	4951.4	2^+			
		3132.8	<2	4440.11	2^+			
		3158.6	5 *2*	4414.40	4^+			
		3243.8	<2	4329.1	$(0,1,2)^+$			
		3394.6	33 *3*	4178.32	3^-	M1+E2	−0.07 *4*	δ: or −3.2 *5*.
		5602.3	2.0 *4*	1970.38	2^+			
		7572.2	<1	0.0	0^+			
7672.1	NOT $(1,2)^-$	2697.9	20 *7*	4974.05	2^-			
		5701.2	80 *7*	1970.38	2^+			
7710.3	1	5739.4	63 *7*	1970.38	2^+			
		7709.4	37 *7*	0.0	0^+			
7749.7	NOT 0^-	5778.8	100	1970.38	2^+			
7879	NOT $(0,3)^-$	2043	60 *6*	5836.0	1^-			
		2905	40 *6*	4974.05	2^-			
8015.9	$(3,4)^-$	2159.2	23 *3*	5856.65	3^-			

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Comments
8015.9	(3,4)$^-$	2844.6	18 *2*	5171.13	5$^-$	
		3041.7	45 *4*	4974.05	2$^-$	
		3575.6	<2	4440.11	2$^+$	
		3601.3	2.0 *10*	4414.40	4$^+$	I_γ: 2.0 *0* In 197402 is replaced by 2.0 *10* by evaluators.
		3837.4	12 *2*	4178.32	3$^-$	
		6045.0	<3	1970.38	2$^+$	
		8014.9	<1	0.0	0$^+$	
8131.9	1,(2$^+$)	6161.0	40 *7*	1970.38	2$^+$	
		8130.9	60 *7*	0.0	0$^+$	
8332.5	NOT (0 to 2)$^-$	x @	70			
		4153.9	30 *5*	4178.32	3$^-$	
8472.0	(3$^-$,4$^-$,5$^-$)	2254.6	4.0 *10*	6217.3	5$^-$	
		2576.0	13 *2*	5895.92	4$^-$	
		2615.2	21 *2*	5856.65	3$^-$	
		2635.9	<2	5836.0	1$^-$	
		3300.7	32 *2*	5171.13	5$^-$	
		3497.8	<2	4974.05	2$^-$	
		3520.4	<2	4951.4	2$^+$	
		4057.4	28 *2*	4414.40	4$^+$	
		4293.4	2.0 *6*	4178.32	3$^-$	
		6501.0	<1	1970.38	2$^+$	
		8470.9	<1	0.0	0$^+$	
8806.4		6835.3	100	1970.38	2$^+$	I_γ: from 1994Il01.
8938.8	(2$^+$,3,4$^-$)	1266.7	3.6 *19*	7672.1	NOT (1,2)$^-$	I_γ: from 1994Il01.
		2102.2	7.3 *23*	6836.50	3$^-$	I_γ: from 1994Il01.
		3082.0	27.1 *39*	5856.65	3$^-$	I_γ: from 1994Il01.
		3964.5	2.8 *12*	4974.05	2$^-$	I_γ: from 1994Il01.
		4524.1	9.6 *26*	4414.40	4$^+$	I_γ: from 1994Il01.
		4609.4	<1	4329.1	(0,1,2)$^+$	
		4760.1	47.2 *45*	4178.32	3$^-$	I_γ: from 1994Il01.
		6967.7	2.4 *10*	1970.38	2$^+$	I_γ: from 1994Il01.
		8937.6	<0.2	0.0	0$^+$	
9014.9	(3$^-$,4,5$^-$)	3843.5	100	5171.13	5$^-$	
		4600.2	<5	4414.40	4$^+$	
		4685.5	<8	4329.1	(0,1,2)$^+$	
		4836.2	<3	4178.32	3$^-$	
		7043.8	<6	1970.38	2$^+$	
		9013.7	<1.4	0.0	0$^+$	
9025.3	2	2158.3	1	6866.9	(1,2$^+$)	
		4051.6	1	4974.05	2$^-$	
		4610.6	<1	4414.40	4$^+$	
		4695.9	<1	4329.1	(0,1,2)$^+$	
		4846.6	7	4178.32	3$^-$	I_γ: 6.4 *16* (1994Il01).

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Comments
9025.3	2	7054.2	90	1970.38	2^+	I_γ: 93.6 *81* (1994Il01).
		9024.1	1	0.0	0^+	
9066.4	3^-	1729.8	3	7336.6	3^+	I_γ: 5.1 *22* (1994Il01).
		2229.8	12	6836.50	3^-	I_γ: 18.3 *27* (1994Il01).
		3170.3	3	5895.92	4^-	
		3209.6	28	5856.65	3^-	I_γ: 27.4 *45* (1994Il01).
		3895.0	1	5171.13	5^-	
		4092.1	5	4974.05	2^-	I_γ: 6.5 *24* (1994Il01).
		4114.7	3	4951.4	2^+	
		4626.0	8	4440.11	2^+	I_γ: 12.4 *31* (1994Il01).
		4651.7	5.7 *19*	4414.40	4^+	
		4737.0	<1	4329.1	$(0,1,2)^+$	
		4887.7	23	4178.32	3^-	I_γ: 24.6 *23* (1994Il01).
		7095.3	<1	1970.38	2^+	
		9065.2	<0.3	0.0	0^+	
9116.3		9115.1	100	0.0	0^+	
9132.5	3^-	2295.9	7	6836.50	3^-	I_γ: 7.1 *16* (1994Il01).
		2521.4	2	6611.0		
		3236.4	4	5895.92	4^-	I_γ: 2.4 *10* (1994Il01).
		3275.5	9	5856.65	3^-	I_γ: 11.2 *38* (1994Il01).
		3296.3	1	5836.0	1^-	I_γ: 1.2 *9* (1994Il01).
		4158.2	5	4974.05	2^-	I_γ: 6.0 *16* (1994Il01).
		4717.8	2	4414.40	4^+	I_γ: 2.0 *12* (1994Il01).
		4803.1	<1	4329.1	$(0,1,2)^+$	
		4953.8	15	4178.32	3^-	I_γ: 12.5 *24* (1994Il01).
		7161.4	54	1970.38	2^+	I_γ: 57.6 *60* (1994Il01).
		9131.3	1	0.0	0^+	
9144.9	$(2^+,3^-)$	2308.3	2	6836.50	3^-	
		3308.7	7	5836.0	1^-	I_γ: 5.8 *22* (1994Il01).
		4170.6	1	4974.05	2^-	
		4704.5	31	4440.11	2^+	I_γ: 34.6 *55* (1994Il01).
		4730.2	2	4414.40	4^+	
		4815.5	<1	4329.1	$(0,1,2)^+$	
		4966.2	24	4178.32	3^-	I_γ: 29.4 *50* (1994Il01).
		7173.8	32	1970.38	2^+	I_γ: 30.2 *47* (1994Il01).
		9143.7	1	0.0	0^+	
9192.1	$(3^-,4^+)$	1520.0	2	7672.1	NOT $(1,2)^-$	
		1855.4	19	7336.6	3^+	
		2355.5	10	6836.50	3^-	
		2468.0	5	6724	NOT 1^+	
		2836.0	2	6356.0	4^+	
		2974.7	4	6217.3	5^-	
		3055.5	2	6136.5	4^+	

$^{36}_{18}Ar_{18}$-16

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Comments
9192.1	(3$^-$,4$^+$)	3296.0	5	5895.92	4$^-$	
		3335.3	4	5856.65	3$^-$	
		4020.7	9	5171.13	5$^-$	
		4240.4	8	4951.4	2$^+$	
		4751.5	3	4440.11	2$^+$	
		4777.4	19	4414.40	4$^+$	
		4862.6	<1	4329.1	(0,1,2)$^+$	
		5013.4	8	4178.32	3$^-$	
		7220.9	<2	1970.38	2$^+$	
		9190.8	<3	0.0	0$^+$	
9220.2	1$^+$	3384.0	0.8	5836.0	1$^-$	I_γ: 0.8 *4* (1994Il01).
		4245.9	3	4974.05	2$^-$	I_γ: 3.1 *6* (1994Il01).
		4268.5	0.8	4951.4	2$^+$	
		4779.7	11	4440.11	2$^+$	I_γ: 11.7 *12* (1994Il01).
		4805.5	<1	4414.40	4$^+$	
		4890.7	0.4	4329.1	(0,1,2)$^+$	
		5041.5	<1	4178.32	3$^-$	
		7249.0	50	1970.38	2$^+$	I_γ: 47.3 *33* (1994Il01).
		9218.9	34	0.0	0$^+$	I_γ: 37.1 *27* (1994Il01).
9240.5	(1$^-$,2$^-$,3$^-$)	1993.0	7	7247.4	NOT 0$^-$	
		2103.9	6	7136.5	(1$^-$,2$^+$)	
		2373.5	3	6866.9	(1,2$^+$)	
		3404.3	8	5836.0	1$^-$	
		4266.2	6	4974.05	2$^-$	
		4288.8	8	4951.4	2$^+$	
		4825.8	<1	4414.40	4$^+$	
		4911.0	4	4329.1	(0,1,2)$^+$	
		5061.8	2	4178.32	3$^-$	
		7269.3	56	1970.38	2$^+$	
		9239.2	<0.4	0.0	0$^+$	
9248.4	(1$^-$,2$^-$,3$^-$)	2411.8	16	6836.50	3$^-$	
		3391.6	4	5856.65	3$^-$	
		3412.2	3	5836.0	1$^-$	
		4274.1	3	4974.05	2$^-$	
		4807.9	33	4440.11	2$^+$	
		4833.7	<1	4414.40	4$^+$	
		4918.9	<2	4329.1	(0,1,2)$^+$	
		5069.7	11	4178.32	3$^-$	
		7277.2	29	1970.38	2$^+$	
		9247.1	1	0.0	0$^+$	
9258.3	3$^-$	2423.1	4	6835.16	4$^-$	
		2902.2	3	6356.0	4$^+$	
		3362.2	7	5895.92	4$^-$	

$^{36}_{18}Ar_{18}$-17

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

γ(^{36}Ar) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
9258.3	3⁻	3401.5	3	5856.65	3⁻			
		3422.1	2	5836.0	1⁻			
		4284.0	3	4974.05	2⁻			
		4306.6	2	4951.4	2⁺			
		4817.8	22	4440.11	2⁺			
		4843.6	12	4414.40	4⁺			
		4928.8	<1	4329.1	(0,1,2)⁺			
		5079.6	36	4178.32	3⁻			
		7287.1	6	1970.38	2⁺			
		9257.0	<1	0.0	0⁺			
9300.1	4⁻	1628.0	0.6	7672.1	NOT (1,2)⁻			
		2041.4	3	7258.6	3⁻			
		2464.8	47	6835.16	4⁻	M1(+E2)	0.0 *2*	Mult.,δ: A_2=+0.29 *2*, A_4=0.00 *2* (1973Ho33).
		3082.7	4	6217.3	5⁻			
		3404.0	13	5895.92	4⁻	M1(+E2)	−0.12 *17*	Mult.,δ: A_2=+0.23 *3*, A_4=−0.04 *3* (1973Ho33).
		3443.3	5	5856.65	3⁻	M1(+E2)	−0.01 *7*	Mult.,δ: A_2=−0.29 *7*, A_4=+0.19 *7* (1973Ho33).
		4128.7	14	5171.13	5⁻	M1(+E2)	+0.05 *+8−3*	Mult.,δ: A_2=−0.13 *5*, A_4=−0.04 *5* (1973Ho33).
		4885.3	6	4414.40	4⁺	E1(+M2)	−0.1 *2*	Mult.,δ: A_2=+0.23 *5*, A_4=+0.02 *5*(1973Ho33).
		5121.4	7	4178.32	3⁻	M1(+E2)	+0.02 *6*	Mult.,δ: A_2=−0.15 *4*, A_4=−0.04 *4* (1973Ho33).
		7328.9	0.4	1970.38	2⁺			
9342.5	3⁻	1769.4	1	7573.1	4⁻			I_γ: 2.4 *10* (1994Il01).
		2505.9	12	6836.50	3⁻	M1+E2	+0.09 *4*	Mult.,δ: A_2=+0.27 *3*, A_4=0.00 *3* (1973Ho33). I_γ: 13.0 *40* (1994Il01).
		3446.4	5	5895.92	4⁻	M1(+E2)	−0.02 *3*	Mult.,δ: A_2=−0.06 *4*, A_4=−0.02 *4* (1973Ho33). I_γ: 4.9 *12* (1994Il01).
		3485	6	5856.65	3⁻	M1+E2	+0.10 *7*	Mult.,δ: A_2=+0.31 *3*, A_4=−0.05 *3* (1973Ho33). I_γ: 5.8 *12* (1994Il01).
		4368.2	11	4974.05	2⁻	M1+E2	−0.10 *2*	Mult.,δ: A_2=−0.28 *2*, A_4=−0.02 *2* (1973Ho33). I_γ: 13.7 *19* (1994Il01).
		4927.7	1	4414.40	4⁺			
		5013.0	<3	4329.1	(0,1,2)⁺			
		5163.8	59	4178.32	3⁻	M1(+E2)[&]	+0.017 *17*	I_γ: 55.3 *60* (1994Il01). Mult.: A_2=+0.26 *1*, A_4=−0.03 *2* (1973Ho33). δ: weighted average of: +0.02 *2* (1973Ho33), +0.01 *3* (1966Er06).
		7371.3	5	1970.38	2⁺	E1+M2	+0.11 *3*	I_γ: 4.9 *8* (1994Il01).
		9341.2	<0.3	0.0	0⁺			
9356.0	1⁻,2⁺	2019.3	6	7336.6	3⁺			
		4381.7	5	4974.05	2⁻			
		4404.3	7	4951.4	2⁺			
		4941.2	<2	4414.40	4⁺			
		5026.5	<2	4329.1	(0,1,2)⁺			
		5177.3	6	4178.32	3⁻			
		7384.8	8	1970.38	2⁺			

$^{36}_{18}Ar_{18}$-18

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Comments
9356.0	$1^-,2^+$	9354.7	68	0.0	0^+	
9365.9	1^-	1486.9	1.5	7879	NOT $(0,3)^-$	
		2108.5	6	7258.6	3^-	
		2229.3	11	7136.5	$(1^-,2^+)$	
		2754.8	3	6611.0		
		3529.7	13	5836.0	1^-	
		4171.2	0.5	5194.4	$(0^+,1^+,2^+,3^-)$	I_γ: from 1974Jo02 marked As uncertain.
		4414.2	1	4951.4	2^+	
		4925.4	4	4440.11	2^+	
		5036.4	1	4329.1	$(0,1,2)^+$	
		5187.2	<1	4178.32	3^-	
		7394.7	52	1970.38	2^+	
		9364.6	7	0.0	0^+	
9374.1	$(1^-,2^-,3^-)$	2538.8	2	6835.16	4^-	
		3537.9	3	5836.0	1^-	
		4399.8	1	4974.05	2^-	
		4933.6	1	4440.11	2^+	I_γ: from 1974Jo02 marked As uncertain.
		4959.3	<1	4414.40	4^+	
		5044.6	<1	4329.1	$(0,1,2)^+$	
		5195.4	5	4178.32	3^-	
		7402.9	87	1970.38	2^+	
		9372.8	1	0.0	0^+	
9379.9	$(2^+,3^+,4^+)$	2240.2	2	7139.6	3^+	
		2543.3	1	6836.50	3^-	I_γ: from 1974Jo02 marked As uncertain.
		4939.4	20	4440.11	2^+	
		4965.1	10	4414.40	4^+	
		5050.4	<1	4329.1	$(0,1,2)^+$	
		5201.2	2	4178.32	3^-	
		7408.7	65	1970.38	2^+	
		9378.6	<0.1	0.0	0^+	
9393.4	$(2^+,3^+,4^+)$	4441.7	3	4951.4	2^+	
		4952.9	3	4440.11	2^+	
		4978.6	4	4414.40	4^+	
		5063.9	<1	4329.1	$(0,1,2)^+$	
		5214.7	3	4178.32	3^-	
		7422.2	87	1970.38	2^+	
		9392.1	<1	0.0	0^+	
9439.2	$(2^+,3^+,4^+)$	4998.7	19	4440.11	2^+	
		5024.4	14	4414.40	4^+	
		5109.7	<3	4329.1	$(0,1,2)^+$	
		5260.5	<4	4178.32	3^-	
		7468.0	67	1970.38	2^+	
		9437.9	<1	0.0	0^+	

$^{36}_{18}Ar_{18}$-19

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π
9448.1	$1^-,2^+,3^-$	2611.5	7	6836.50	3^-
		4473.8	6	4974.05	2^-
		5033.3	3	4414.40	4^+
		5118.6	<2	4329.1	$(0,1,2)^+$
		5269.4	31	4178.32	3^-
		7476.9	53	1970.38	2^+
		9446.8	<1	0.0	0^+
9465.9	$1^-,2^+$	1755.6	1	7710.3	1
		5025.4	2	4440.11	2^+
		5051.1	1	4414.40	4^+
		5136.4	3	4329.1	$(0,1,2)^+$
		5287.2	2	4178.32	3^-
		7494.7	49	1970.38	2^+
		9464.6	42	0.0	0^+
9474.0	(1,2)	1342.1	8	8131.9	$1,(2^+)$
		1763.7	10	7710.3	1
		4522.3	6	4951.4	2^+
		5033.5	30	4440.11	2^+
		5059.2	<2	4414.40	4^+
		5144.5	<4	4329.1	$(0,1,2)^+$
		5295.3	<3	4178.32	3^-
		7502.8	9	1970.38	2^+
		9472.7	37	0.0	0^+
9502.8	(2,3)	2166.1	8	7336.6	3^+
		2891.7	16	6611.0	
		5062.3	14	4440.11	2^+
		5088.0	4	4414.40	4^+
		5173.3	<1	4329.1	$(0,1,2)^+$
		5324.1	<1	4178.32	3^-
		7531.6	57	1970.38	2^+
		9501.5	1	0.0	0^+
9509.6	$(2^+,3^+,4^+)$	5069.1	3	4440.11	2^+
		5094.8	5	4414.40	4^+
		5180.1	<2	4329.1	$(0,1,2)^+$
		5330.9	<3	4178.32	3^-
		7538.4	92	1970.38	2^+
		9508.3	<0.5	0.0	0^+
9542.0	$(1,2,3)^-$	2705.4	20	6836.50	3^-
		3705.8	7	5836.0	1^-
		4590.3	7	4951.4	2^+
		5101.5	10	4440.11	2^+
		5127.2	<1	4414.40	4^+
		5212.5	<2	4329.1	$(0,1,2)^+$

