

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 111,1 (2010)	1-May-2009

$Q(\beta^-) = -1.58 \times 10^4$ syst; $S(n) = 1.568 \times 10^4$ 13; $S(p) = 4727$ 10; $Q(\alpha) = -2176$ 8 [2012Wa38](#)

Note: Current evaluation has used the following Q record -15824.0 SY1.51E+4 7 4.2×10^3 6 -2.15×10^{33} [2009AuZZ](#).

$\Delta Q(\beta^-) = 503$ ([2009AuZZ](#)).

α : [Additional information 1](#).

 ^{72}Kr LevelsCross Reference (XREF) Flags

A	(HI,xn γ)	E	$^{16}\text{O}(^{58}\text{Ni},2n\gamma)$
B	$^{40}\text{Ca}(^{40}\text{Ca},2\alpha\gamma)$	F	Coulomb excitation
C	$^{40}\text{Ca}(^{35}\text{Cl},p2n\gamma)$	G	$\text{Be}(^{78}\text{Kr},X)$
D	$^{40}\text{Ca}(^{36}\text{Ar},2p2n\gamma)$		

E(level) [†]	J π #	T _{1/2}	XREF	Comments
0.0 ^a	0 ⁺	17.1 s 2	ABCDEFGG	$\% \varepsilon + \% \beta^+ = 100$; $\% \varepsilon p < 1 \times 10^{-6}$ (2003Pi03) T _{1/2} : from $\gamma(t)$ in 2003Pi03 . Others: 17.4 s 4 (1973Da22) and 16.7 s 6 (1973Sc17). <r ² > ^{1/2} (mass)=4.43 fm 27 (2008Ya08). T _{1/2} : from e(t) in $\text{Be}(^{78}\text{Kr},x)$. T _{1/2} : from B(E2) in Coulomb Excitation.
671.0 10	0 ⁺	26.3 ns 21	G	
709.72 ^a 14	2 ⁺	3.1 ps 4	ABCDEF	
1321.40 ^a 20	4 ⁺		ABCDE	
1849.04 ^c 24	(3 ⁻)		D	
2112.9 ^a 3	6 ⁺		ABCDE	
2455.51 ^c 22	(5 ⁻)		D	
3108.4 ^a 3	8 ⁺		AB D	
3265.5 ^c 20	(7 ⁻)		D	
3797.1 ^b 7			AB D	
4282.7 ^c 22	(9 ⁻)		D	
4293.3 ^a 4	10 ⁺		AB D	
4756.8 ^b 8			AB D	
5497.0 ^c 22	(11 ⁻)		D	
5648.4 ^a 4	12 ⁺		AB D	
6048.8 ^b 11			AB	
6891.1 ^c 24	(13 ⁻)		D	
7157.2 ^a 7	14 ⁺		AB D	
7164.2 ^b 14			AB	
8447 ^c 3	(15 ⁻)		D	
8526.4 10	(16 ⁺)		AB D	
8608.5 ^b 16			AB D	E(level): Assuming that this level de-excites with the 1444 γ and is fed by the 1432 γ . The order of the 1444 and 1432 γ rays is reversed in $^{40}\text{Ca}(^{40}\text{Ca},2\alpha\gamma)$.
8745.1 @ 9	(16 ⁺)		AB	
8820.9 & 13	(16 ⁺)		AB D	
9766.9 @ 10	(18 ⁺)		AB	
10040.9 ^b 18			AB D	
10141 ^c 4	(17 ⁻)		D	
10558.5 & 17	(18 ⁺)		AB D	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{72}Kr Levels (continued)

E(level) [†]	J ^π #	T _{1/2}	XREF	E(level) [†]	J ^π #	XREF
11233.6 [@] 13	(20 ⁺)		AB	16976 ^b 4		AB
11536.7 ^b 20			AB	18474 ^{&} 3	(26 ⁺)	AB
12387.5 ^{&} 23	(20 ⁺)		AB D	18703 [@] 4	(26 ⁺)	AB
13135.8 ^b 23			AB	19491 ^b 4		A
13179.6 [@] 16	(22 ⁺)	42 [‡] fs 22	AB	20914 ^{&} 3	(28 ⁺)	A
14302.6 ^{&} 24	(22 ⁺)	9.7 [‡] fs 35	AB	22420 [@] 4	(28 ⁺)	A
14914.8 ^b 25			AB	22559 ^b 4		A
15639.6 [@] 23	(24 ⁺)		AB	23620 ^{&} 3	(30 ⁺)	A
16337 ^{&} 3	(24 ⁺)		AB			

[†] From least-squares fit to E γ , assuming $\Delta E\gamma=1$ keV when unknown.

