

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113,515 (2012)	1-Jan-2012

$Q(\beta^-) = -6062.22$; $S(n) = 10300.418$; $S(p) = 8480.57$; $Q(\alpha) = -2633.511$ [2012Wa38](#)

Note: Current evaluation has used the following Q record $-6063.2210300.5188480.17$ -2634.112 [2011AuZZ](#).

 ^{114}Sn LevelsCross Reference (XREF) Flags

A	$^{114}\text{In } \beta^- \text{ decay}$	F	$^{114}\text{Sn}(p, p' \gamma)$	K	$^{116}\text{Sn}(p, t)$
B	$^{114}\text{Sb } \beta^+ \text{ decay}$	G	$^{114}\text{Sn}(d, d')$	L	$(\text{HI}, xn\gamma)$
C	$^{112}\text{Cd}(^3\text{He}, n)$	H	$^{114}\text{Sn}(\alpha, \alpha')$	M	$^{114}\text{Sn}(n, n' \gamma)$
D	$^{112}\text{Cd}(\alpha, 2n\gamma)$	I	Coulomb excitation	N	$^{100}\text{Mo}(^{18}\text{O}, 4n\gamma)$
E	$^{112}\text{Sn}(t, p)$	J	$^{115}\text{Sn}(d, t)$	O	$^{114}\text{Cd } 2\beta^- \text{ decay}$

E(level) [†]	J ^π [‡]	T _{1/2} [#]	XREF	Comments
0 [@]	0 ⁺	stable	ABCDEFGHIJKLMNO	
1299.907 [@] 7	2 ⁺	0.42 ps 3	AB DEFG IJKLMN	$\mu \geq 0$ (1980Ha19, 2005St24) g = +0.110 25 (2011Wa15) J ^π : E2 γ to 0 ⁺ . T _{1/2} : From 2011Ju01 in Coulomb excitation; Others: T _{1/2} 1/2 = 0.31 ps 10 (1991ViZW), T _{1/2} 1/2 = 0.39 ps 8 (2001Ga52), 0.30 ps 6 (1961An07).
1953.266 ^{&} 21	0 ⁺	6.5 ps 23	B DEF I K M	J ^π : L(p, t) = 0. T _{1/2} : from B(E2) (1981Ba05) in Coulomb excitation.
2156.28 3	0 ⁺	> 7.6 ps	DE I K M	J ^π : L(t, p) = 0. T _{1/2} : from B(E2) (1981Ba05) in Coulomb excitation.
2187.602 [@] 11	4 ⁺	5.3 ps 4	B DE G KLMN	g = +0.09 7 (2011Wa15) J ^π : L(p, t) = 4, E2 γ to 2 ⁺ . log ft = 5.9 from 3 ⁺ ^{114}Sb g.s. T _{1/2} : from (2001Ga52). Other: 1.4 ps > (1991ViZW).
2238.953 ^{&} 13	2 ⁺		B D KLMN	J ^π : γ to 0 ⁺ and L(p, t) = 2.
2274.990 ^c 11	3 ⁻	0.360 ps 21	B DE KLMN	g = +0.09 7 (2011Wa15) T _{1/2} : From 2011Ju01. Previous: 1.7 ps + 10-7 (1991ViZW) not adopted.
2421.67 22	0 ⁺		JK M	J ^π : L(p, t) = 3.
2454.072 16	2 ⁺		B D K M	J ^π : L(p, t) = 0.
2514	3 ⁻		K	J ^π : L(p, t) = 2.
2514.760 22	3 ⁺		B D MN	J ^π : L(p, t) = 3.
2576? 4	2 ⁺		K	J ^π : M1 + E2 to 4 ⁺ and from 4 ⁺ . J ^π : L(p, t) = 2.
2614.461 ^{&} 16	4 ⁺	0.55 ps 10	B D KLMN	E(level): not seen in (n, n' γ). J ^π : L(p, t) = 2. T _{1/2} : from (2001Ga52). Other: 1.4 ps + 14-7 (1991ViZW).
2738.4 5			D	
2759.7 5			D	
2765.36 4	4 ⁺	0.56 ps 30	B D KLMN	J ^π : E2 γ from 6 ⁺ , E2 γ to 2 ⁺ . T _{1/2} : from (2001Ga52). Other: 1.2 ps 5 (1991ViZW).
2815.146 ^c 22	5 ⁻	> 1.4 ps	DE KLMN	J ^π : L(p, t) = 5, E1 γ to 4 ⁺ .
2859.81 3	4 ⁺		B DE G K M	J ^π : L(p, t) = 4.
2905 5	3 ⁻		K	J ^π : L(p, t) = 3.
2905.12 5	3 ⁻		B DE M	J ^π : M1 + E2 to 4 ⁺ and from 4 ⁺ .
2915.73 15	2 ⁺		K M	J ^π : L(p, t) = 2.
2943.43 6	2 ⁺		B DE K M	J ^π : L(p, t) = 2.

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Adopted Levels, Gammas (continued) ^{114}Sn Levels (continued)

E(level) [†]	J ^{π‡}	T _{1/2} [#]	XREF		Comments
3025	2,3 ⁺		e	M	J ^π : γ(θ) in (n,n'γ).
3025.29 6	0 ⁺			K	J ^π : L(p,t)=0.
3028.09 10	2,3 ⁺		e	M	J ^π : γ(θ) in (n,n'γ).
3071.4 5			D		
3087.37 ^C 7	7 ⁻	733 ns 14	DE	K MN	Q=0.32 3 (1975Di02,2005St24) μ=-0.567 4 (2005St24) T _{1/2} : from 1980Va13 in (α,2nγ). J ^π : L(p,t)=(7), γ(θ), γ-pol (1979Br07).
3100.1 5			D		
3107.1 5			D		
3149.79 [@] 12	6 ⁺	1.1 ps 3	D	K M	J ^π : L(p,t)=6.
3186.13 8	2 ⁺			K M	J ^π : L(p,t)=2.
3188.92 ^{&} 5	6 ⁺	2.14 ps 10	D	KLMN	J ^π : L(p,t)=6. T _{1/2} : from (2001Ga52). Other: 2.2 ps +6-3 (1991ViZW).
3190.39 8	8 ⁻	0.35 ns 20	D	LMN	T _{1/2} : from a,γ(t) in $^{112}\text{Cd}(\alpha,2n\gamma)$ (1978BrZU). J ^π : probable M1 γ to 7 ⁻ , no γ's to 6 ⁺ or 5 ⁻ . M1+E2 from 8 ⁻ .
3207.61 17	4 ⁺		B D	K M	J ^π : L(p,t)=4.
3211.76 19	(1,2)			M	J ^π : γ's to 0 ⁺ and 2 ⁺ .
3226.00 9	3 ⁻		B D	K M	J ^π : L(p,t)=3.
3242.05 10	5 ⁻ ,6 ⁺		D	K M	J ^π : doublet with mixture of 95% L=6, 5% L=5.
3244.39 7	6 ⁻	>1.4 ps	DE	M	J ^π : M1+E2 γ to 5 ⁻ in (α,2nγ).
3297.3 5			D		
3308.4 6	0 ⁺			K M	J ^π : L(p,t)=0.
3326	2 ⁺			K	J ^π : L(p,t)=2.
3326.50 16	(1)			M	J ^π : d to g.s.
3357.42 18	4 ⁺		B DE	K M	J ^π : L(p,t)=4, 1995Wi15 gives (2)+?
3363.00 10	6 ⁻	1.1 ps +7-3	DE	L	J ^π : L(p,t)=5.
3364.8 5	5 ⁻		D	K	J ^π : L(p,t)=5.
3380.1 5			D		
3392.1 5			D		
3393.0 7			D		
3396.1 6	6 ⁺		D	K	J ^π : L(p,t)=6.
3396.9 5	(4 ⁻)		D		J ^π : M1+E2 γ to 3 ⁻ and γ(θ) in (α,2nγ).
3422.7 9	0 ⁺			K M	J ^π : L(p,t)=0.
3448.37 10	4 ⁺			K M	J ^π : L(p,t)=4.
3451.8 3	0 ⁺			K M	J ^π : L(p,t)=0.
3471.4 3	6 ⁺	0.5 ps +3-18	D	K M	J ^π : L(p,t)=6.
3478.85 13	2 ⁺		B D	K M	J ^π : L(p,t)=2.
3486 3	5 ⁻			K	J ^π : L(p,t)=5.
3510.70 ^C 10	9 ⁻	7.2 ps 39	CD	KL N	J ^π : M1,E2 γ to 7 ⁻ , L(p,t)=9. T _{1/2} : from (2001Ga52). Other: 2 ps>(1991ViZW).
3514.19 10	3 ⁻ ,9 ⁻			K M	J ^π : doublet with mixture of 95% L=9, 5% L=3.
3525.36 16	3 ⁻		B D	K	J ^π : L(p,t)=3 ^{146}Gd .
3549 3	0 ⁺			K	J ^π : L(p,t)=0.
3561.1 3	2 ⁺			K M	J ^π : doublet with mixture of 93% L=7, 7% L=2, see 3566.47 level.
3566.47 8	7 ⁻		DE	K	J ^π : E2 γ to 5 ⁻ , M1+E2 γ to (8 ⁻), γ(θ) in (α,2nγ), and part of the doublet in (p,t).
3587 3	4 ⁺			K	J ^π : L(p,t)=4.
3610.71 20	5 ⁽⁻⁾		D		
3654 3	4 ⁺			K	J ^π : L(p,t)=4.
3658.7 10		0.8 ps +5-3	D		
3680 3	4 ⁺			K	J ^π : L(p,t)=4.
3685.15 21	6 ⁻		D		
3696 3	2 ⁺			K	J ^π : L(p,t)=2.
3717.83 12	7 ⁻	1.0 ps +7-4	D		