$^{36}_{18}Ar_{18}$-20

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
9542.0	(1,2,3)$^-$	5363.3	11	4178.32	3$^-$			
		7570.8	45	1970.38	2$^+$			
		9540.6	<0.6	0.0	0$^+$			
9550.3	(0$^+$ to 4$^+$)	4575.9	1	4974.05	2$^-$			I_γ: from 1974Jo02 marked As uncertain.
		5109.8	17	4440.11	2$^+$			
		5135.5	<0.3	4414.40	4$^+$			
		5220.8	<0.3	4329.1	(0,1,2)$^+$			
		5371.5	<1	4178.32	3$^-$			
		7579.1	82	1970.38	2$^+$			
		9548.9	<0.1	0.0	0$^+$			
9574.3	4$^-$	1558.4	1	8015.9	(3,4)$^-$			
		2001.1	18	7573.1	4$^-$	M1+E2	−0.08 *3*	Mult.,δ: A_2=+0.31 *4*, A_4=−0.01 *5* (1973Ho33).
		3356.8	2	6217.3	5$^-$	M1+E2	+0.03 *6*	Mult.,δ: A_2=−0.18 *16*, A_4=+0.03 *18* (1973Ho33).
		3678	14	5895.92	4$^-$	M1+E2	−0.06 *4*	Mult.,δ: A_2=+0.34 *5*, A_4=−0.02 *4* (1973Ho33).
		3717.4	3	5856.65	3$^-$	M1+E2	+0.05 *3*	Mult.,δ: A_2=−0.17 *7*, A_4=−0.02 *8* (1973Ho33).
		4402.9	50	5171.13	5$^-$	M1+E2	+0.05 *1*	Mult.,δ: A_2=−0.17 *2*, A_4=−0.02 *2* (1973Ho33).
		5159.6	<1	4414.40	4$^+$			
		5244.8	<1	4329.1	(0,1,2)$^+$			
		5395.5	12	4178.32	3$^-$	M1+E2	−0.03 *1*	Mult.,δ: A_2=−0.26 *2*, A_4=−0.07 *3* (1973Ho33).
		7603.1	<1	1970.38	2$^+$			
		9572.9	<0.1	0.0	0$^+$			
9595.4	2$^+$	2347.9	2	7247.4	NOT 0$^-$			
		2458.8	9	7136.5	(1$^-$,2$^+$)			
		3759.2	8	5836.0	1$^-$			
		4400.7	2	5194.4	(0$^+$,1$^+$,2$^+$,3$^-$)			
		5154.9	4	4440.11	2$^+$			
		5180.6	<1	4414.40	4$^+$			
		5265.9	<1	4329.1	(0,1,2)$^+$			
		5416.6	<2	4178.32	3$^-$			
		7624.2	56	1970.38	2$^+$			
		9594.0	19	0.0	0$^+$			
9606.8	(0,1,2)$^-$	1896.4	6	7710.3	1			
		3770.6	94	5836.0	1$^-$			
		5192.0	<3	4414.40	4$^+$			
		5277.3	<2	4329.1	(0,1,2)$^+$			
		5428.0	<2	4178.32	3$^-$			
		7635.6	<2	1970.38	2$^+$			
		9605.4	<0.5	0.0	0$^+$			
9667.1	3$^-$	3771.0	5	5895.92	4$^-$			
		4495.7	3	5171.13	5$^-$			
		5226.6	8	4440.11	2$^+$			
		5252.3	10	4414.40	4$^+$			
		5337.6	<2	4329.1	(0,1,2)$^+$			

$^{36}_{18}Ar_{18}$-21

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
9667.1	3$^-$	5488.3	11	4178.32	3$^-$			
		7695.8	63	1970.38	2$^+$			
		9665.7	<1	0.0	0$^+$			
9681.9	4$^+$,6$^+$	5267.1	100	4414.40	4$^+$	E2,M1+E2		Mult.,δ: A_2=+0.39 *5*, A_4=−0.19 *7*, ΔJ=2 E2 γ, or ΔJ=0 M1+E2 γ with δ=+1.1 *4* (2002Ro24).
		5352.4	<2	4329.1	(0,1,2)$^+$			
		5503.1	<3	4178.32	3$^-$			
		7710.6	<1	1970.38	2$^+$			
9734.3	1$^-$,3$^-$,4$^+$	3123.2		6611.0				
		5555.5		4178.32	3$^-$			
9737.5	3$^-$	1987.7	1	7749.7	NOT 0$^-$			
		2065.3	3	7672.1	NOT (1,2)$^-$			
		2490.0	9	7247.4	NOT 0$^-$			
		2600.9	8	7136.5	(1$^-$,2$^+$)			
		2870.5	1	6866.9	(1,2$^+$)			
		2900.9	19	6836.50	3$^-$			
		3126.4	4	6611.0				
		3880.6	8	5856.65	3$^-$			
		3901.3	10	5836.0	1$^-$			
		4763.1	5	4974.05	2$^-$			
		4785.8	0.8	4951.4	2$^+$			
		5297.0	16	4440.11	2$^+$			
		5322.7	<1	4414.40	4$^+$			
		5408.0	<1	4329.1	(0,1,2)$^+$			
		5558.7	2	4178.32	3$^-$			
		7766.2	13	1970.38	2$^+$			
		9736.1	0.2	0.0	0$^+$			
9764.5	(3$^-$,4$^-$,5$^-$)	2505.8	2	7258.6	3$^-$			
		2927.9	18	6836.50	3$^-$			
		3907.6	4	5856.65	3$^-$			
		4593.1	37	5171.13	5$^-$			
		5349.7	35	4414.40	4$^+$			
		5435.0	<2	4329.1	(0,1,2)$^+$			
		5585.7	8	4178.32	3$^-$			
		7793.2	<1	1970.38	2$^+$			
9812.2	(1,2,3$^-$)	5371.7	34	4440.11	2$^+$			
		5397.4	<2	4414.40	4$^+$			
		5482.7	16	4329.1	(0,1,2)$^+$			
		5633.4	8	4178.32	3$^-$			
		7840.9	27	1970.38	2$^+$			
		9810.8	15	0.0	0$^+$			
9862.6	3$^+$	2525.9	33	7336.6	3$^+$	M1(+E2)	−0.07 *10*	Mult.,δ: A_2=+0.32 *3*, A_4=−0.01 *3* (1973Ho33).
		3251.4	8	6611.0				

$^{36}_{18}Ar_{18}$-22

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

γ(^{36}Ar) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
9862.6	3+	5422.1	31	4440.11	2+	(M1+)E2		Mult.,δ: A_2=+0.11 *4*, A_4=+0.29 *4* (1973Ho33).
		5447.8	<3	4414.40	4+			
		5533.0	<3	4329.1	(0,1,2)+			
		5683.8	8	4178.32	3−	E1(+M2)	+1.0 *+16−7*	Mult.,δ: A_2=+0.52 *15*, A_4=−0.17 *14* (1973Ho33).
		7891.3	19	1970.38	2+	M1+E2	>+8	Mult.,δ: A_2=+0.21 *4*, A_4=+0.27 *4* (1973Ho33).
		9861.1	1	0.0	0+			
9878.6	(2+,3+,4+)	2541.9	20	7336.6	3+			
		3267.4	36	6611.0				
		4021.9	3	5856.65	3−			
		5438.0	27	4440.11	2+			
		5463.8	11	4414.40	4+			
		5549.0	<1	4329.1	(0,1,2)+			
		5699.8	3	4178.32	3−			
		7907.3	<1	1970.38	2+			
		9877.1	<0.5	0.0	0+			
9889.3		2641.8	1	7247.4	NOT 0−			
		3278.1	1	6611.0				
		3993.1	2	5895.92	4−			
		4032.4	2	5856.65	3−			
		4053.1	3	5836.0	1−			
		4937.5	3	4951.4	2+			
		5448.7	11	4440.11	2+			
		5474.5	<1	4414.40	4+			
		5559.7	<1	4329.1	(0,1,2)+			
		5710.5	11	4178.32	3−			
		7918.0	65	1970.38	2+			
		9887.8	1	0.0	0+			
9902.1	4+	2229.9	3	7672.1	NOT (1,2)−			
		2565.4	5	7336.6	3+			
		3065.5	11	6836.50	3−			
		3684.6	2	6217.3	5−			
		4730.6	6	5171.13	5−			
		4950.3	9	4951.4	2+			
		5461.5	7	4440.11	2+			
		5487.3	3	4414.40	4+			
		5572.5	<1	4329.1	(0,1,2)+			
		5723.3	17	4178.32	3−			
		7930.8	37	1970.38	2+			
9927.4	5−	2668.7	5	7258.6	3−			
		3090.8	6	6836.50	3−			
		3709.9	1	6217.3	5−			
		3790.7	3	6136.5	4+	E1		Mult.,δ: A_2=−0.17 *5*, A_4=+0.05 *5*, δ=+0.06 *3* (2002Ro24).
		4031.2	2	5895.92	4−			

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	Comments
9927.4	5$^-$	4070.5	10	5856.65	3$^-$	E2	Mult.,δ: A_2=+0.42 *7*, A_4=−0.44 *10* (2002Ro24).
		4755.9	9	5171.13	5$^-$		
		5511.5	62	4414.40	4$^+$	E1	Mult.,δ: A_2=−0.33 *4*, A_4=+0.03 *5*, δ=−0.2 *5* (2002Ro24).
		5597.8	<1	4329.1	(0,1,2)$^+$		
		5748.6	2	4178.32	3$^-$		
		7956.1	<1	1970.38	2$^+$		
9942.5	(2,3$^-$)	2605.8	3	7336.6	3$^+$		
		2695.0	4	7247.4	NOT 0$^-$		
		2805.9	2	7136.5	(1$^-$,2$^+$)		
		3105.9	1	6836.50	3$^-$		
		3331.3	20	6611.0			
		4106.2	3	5836.0	1$^-$		
		4968.1	6	4974.05	2$^-$		
		4990.7	1	4951.4	2$^+$		I_γ: from 1974Jo02 marked As uncertain.
		5501.9	3	4440.11	2$^+$		
		5527.6	<1	4414.40	4$^+$		
		5612.9	<1	4329.1	(0,1,2)$^+$		
		5763.7	1	4178.32	3$^-$		
		7971.5	55	1970.38	2$^+$		
		9941.5	1	0.0	0$^+$		
9956.9	(1,2$^+$)	2709.4	0.3	7247.4	NOT 0$^-$		
		4120.6	2	5836.0	1$^-$		
		4762.2	1.5	5194.4	(0$^+$,1$^+$,2$^+$,3$^-$)		
		4982.5	3	4974.05	2$^-$		
		5516.3	4	4440.11	2$^+$		
		5542.0	<0.2	4414.40	4$^+$		
		5627.3	0.2	4329.1	(0,1,2)$^+$		
		5778.1	<0.4	4178.32	3$^-$		
		7985.6	1	1970.38	2$^+$		
		9955.4	88	0.0	0$^+$		
9983.2	1$^+$,(2$^+$)	2735.7	0.5	7247.4	NOT 0$^-$		
		4146.9	1	5836.0	1$^-$		
		4788.5	2	5194.4	(0$^+$,1$^+$,2$^+$,3$^-$)		
		5008.8	2	4974.05	2$^-$		
		5542.6	5	4440.11	2$^+$		
		5568.3	<0.1	4414.40	4$^+$		
		5653.6	0.5	4329.1	(0,1,2)$^+$		
		8011.9	3	1970.38	2$^+$		
		9981.7	86	0.0	0$^+$		
9992.9		1860.9	3	8131.9	1,(2$^+$)		
		2419.7	2	7573.1	4$^-$		I_γ: from 1974Jo02 marked As uncertain.
		3157.6	3	6835.16	4$^-$		I_γ: from 1974Jo02 marked As uncertain.
		3775.4	4	6217.3	5$^-$		

$^{36}_{18}Ar_{18}$-24

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Comments
9992.9		4096.7	10	5895.92	4^-	
		4136.0	1	5856.65	3^-	
		4821.4	21	5171.13	5^-	
		5018.5	2	4974.05	2^-	
		5578.0	9	4414.40	4^+	
		5663.3	<2	4329.1	$(0,1,2)^+$	
		5814.1	39	4178.32	3^-	
		8021.6	6	1970.38	2^+	
10002.4	$(1^-,2,3)$	3391.2	8	6611.0		
		5028.0	19	4974.05	2^-	
		5561.8	13	4440.11	2^+	
		5587.5	<4	4414.40	4^+	
		5672.8	<4	4329.1	$(0,1,2)^+$	
		5823.6	51	4178.32	3^-	
		8031.6	<5	1970.38	2^+	
		10000.9	9	0.0	0^+	
10044.4	1^-	5629.5	<1	4414.40	4^+	
		5714.8	<1	4329.1	$(0,1,2)^+$	
		5865.6	<1	4178.32	3^-	
		8073.1	<1	1970.38	2^+	
		10042.9	100	0.0	0^+	
10050.6	2^+	5610.0	6	4440.11	2^+	
		5635.7	6	4414.40	4^+	
		5871.8	34	4178.32	3^-	
		8079.3	<4	1970.38	2^+	
		10049.1	54	0.0	0^+	
10076.7	$(1^-,2,3)$	5102.3	7	4974.05	2^-	
		5636.1	10	4440.11	2^+	
		5661.8	<2	4414.40	4^+	
		5747.1	<2	4329.1	$(0,1,2)^+$	
		5897.9	52	4178.32	3^-	
		8105.3	29	1970.38	2^+	
		10075.2	2	0.0	0^+	
10094.9	2^+	2384.5	10	7710.3	1	
		2758.2	10	7336.6	3^+	
		4900.1	4	5194.4	$(0^+,1^+,2^+,3^-)$	I_γ: from 1974Jo02 marked As uncertain.
		5120.5	3	4974.05	2^-	
		5654.3	4	4440.11	2^+	
		5680.0	<2	4414.40	4^+	
		5765.3	1	4329.1	$(0,1,2)^+$	
		5916.1	12	4178.32	3^-	
		8123.5	6	1970.38	2^+	
		10093.4	50	0.0	0^+	

$^{36}_{18}Ar_{18}$-25

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Comments
10099.4	1$^-$	3488.2	7	6611.0		
		5124.0	1	4974.05	2$^-$	
		5658.8	6	4440.11	2$^+$	
		5684.5	<1	4414.40	4$^+$	
		5769.8	1	4329.1	(0,1,2)$^+$	I_γ: from 1974Jo02 marked As uncertain.
		5920.6	<2	4178.32	3$^-$	
		8128.0	3	1970.38	2$^+$	
		10097.9	82	0.0	0$^+$	
10139.5	(2$^+$,3$^-$)	2802.8	3	7336.6	3$^+$	
		5187.7	9	4951.4	2$^+$	
		5724.6	32	4414.40	4$^+$	
		5809.9	<2	4329.1	(0,1,2)$^+$	
		5960.7	52	4178.32	3$^-$	
		8168.1	2	1970.38	2$^+$	
		10138.0	2	0.0	0$^+$	
10143.0	(1$^-$,2)	3006.4	3	7136.5	(1$^-$,2$^+$)	I_γ: from 1974Jo02 marked As uncertain.
		5168.6	10	4974.05	2$^-$	
		5191.2	2	4951.4	2$^+$	I_γ: from 1974Jo02 marked As uncertain.
		5702.4	2	4440.11	2$^+$	I_γ: from 1974Jo02 marked As uncertain.
		5728.1	1	4414.40	4$^+$	
		5813.4	<1	4329.1	(0,1,2)$^+$	
		5964.2	3	4178.32	3$^-$	
		8171.6	37	1970.38	2$^+$	
		10141.5	42	0.0	0$^+$	
10149.6	(3$^-$,4)	2477.4	2	7672.1	NOT (1,2)$^-$	I_γ: from 1974Jo02 marked As uncertain.
		2576.4	2	7573.1	4$^-$	I_γ: from 1974Jo02 marked As uncertain.
		2890.9	3	7258.6	3$^-$	I_γ: from 1974Jo02 marked As uncertain.
		3009.7	8	7139.6	3$^+$	
		3313.0	6	6836.50	3$^-$	
		3314.3	13	6835.16	4$^-$	
		3932.1	17	6217.3	5$^-$	
		4253.4	1	5895.92	4$^-$	I_γ: from 1974Jo02 marked As uncertain.
		4978.1	18	5171.13	5$^-$	
		5734.7	12	4414.40	4$^+$	
		5820.0	<2	4329.1	(0,1,2)$^+$	
		5970.8	16	4178.32	3$^-$	
		8178.2	<2	1970.38	2$^+$	
		10148.1	2	0.0	0$^+$	
10167.4	3$^-$	2495.2	7	7672.1	NOT (1,2)$^-$	
		4310.5	12	5856.65	3$^-$	
		5193.0	3	4974.05	2$^-$	
		5726.8	10	4440.11	2$^+$	
		5752.5	40	4414.40	4$^+$	