[‡] From DSAM in $^{40}\text{Ca}(^{40}\text{Ca},2\alpha\gamma)$.

From γ -ray multipolarities and band structure.

@ Band(A): Band based on 16⁺. Q(transition)=2.00 +36–28 (2007An12) from lifetime measurements using DSAM for all in-band transitions up to 26⁺. Systematic uncertainty due to stopping powers is additional 10%.

& Band(B): Band based on 16⁺. Q(transition)=2.76 +28–22 (2007An12) from lifetime measurements using DSAM for all in-band transitions. Systematic uncertainty due to stopping powers is additional 10%.

^a Band(C): g.s. band.

^b Band(D): Side band. Q(transition)=2.40 +26–23 (2007An12) from lifetime measurements using DSAM for all in-band transitions (figure 2 in 2007An12). Systematic uncertainty due to stopping powers is additional 10%. From comparison with calculations which suggest that not all bands have positive-parity, the side band may be a negative-parity band starting with 7⁻ for the 3800-keV level and extending to 29⁻ for the 22571 level.

^c Band(E): Band based on 3⁻.

Adopted Levels, Gammas (continued)

$\gamma(^{72}\text{Kr})$									
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	$I_{(\gamma+ce)}$	Comments
671.0	0 ⁺	671		0.0	0 ⁺	E0		100	
709.72	2 ⁺	709.72 14	100	0.0	0 ⁺	E2 [†]	1.17×10^{-3}		$\alpha(\text{K})=0.001037$ 15; $\alpha(\text{L})=0.0001125$ 16; $\alpha(\text{M})=1.82 \times 10^{-5}$ 3; $\alpha(\text{N})=1.82 \times 10^{-6}$ 3; $\alpha(\text{N}+..)=1.82 \times 10^{-6}$ 3 B(E2)(W.u.)=57 8 E _γ : weighted average of 710.1 2 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 709.7 1 (⁴⁰ Ca(³⁶ Ar,2p2nγ)), 709.1 3 (¹⁶ O(⁵⁸ Ni,2nγ)), 709 4 (Coulomb excitation).
1321.40	4 ⁺	611.68 14	100	709.72 2 ⁺	E2 [†]		1.76×10^{-3}		$\alpha(\text{K})=0.001562$ 22; $\alpha(\text{L})=0.0001707$ 24; $\alpha(\text{M})=2.76 \times 10^{-5}$ 4; $\alpha(\text{N})=2.76 \times 10^{-6}$ 4; $\alpha(\text{N}+..)=2.76 \times 10^{-6}$ 4 E _γ : weighted average of 611.8 2 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 611.6 1 (⁴⁰ Ca(³⁶ Ar,2p2nγ)), 612.5 4 (¹⁶ O(⁵⁸ Ni,2nγ)).
1849.04	(3 ⁻)	1139.3 2	100	709.72 2 ⁺	(E1) [†]		1.84×10^{-4}		$\alpha(\text{K})=0.0001489$ 21; $\alpha(\text{L})=1.561 \times 10^{-5}$ 22; $\alpha(\text{M})=2.52 \times 10^{-6}$ 4; $\alpha(\text{N})=2.55 \times 10^{-7}$ 4 $\alpha(\text{N}+..)=1.667 \times 10^{-5}$ 25