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Adopted Levels, Gammas (continued) ^{114}Sn Levels (continued)

E(level) [†]	J ^π [‡]	T _{1/2} [#]	XREF	Comments
3720.4 5			D	
3727 3	2 ⁺		K	J ^π : L(p,t)=2.
3740.03 20	0 ⁺		K M	J ^π : L(p,t)=0.
3765 3	0 ⁺		K	J ^π : L(p,t)=0.
3781.98 8	2 ⁺		B K	J ^π : log ft=5.75 via 3 ⁺ ^{114}Sb g.s., γ to 0 ⁺ . L(p,t)=2.
3786 3	4 ⁺		K	J ^π : L(p,t)=4.
3800 3	2 ⁺		K	J ^π : L(p,t)=2.
3854.3 7			D	
3855.6 6			D	
3871 3	5 ⁻		K	J ^π : L(p,t)=5.
3871.28 ^{&} 9	8 ⁺	1.01 ps 8	D L N	J ^π : E2 γ to 6 ⁺ , $\gamma(\theta)$, $\alpha(K)$, γ -pol (1979Br07). T _{1/2} : from (2001Ga52). Other: 1.0 ps (1991ViZW).
3876 3	2 ⁺		K	J ^π : L(p,t)=2.
3889.3 6			D	
3939 6	3 ⁻		K	J ^π : L(p,t)=3.
3971 3	2 ⁺		K	J ^π : L(p,t)=2.
3971.21 12	8 ⁻		D L N	J ^π : M1+E2 γ to 7 ⁻ and 9 ⁻ .
3987.6 5			D	
3988 3	3 ⁻		K	J ^π : L(p,t)=3.
3991.39 12	2 ⁺ ,3 ⁺ ,4 ⁺		B	J ^π : log ft=5.4 from 3 ⁺ parent.
4000 3	4 ⁺		K	J ^π : L(p,t)=4.
4029.83 9	2 ⁺ ,3 ⁺ ,4 ⁺		B K	J ^π : log ft=5.4 from 3 ⁺ parent.
4043.15 21	5 ⁻		D K	J ^π : L(p,t)=5.
4046.82 ^a 15	5 ⁻		L N	J ^π : this level is the bandhead of the rotational bands with J ^π =5 ⁻ .
4057 3	6 ⁺		K	J ^π : L(p,t)=6.
4088.74 [@] 16	8 ⁺		D K	J ^π : E1 γ to 9 ⁻ and (7) ⁻ , and $\gamma(\theta)$ in (α ,2n γ).
4095 3	2 ⁺		K	J ^π : L(p,t)=2.
4118 3	4 ⁺		K	J ^π : L(p,t)=4.
4136 3	4 ⁺		K	J ^π : L(p,t)=4.
4139.69 13	10 ⁺	218 ps 24	D L N	J ^π : E1 γ to 9 ⁻ and $\gamma(\theta)$ in (α ,2n γ). T _{1/2} : from (2001Ga52). Other: 0.7 ps>(1991ViZW).
4141.50 16	8 ⁻		D L N	
4152.5 10			D	
4160 30			K	
4177 6			K	
4220.89 ^b 17	6 ⁻		D L N	
4262.0 5			D K	
4293.8 5			D	
4313.00 23	7 ⁺		D K	
4322.0 5			D	
4338.3 5			D	
4353 6			K	
4394.1 5			D	
4403.0 5			D	
4406.4 5			D	
4413 6	0 ⁺		K	J ^π : L(p,t)=0.
4428.6 9			D	
4430.36 ^a 12	7 ⁻		D L N	
4434.5 5			D	
4449.5 6			D K	
4472 6			K	
4481.5 9			D	
4488.5 6			D	
4492.0 5			D	
4515.0 5			D K	

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Adopted Levels, Gammas (continued) ^{114}Sn Levels (continued)

E(level) [†]	J ^{π‡}	T _{1/2} [#]	XREF	Comments	
4526.9 5	8 ⁺	0.69 ps 9	D	J ^π : E2 γ to 6 ⁺ and γ(θ) in (α,2nγ).	
4553.3 4			D		
4568.3 6			D		
4576 6			K		
4583.7 5	D		7 ⁻	J ^π : E2 γ to 8 ⁻ and γ(θ) in (α,2nγ).	
4593.5 5	D				K
4613.0 5	D				
4624.1 4	D				
4650.5 11	9 ⁻		K	J ^π : E2 γ to 8 ⁺ , γ(θ), α(K), γ-pol (1979Br07). T _{1/2} : from (2001Ga52). Other: 0.60 ps 18 (1991ViZW).	
4664.88 22			D		
4669.44 ^b 13			8 ⁻		L N
4671.2 3			10 ⁻		D
4672.77 ^{&} 11	10 ⁺		D		L N
4678.7 7	(6 ⁺)		D		
4682.1 11			D		
4683.1 5			D		
4717.7 5			D		
4732.2 5	10 ⁻	D	K		
4736.38 16		D			
4766.2 5		D			
4766.4 5		D			
4787.6 5		D	K		
4788.3 12		D			
4797 6					
4805.8 6		D			
4831 10		K	K		
4858.7 8		D			
4909 10		K			
4916.41 23		10 ⁻		D	
4919.30 12	9 ⁻	D	L N	J ^π : γ to 7 ⁻ and from (11 ⁻).	
4923.70 ^a 13	9 ⁻	D	L N		
4924.3 9	11 ⁻	D	KL N		
4926.9 5		D			
4932.3 6		D			
4963.58 ^c 20		D			
4964.1 5	9 ⁻	D	K		
5014.2 6		D			
5039.2 5		D			
5054.9 8		D			
5065.4 6	(10 ⁻)	D	K		
5094.82 22		D			
5102.9 11		D			
5119.6 5		D			
5124.2 5	12 ⁺	D	L N	J ^π : tentative, poor γ(θ) and γ-pol (1978BrZU).	
5181.72 19		D			
5182.15 23		D			
5191.4 6		D			
5213.5 4	10 ⁺	D	J ^π : E1 γ to 9 ⁻ and γ(θ) in (α,2nγ).		
5214.3 [@] 4	(10) ⁺	D			
5221.6 3	(11) ⁻	D			
5221.72 23		L			
5226.6 5	10 ⁻	D	L N	T _{1/2} : from (2001Ga52).	
5233.60 ^b 15		2.2 ps 6			D
5254.9 4		(8,10) ⁺			D