$^{36}_{18}Ar_{18}$-26

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

γ(^{36}Ar) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
10167.4	3⁻	5837.8	<2	4329.1	(0,1,2)⁺			
		5988.6	13	4178.32	3⁻			
		8196.0	10	1970.38	2⁺			
		10165.9	5	0.0	0⁺			
10173.4	(1⁻,2⁺)	2294.3	1	7879	NOT (0,3)⁻			
		3562.2	1	6611.0				
		5732.8	2	4440.11	2⁺			
		5758.5	<1	4414.40	4⁺			
		5843.8	1	4329.1	(0,1,2)⁺			
		5994.5	<1	4178.32	3⁻			
		8202.0	9	1970.38	2⁺			
		10171.9	86	0.0	0⁺			
10193.6	(3⁻,4,5,6⁺)	5022.1	13	5171.13	5⁻			
		5778.7	87	4414.40	4⁺			
		5864.0	<6	4329.1	(0,1,2)⁺			
		6014.7	<4	4178.32	3⁻			
10220.3	4(⁻)	3080.6	15	7139.6	3⁺	(E1(+M2))[&]	+0.03 *2*	Mult.,δ: A_2=−0.18 *3*, A_4=−0.02 *3* (1973Ho33). δ: from 1973Ho33; other: +0.03 *14* (1966Er06).
		3574.5	3	6645.6	(2⁺,3⁺,4⁺)			
		3864.1	5	6356.0	4⁺			
		5805.4	74	4414.40	4⁺			δ: +0.09 *5* (1966Er06).
		5890.7	<1	4329.1	(0,1,2)⁺			
		6041.4	2	4178.32	3⁻			
		8248.9	1	1970.38	2⁺			
		10218.7	<0.1	0.0	0⁺			
10256.0	(3⁻,4)	2240.0	4	8015.9	(3,4)⁻			
		2583.8	4	7672.1	NOT (1,2)⁻			
		2682.8	2	7573.1	4⁻			
		2902.0	2	7353.9	6⁻			I_γ: from 1974Jo02 marked As uncertain.
		2919.3	4	7336.6	3⁺			
		3420.7	17	6835.16	4⁻			
		3531.8	2	6724	NOT 1⁺			I_γ: from 1974Jo02 marked As uncertain.
		4038.5	15	6217.3	5⁻			
		5084.5	27	5171.13	5⁻			
		5841.1	9	4414.40	4⁺			
		5926.4	<2	4329.1	(0,1,2)⁺			
		6077.1	14	4178.32	3⁻			
		8284.6	<2	1970.38	2⁺			
		10254.4	<1	0.0	0⁺			
10257.5	(3⁻,4⁺)	5086.0	6	5171.13	5⁻			
		5842.6	91	4414.40	4⁺			
		5927.9	<3	4329.1	(0,1,2)⁺			
		6078.6	<5	4178.32	3⁻			

$^{36}_{18}Ar_{18}$-27

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

γ(^{36}Ar) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Comments
10257.5	(3⁻,4⁺)	8286.1	3	1970.38	2⁺	
		10255.9	<1	0.0	0⁺	
10267.3	1⁻	3400.2	2	6866.9	(1,2⁺)	I_γ: from 1974Jo02 marked As uncertain.
		4410.4	1	5856.65	3⁻	I_γ: from 1974Jo02 marked As uncertain.
		5072.5	2	5194.4	(0⁺,1⁺,2⁺,3⁻)	
		5826	4	4440.11	2⁺	
		5852.4	<1	4414.40	4⁺	
		5937.7	4	4329.1	(0,1,2)⁺	
		6088.4	<2	4178.32	3⁻	
		8295.9	53	1970.38	2⁺	
		10265.7	34	0.0	0⁺	
10271.7	(3⁻,4⁻,5⁻)	2254.7	7	8015.9	(3,4)⁻	
		2599.5	5	7672.1	NOT (1,2)⁻	
		3436.4	22	6835.16	4⁻	
		4054.2	13	6217.3	5⁻	
		4414.8	6	5856.65	3⁻	
		5100.2	24	5171.13	5⁻	
		5856.8	3	4414.40	4⁺	
		5942.1	<1	4329.1	(0,1,2)⁺	
		6092.8	20	4178.32	3⁻	
10281.1	3⁻	2944.4	9	7336.6	3⁺	
		3669.9	22	6611.0		
		5109.6	11	5171.13	5⁻	
		5306.6	17	4974.05	2⁻	
		5329.3	21	4951.4	2⁺	
		5840.5	11	4440.11	2⁺	
		5866.2	5	4414.40	4⁺	
		5951.5	<3	4329.1	(0,1,2)⁺	
		6102.2	4	4178.32	3⁻	
		8309.7	<2	1970.38	2⁺	
		10279.5	<1	0.0	0⁺	
10301.5	4⁺	2964.8	2.5	7336.6	3⁺	
		3464.8	1.0	6836.50	3⁻	
		4164.7	0.5	6136.5	4⁺	I_γ: from 1974Jo02 marked As uncertain.
		5860.9	10	4440.11	2⁺	
		5886.6	9	4414.40	4⁺	
		5971.9	<1	4329.1	(0,1,2)⁺	
		6122.6	5	4178.32	3⁻	
		8330.1	72	1970.38	2⁺	
		10299.9	<0.3	0.0	0⁺	
10308.7	(2,3)⁻	2972.0	9	7336.6	3⁺	
		3050.0	4	7258.6	3⁻	
		4412.5	7	5895.92	4⁻	

$^{36}_{18}Ar_{18}$-28

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Comments
10308.7	(2,3)$^-$	5868.1	39	4440.11	2^+	
		5893.8	<6	4414.40	4^+	
		5979.1	<8	4329.1	$(0,1,2)^+$	
		6129.8	33	4178.32	3^-	
		8337.3	81	1970.38	2^+	
10319.5	2^+	4462.6	4	5856.65	3^-	
		5345.0	4	4974.05	2^-	
		5878.9	2	4440.11	2^+	
		5904.6	<1	4414.40	4^+	
		5989.9	<1	4329.1	$(0,1,2)^+$	
		6140.6	1	4178.32	3^-	
		8348.1	19	1970.38	2^+	
		10317.9	70	0.0	0^+	
10329.0	(3^-,4^-,5^-)	3070.3	12	7258.6	3^-	
		3492.3	20	6836.50	3^-	
		4432.8	10	5895.92	4^-	
		5157.5	5	5171.13	5^-	
		5914.1	53	4414.40	4^+	
		5999.4	<2	4329.1	$(0,1,2)^+$	
		6150.1	<3	4178.32	3^-	
		8357.6	<2	1970.38	2^+	
10420.8	3^-	2671.0	2	7749.7	NOT 0^-	
		3162.1	4	7258.6	3^-	
		3173.3	2	7247.4	NOT 0^-	
		3584.1	6	6836.50	3^-	
		4525.6	3	5895.92	4^-	
		4563.8	14	5856.65	3^-	
		5446.3	1	4974.05	2^-	
		5980.2	1	4440.11	2^+	
		6005.9	8	4414.40	4^+	
		6091.2	<1	4329.1	$(0,1,2)^+$	
		6241.9	44	4178.32	3^-	
		8449.4	15	1970.38	2^+	
10435.0		3098.3	8	7336.6	3^+	
		4598.7	4	5836.0	1^-	
		5994.4	8	4440.11	2^+	
		6020.1	<1	4414.40	4^+	
		6256.1	8	4178.32	3^-	
		8463.6	24	1970.38	2^+	
		10433.4	48	0.0	0^+	
10500.2	(1,2,3)$^-$	3241.4	8	7258.6	3^-	
		3252.6	8	7247.4	NOT 0^-	
		3663.5	5	6836.50	3^-	I_γ: from 1974Jo02 marked As uncertain.

$^{36}_{18}Ar_{18}$-29

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
10500.2	(1,2,3)$^-$	3889.0	8	6611.0				
		4663.9	12	5836.0	1$^-$			
		5525.7	11	4974.05	2$^-$			
		6085.3	<2	4414.40	4$^+$			
		6170.5	<3	4329.1	(0,1,2)$^+$			
		6321.3	26	4178.32	3$^-$			
		8528.7	20	1970.38	2$^+$			
		10498.6	2	0.0	0$^+$			
10539.6	3$^-$	4703.3	2	5836.0	1$^-$			
		5565.1	3	4974.05	2$^-$			
		6098.9	12	4440.11	2$^+$			
		6210.0	<2	4329.1	(0,1,2)$^+$			
		6360.7	<3	4178.32	3$^-$			
		8568.1	78	1970.38	2$^+$			
		10537.9	5	0.0	0$^+$			
10562.1	3$^-$	2988.9	9	7573.1	4$^-$			
		3225.3	6	7336.6	3$^+$			
		3303.3	3	7258.6	3$^-$			
		3314.5	3	7247.4	NOT 0$^-$			
		3726.7	10	6835.16	4$^-$			
		3950.9	4	6611.0				
		4344.5	5	6217.3	5$^-$			
		4705.1	3	5856.65	3$^-$			
		5587.6	26	4974.05	2$^-$			
		6232.4	<2	4329.1	(0,1,2)$^+$			
		6383.2	10	4178.32	3$^-$			
		8590.6	20	1970.38	2$^+$			
		10560.4	1	0.0	0$^+$			
10582.9	5$^-$	2566.9	3	8015.9	(3,4)$^-$			
		2910.7	2	7672.1	NOT (1,2)$^-$			
		3228.8	20	7353.9	6$^-$			
		3324.1	1	7258.6	3$^-$			
		4365.3	57	6217.3	5$^-$			
		4686.7	3	5895.92	4$^-$			
		5411.3	7	5171.13	5$^-$			
		5608.4	0.5	4974.05	2$^-$			
		6167.9	<1	4414.40	4$^+$			
		6253.2	<1	4329.1	(0,1,2)$^+$			
		6404.0	6	4178.32	3$^-$			
		8611.4	0.5	1970.38	2$^+$			
10615.6	4$^-$	3042.4	16	7573.1	4$^-$	M1+E2	+0.18 *+12−44*	Mult.,δ: A_2=+0.27 *2*, A_4=+0.01 *3* (1973Ho33).
		3278.8	2	7336.6	3$^+$			
		3356.8	3	7258.6	3$^-$	M1(+E2)	+0.04 *8*	Mult.,δ: A_2=−0.11 *7*, A_4=−0.03 *7* (1973Ho33).

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[#]	Comments
10615.6	4$^-$	3780.2	32	6835.16	4$^-$	M1(+E2)	0.00 *+6−28*	Mult.,δ: A_2=+0.22 *1*, A_4=+0.02 *2* (1973Ho33).
		4398.0	14	6217.3	5$^-$	M1+E2	−0.19 *6*	Mult.,δ: A_2=+0.08 *3*, A_4=−0.05 *3* (1973Ho33).
		4719.4	12	5895.92	4$^-$	M1(+E2)	+0.11 *+10−38*	Mult.,δ: A_2=+0.25 *3*, A_4=+0.02 *3* (1973Ho33).
		4758.5	11	5856.65	3$^-$	M1(+E2)	−0.01 *+10−2*	Mult.,δ: A_2=−0.14 *3*, A_4=−0.06 *3* (1973Ho33).
		6200.6	8	4414.40	4$^+$			
		6285.9	<1	4329.1	(0,1,2)$^+$			
		6436.7	<1	4178.32	3$^-$			
		8644.1	2	1970.38	2$^+$			could Be overflow from E(p)(lab)=2190.1 resonance (1974Jo02).
		10613.9	<0.2	0.0	0$^+$			
10635.7	1$^-$	3376.9	5	7258.6	3$^-$			
		4799.4	3	5836.0	1$^-$			
		5661.2	3	4974.05	2$^-$			
		6195.0	8	4440.11	2$^+$			
		6220.7	<1	4414.40	4$^+$			
		6306.0	<1	4329.1	(0,1,2)$^+$			
		6456.8	2.5	4178.32	3$^-$			
		8664.2	78	1970.38	2$^+$			
		10634.0	0.5	0.0	0$^+$			
10675.9	5	3321.8	18	7353.9	6$^-$	D(+Q)	+0.04 *4*	Mult.,δ: A_2=−0.19 *3*, A_4=0.00 *3* (1973Ho33).
		4319.6	8	6356.0	4$^+$	D+Q	−0.07 *4*	Mult.,δ: A_2=−0.29 *6*, A_4=−0.10 *6* (1973Ho33).
		4458.3	60	6217.3	5$^-$	D(+Q)	−0.04 *8*	Mult.,δ: A_2=+0.34 *2*, A_4=+0.08 *2* (1973Ho33).
		4779.6	9	5895.92	4$^-$			
		5504.3	5	5171.13	5$^-$	D(+Q)	−0.03 *17*	Mult.,δ: A_2=+0.32 *9*, A_4=+0.09 *9* (1973Ho33).
		6260.9	<4	4414.40	4$^+$			
		6346.2	<3	4329.1	(0,1,2)$^+$			
		6497.0	<3	4178.32	3$^-$			
		10674.2	<1	0.0	0$^+$			
10700.4	2$^+$	3267.9	3	7432.3				
		3452.8	2	7247.4	NOT 0$^-$			
		3521.3	3	7178.9	(1,2$^+$)			Mult.,δ: A_2=−0.22 *19*, A_4=−0.03 *20* (1973Ho33).
		3833.3	2	6866.9	(1,2$^+$)			
		4089.2	0.5	6611.0				
		4864.1	3	5836.0	1$^-$			
		5725.9	3	4974.05	2$^-$			
		5748.5	16	4951.4	2$^+$			Mult.,δ: A_2=−0.06 *10*, A_4=−0.01 *10* (1973Ho33).
		6259.7	5	4440.11	2$^+$			
		6285.4	<0.5	4414.40	4$^+$			
		6370.7	0.5	4329.1	(0,1,2)$^+$			
		6521.5	44	4178.32	3$^-$	E1(+M2)	+0.06 *17*	Mult.,δ: A_2=−0.02 *3*, A_4=−0.02 *3* (1973Ho33).
		8728.9	12	1970.38	2$^+$	M1+E2	+0.18 *11*	Mult.,δ: A_2=+0.15 *4*, A_4=−0.08 *4* (1973Ho33).
		10698.7	6	0.0	0$^+$	E2		Mult.,δ: A_2=−0.22 *6*, A_4=+0.03 *6* (1973Ho33).
10808.9		2676.9	3	8131.9	1,(2$^+$)			
		3235.6	4	7573.1	4$^-$			

$^{36}_{18}Ar_{18}$-31

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Comments
10808.9		3454.8	4	7353.9	6^-	
		3550.1	3	7258.6	3^-	
		3972.2	2	6836.50	3^-	
		4452.6	1	6356.0	4^+	I_γ: from 1974Jo02 marked As uncertain.
		4591.3	2	6217.3	5^-	
		4912.6	2	5895.92	4^-	
		4951.9	2	5856.65	3^-	
		5637.3	1	5171.13	5^-	
		5834.3	8	4974.05	2^-	
		6393.9	60	4414.40	4^+	
		6479.2	<1	4329.1	$(0,1,2)^+$	
		6629.9	2	4178.32	3^-	
		8837.4	2	1970.38	2^+	
		10807.2	4	0.0	0^+	
10823.4		4605.8	100	6217.3	5^-	I_γ: from 1976Hu01.
10832.3	$(1^-,3^-,4^+)$	8860.8	100	1970.38	2^+	I_γ: from 1976Hu01.
10845.7		4489.4	58	6356.0	4^+	I_γ: from 1976Hu01.
		4628.1	42	6217.3	5^-	I_γ: from 1976Hu01.
10852.0	2^+	8880.4	100	1970.38	2^+	I_γ: from 1976Hu01.
10853.8	0^+	2721.8	65 *15*	8131.9	$1,(2^+)$	
		3143.4	35 *15*	7710.3	1	
10906.0		2890.0	21	8015.9	$(3,4)^-$	
		3233.7	5	7672.1	NOT $(1,2)^-$	
		3332.7	17	7573.1	4^-	
		3647.2	5	7258.6	3^-	
		3658.4	1	7247.4	NOT 0^-	I_γ: from 1974Jo02 marked As uncertain.
		4069.3	3	6835.16	4^-	
		4688.4	21	6217.3	5^-	
		5009.7	12	5895.92	4^-	
		5049.0	8	5856.65	3^-	
		5734.4	3	5171.13	5^-	
		6491.0	<1	4414.40	4^+	
		6576.3	<1	4329.1	$(0,1,2)^+$	
		6727.0	3	4178.32	3^-	
		8934.4	1	1970.38	2^+	
		10904.2	<0.3	0.0	0^+	
10955.7		2939.7		8015.9	$(3,4)^-$	
		3696.9	4	7258.6	3^-	
		3708.1[a]	4[a]	7247.4	NOT 0^-	
		4119.0	7	6836.50	3^-	
		4344.2	9	6611.0		
		5059.4	3	5895.92	4^-	
		5784.1	4	5171.13	5^-	

$^{36}_{18}Ar_{18}$-32

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Comments
10955.7		6515.0	15	4440.11	2^+	
		6540.7	9	4414.40	4^+	
		6776.7	42	4178.32	3^-	
		8984.1	4	1970.38	2^+	
10968.1		5993.5	9	4974.05	2^-	
		6553.1	<1	4414.40	4^+	
		6789.1	3	4178.32	3^-	
		8996.5	17	1970.38	2^+	
		10966.3	71	0.0	0^+	
11027.7		4671.4	5	6356.0	4^+	
		6586.9	3	4440.11	2^+	
		6612.7	45	4414.40	4^+	
		6697.9	<2	4329.1	$(0,1,2)^+$	
		6848.7	<2	4178.32	3^-	
		9056.1	47	1970.38	2^+	
		11025.9	<0.3	0.0	0^+	
11149.4		5313.0	0.7	5836.0	1^-	
		5954.5	5	5194.4	$(0^+,1^+,2^+,3^-)$	
		6708.6	2	4440.11	2^+	
		6734.3	<1	4414.40	4^+	
		6819.6	1	4329.1	$(0,1,2)^+$	
		6970.4	0.3	4178.32	3^-	I_γ: from 1974Jo02 marked As uncertain.
		9177.8	8	1970.38	2^+	
		11147.5	83	0.0	0^+	
11182.3		2710.2	43	8472.0	$(3^-,4^-,5^-)$	
		2849.7	9	8332.5	NOT $(0$ to $2)^-$	
		3828.2	14	7353.9	6^-	
		4346.9	14	6836.50	3^-	
		4964.6	6	6217.3	5^-	
		6010.6	1	5171.13	5^-	
		6767.2	13	4414.40	4^+	
		6852.5	<1	4329.1	$(0,1,2)^+$	
		7003.3	<1	4178.32	3^-	
11336.4	2^+	3982.3	10	7353.9	6^-	
		4199.6	5	7136.5	$(1^-,2^+)$	
		4499.6	4	6836.50	3^-	
		5118.7	4	6217.3	5^-	
		5440.0	22	5895.92	4^-	
		6164.7	1	5171.13	5^-	
		6361.8	3	4974.05	2^-	
		6384.4	4	4951.4	2^+	
		6895.6	5	4440.11	2^+	
		6921.3	23	4414.40	4^+	

$^{36}_{18}Ar_{18}$-33

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02 (continued)