2112.9	6 ⁺	791.46 20	100	1321.40 4 ⁺	E2 [†]		8.79×10^{-4}		$\alpha(\text{K})=0.000780$ 11; $\alpha(\text{L})=8.41 \times 10^{-5}$ 12; $\alpha(\text{M})=1.361 \times 10^{-5}$ 19; $\alpha(\text{N})=1.366 \times 10^{-6}$ 20 $\alpha(\text{N}+..)=1.366 \times 10^{-6}$ 20 E _γ : weighted average of 791.6 2 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 791.5 1 (⁴⁰ Ca(³⁶ Ar,2p2nγ)), 790.2 4 (¹⁶ O(⁵⁸ Ni,2nγ)).
2455.51	(5 ⁻)	606 2	100 20	1849.04 (3 ⁻)	(E2) [†]		0.00181		$\alpha(\text{K})=0.00160$ 3; $\alpha(\text{L})=0.000175$ 3; $\alpha(\text{M})=2.84 \times 10^{-5}$ 5; $\alpha(\text{N})=2.83 \times 10^{-6}$ 5; $\alpha(\text{N}+..)=2.83 \times 10^{-6}$ 5
		1134.1 1	100 20	1321.40 4 ⁺	(E1) [†]		1.83×10^{-4}		$\alpha(\text{K})=0.0001501$ 21; $\alpha(\text{L})=1.574 \times 10^{-5}$ 22; $\alpha(\text{M})=2.54 \times 10^{-6}$ 4; $\alpha(\text{N})=2.57 \times 10^{-7}$ 4 $\alpha(\text{N}+..)=1.500 \times 10^{-5}$ 22
3108.4	8 ⁺	995.50 9	100	2112.9 6 ⁺	E2 [†]		5.01×10^{-4}		$\alpha(\text{K})=0.000445$ 7; $\alpha(\text{L})=4.75 \times 10^{-5}$ 7; $\alpha(\text{M})=7.69 \times 10^{-6}$ 11; $\alpha(\text{N})=7.74 \times 10^{-7}$ 11; $\alpha(\text{N}+..)=7.74 \times 10^{-7}$ 11 E _γ : weighted average of 995.5 2 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 995.5 1 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 996 (HI,xnγ).
3265.5	(7 ⁻)	810 2	100	2455.51 (5 ⁻)	(E2) [†]		8.28×10^{-4} 13		$\alpha(\text{K})=0.000735$ 12; $\alpha(\text{L})=7.92 \times 10^{-5}$ 13; $\alpha(\text{M})=1.281 \times 10^{-5}$ 20; $\alpha(\text{N})=1.287 \times 10^{-6}$ 20 $\alpha(\text{N}+..)=1.287 \times 10^{-6}$ 20
3797.1		1684.4 7	100	2112.9 6 ⁺					E _γ : weighted average of 1685 1 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1683.9 9 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1685 (HI,xnγ).
4282.7	(9 ⁻)	1017.2 8	100	3265.5 (7 ⁻)	(E2) [†]		4.76×10^{-4}		$\alpha(\text{K})=0.000423$ 6; $\alpha(\text{L})=4.52 \times 10^{-5}$ 7; $\alpha(\text{M})=7.31 \times 10^{-6}$ 11; $\alpha(\text{N})=7.36 \times 10^{-7}$ 11; $\alpha(\text{N}+..)=7.36 \times 10^{-7}$ 11
4293.3	10 ⁺	1184.96 24	100	3108.4 8 ⁺	E2 [†]		3.44×10^{-4}		$\alpha(\text{K})=0.000300$ 5; $\alpha(\text{L})=3.19 \times 10^{-5}$ 5; $\alpha(\text{M})=5.16 \times 10^{-6}$ 8; $\alpha(\text{N})=5.20 \times 10^{-7}$ 8; $\alpha(\text{N}+..)=6.78 \times 10^{-6}$ 10

Adopted Levels, Gammas (continued)

^γ(⁷²Kr) (continued)