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Adopted Levels, Gammas (continued) ^{114}Sn Levels (continued)

E(level) [†]	J ^{π‡}	T _{1/2} [#]	XREF	Comments
5280.4 9			D	
5299.32 21	11 ⁺	0.25 ps 11	D	J ^π : M1+E2 γ to 10 ⁺ and γ(θ) in (α,2nγ).
5310.72 23	(8,10 ⁺)		D	
5348.9 6			D	
5357.22 23	(8,10 ⁺)		D	
5372.3 6			D	
5419.5 8			D	
5445.3 8			D	
5468.23 21	(12 ⁻)		D	
5488.12 23	(9,11 ⁻)		D	
5500.1 5			D	
5535.3 5			D	
5538.7 5	(9,11 ⁺)		D	J ^π : E1 γ to 10 ⁻ .
5548.24 & 14	12 ⁺	0.42 ps 9	D L N	J ^π : E2 γ to 10 ⁺ , γ(θ), α(K), γ-pol (1979Br07). T _{1/2} : from (2001Ga52). Other: 0.67 ps 18 (1991ViZW).
5554.09 ^a 13	11 ⁻	1.2 ps 4	D L N	T _{1/2} : from (2001Ga52).
5586.6 7			D	
5596.9 11			D	
5599.4 6			D	
5627.92 23	(8,10 ⁺)		D	
5699.87 23	(9,11 ⁻)		D	
5707.2 5			D	
5735.17 23	(9,11 ⁻)		D	
5776.26 17	12 ⁺		D L	J ^π : E2 γ to 10 ⁺ .
5776.7 6			D	
5801.1 8			D	
5834.93 23	(8,10 ⁻)		D	
5857.2 8			D	
5886.5 6			D L	
5892.0 12			D	
5920.96 18	13 ⁺	1.4 ps +14-7	D L N	J ^π : M1+E2 γ to (12 ⁺).
5921.97 ^b 17	12 ⁻	1.05 ps 20	D L N	T _{1/2} : from (2001Ga52).
5956.2 6			D	
5974.21 24	(12 ⁺)		D	
5977.1 11			D	
6001.1 5			D	
6045.53 20	14 ⁺	13.78 ps 8	D L N	T _{1/2} : from (2001Ga52). Other: 0.5 ps +4-2 (1991ViZW).
6067.8 6			D	
6131.7 6			D	
6132.3 6			D	
6135.1 3			D L	
6164.5 6			D	
6173.9 8			D	
6174.9 8			D	
6225.6 6			D	
6266.23 23	14 ⁺		D N	
6279.01 ^a 18	13 ⁻	1.00 ps 24	D N	T _{1/2} : from (2001Ga52).
6341.62 & 20	14 ⁺	0.34 ps 8	D L N	J ^π : stretched E2 γ to 12 ⁺ . T _{1/2} : from (2001Ga52).
6460.44 ^c 24	(13 ⁻)		D L	
6496.4 6			D	
6497.3 3	(14 ⁺)		D L	
6520.5 6			D	
6551.0 3			D L	
6551.1 3	15 ⁺	3.62 ps 35	D L N	J ^π : M1+E2 γ to 14 ⁺ in (α,2nγ) and sys with mirror nuclide

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Adopted Levels, Gammas (continued) ^{114}Sn Levels (continued)

E(level) [†]	J^π [‡]	$T_{1/2}$ [#]	XREF	Comments
				¹⁴⁶ Gd. $T_{1/2}$: from (2001Ga52).
6552.3 6			D	
6610.6 7			D	
6690.64 25	(13) ⁻		D L N	
6698.3 6			D L N	
6715.9 ^b 8	14 ⁻	0.57 ps 33	D N	$T_{1/2}$: from (2001Ga52).
6725.6 12			D	
6925.7 4	16 ⁺		D L N	
7115.1 ^a 6	(15) ⁻	0.40 ps 10	D L N	$T_{1/2}$: from (2001Ga52).
7204.68 ^{&} 22	16 ⁺	0.35 ps 4	L N	J^π : stretched E2 γ to 14 ⁺ . $T_{1/2}$: from (2001Ga52).
7205.18 23			L	
≈7300			K	J^π : L(p,t)=8.
7369.7 6			D	
7377.1 8			D L	
7607.9 ^b 9	(16) ⁻	0.24 ps 4	D L N	$T_{1/2}$: from (2001Ga52).
7709.6 5			L	
7869.7 5			L	
8049.3 ^a 6	(17) ⁻	0.21 ps 6	L N	$T_{1/2}$: from (2001Ga52).
8131.4 5			L	
8142.7 ^{&} 3	18 ⁺	0.215 ps 28	L N	J^π : stretched E2 γ to 16 ⁺ . $T_{1/2}$: from (2001Ga52).
8194.4 4			L	
≈8300			K	J^π : L(p,t)=(6).
8357.7 8			L	
8587.5 ^b 9	(18) ⁻	0.097 ps 35	L N	$T_{1/2}$: from (2001Ga52).
8644.6 5			L	
9060.7 ^a 6	(19) ⁻	0.118 ps 28	L N	$T_{1/2}$: from (2001Ga52).
9194.9 ^{&} 4	20 ⁺	0.152 ps 21	L N	$T_{1/2}$: from (2001Ga52).
9647.5 ^b 10	(20) ⁻	0.12 ps 6	L N	$T_{1/2}$: from (2001Ga52).
10113.9 ^a 7	(21) ⁻	0.12 ps 6	L N	$T_{1/2}$: from (2001Ga52).
10359.0 ^{&} 5	(22) ⁺	0.076 ps 21	L N	$T_{1/2}$: from (2001Ga52).
10778.3 ^b 10	(22) ⁻	<0.43 ps	L N	$T_{1/2}$: from (2001Ga52).
11174.7 ^a 7	(23) ⁻	0.10 ps 6	L N	$T_{1/2}$: from (2001Ga52).
11609.0 ^{&} 11	(24) ⁺	0.042 ps 35	L N	$T_{1/2}$: from (2001Ga52).
12311.7 ^a 12	(25) ⁻	<0.35 ps	L N	$T_{1/2}$: from (2001Ga52).
12943.0 ^{&} 15	(26) ⁺	<0.18 ps	L N	$T_{1/2}$: from (2001Ga52).
13516.7 ^a 16	(27) ⁻		L N	
14406.0 ^{&} 18	(28) ⁺		L N	
14801.7 ^a 19	(29) ⁻		L N	
15997.0 ^{&} 21	(30) ⁺		L N	
16236.7 ^a 21	(31) ⁻		L N	
17870.7 ^a 24	(33) ⁻		L N	

[†] From least-squares fit to E_γ values.[‡] Where no J^π argument is given, the assignment is based on placement in a band. J^π for levels seen in $(\alpha, 2n\gamma)$ are based on $\gamma(\theta)$, lin pol and side feeding syst.[#] From 1991ViZW, Doppler shift in $(\alpha, 2n\gamma)$, except were noted otherwise.[@] Band(A): g.s. band.

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Adopted Levels, Gammas (continued)

 ^{114}Sn Levels (continued)

[&] Band(B): $K^\pi=0^+$ intruder band. Configuration= $((\pi g_{7/2})^2(\pi g_{9/2})^{-2}(\nu h_{11/2})^2)$. “Amsterdam” band.

^a Band(C): $K^\pi=5^-$ Band, $\alpha=1$. Suggested Configuration= $((\pi g_{7/2})^2(\pi g_{9/2})^{-2} \otimes (\nu h_{11/2})^2(\nu g_{9/2})^{-1})$.

^b Band(c): $K^\pi=5^-$ Band, $\alpha=0$.

^c Band(D): Negative Parity Band based on 3^- .