$\gamma(^{36}Ar)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π
11336.4	2^+	7006.6	<1	4329.1	$(0,1,2)^+$
		7157.3	4	4178.32	3^-
		9364.7	15	1970.38	2^+
		11334.5	<1	0.0	0^+
11419.1		11419.1		0.0	0^+

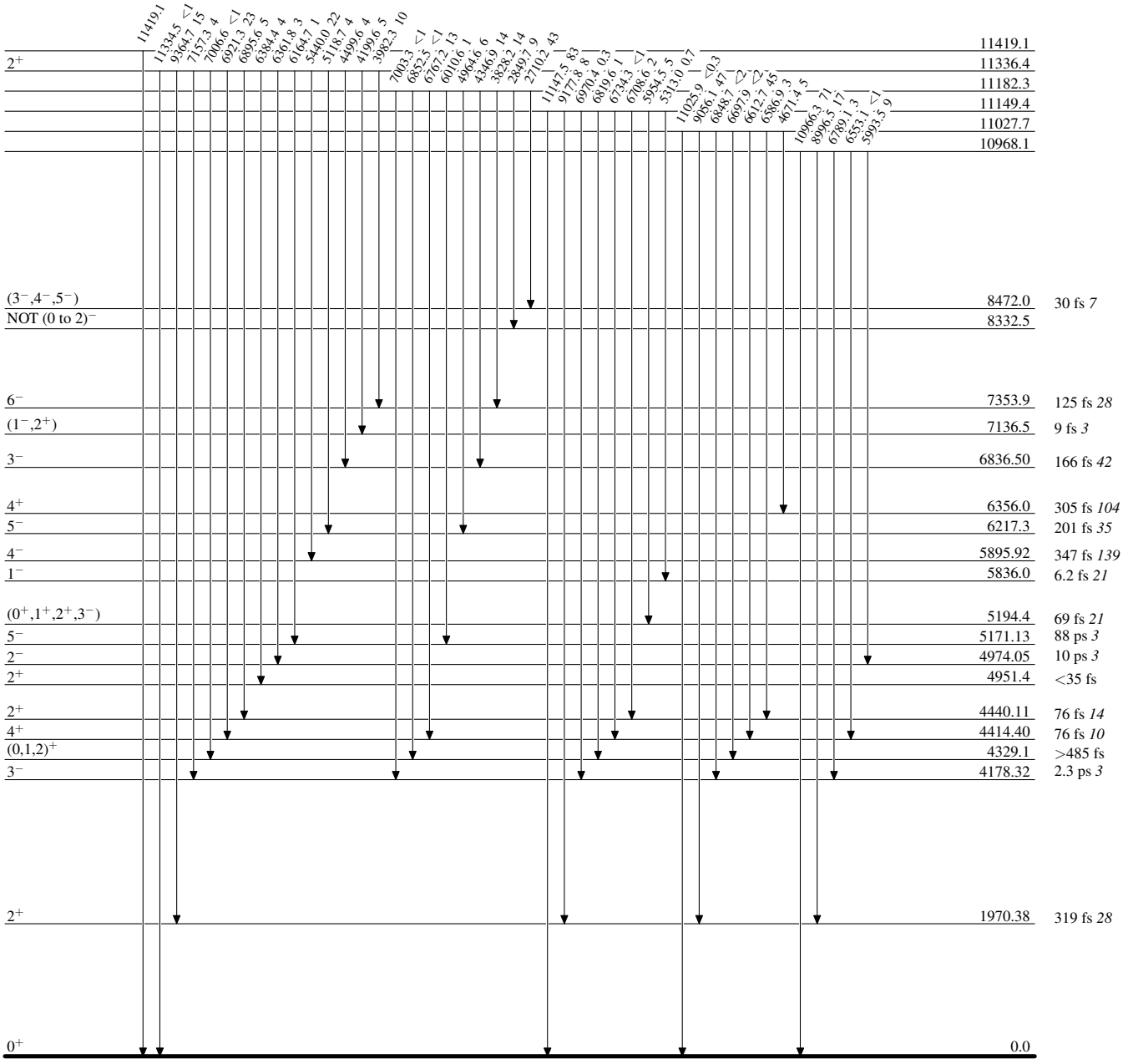
[†] Deduced by evaluators from levels.
[‡] Weighted average of values from 1974Jo02 and 1972Ho40, or values from 1974Jo02 only, except when noted otherwise.
[#] Except when noted otherwise, from 1973Ho33 based on $\gamma(\theta)$ (the electric or magnetic characters are deduced by evaluators from the parity of levels).
[@] γ branching not observed (1974Jo02).
[&] From 1966Er06 by angular correlations and polarization measurements.
[a] Multiply placed with undivided intensity.