E _i (level)	J _i ^π	E _γ	I _γ	E _f	J _f ^π	Mult.	α	Comments
4756.8		959.9 8	<100	3797.1				α(K)=0.000300 5; α(L)=3.19×10 ⁻⁵ 5; α(M)=5.16×10 ⁻⁶ 8; α(N)=5.20×10 ⁻⁷ 8; α(N+..)=6.78×10 ⁻⁶ 10 E _γ : weighted average of 1184.9 2 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1185.9 8 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1186 (HI,xnγ). E _γ : weighted average of 959.1 8 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 960.0 3 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 960 (HI,xnγ). E _γ : From ⁴⁰ Ca(⁴⁰ Ca,2αγ), other: 1653 (HI,xnγ), not observed by ⁴⁰ Ca(³⁶ Ar,2p2nγ). Other: 1643 (HI,xnγ).
5497.0	(11 ⁻)	1214.3 5	100	4282.7 (9 ⁻)	(E2) [†]		3.31×10 ⁻⁴	α(K)=0.000285 4; α(L)=3.02×10 ⁻⁵ 5; α(M)=4.88×10 ⁻⁶ 7; α(N)=4.93×10 ⁻⁷ 7; α(N+..)=1.091×10 ⁻⁵ 18
5648.4	12 ⁺	1355.08 9	100	4293.3 10 ⁺	E2 [†]		2.94×10 ⁻⁴	α(K)=0.000226 4; α(L)=2.39×10 ⁻⁵ 4; α(M)=3.86×10 ⁻⁶ 6; α(N)=3.90×10 ⁻⁷ 6; α(N+..)=4.11×10 ⁻⁵ 6 E _γ : weighted average of 1354.9 3 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1355.1 1 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1356 (HI,xnγ). E _γ : from ⁴⁰ Ca(⁴⁰ Ca,2αγ), other: 1292 (HI,xnγ).
6048.8		1292.0 8	100	4756.8				α(K)=0.000213 3; α(L)=2.25×10 ⁻⁵ 4; α(M)=3.64×10 ⁻⁶ 6; α(N)=3.68×10 ⁻⁷ 6; α(N+..)=5.11×10 ⁻⁵ 8
6891.1	(13 ⁻)	1394 1	100	5497.0 (11 ⁻)	(E2) [†]		2.90×10 ⁻⁴	α(K)=0.000181 3; α(L)=1.91×10 ⁻⁵ 3; α(M)=3.09×10 ⁻⁶ 5; α(N)=3.13×10 ⁻⁷ 5; α(N+..)=8.85×10 ⁻⁵ 13 E _γ : weighted average of 1509.2 3 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1508.1 3 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1510 (HI,xnγ). E _γ : from ⁴⁰ Ca(⁴⁰ Ca,2αγ), other: 1116 (HI,xnγ).
7157.2	14 ⁺	1508.7 6	100	5648.4 12 ⁺	E2 [†]		2.92×10 ⁻⁴	α(K)=0.0001704 25; α(L)=1.80×10 ⁻⁵ 3; α(M)=2.91×10 ⁻⁶ 5; α(N)=2.94×10 ⁻⁷ 5 α(N+..)=0.0001072 18
7164.2		1115.4 8	100	6048.8				E _γ : weighted average of 1369.2 8 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1367 2 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1368 (HI,xnγ). Mult.: (D) in ⁴⁰ Ca(³⁶ Ar,2p2nγ). The other two high-spin datasets would give a Q value based on the level scheme.
8447	(15 ⁻)	1556 2	100	6891.1 (13 ⁻)	(E2) [†]		2.98×10 ⁻⁴	E _γ : from ⁴⁰ Ca(⁴⁰ Ca,2αγ), other: 1586 (HI,xnγ).
8526.4	(16 ⁺)	1368.9 8	100	7157.2 14 ⁺	[†]			α(K)=0.0001495 21; α(L)=1.574×10 ⁻⁵ 23; α(M)=2.55×10 ⁻⁶ 4; α(N)=2.58×10 ⁻⁷ 4 α(N+..)=0.0001532 22 E _γ : weighted average of 1661.9 6 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1664.2 4 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1665 (HI,xnγ).
8608.5		1444.3 [#] 9	100	7164.2				E _γ : from ⁴⁰ Ca(⁴⁰ Ca,2αγ), other: 1021 (HI,xnγ).
8745.1	(16 ⁺)	1588.2 6	100	7157.2 14 ⁺	Q [‡]			E _γ : from ⁴⁰ Ca(⁴⁰ Ca,2αγ), other: 1241 (HI,xnγ).
8820.9	(16 ⁺)	1663.5 11	100	7157.2 14 ⁺	(E2) [†]		3.21×10 ⁻⁴	E _γ : weighted average of 1432.1 9 (⁴⁰ Ca(⁴⁰ Ca,2αγ)), 1434 2 (⁴⁰ Ca(³⁶ Ar,2p2nγ)). Other: 1435 (HI,xnγ).
9766.9	(18 ⁺)	1021.9 6	100 11	8745.1 (16 ⁺)	Q [‡]			
		1240 1	56 11	8526.4 (16 ⁺)				
10040.9		1432.4 8	100	8608.5				

Adopted Levels, Gammas (continued)