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\#$	E_f	J_f^π	Mult. [†]	$\delta^\ddagger$	$I_{(\gamma+ce)}$	Comments
1299.907	2 ⁺	1299.900 7	100	0	0 ⁺	E2			B(E2)(W.u.)=15 3
1953.266	0 ⁺	653.36 2	100	1299.907	2 ⁺				B(E2)(W.u.)=22 8
		1953.2		0	0 ⁺	E0		0.34 7	$E_\gamma, I_{(\gamma+ce)}$: from (p,p'γ) (1976Ba32). Authors report Ice(K)/Ice(K)(653γ)=1.00 20. Ice/Ice(K)=1.12.
2156.28	0 ⁺	856.37 3	100	1299.907	2 ⁺	E2			B(E2)(W.u.)<4.9
2187.602	4 ⁺	887.690 8	100	1299.907	2 ⁺	E2			B(E2)(W.u.)=5.9 5
2238.953	2 ⁺	285.6 4	0.8 3	1953.266	0 ⁺				
		939.036 14	82.4 19	1299.907	2 ⁺	M1+E2	-7.1 +12-19		
		2238.94 2	100 3	0	0 ⁺	E2			
2274.990	3 ⁻	975.076 8	100	1299.907	2 ⁺	E1			B(E1)(W.u.)=0.00018 11
2421.67	0 ⁺	1121.4 3	100	1299.907	2 ⁺				
2454.072	2 ⁺	215.8 6	2.3 6	2238.953	2 ⁺				
		1154.160 14	100 3	1299.907	2 ⁺	M1+E2	-2.8 +18-95		
		2454.02 7	27 4	0	0 ⁺				
2514.760	3 ⁺	327.15 2	100	2187.602	4 ⁺	M1+E2	+0.02 +2-1		
2614.461	4 ⁺	339.5	0.30 9	2274.990	3 ⁻	(E1)			B(E1)(W.u.)=3.8×10 ⁻⁵ 14
		375.3 3	3.2 5	2238.953	2 ⁺	E2			E_γ : from 1995Wi15.
		426.8 4	2.5 8	2187.602	4 ⁺	M1+E2	-0.24 +6-5		B(E2)(W.u.)=1.3×10 ² 3
		1314.550 14	100 3	1299.907	2 ⁺	E2			I_γ : excludes 6.1 10 from (HI,xnγ). Inclusion would give 3.7 7.
2738.4		550.8 5	100	2187.602	4 ⁺				B(E2)(W.u.)=2.8 17; B(M1)(W.u.)=0.011 5
2759.7		1459.8 5	100	1299.907	2 ⁺				B(E2)(W.u.)=7.5 14
2765.36	4 ⁺	250.5 5	2.7 11	2514.760	3 ⁺	M1+E2	-0.1 +1-42		B(E2)(W.u.)=8 +17-8; B(M1)(W.u.)=0.06 5
		490.7 8	<3.6	2274.990	3 ⁻	(E1)			B(E1)(W.u.)=7.E-5 +9-7
		526 @ 1	<5.5	2238.953	2 ⁺	(E2)			E_γ : from 1995Wi15.
		1465.44 4	100 4	1299.907	2 ⁺	E2			B(E2)(W.u.)=20 +23-20
2815.146	5 ⁻	200.84 12	1.3 3	2614.461	4 ⁺				E_γ : from 2001Ga52.
		540.15 13	10.5 3	2274.990	3 ⁻	E2			B(E2)(W.u.)=4.2 23
		627.54 2	100 3	2187.602	4 ⁺	E1			I_γ : from $I_\gamma/I_\gamma(540\gamma+628\gamma)=0.012$ 3 (1980Va13).
2859.81	4 ⁺	1559.89 3	100	1299.907	2 ⁺	E2			B(E2)(W.u.)<25
2905.12	3 ⁻	290.8 4	1.06 13	2614.461	4 ⁺				I_γ : from (α,2nγ), in agreement with 9.7 8 in (n,n'γ). $I_\gamma=18.9$ 16 is reported in (HI,xnγ).
		390.34 7	25.1 17	2514.760	3 ⁺	M1+E2			B(E1)(W.u.)<0.00074
		451.3 8	0.32 13	2454.072	2 ⁺				
		717.45 7	100 6	2187.602	4 ⁺	M1+E2	-0.7 +2-4		δ : δ=+2.9 11, +0.49 +8-4.
		1605.4 2	3.34 13	1299.907	2 ⁺				
2915.73	2 ⁺	1615.9 2	23.1 17	1299.907	2 ⁺	M1+E2			δ: +0.08<δ<1.7.

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\#}$	E_f	J_f^π	Mult. [†]	$\delta^\ddagger$	Comments
2915.73	2 ⁺	2915.6 2	100 5	0	0 ⁺	E2		
2943.43	2 ⁺	489.5 9	11 5	2454.072	2 ⁺			
		521.4 3	7 3	2421.67	0 ⁺			
		668.42 6	86 8	2274.990	3 ⁻			
		704.2 9	3.7 15	2238.953	2 ⁺			
		990.5 4	5.1 22	1953.266	0 ⁺			
		1643.60 14	100 4	1299.907	2 ⁺	M1+E2		δ : $\delta=-0.61$ 15, -7 +10-3.
		2943.8 4	3.2 3	0	0 ⁺			
3025.29	0 ⁺	1725.37 6	100	1299.907	2 ⁺			
3028.09	2,3 ⁺	1728.17 10	100	1299.907	2 ⁺			
3071.4		1771.5 5	100	1299.907	2 ⁺			
3087.37	7 ⁻	272.3 1	100	2815.146	5 ⁻	E2		B(E2)(W.u.)=0.0157 3
3100.1		285.0 5	100	2815.146	5 ⁻			
3107.1		292.0 5	100	2815.146	5 ⁻			
3149.79	6 ⁺	334.65 13	100 3	2815.146	5 ⁻	E1+M2	-0.02 1	B(E1)(W.u.)=0.0037 11; B(M2)(W.u.)=6.E+1 +7-6
		962.3 3	90 3	2187.602	4 ⁺	E2		B(E2)(W.u.)=9.0 25
3186.13	2 ⁺	1886.25 8	100 8	1299.907	2 ⁺			Mult.: $\delta=-0.27$ 7 or +7 +5-2.
		3185.8 2	51 6	0	0 ⁺			
3188.92	6 ⁺	423.5 2	4.1 8	2765.36	4 ⁺	E2		B(E2)(W.u.)=19 4
		574.44 6	100.0 20	2614.461	4 ⁺	E2		I_γ : from (α ,2n γ). $I_\gamma=9.1$ in (HI,xn γ). Not seen in (n,n' γ).
		1001.32 10	24.0 14	2187.602	4 ⁺	E2		B(E2)(W.u.)=101 6
3190.39	8 ⁻	102.98 7	100	3087.37	7 ⁻	M1+E2		B(E2)(W.u.)=1.50 12
3207.61	4 ⁺	441.7 6	4.0 6	2765.36	4 ⁺			B(M1)(W.u.)=0.06 4
		592.9 7	11.0 17	2614.461	4 ⁺			
		932.5 6	20 4	2274.990	3 ⁻			
		1019.9 5	42 3	2187.602	4 ⁺			
3211.76	(1,2)	1907.8 2	100 5	1299.907	2 ⁺			
		1912.0 6	28 10	1299.907	2 ⁺			
		3211.7 2	100 10	0	0 ⁺			
3226.00	3 ⁻	320.4 2	13.4 12	2905.12	3 ⁻			E_γ : see 1926.2 γ .
		771.8 5	2.5 8	2454.072	2 ⁺			E_γ : the 772 γ is not seen in (n,n' γ).
		1926.2 1	100 5	1299.907	2 ⁺			Mult.: $\delta=+0.05$ 5 for J=3 or -7.0 +27-15 for J=2.
								E_γ, I_γ : from ε decay. $E_\gamma=1925.80$ 8 and $I_\gamma(1926\gamma)/I_\gamma(320\gamma)=20$ 7 in (n,n' γ) suggest that the 1926 γ may be a multiplet in that reaction.
3242.05	5 ⁻ ,6 ⁺	1054.44 10	100	2187.602	4 ⁺	(E1)		
3244.39	6 ⁻	157.1 1	5.09 15	3087.37	7 ⁻			
		429.19 8	100.0 7	2815.146	5 ⁻	M1+E2	+0.161 +4-3	B(E2)(W.u.)<21; B(M1)(W.u.)<0.18
3297.3		1109.7 5	100	2187.602	4 ⁺			
3308.4	0 ⁺	2008.5 6	100	1299.907	2 ⁺			
3326.50	(1)	1373.2 3	76 10	1953.266	0 ⁺			
		2026.6 2	100 10	1299.907	2 ⁺			