$^{36}_{18}Ar_{18}$-34

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme

Intensities: % photon branching from each level

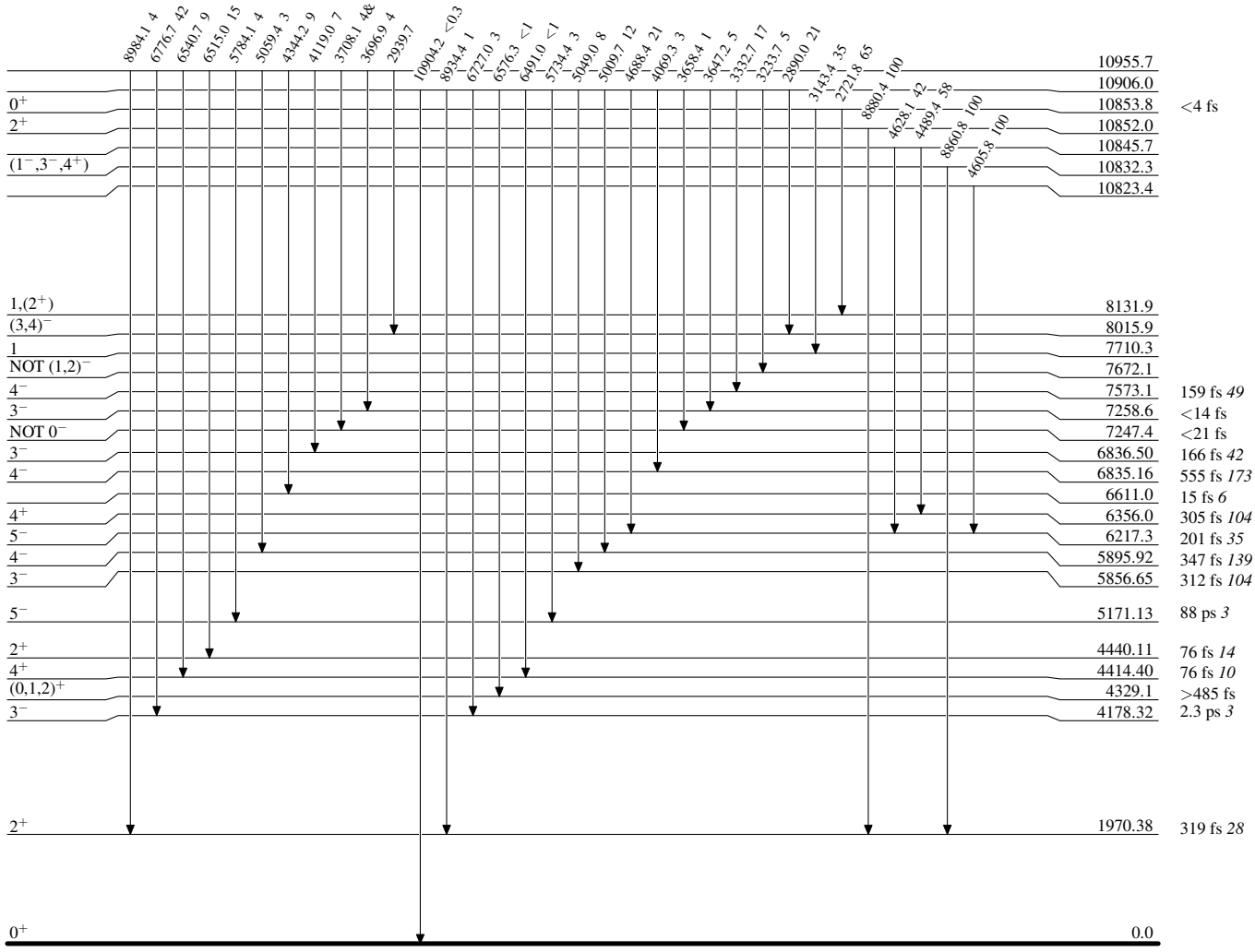


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

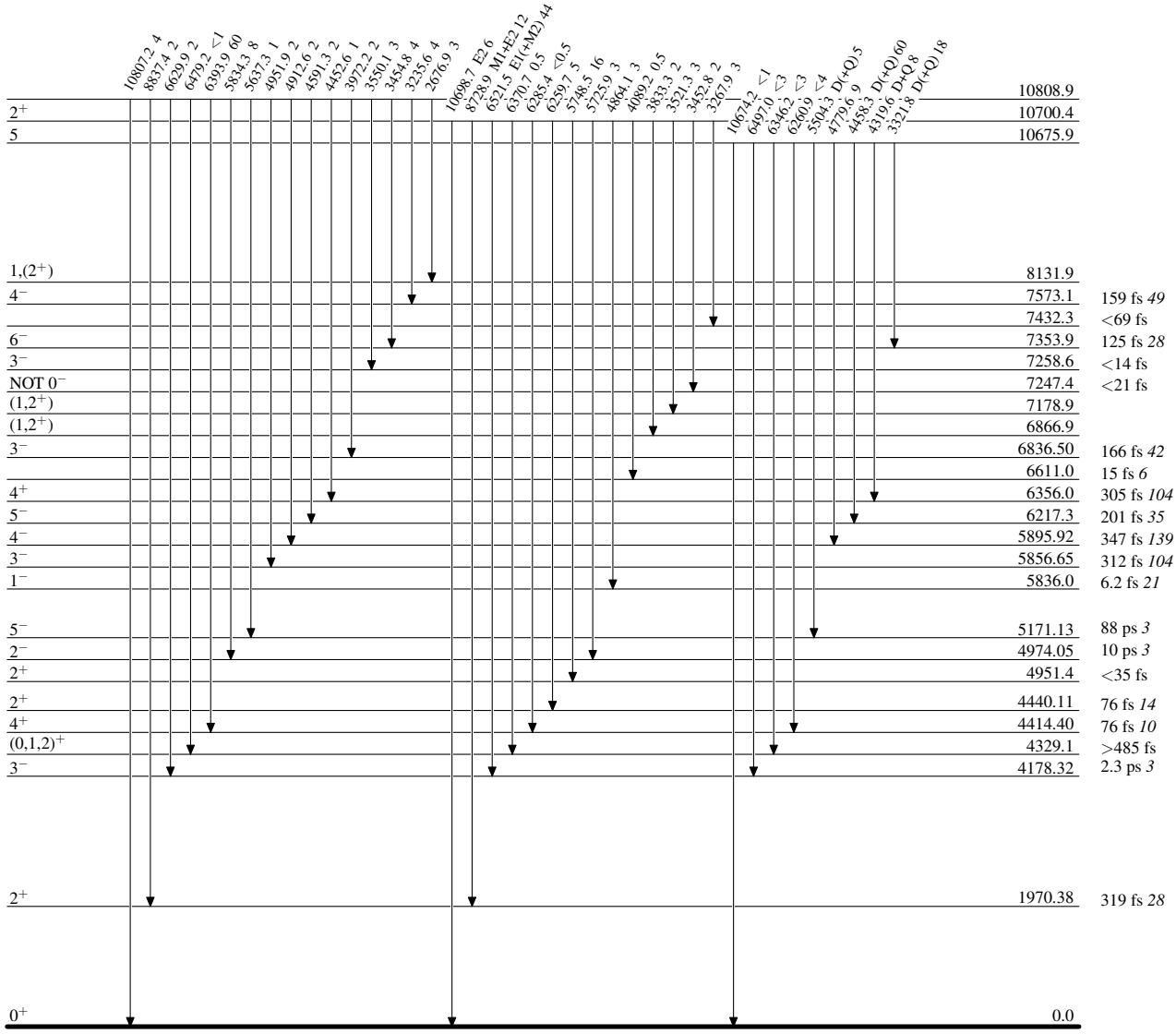


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

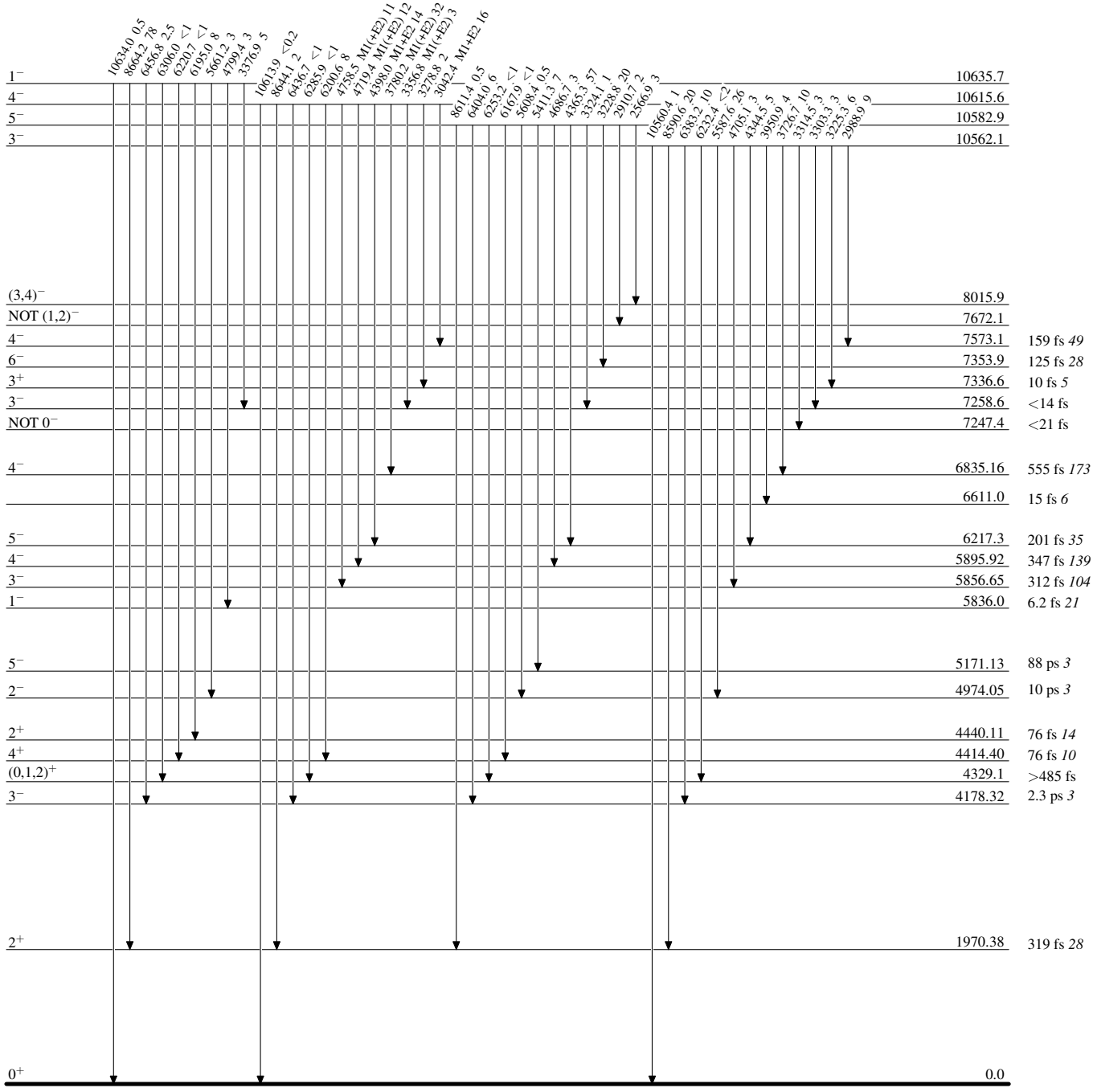


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

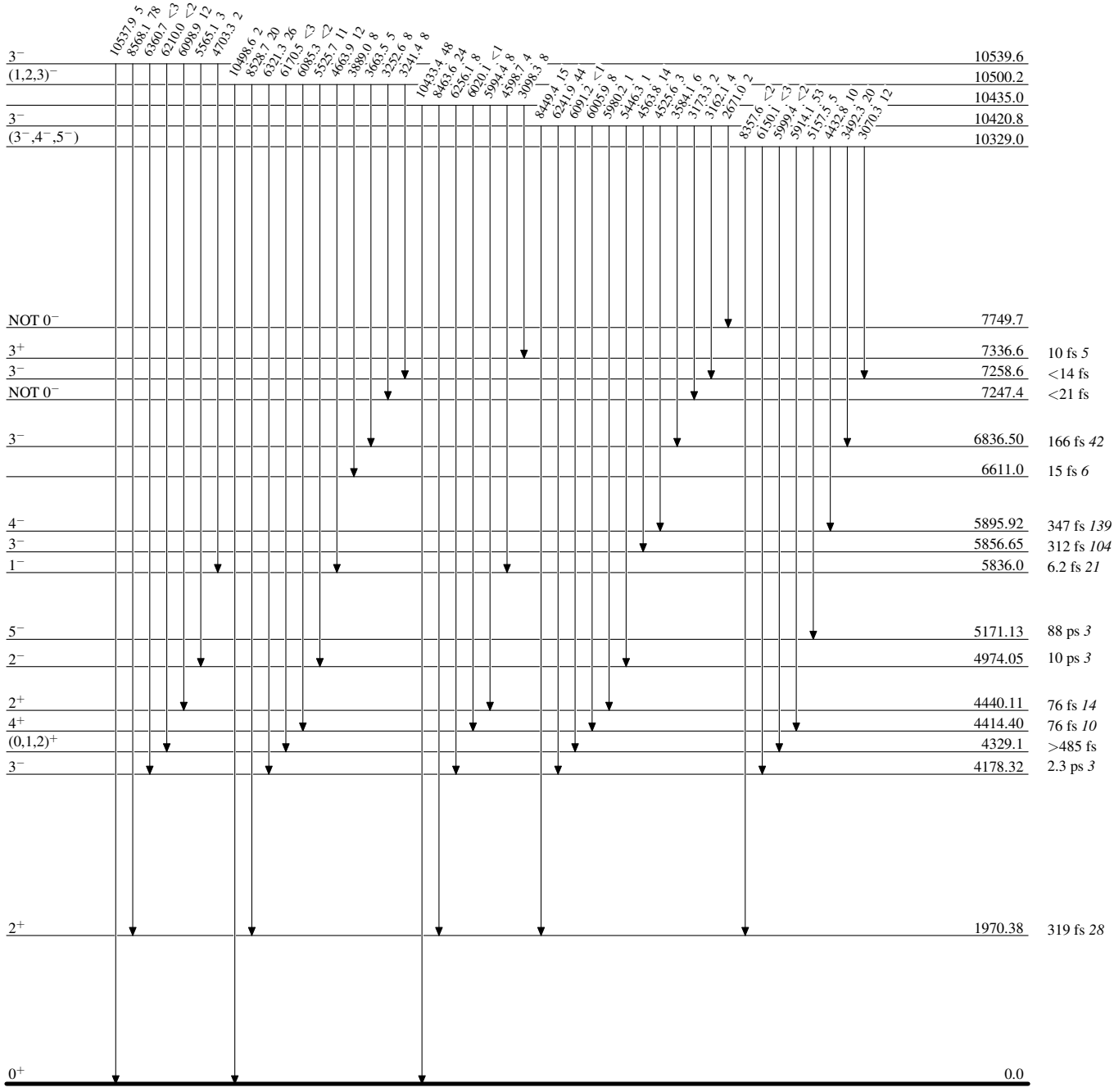


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

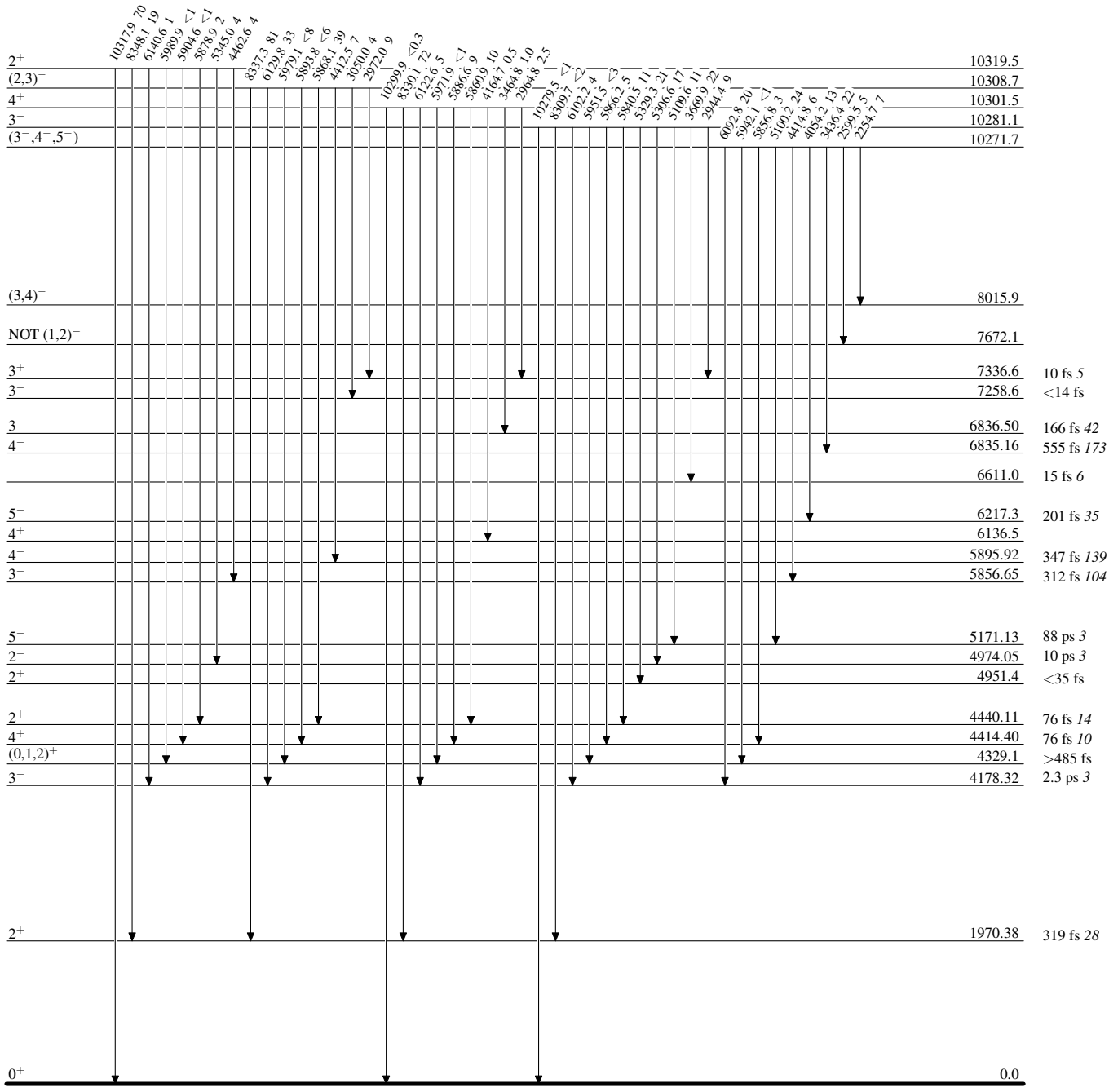


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

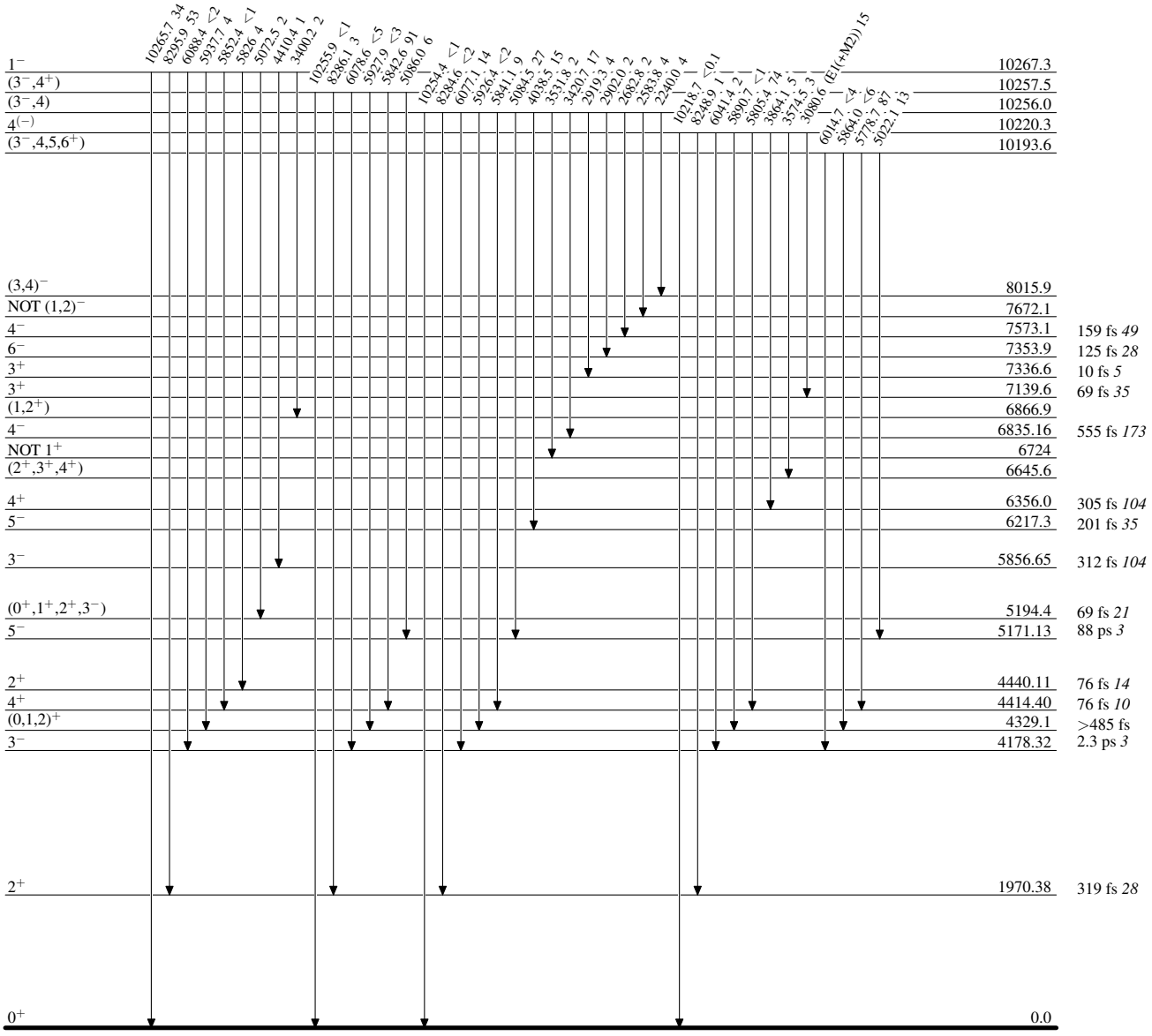