$\gamma(^{72}\text{Kr})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
10141	(17 ⁻)	1694 [#] 2	100	8447	(15 ⁻)	(E2) [†]	3.29×10^{-4}	$\alpha(\text{K})=0.0001443$ 21; $\alpha(\text{L})=1.519 \times 10^{-5}$ 22; $\alpha(\text{M})=2.46 \times 10^{-6}$ 4; $\alpha(\text{N})=2.49 \times 10^{-7}$ 4 $\alpha(\text{N}+..)=0.0001666$ 25
10558.5	(18 ⁺)	1737.3 13	100 13	8820.9	(16 ⁺)	(E2) [†]	3.40×10^{-4}	$\alpha(\text{K})=0.0001375$ 20; $\alpha(\text{L})=1.446 \times 10^{-5}$ 21; $\alpha(\text{M})=2.34 \times 10^{-6}$ 4; $\alpha(\text{N})=2.37 \times 10^{-7}$ 4 $\alpha(\text{N}+..)=0.000186$ 3 E_γ : weighted average of 1738.6 6 (⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$)), 1736.0 6 (⁴⁰ Ca(³⁶ Ar,2p2n γ)). Other: 1741 (HI,xn γ). E_γ : Observed only by (HI,xn γ). DE γ was taken as 3.7 keV=1741 – 1737.3, that is, the difference between the adopted energy and that from the (HI,xn γ) dataset for the other gamma from the same level.
		1816 4		8745.1	(16 ⁺)			
11233.6	(20 ⁺)	1466.7 8	100	9766.9	(18 ⁺)	Q [‡]		E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 1467 (HI,xn γ).
11536.7		1495.8 9	100	10040.9				E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 1497 (HI,xn γ).
12387.5	(20 ⁺)	1829 2	100	10558.5	(18 ⁺)	(E2) [†]	3.67×10^{-4}	$\alpha(\text{K})=0.0001247$ 18; $\alpha(\text{L})=1.310 \times 10^{-5}$ 19; $\alpha(\text{M})=2.12 \times 10^{-6}$ 3; $\alpha(\text{N})=2.15 \times 10^{-7}$ 3 $\alpha(\text{N}+..)=0.000227$ 4 E_γ : weighted average of 1830 1 (⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$)), 1825 2 (⁴⁰ Ca(³⁶ Ar,2p2n γ)). Other: 1832 (HI,xn γ).
13135.8		1599 1	100	11536.7				
13179.6	(22 ⁺)	1946 1	100	11233.6	(20 ⁺)	E2	4.08×10^{-4}	$\alpha(\text{K})=0.0001111$ 16; $\alpha(\text{L})=1.166 \times 10^{-5}$ 17; $\alpha(\text{M})=1.89 \times 10^{-6}$ 3; $\alpha(\text{N})=1.91 \times 10^{-7}$ 3 $\alpha(\text{N}+..)=0.000283$ 4 B(E2)(W.u.)=27 15 E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 1949 (HI,xn γ). Mult.: ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$) gives M γ =Q. If it were M2, it would have B(M2)(W.u.)= 1.5×10^3 , which is larger than the recommended upper limit of 1. As a result M γ =E2 is adopted.
14302.6	(22 ⁺)	1915 1	100	12387.5	(20 ⁺)	(E2)	3.96×10^{-4}	$\alpha(\text{K})=0.0001144$ 16; $\alpha(\text{L})=1.202 \times 10^{-5}$ 17; $\alpha(\text{M})=1.94 \times 10^{-6}$ 3; $\alpha(\text{N})=1.97 \times 10^{-7}$ 3 $\alpha(\text{N}+..)=0.000268$ 4 B(E2)(W.u.)= 1.3×10^2 5 E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 1917 (HI,xn γ). Mult.: (Q) from Level scheme, (M2) is ruled out as it would have B(M2)(W.u.)= $7. \times 10^3$, which is larger than the recommended upper limit of 1. As a result M γ =(E2) is adopted.
14914.8		1779 1	100	13135.8				E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 1778 (HI,xn γ).
15639.6	(24 ⁺)	2460 2	100	13179.6	(22 ⁺)			E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 2468 (HI,xn γ).
16337	(24 ⁺)	2034 1	100	14302.6	(22 ⁺)			E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 2038 (HI,xn γ).
16976		2061 3	100	14914.8				E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 2062 (HI,xn γ).
18474	(26 ⁺)	2137 [#] 2	100 20	16337	(24 ⁺)			E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 2143 (HI,xn γ).
		2834 [#] 3	<100	15639.6	(24 ⁺)			E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 2836 (HI,xn γ).
18703	(26 ⁺)	3063 3	100	15639.6	(24 ⁺)			E_γ : from ⁴⁰ Ca(⁴⁰ Ca,2 $\alpha\gamma$), other: 3059 (HI,xn γ).
19491		2515	100	16976				
20914	(28 ⁺)	2440	100	18474	(26 ⁺)			