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\#$	E_f	J_f^π	Mult. [†]	$\delta^\ddagger$	Comments
3326.50	(1)	3326.3 6	71 14	0	0 ⁺	D		
3357.42	4 ⁺	2057.5 2	100	1299.907	2 ⁺			
3363.00	6 ⁻	547.9 2	100	2815.146	5 ⁻	M1+E2	-0.08 2	B(E2)(W.u.)=2.0 17; B(M1)(W.u.)=0.12 8
3364.8	5 ⁻	549.7 5	100	2815.146	5 ⁻			
3380.1		292.7 5	100	3087.37	7 ⁻			
3392.1		203.2 5	100	3188.92	6 ⁺			
3393.0		654.6 5	100	2738.4				
3396.1	6 ⁺	246.3 5	100	3149.79	6 ⁺			
3396.9	(4 ⁻)	1121.9 5	100	2274.990	3 ⁻	(M1+E2)	-0.4 +2-7	
3422.7	0 ⁺	2122.8 9	100	1299.907	2 ⁺			
3448.37	4 ⁺	1209.41 10	100 32	2238.953	2 ⁺			
		2148.5 6	26 13	1299.907	2 ⁺			
3451.8	0 ⁺	3451.7 3	100	0	0 ⁺			
3471.4	6 ⁺	1283.8 3	100	2187.602	4 ⁺	E2		B(E2)(W.u.)=10 6
3478.85	2 ⁺	573.9 5	41 5	2905.12	3 ⁻			
		619.3 3	30 3	2859.81	4 ⁺			
		963.4 3	62 7	2514.760	3 ⁺			
		1203.3 7	57 19	2274.990	3 ⁻			
		1239.9 5	67 14	2238.953	2 ⁺			
		1526.1 6	9 3	1953.266	0 ⁺			
		2179.2 2	100 14	1299.907	2 ⁺			
		3477.7 6	9.5 14	0	0 ⁺			
3510.70	9 ⁻	320.25 9	100	3190.39	8 ⁻	M1+E2	+0.134 1	B(E2)(W.u.)=13 7; B(M1)(W.u.)=0.09 5
3514.19	3 ⁻ ,9 ⁻	2214.26 10	100	1299.907	2 ⁺	M1+E2		Mult.: $\delta=-0.02$ 5 for J=3 or -4.3 10 for J=2.
3525.36	3 ⁻	1010.5 7	12 4	2514.760	3 ⁺			
		1072.5 3	100 5	2454.072	2 ⁺			
		1250.5 5	30 5	2274.990	3 ⁻			E_γ : $E_\gamma=1249.7$ 3 with Mult.=M1+E2, $\delta=-1.9 +8-31$ is reported in ($\alpha,2n\gamma$); however, the much stronger 1072 γ is not reported. The 1249.7 γ in ($\alpha,2n\gamma$) may thus correspond to a different transition from that seen in ε decay.
		1337.2 2	14.4 7	2187.602	4 ⁺			
3561.1	2 ⁺	1404.8 3	46 14	2156.28	0 ⁺	E2		
		3561.4 7	100 14	0	0 ⁺			
3566.47	7 ⁻	203.5 1	7.5 6	3363.00	6 ⁻			
		322.1 1		3244.39	6 ⁻			
		376.2 2	100 3	3190.39	8 ⁻	M1+E2	+0.05 2	
		751.4 2	46.8 14	2815.146	5 ⁻	E2		
3610.71	5 ⁽⁻⁾	1423.1 2	100	2187.602	4 ⁺			
3658.7		1471.1	100	2187.602	4 ⁺			
3685.15	6 ⁻	870.0 2	100	2815.146	5 ⁻	M1+E2	-0.13 +4-5	
3717.83	7 ⁻	354.8 2	26.1 11	3363.00	6 ⁻	M1+E2	-0.06 +4-6	B(E2)(W.u.)=1.4 +22-4; B(M1)(W.u.)=0.06 5
		473.5		3244.39	6 ⁻			
		527.4 2	100.0 23	3190.39	8 ⁻	M1+E2	-0.05 2	B(E2)(W.u.)=0.5 5; B(M1)(W.u.)=0.08 6

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\#$	E_f	J_f^π	Mult. [†]	$\delta^\dagger$	Comments
3717.83	7 ⁻	630.5		3087.37	7 ⁻			
		902.7 2	72.7 23	2815.146	5 ⁻	E2		B(E2)(W.u.)=11 8
3720.4		1445.4 5	100	2274.990	3 ⁻			
3740.03	0 ⁺	2440.1 2	100	1299.907	2 ⁺			
3781.98	2 ⁺	921.9 4	19 5	2859.81	4 ⁺			
		1327.6 2	11.8 10	2454.072	2 ⁺			
		1507.1 2	34 3	2274.990	3 ⁻			
		1594.3 1	100 5	2187.602	4 ⁺			
		1829.7 5	5.5 10	1953.266	0 ⁺			
		2482.4 2	31 3	1299.907	2 ⁺			
		3781.0	0.3	0	0 ⁺			
3854.3		557.0 5	100	3297.3				
3855.6		244.9 5	100	3610.71	5 ⁽⁻⁾			
3871.28	8 ⁺	682.33 8	100	3188.92	6 ⁺	E2		B(E2)(W.u.)=115 10
3889.3		739.5 5	100	3149.79	6 ⁺			
3971.21	8 ⁻	404.9 2	14.6 7	3566.47	7 ⁻	M1+E2	-0.13 +6-8	
		460.3 2	14.6 7	3510.70	9 ⁻	M1+E2	-0.11 3	
		780.8 2	29.7 13	3190.39	8 ⁻	M1		
		883.9 2	100 3	3087.37	7 ⁻	M1+E2	0.45 +6-5	
3987.6		743.2 5	100	3244.39	6 ⁻			
3991.39	2 ⁺ ,3 ⁺ ,4 ⁺	634.0 4	7.8 16	3357.42	4 ⁺			
		1131.7 2	100 6	2859.81	4 ⁺			
		1377.0 7	56 3	2614.461	4 ⁺			
		1476.8 3	11.2 13	2514.760	3 ⁺			
		1715.9 2	34.4 22	2274.990	3 ⁻			
		1804.4 3	88 10	2187.602	4 ⁺			
4029.83	2 ⁺ ,3 ⁺ ,4 ⁺	1169.7 2	76 6	2859.81	4 ⁺			
		1264.7 5	43 8	2765.36	4 ⁺			
		1415.2 4	7.8 8	2614.461	4 ⁺			
		1515.0 2	57 6	2514.760	3 ⁺			
		1576.1 6	7.8 22	2454.072	2 ⁺			
		1754.6 2	29.7 19	2274.990	3 ⁻			
		1842.5 2	100 6	2187.602	4 ⁺			
		2730.5 3	43 6	1299.907	2 ⁺			
4043.15	5 ⁻	1228.0 2	100	2815.146	5 ⁻	M1+E2	+0.6 2	
4046.82	5 ⁻	1859.3 2	100	2187.602	4 ⁺			
4088.74	8 ⁺	522.3 3	10.3 12	3566.47	7 ⁻	E1		
		577.9 3	100.0 23	3510.70	9 ⁻	E1		
		939.0 2		3149.79	6 ⁺			
		1001		3087.37	7 ⁻			
4139.69	10 ⁺	629.0 1	100	3510.70	9 ⁻	E1		B(E1)(W.u.)=5.3×10 ⁻⁶ 6