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

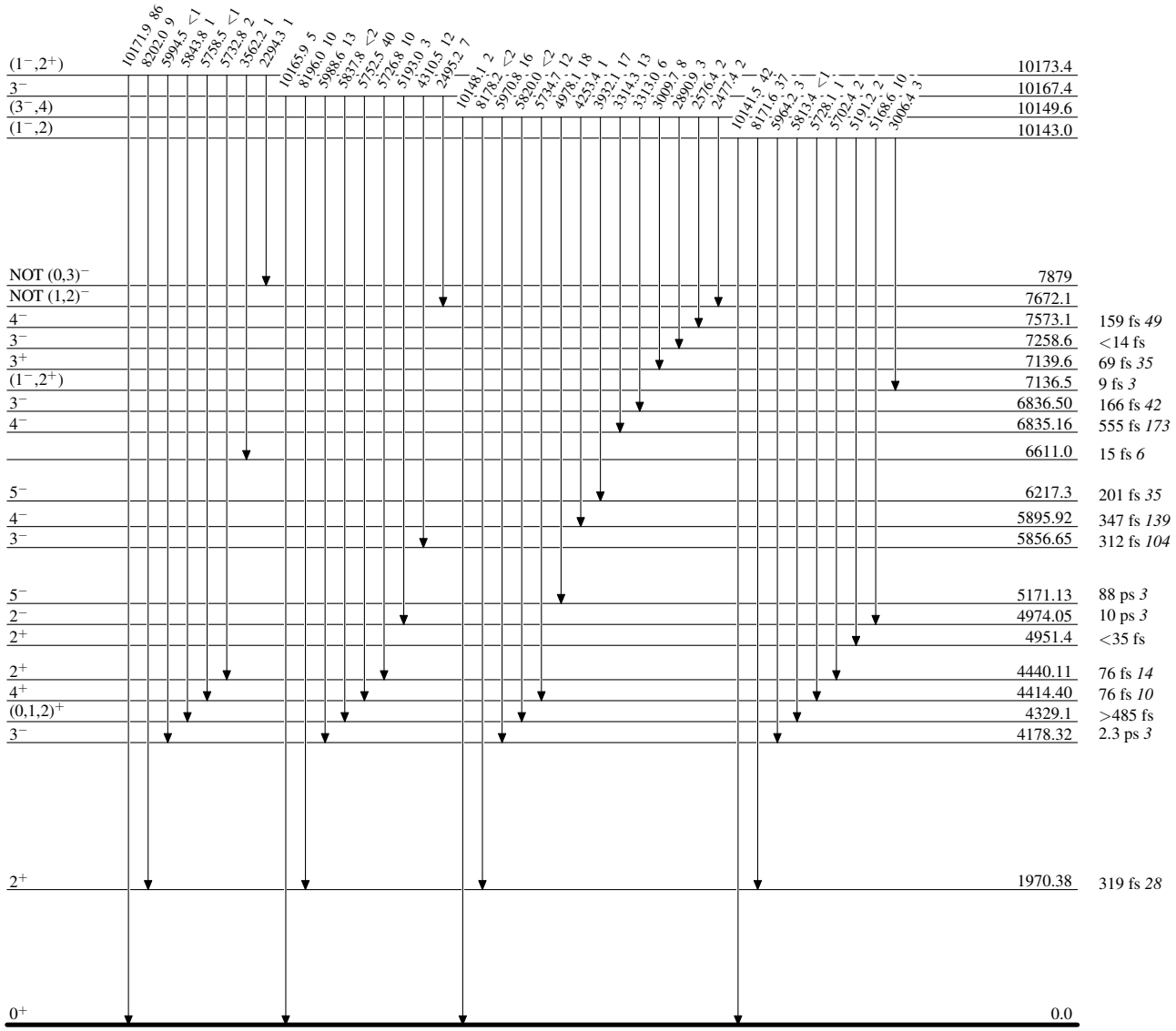


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

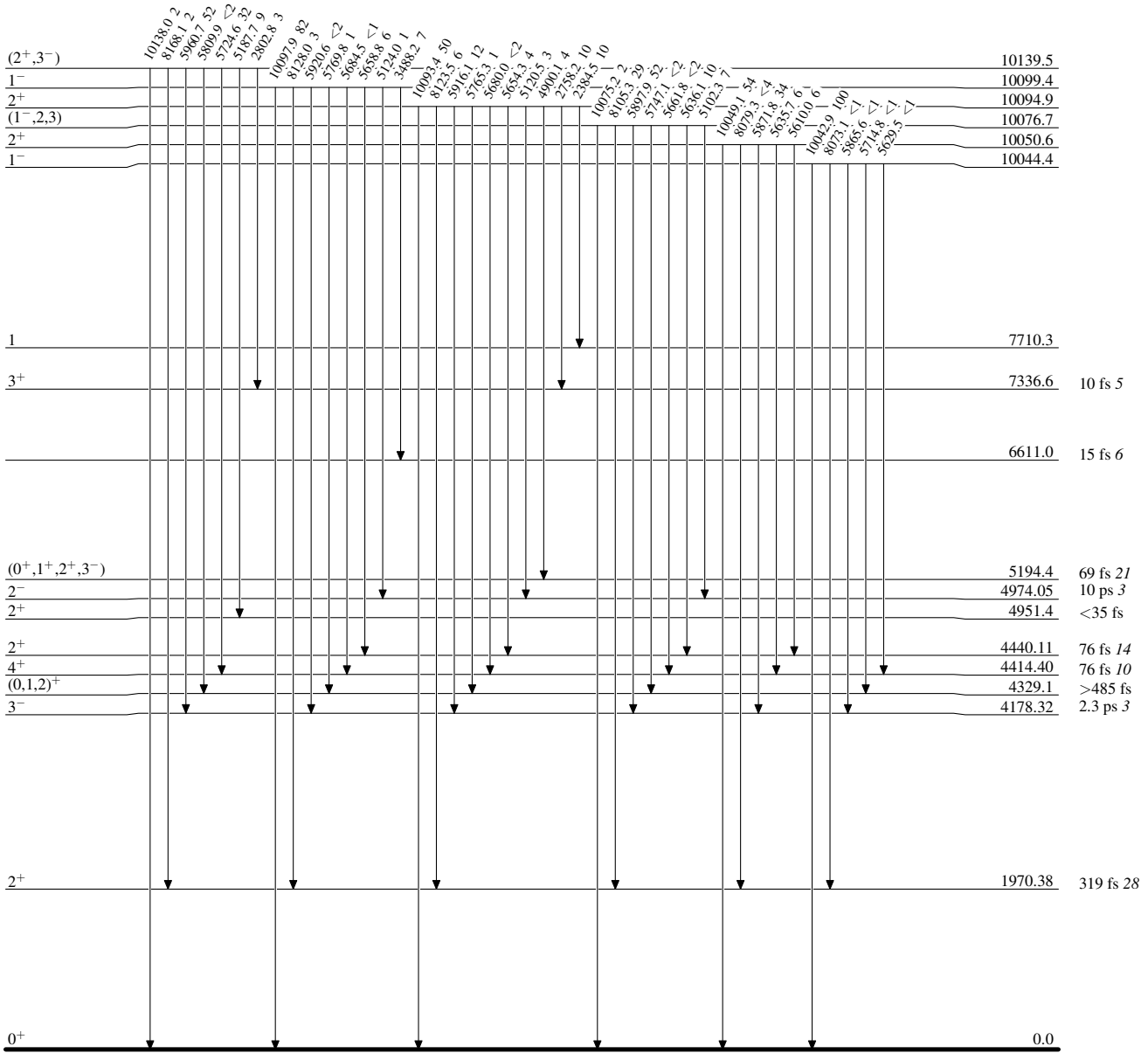


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

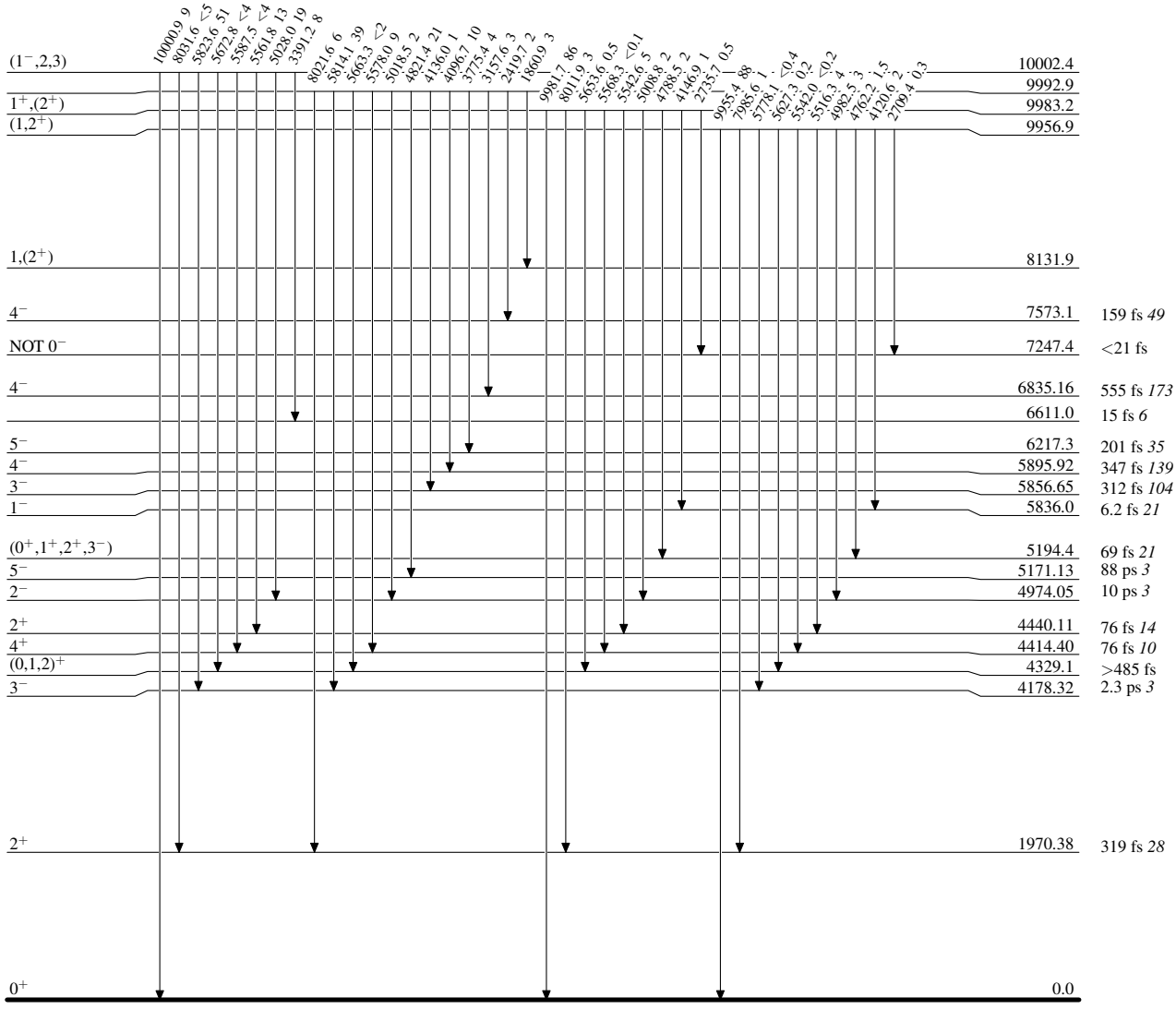


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

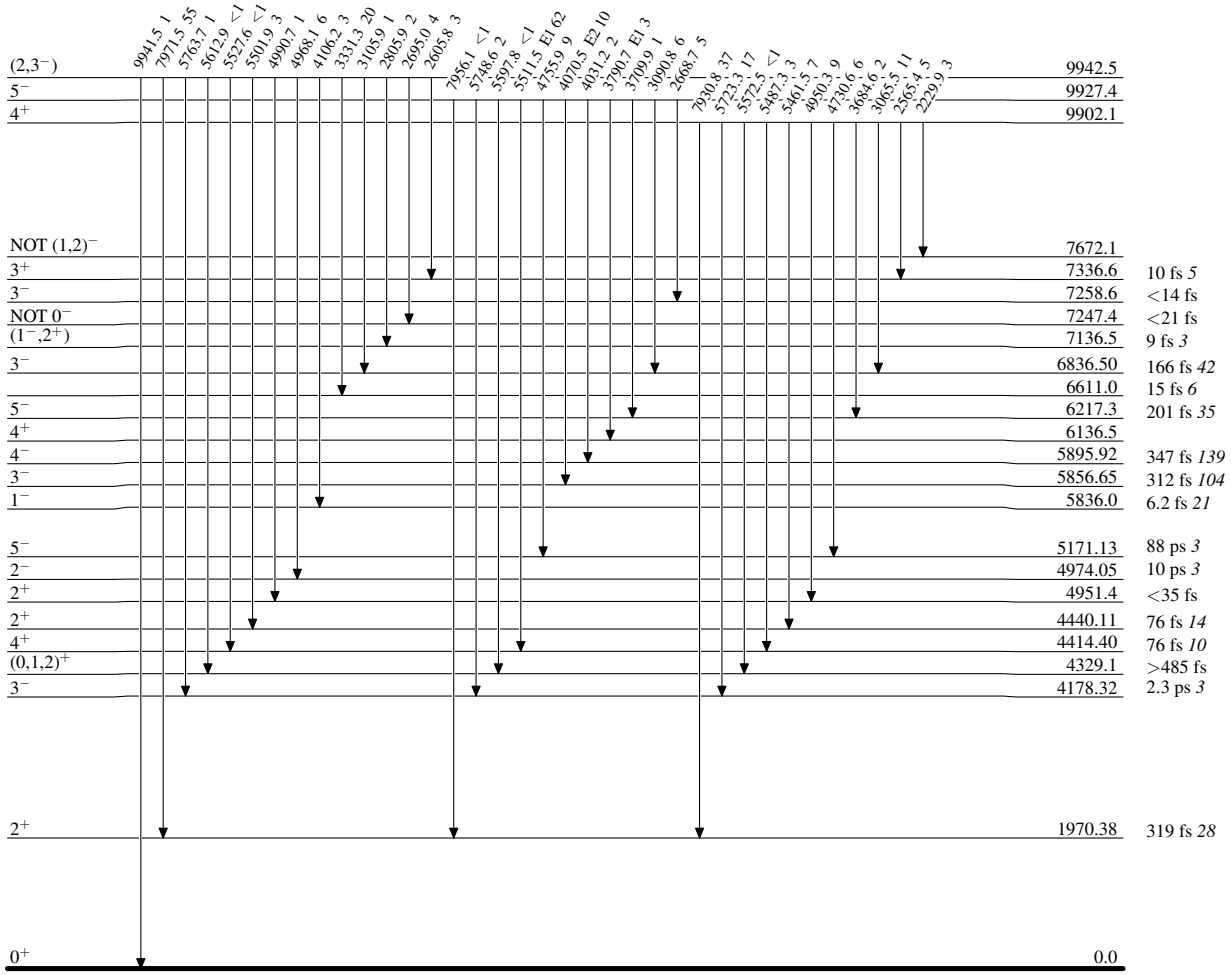


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

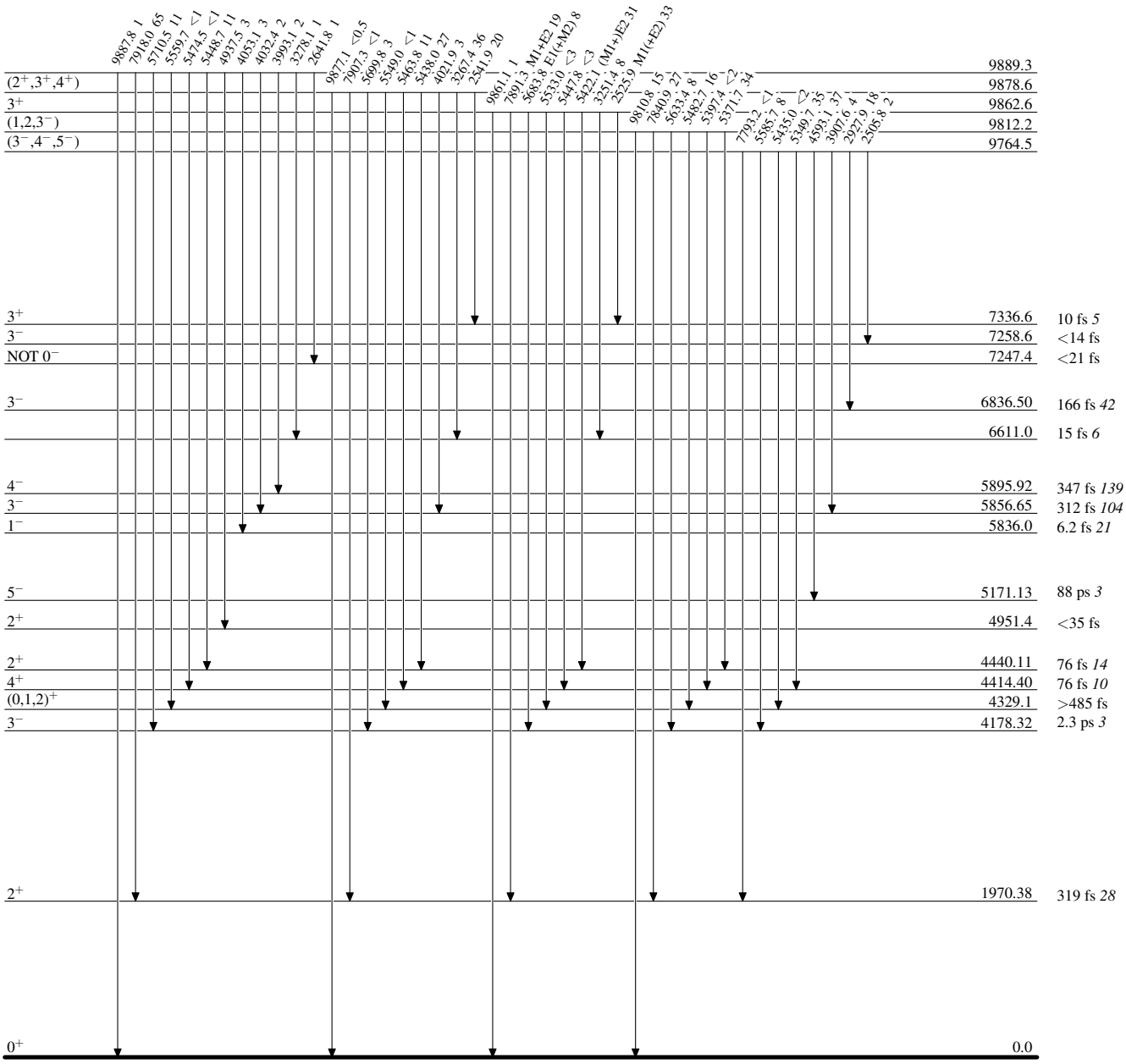


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

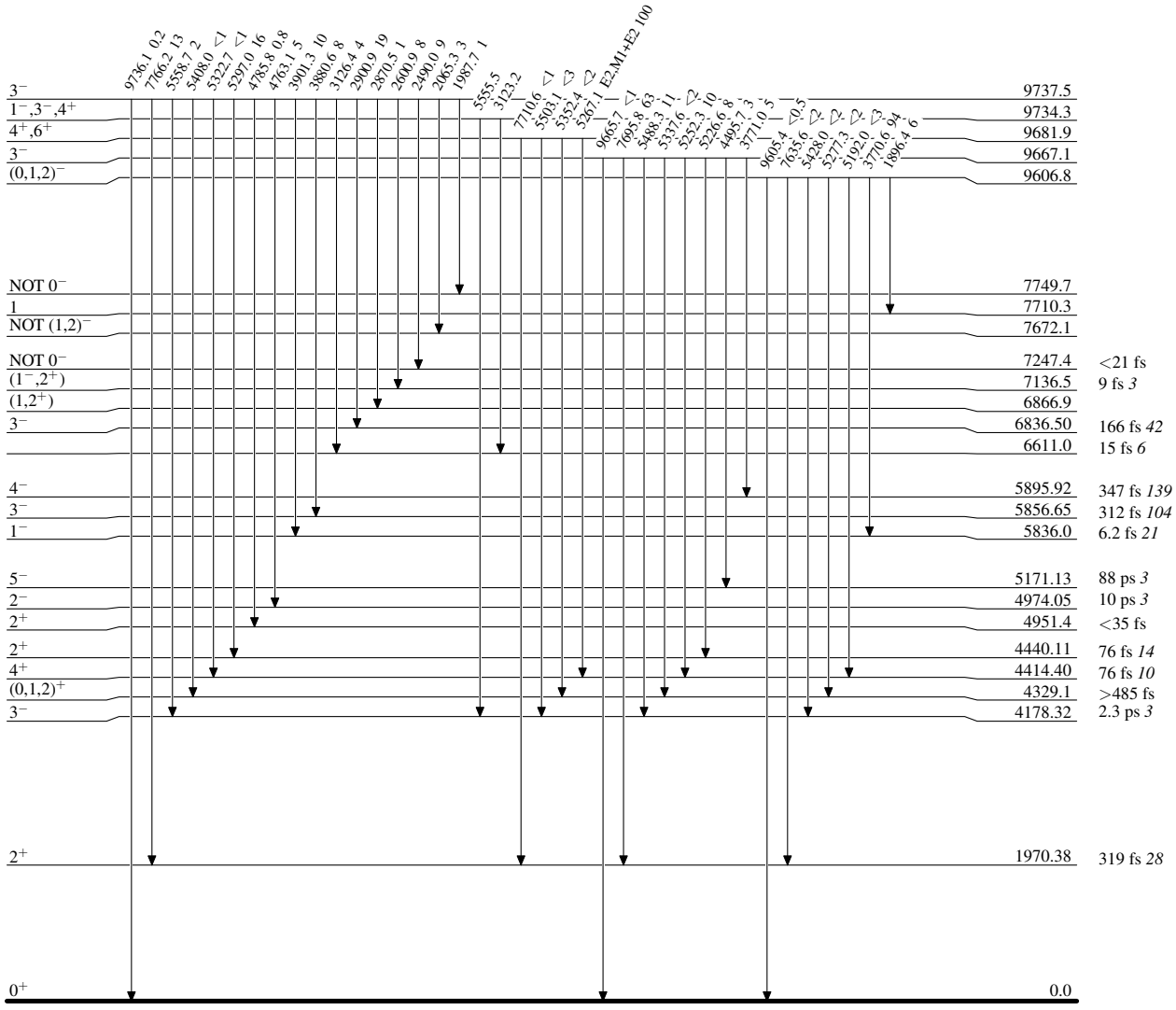


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

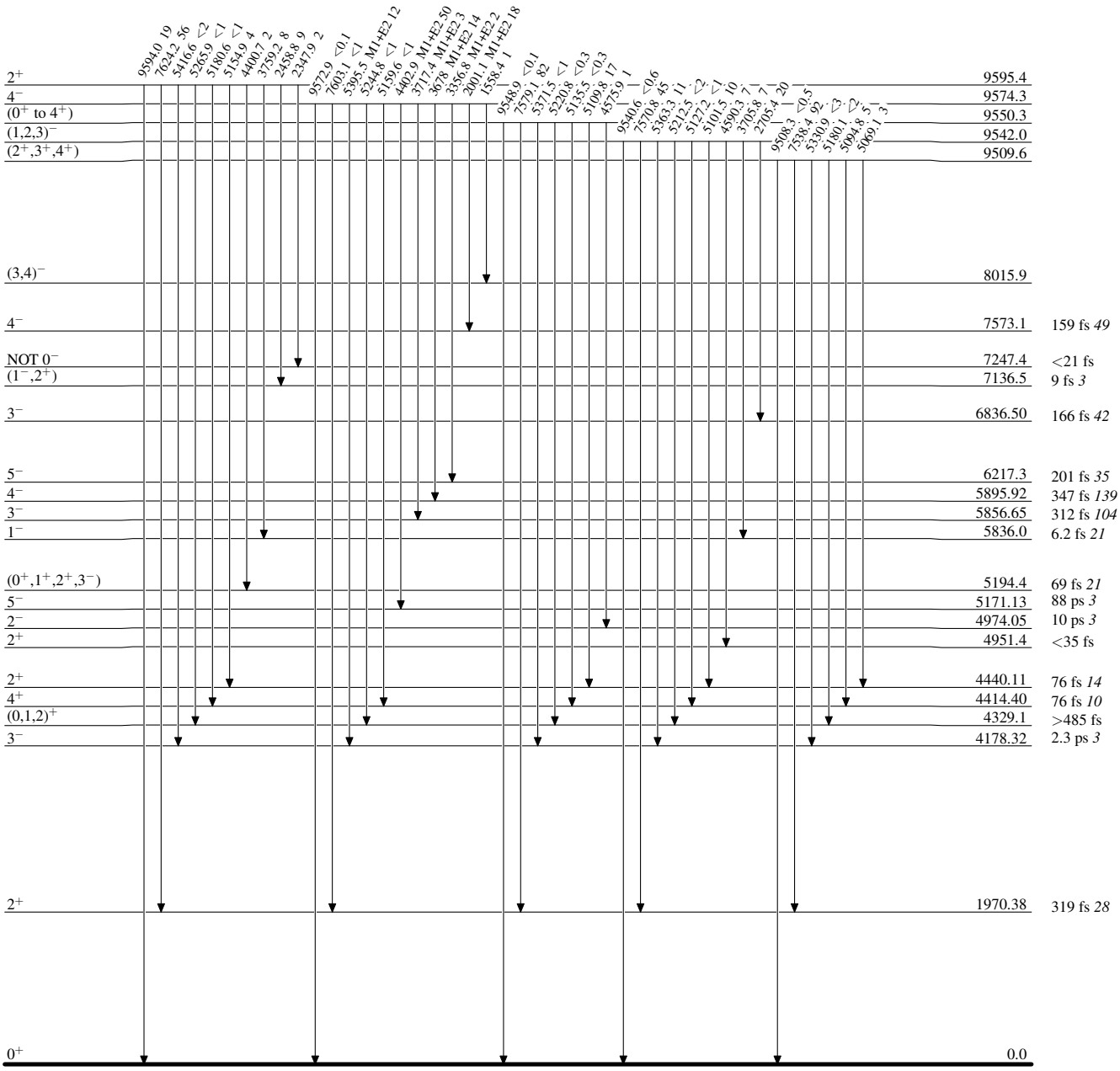