Adopted Levels, Gammas (continued)

$\gamma(^{72}\text{Kr})$ (continued)

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>
22420	(28 ⁺)	3717 [#]	100	18703	(26 ⁺)
22559		3068	100	19491	
23620	(30 ⁺)	2706	100	20914	(28 ⁺)

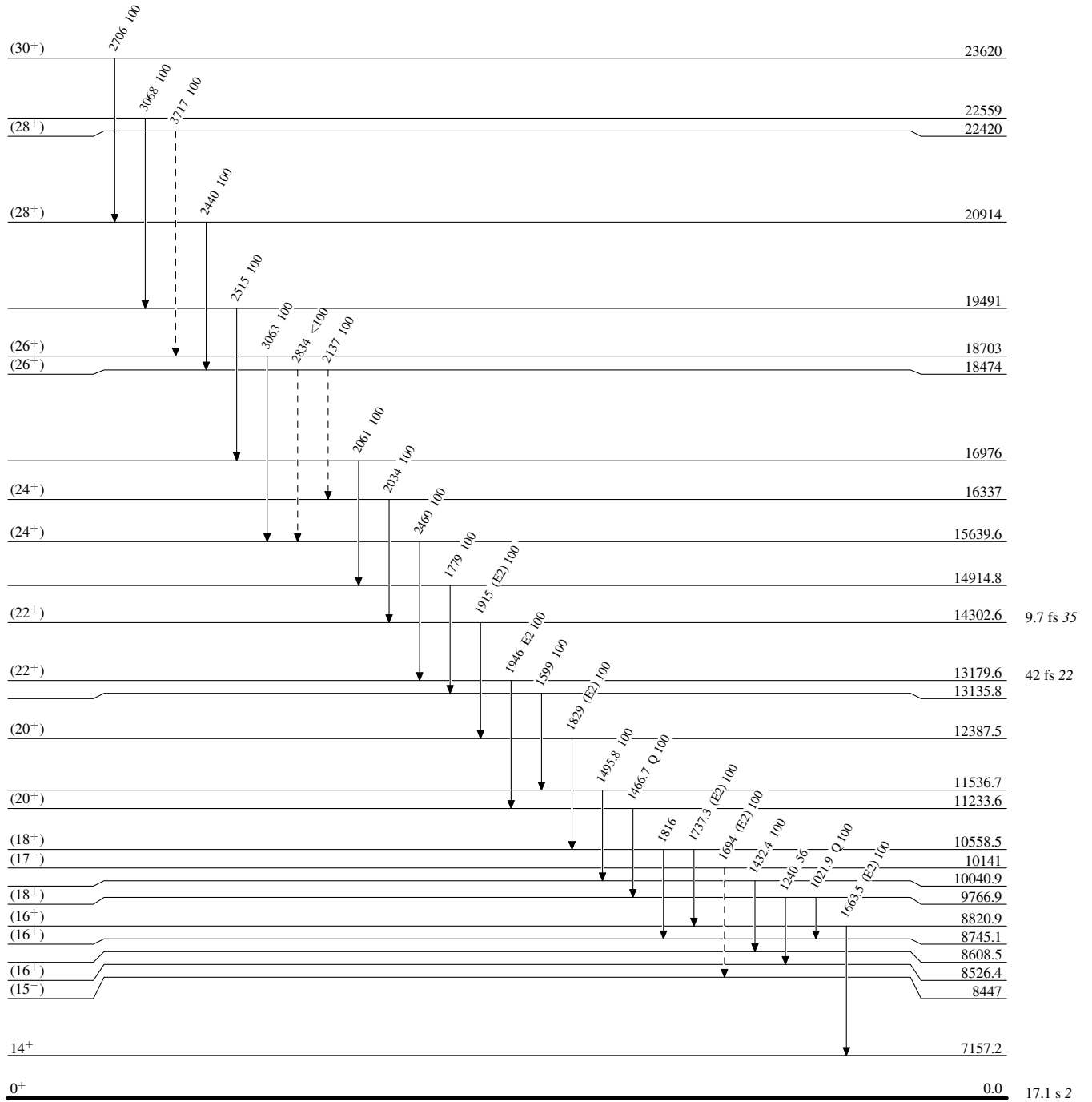
[†] From ⁴⁰Ca(³⁶Ar,2p2nγ).
[‡] From ⁴⁰Ca(⁴⁰Ca,2αγ).
[#] Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