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)							
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\#$	E_f	J_f^π	Mult. [†]	$\delta^\ddagger$
4141.50	8 ⁻	778.5 2	42 5	3363.00	6 ⁻	E2	
		951.1 2	100 5	3190.39	8 ⁻	M1+E2	+0.6 +7-9
		1054.2		3087.37	7 ⁻		
4152.5		1538.0		2614.461	4 ⁺		
4220.89	6 ⁻	174.1 2	100	4046.82	5 ⁻		
		610.3		3610.71	5 ⁽⁻⁾		
		976.5		3244.39	6 ⁻		
		1405.8		2815.146	5 ⁻		
4262.0		899.0 5	100	3363.00	6 ⁻		
4293.8		1049.4 5	100	3244.39	6 ⁻		
4313.00	7 ⁺	1163.2 2	100	3149.79	6 ⁺	M1+E2	+0.5 +5-2
4322.0		959.0 5		3363.00	6 ⁻		
		1077.6		3244.39	6 ⁻		
4338.3		1093.9 5	100	3244.39	6 ⁻		
4394.1		1031.1 5	100	3363.00	6 ⁻		
4403.0		1214.1 5	100	3188.92	6 ⁺		
4406.4		895.7 5	100	3510.70	9 ⁻		
4428.6		557.3 5	100	3871.28	8 ⁺		
4430.36	7 ⁻	209.5 2	35 4	4220.89	6 ⁻	E2	
		383.6 2	30 4	4046.82	5 ⁻		
		1067.3 2	57 9	3363.00	6 ⁻		
		1241.4 2	100 9	3188.92	6 ⁺		
		1615.4		2815.146	5 ⁻		
4434.5		923.8 5	100	3510.70	9 ⁻		
4449.5		1207.4 5	100	3242.05	5 ⁻ ,6 ⁺		
4481.5		610.2 5	100	3871.28	8 ⁺		
4488.5		175.5 5	100	4313.00	7 ⁺		
4492.0		1676.8 5	100	2815.146	5 ⁻		
4515.0		1270.6 5	100	3244.39	6 ⁻		
4526.9		1338.0 5	100	3188.92	6 ⁺		
4553.3	8 ⁺	1403.5 3	100	3149.79	6 ⁺	E2	
4568.3		597.1 5	100	3971.21	8 ⁻		
4583.7		1339.3 5	100	3244.39	6 ⁻		
4593.5		1404.6 5	100	3188.92	6 ⁺		
4613.0		1424.1 5	100	3188.92	6 ⁺		
4624.1	7 ⁻	1152.7 2	100	3471.4	6 ⁺	E1	
4664.88	9 ⁻	1098.4 2	100	3566.47	7 ⁻	E2	
4669.44	8 ⁻	239.1 2	40 8	4430.36	7 ⁻	M1+E2	-0.6 +4-27
		448.6		4220.89	6 ⁻		
		1158.6		3510.70	9 ⁻		
		1425.1		3244.39	6 ⁻		
		1479.0		3190.39	8 ⁻		

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\#}$	E_f	J_f^π	Mult. [†]	$\delta^\dagger$	Comments
4669.44	8 ⁻	1582.1 2	100 8	3087.37	7 ⁻	M1+E2	+0.7 +96-3	
4671.2	10 ⁻	1160.4		3510.70	9 ⁻			
		1480.8 3	100	3190.39	8 ⁻	E2		
4672.77	10 ⁺	801.48 9	100	3871.28	8 ⁺	E2		B(E2)(W.u.)=76 10
4678.7		1940.3 5	100	2738.4				
4682.1	(6 ⁺)	1023.4 2	100	3658.7		M1+E2	+0.6 3	
4683.1		1494.2 5	100	3188.92	6 ⁺			
4717.7		1207.0 5	100	3510.70	9 ⁻			
4732.2		1487.8 5	100	3244.39	6 ⁻			
4736.38	10 ⁻	1225.6 2	25.6 12	3510.70	9 ⁻	M1+E2	+3.9 +21-34	
		1546.0 2	100.0 12	3190.39	8 ⁻	E2		
4766.2		1199.7 5	100	3566.47	7 ⁻			
4766.4		1255.7 5	100	3510.70	9 ⁻			
4787.6		1424.6 5	100	3363.00	6 ⁻			
4788.3		1129.6 5	100	3658.7				
4805.8		492.8 5	100	4313.00	7 ⁺			
4858.7		1347.8		3510.70	9 ⁻			
		1387.4		3471.4	6 ⁺			
4916.41	10 ⁻	1405.7 2	100.0	3510.70	9 ⁻	M1+E2	+0.8 +46-2	
4919.30	9 ⁻	1047.9 2		3871.28	8 ⁺			
		1353.0 2	35 4	3566.47	7 ⁻			
		1408.4		3510.70	9 ⁻			
		1729.0		3190.39	8 ⁻			
		1832.0 2	100 9	3087.37	7 ⁻	E2		
4923.70	9 ⁻	254.3 2	25.0 25	4669.44	8 ⁻	M1+E2	-0.03 +8-19	
		493.5		4430.36	7 ⁻			
		952.5		3971.21	8 ⁻			
		1052.4		3871.28	8 ⁺			
		1205.8 2	87 5	3717.83	7 ⁻	E2		
		1413.0 2	100 5	3510.70	9 ⁻	M1+E2	-0.77 +11-7	
		1733.3		3190.39	8 ⁻			
		1836.4		3087.37	7 ⁻			
4924.3		1053.0 5	100	3871.28	8 ⁺			
4926.9		1738.0 5	100	3188.92	6 ⁺			
4932.3		792.6 5	100	4139.69	10 ⁺			
4963.58	11 ⁻	1452.7 3	100.0	3510.70	9 ⁻	E2		B(E2)(W.u.)=9 4
4964.1		1601.1 5	100	3363.00	6 ⁻			
5014.2		1296.4 5	100	3717.83	7 ⁻			
5039.2		1676.2 5	100	3363.00	6 ⁻			
5054.9	9 ⁻	1183.6 2	100	3871.28	8 ⁺	E1		
5065.4		512.1 5	100	4553.3	8 ⁺			
5094.82	(10 ⁻)	1584.1 2	100 4	3510.70	9 ⁻	M1+E2	+1.8 +31-11	