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

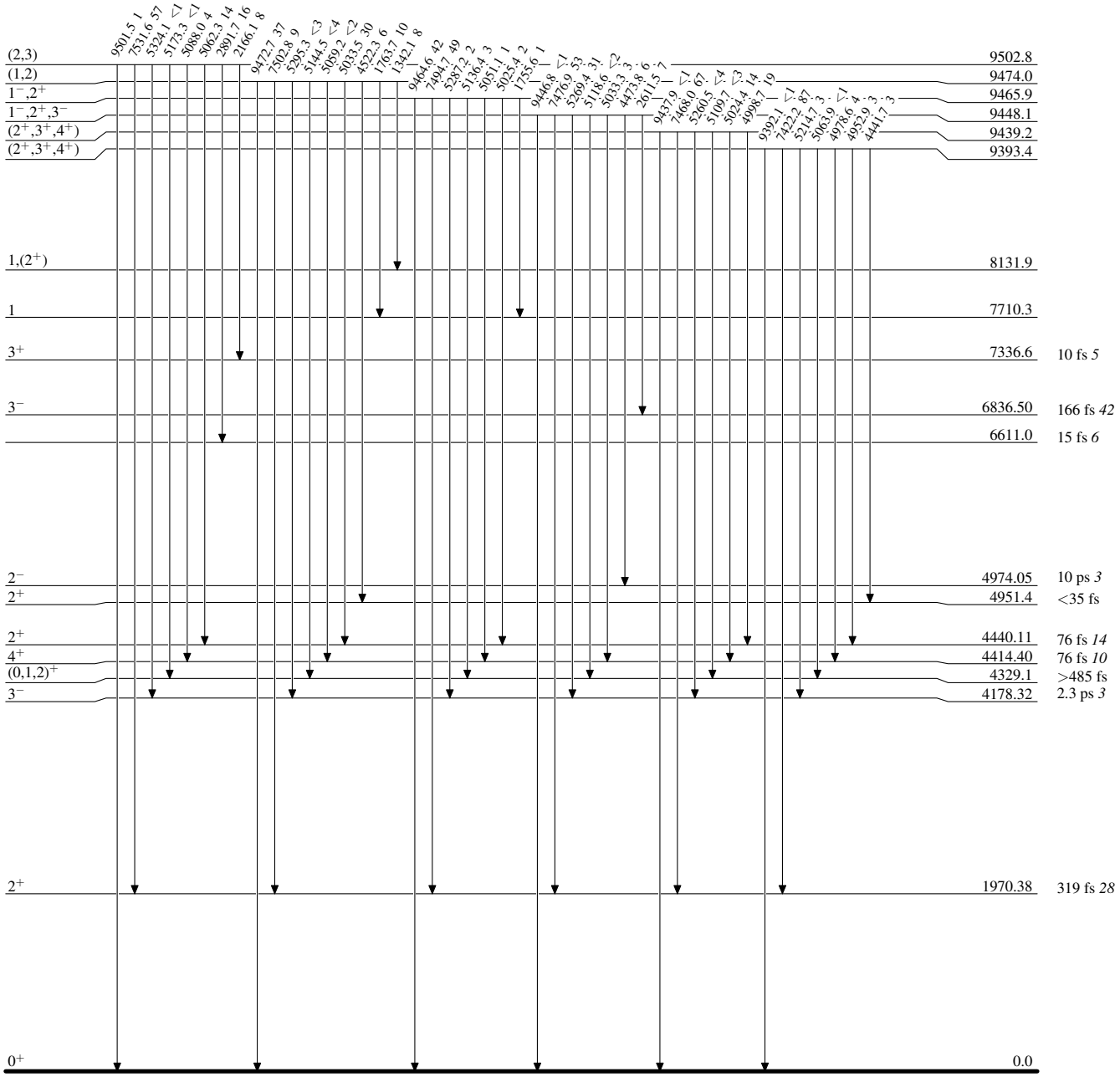


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

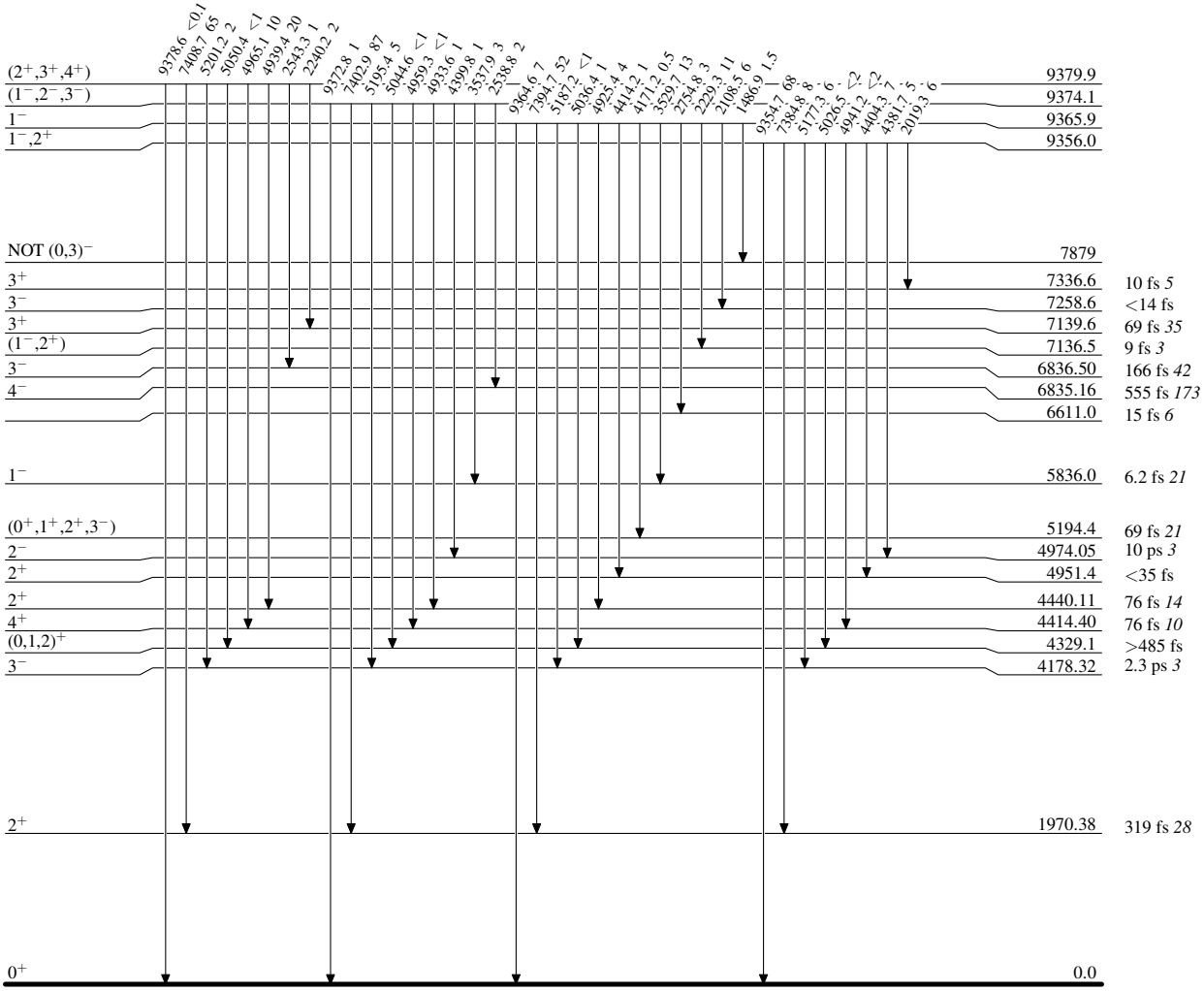


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

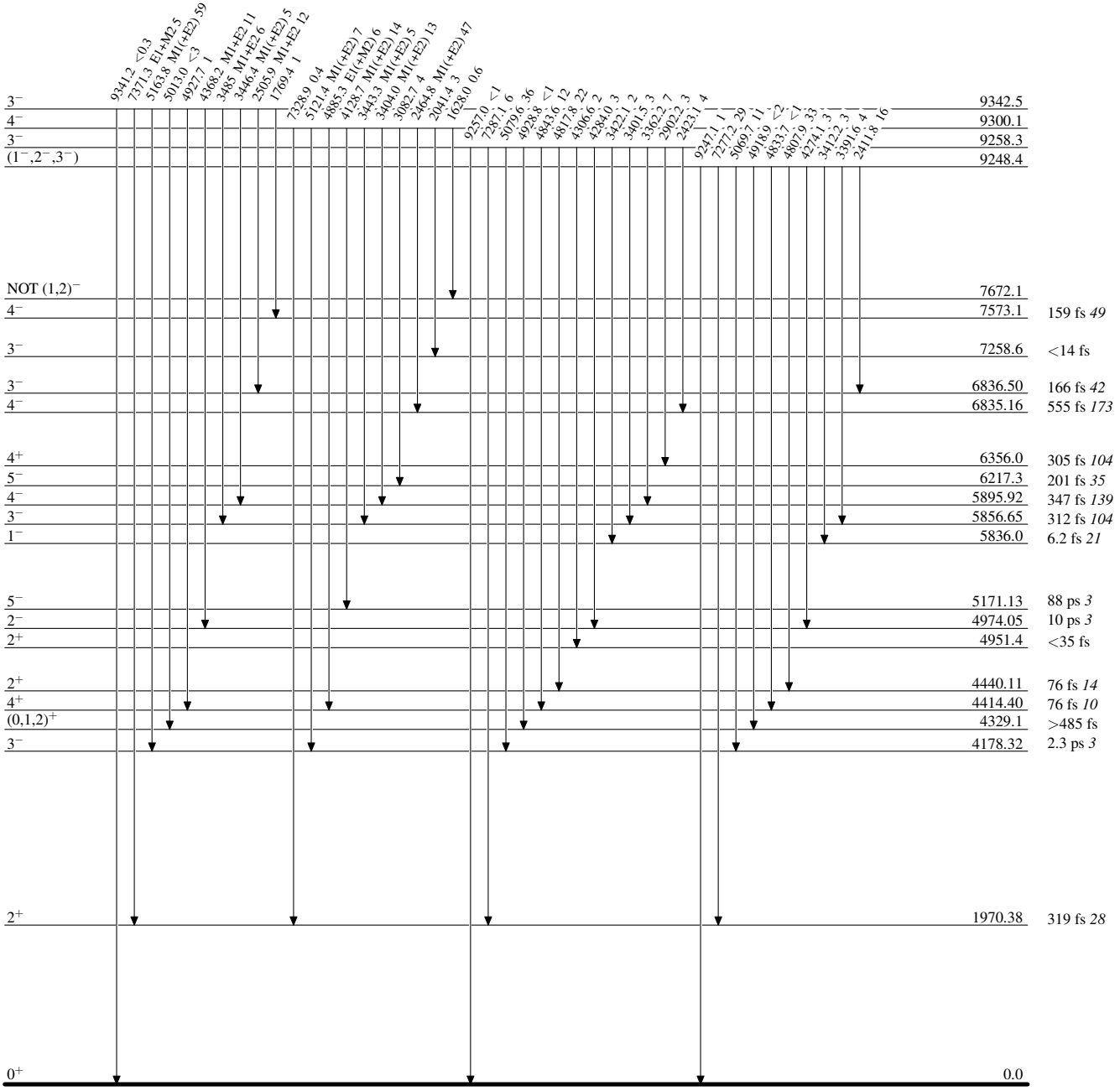


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

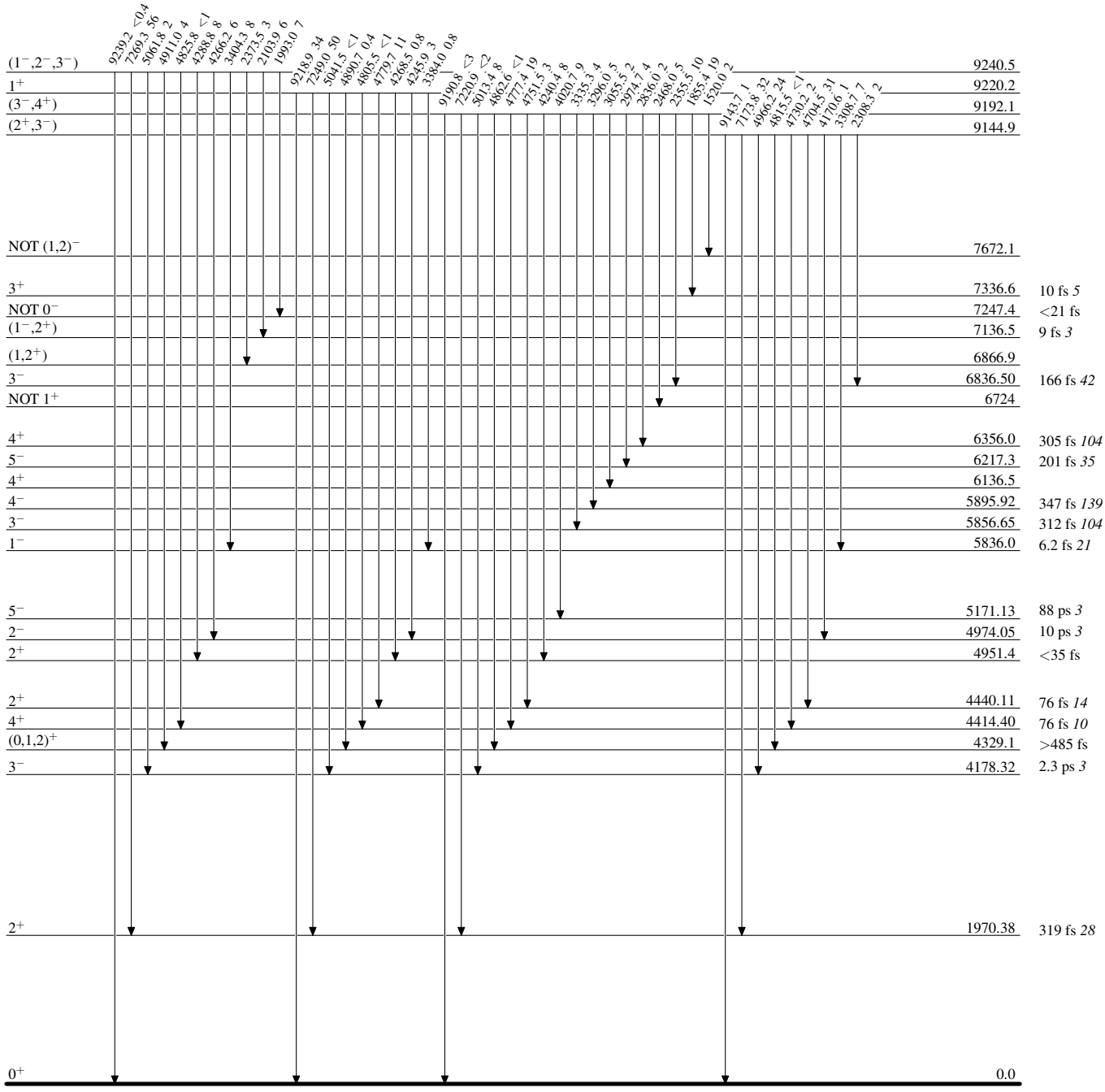


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

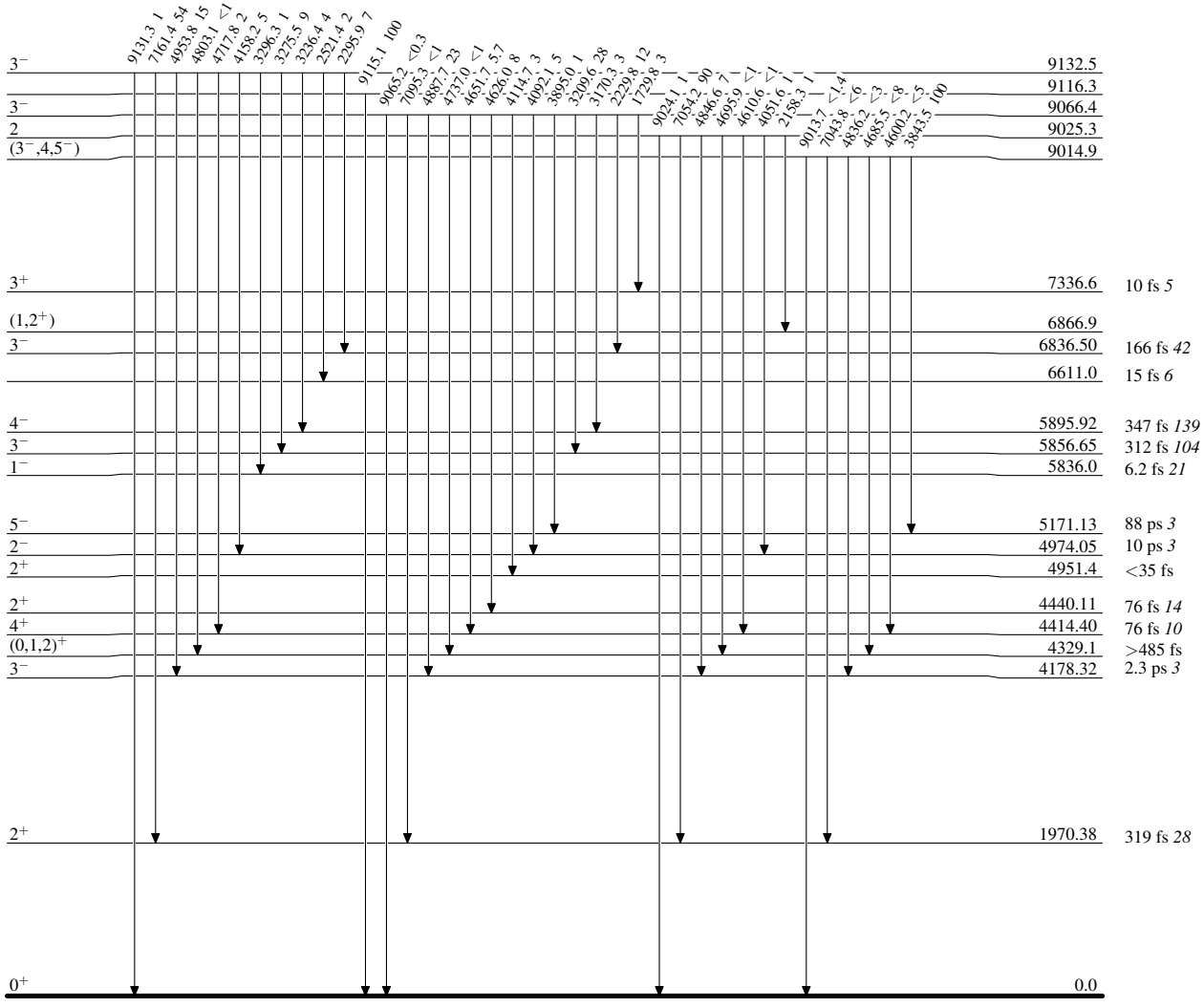


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

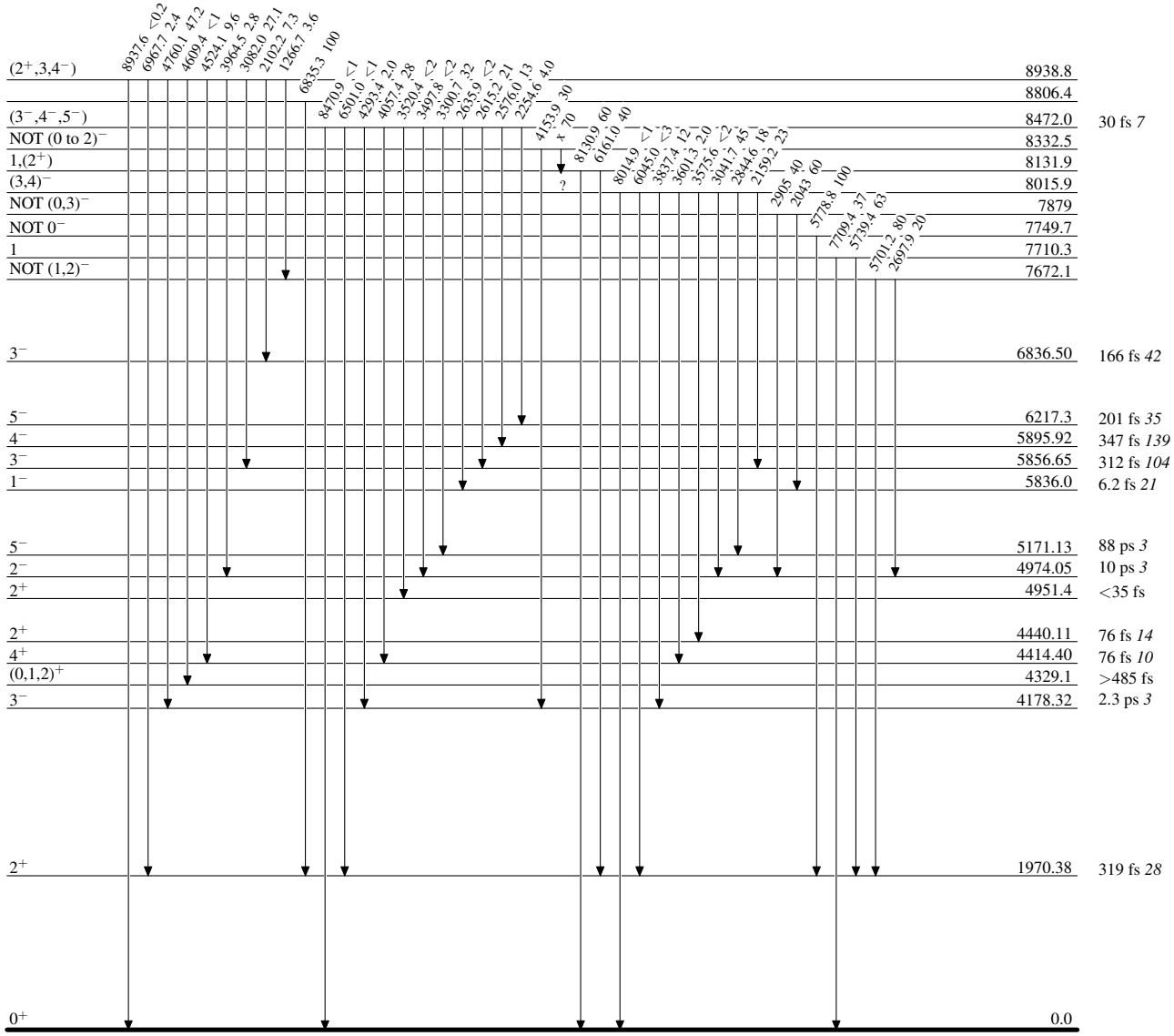


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

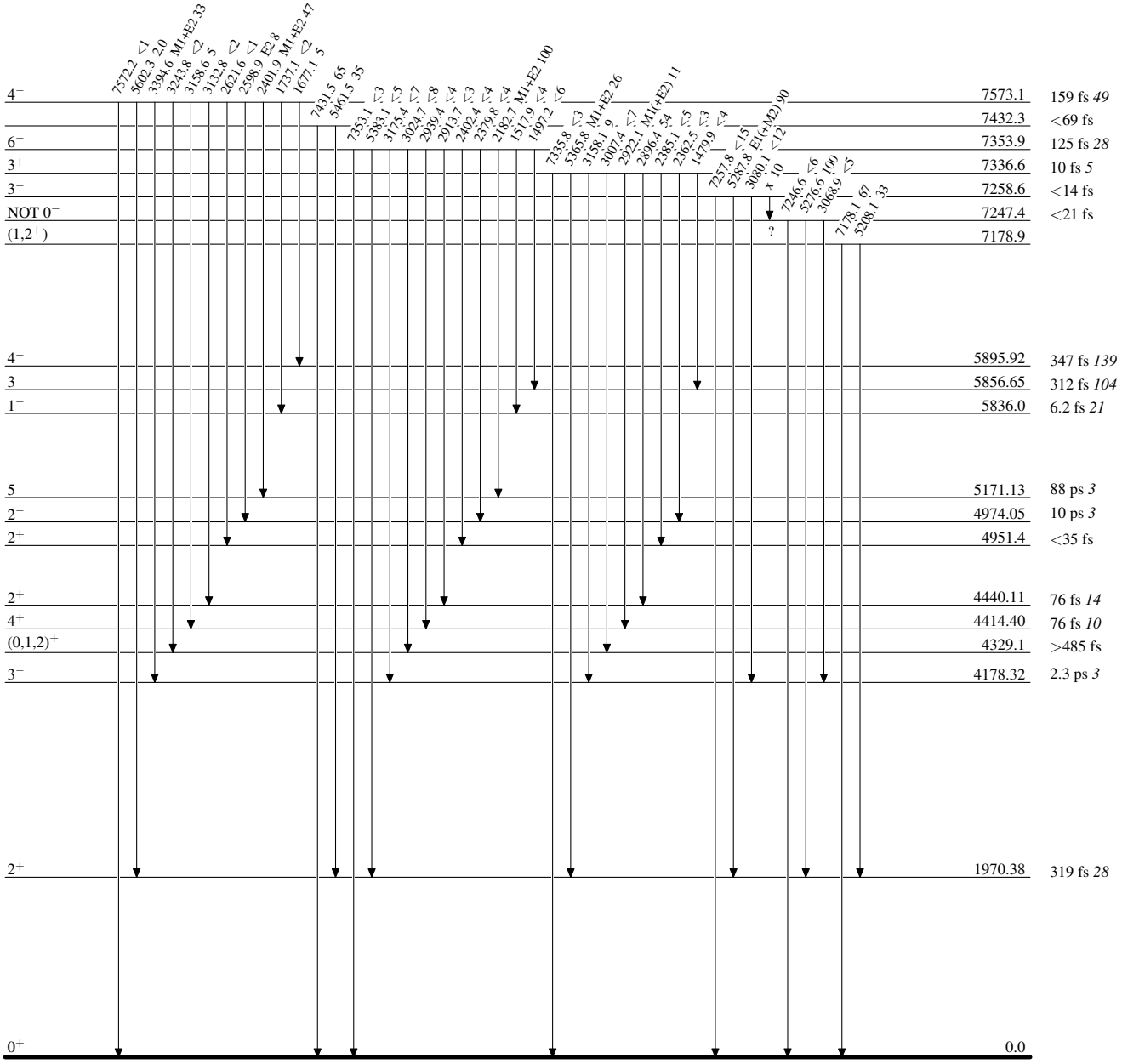