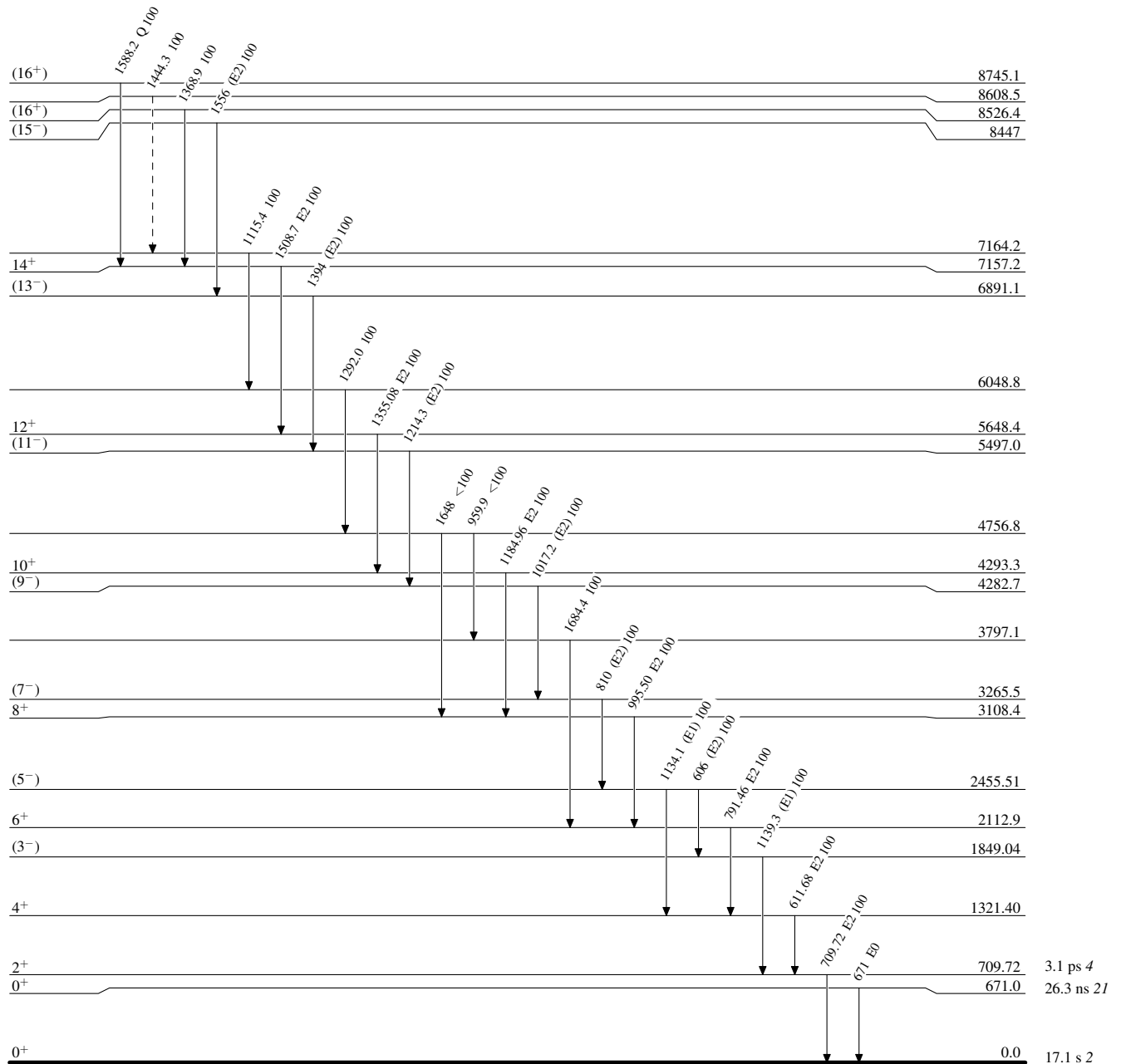
-----> γ Decay (Uncertain)

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain) $^{72}_{36}\text{Kr}_{36}$

Adopted Levels, Gammas