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ [†]	I_γ [#]	E_f	J_f^π	Mult. [†]	δ [†]	Comments
5094.82	(10 ⁻)	1730.2		3364.8	5 ⁻			
5102.9		674.3 5	100	4428.6				
5119.6		1608.9 5	100	3510.70	9 ⁻			
5124.2		1613.5 5	100	3510.70	9 ⁻			
5181.72	12 ⁺	1042.1 2	100	4139.69	10 ⁺	E2		B(E2)(W.u.)=29 13
5182.15		1671.7 5	100	3510.70	9 ⁻			
5191.4		1051.7 5	100	4139.69	10 ⁺			
5213.5	10 ⁺	1702.8 3	100	3510.70	9 ⁻	(E1)		
5214.3	(10) ⁺	1125.6 3	100 4	4088.74	8 ⁺			
		1343.1		3871.28	8 ⁺			
5221.6	(11) ⁻	1710.9 3	100.0	3510.70	9 ⁻	E2		
5221.72		1711.0 2	100	3510.70	9 ⁻			
5226.6		263.0 5	100	4963.58	11 ⁻			
5233.60	10 ⁻	309.9 3	24 3	4923.70	9 ⁻			
		314.4 3	24 3	4919.30	9 ⁻	M1+E2	-0.12 +8-16	B(E2)(W.u.)=3 +4-3; B(M1)(W.u.)=0.023 8
		564.2 3	100 5	4669.44	8 ⁻			
		1092.0 2	45 3	4141.50	8 ⁻	(E2)		B(E2)(W.u.)=0.70 20
		1262.4 2	89 12	3971.21	8 ⁻	(E2)		B(E2)(W.u.)=0.67 21
		1722.8 2	44 11	3510.70	9 ⁻	M1		B(M1)(W.u.)=0.00026 10
5254.9	(8,10) ⁺	1744.2 3	100	3510.70	9 ⁻	(E1)		
5280.4		629.9 5	100	4650.5				
		1409.1 5	100	3871.28	8 ⁺			
5299.32	11 ⁺	1159.6 2	100	4139.69	10 ⁺	M1+E2	+3.8 +12-17	B(E2)(W.u.)=31 14; B(M1)(W.u.)=0.004 3
5310.72	(8,10) ⁺	1800.0 2	100	3510.70	9 ⁻	E1		
5348.9		1207.4 5	100	4141.50	8 ⁻			
5357.22	(8,10) ⁺	1846.5 2	100	3510.70	9 ⁻	(E1)		
5372.3		1401.1 5	100	3971.21	8 ⁻			
5419.5		2023.4 5	100	3396.1	6 ⁺			
5445.3		892.0		4553.3	8 ⁺			
		1132.3		4313.00	7 ⁺			
5468.23	(12 ⁻)	246.5		5221.6	(11) ⁻			
		504.7 2	100 7	4963.58	11 ⁻			
		731.8 2	83.3 24	4736.38	10 ⁻	(E2)		
5488.12	(9,11 ⁻)	1977.4 2	100	3510.70	9 ⁻			
5500.1		1989.4 5	100	3510.70	9 ⁻			
5535.3		2024.6 5	100	3510.70	9 ⁻			
5538.7	(9,11) ⁺	867.5 3	100	4671.2	10 ⁻	E1		
5548.24	12 ⁺	875.45 10	100	4672.77	10 ⁺	E2		B(E2)(W.u.)=80 18
5554.09	11 ⁻	320.5 2	18 12	5233.60	10 ⁻	M1+E2		
		630.4 2	100	4923.70	9 ⁻	E2		B(E2)(W.u.)=57 20
		634.9 2	60 20	4919.30	9 ⁻	E2		B(E2)(W.u.)=33 16
		881.3 2	74 5	4672.77	10 ⁺	E1		B(E1)(W.u.)=0.00010 4

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^\#$	E_f	J_f^π	Mult. [†]	$\delta^\ddagger$	Comments
5586.6		659.7 5	100	4926.9				
5596.9		1168.3 5	100	4428.6				
5599.4		928.2 5	100	4671.2	10 ⁻			
5627.92	(8,10 ⁺)	2117.2 2	100	3510.70	9 ⁻	E1		
5699.87	(9,11 ⁻)	1027.1 2	100	4672.77	10 ⁺	E1		
5707.2		2196.5 5	100	3510.70	9 ⁻			
5735.17	(9,11 ⁻)	1062.4 2	100	4672.77	10 ⁺	E1		
5776.26	12 ⁺	1103.5 2	100 6	4672.77	10 ⁺	E2		
		1636.5 3	71 6	4139.69	10 ⁺	E2		
5776.7		228.5 5	100	5548.24	12 ⁺			
5801.1		574.6		5226.6				
		1129.9		4671.2	10 ⁻			
5834.93	(8,10) ⁻	2324.2 2	100	3510.70	9 ⁻			
5857.2		309.0		5548.24	12 ⁺			
		1184.3		4672.77	10 ⁺			
5886.5		1746.8 5	100	4139.69	10 ⁺			
5892.0		789.1 5	100	5102.9				
5920.96	13 ⁺	144.7 2	9 1	5776.26	12 ⁺			
		621.6 3	18 2	5299.32	11 ⁺	E2		B(E2)(W.u.)=19 19
		739.3 2	100 3	5181.72	12 ⁺	M1+E2	+1.4 1	B(E2)(W.u.)=3.E+1 3; B(M1)(W.u.)=0.010 10
5921.97	12 ⁻	367.9 2	26 4	5554.09	11 ⁻	M1+E2	-0.4 +2-6	B(E2)(W.u.)=7.E+1 7; B(M1)(W.u.)=0.075 22
		688.4 2	100 7	5233.60	10 ⁻	E2		B(E2)(W.u.)=84 18
5956.2		1283.4 5	100	4672.77	10 ⁺			
5974.21	(12) ⁺	1834.5 2	100	4139.69	10 ⁺	(E2)		
5977.1		696.7 5	100	5280.4				
6001.1		2490.4 5	100	3510.70	9 ⁻			
6045.53	14 ⁺	124.7 2	11 2	5920.96	13 ⁺	(M1+E2)		
		863.8 2	100 3	5181.72	12 ⁺	E2		B(E2)(W.u.)=2.34 11
6067.8		1104.2 5	100	4963.58	11 ⁻			
6131.7		949.5 5	100	5182.15				
6132.3		1168.7 5	100	4963.58	11 ⁻			
6135.1		952.9 2	100	5181.72	12 ⁺			
6164.5		982.3 5	100	5182.15				
6173.9		705.6		5468.23	(12 ⁻)			
		1210.3		4963.58	11 ⁻			
6174.9		875.4		5299.32	11 ⁺			
		992.9		5182.15				
6225.6		1489.2 5	100	4736.38	10 ⁻			
6266.23	14 ⁺	345.2 2	100 3	5920.96	13 ⁺	M1+E2	+0.21 +3-2	
		1084.3 3	100 6	5182.15		E2		δ : $\delta(M3/E2)=-0.16 +17-7$.
6279.01	13 ⁻	357.1 2	24 3	5921.97	12 ⁻	M1+E2	-2.5 +24-14	B(E2)(W.u.)=5.0×10 ² 19; B(M1)(W.u.)=0.013 +22-13
		725.0 2	100 6	5554.09	11 ⁻	E2		B(E2)(W.u.)=69 18

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\#}$	E_f	J_f^π	Mult. [†]	$\delta^{\ddagger}$	Comments
6279.01	13 ⁻	730.8		5548.24	12 ⁺			
		1315.6		4963.58	11 ⁻			
6341.62	14 ⁺	793.3 2	84 3	5548.24	12 ⁺	E2		B(E2)(W.u.)=74 18
		1159.4 2	100 7	5182.15				
6460.44	(13) ⁻	1496.7 2	100	4963.58	11 ⁻	E2		
6496.4		948.1 5	100	5548.24	12 ⁺			
6497.3	(14) ⁺	451.8 2	100	6045.53	14 ⁺	M1+E2	-0.3 +4-2	
6520.5		1556.9 5	100	4963.58	11 ⁻			
6551.0		1369.4 2	100	5181.72	12 ⁺			
6551.1	15 ⁺	284.9 2	10.9 16	6266.23	14 ⁺	(M1+E2)		
		505.5 3	100 4	6045.53	14 ⁺	M1+E2	+0.07 2	B(E2)(W.u.)=0.6 4; B(M1)(W.u.)=0.042 5
6552.3		1004.1 5	100	5548.24	12 ⁺			
6610.6		1071.9 5	100	5538.7	(9,11) ⁺			
6690.64	(13) ⁻	1142.4 2	100	5548.24	12 ⁺	E1		
6698.3		1150.1 5	100	5548.24	12 ⁺			
6715.9	14 ⁻	436.9 2	8.5 2	6279.01	13 ⁻	M1+E2		
		794.0 2	100	5921.97	12 ⁻	E2		B(E2)(W.u.)=9.E+1 6
6725.6		748.5 5	100	5977.1				
6925.7	16 ⁺	374.6 5	100 9	6551.1	15 ⁺			
		880.2 5	<45	6045.53	14 ⁺	E2		
7115.1	(15 ⁻)	399.1 2	6.3 2	6715.9	14 ⁻	(M1)		B(M1)(W.u.)=0.051 13
		836.1 5	100	6279.01	13 ⁻	E2		B(E2)(W.u.)=99 25
7204.68	16 ⁺	862.9 2	63 6	6341.62	14 ⁺	E2		B(E2)(W.u.)=40 7
		1159.3 2	100 6	6045.53	14 ⁺			
7205.18		744.6 2		6460.44	(13) ⁻			
		926.3 2		6279.01	13 ⁻			
7369.7		818.6 5	100	6551.1	15 ⁺			
7377.1		880.7 5	100	6496.4				
7607.9	(16 ⁻)	492.5 2	9.7 4	7115.1	(15 ⁻)	(M1)		B(M1)(W.u.)=0.068 12
		892.0 5	100	6715.9	14 ⁻	E2		
7709.6		783.9 2	100	6925.7	16 ⁺			
7869.7		944.0 2	100	6925.7	16 ⁺			
8049.3	(17 ⁻)	934.2 2	100	7115.1	(15 ⁻)	E2		B(E2)(W.u.)=1.2×10 ² 4
8131.4		1205.7 2	100	6925.7	16 ⁺			
8142.7	18 ⁺	938.0 2	100	7204.68	16 ⁺	E2		B(E2)(W.u.)=110 15
								Mult.: from ¹⁰⁰ Mo(¹⁸ O,4nγ).
8194.4		1643.3 2	100	6551.1	15 ⁺			
8357.7		980.6 2	100	7377.1				
8587.5	(18 ⁻)	538 [@]	5.1 7	8049.3	(17 ⁻)	(M1)		B(M1)(W.u.)=0.07 3
		979.6 2	100	7607.9	(16 ⁻)	E2		B(E2)(W.u.)=1.9×10 ² 7
8644.6		1718.9 2	100	6925.7	16 ⁺			