Intensities: % photon branching from each level
& Multiply placed: undivided intensity given



^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

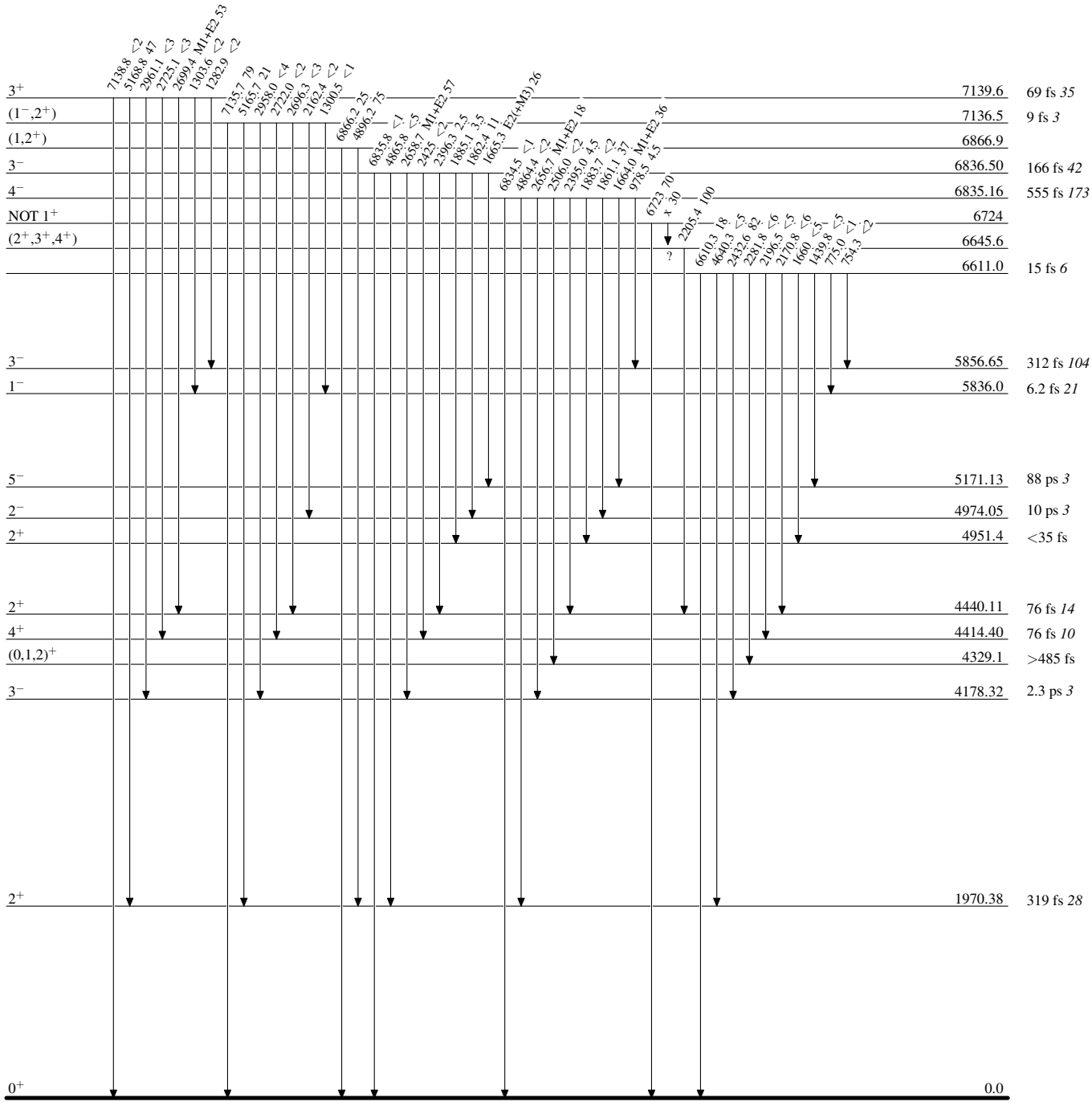


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p$'$),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

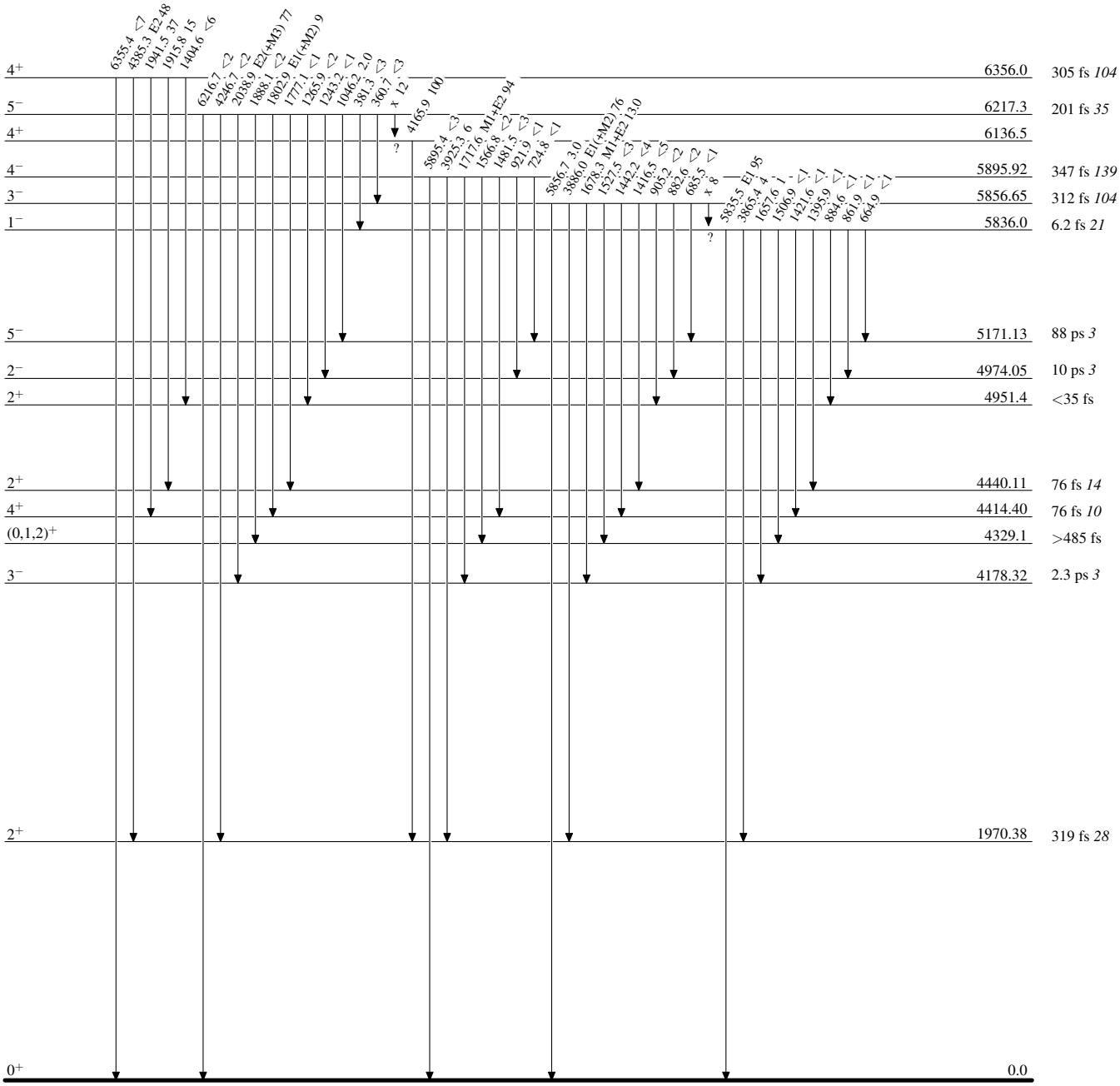


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given

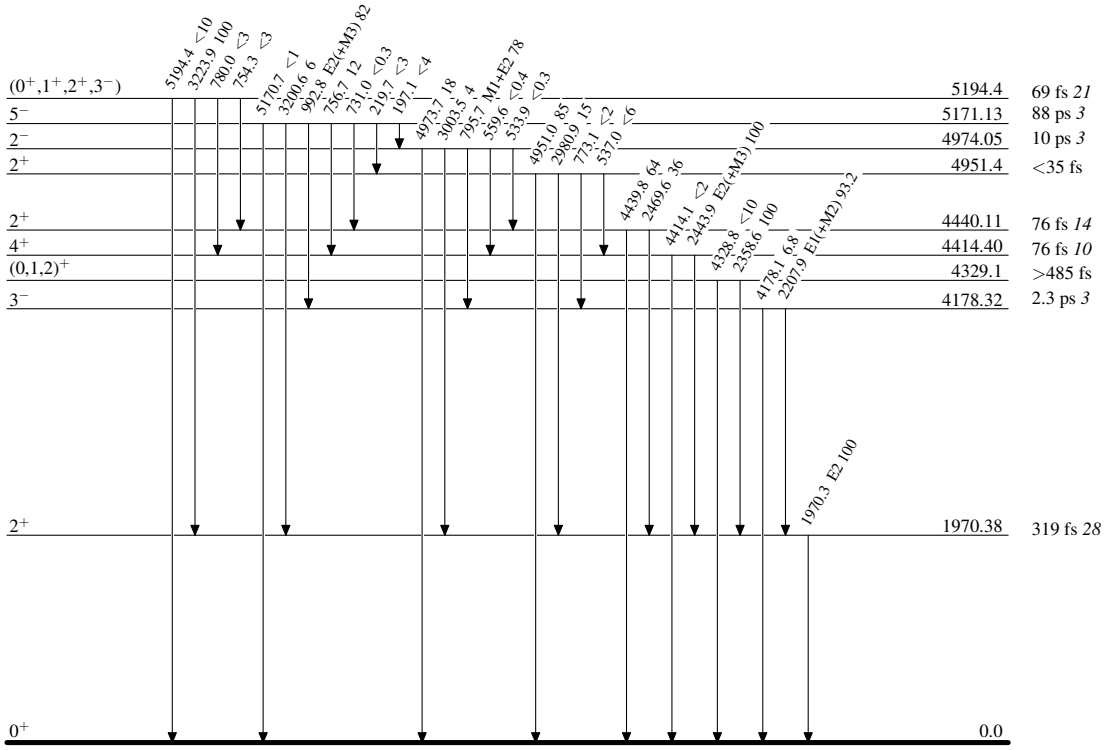


$^{36}_{18}Ar_{18}$

^{35}Cl(p,γ),(p,p′),(p,α):res 1972Ho40,1974Jo02

Level Scheme (continued)

Intensities: % photon branching from each level
& Multiply placed: undivided intensity given



$^{36}_{18}Ar_{18}$