Adopted Levels, Gammas (continued)

$\gamma(^{114}\text{Sn})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\#$	E_f	J_f^π	Mult. [†]	Comments
9060.7	(19 ⁻)	1011.4	2	100	8049.3 (17 ⁻)	E2	B(E2)(W.u.)=1.4×10 ² 4
9194.9	20 ⁺	1052.2	2	100	8142.7 18 ⁺	E2	B(E2)(W.u.)=88 13
9647.5	(20 ⁻)	1059.9	2	100	8587.5 (18 ⁻)	(E2)	B(E2)(W.u.)=1.1×10 ² 6
10113.9	(21 ⁻)	1053.2	2	100	9060.7 (19 ⁻)	E2	B(E2)(W.u.)=1.1×10 ² 6
10359.0	(22 ⁺)	1164.1	2	100	9194.9 20 ⁺	E2	B(E2)(W.u.)=1.1×10 ² 3
10778.3	(22 ⁻)	1130.8	2	100	9647.5 (20 ⁻)		
11174.7	(23 ⁻)	1060.8	2	100	10113.9 (21 ⁻)	(E2)	B(E2)(W.u.)=1.3×10 ² 8
11609.0	(24 ⁺)	1250		100	10359.0 (22 ⁺)		
12311.7	(25 ⁻)	1137		100	11174.7 (23 ⁻)		
12943.0	(26 ⁺)	1334		100	11609.0 (24 ⁺)	(E2)	B(E2)(W.u.)>23
13516.7	(27 ⁻)	1205		100	12311.7 (25 ⁻)		
14406.0	(28 ⁺)	1463		100	12943.0 (26 ⁺)		
14801.7	(29 ⁻)	1285		100	13516.7 (27 ⁻)		
15997.0	(30 ⁺)	1591		100	14406.0 (28 ⁺)		
16236.7	(31 ⁻)	1435		100	14801.7 (29 ⁻)		
17870.7	(33 ⁻)	1634		100	16236.7 (31 ⁻)		

[†] From $\alpha(\text{K})\text{exp}$, $\gamma(\theta)$, and $\gamma(\text{pol})$ in $^{112}\text{Cd}(\alpha, 2n\gamma)$, except as noted.

[‡] From $^{112}\text{Cd}(\alpha, 2n\gamma)$ if available; otherwise, from $^{100}\text{Mo}(^{18}\text{O}, 4n\gamma)$.

[#] Weighted average of values from ε decay, $(\alpha, 2n\gamma)$, $(n, n'\gamma)$, and $(\text{HI}, xn\gamma)$.

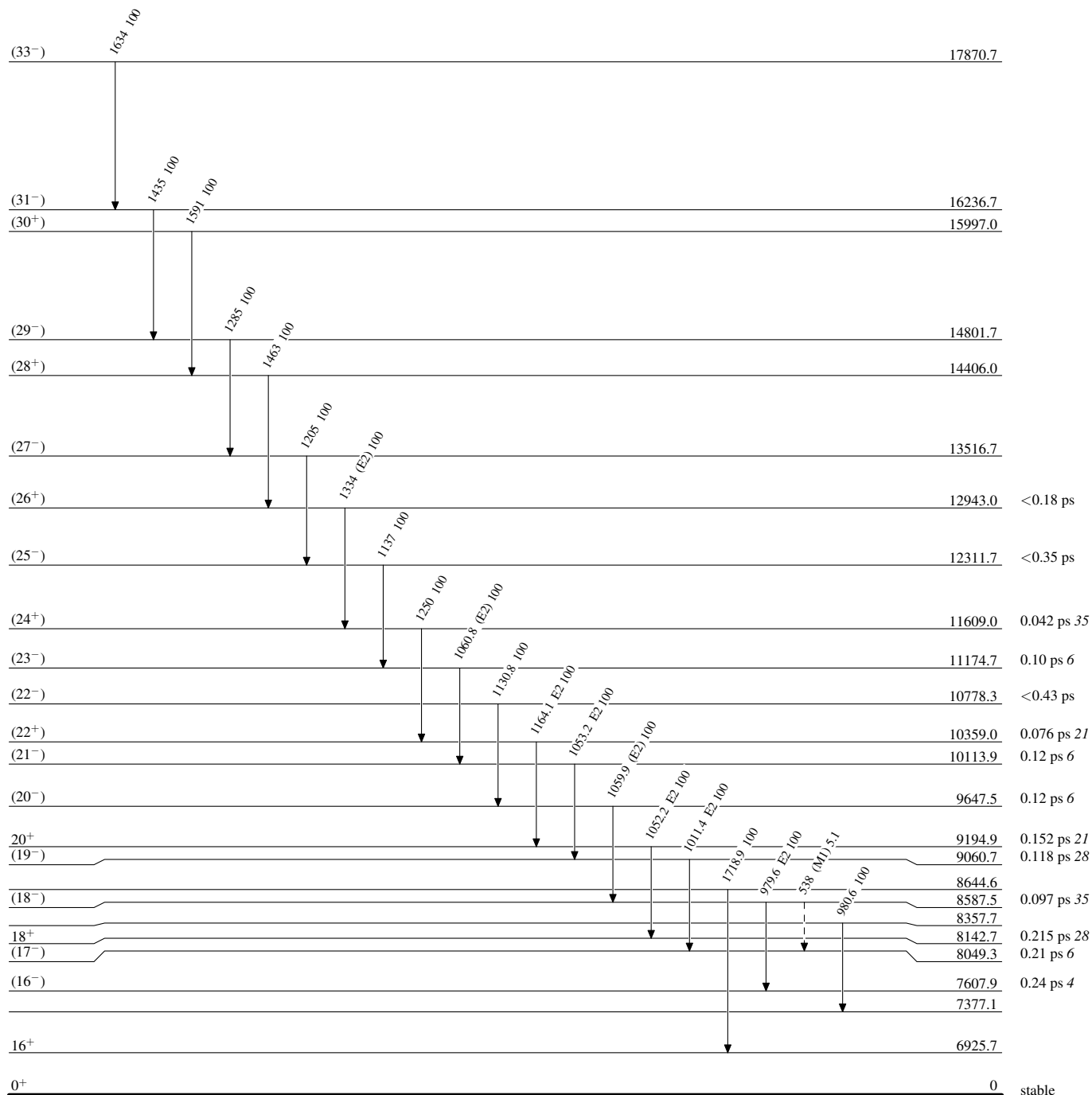
@ Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

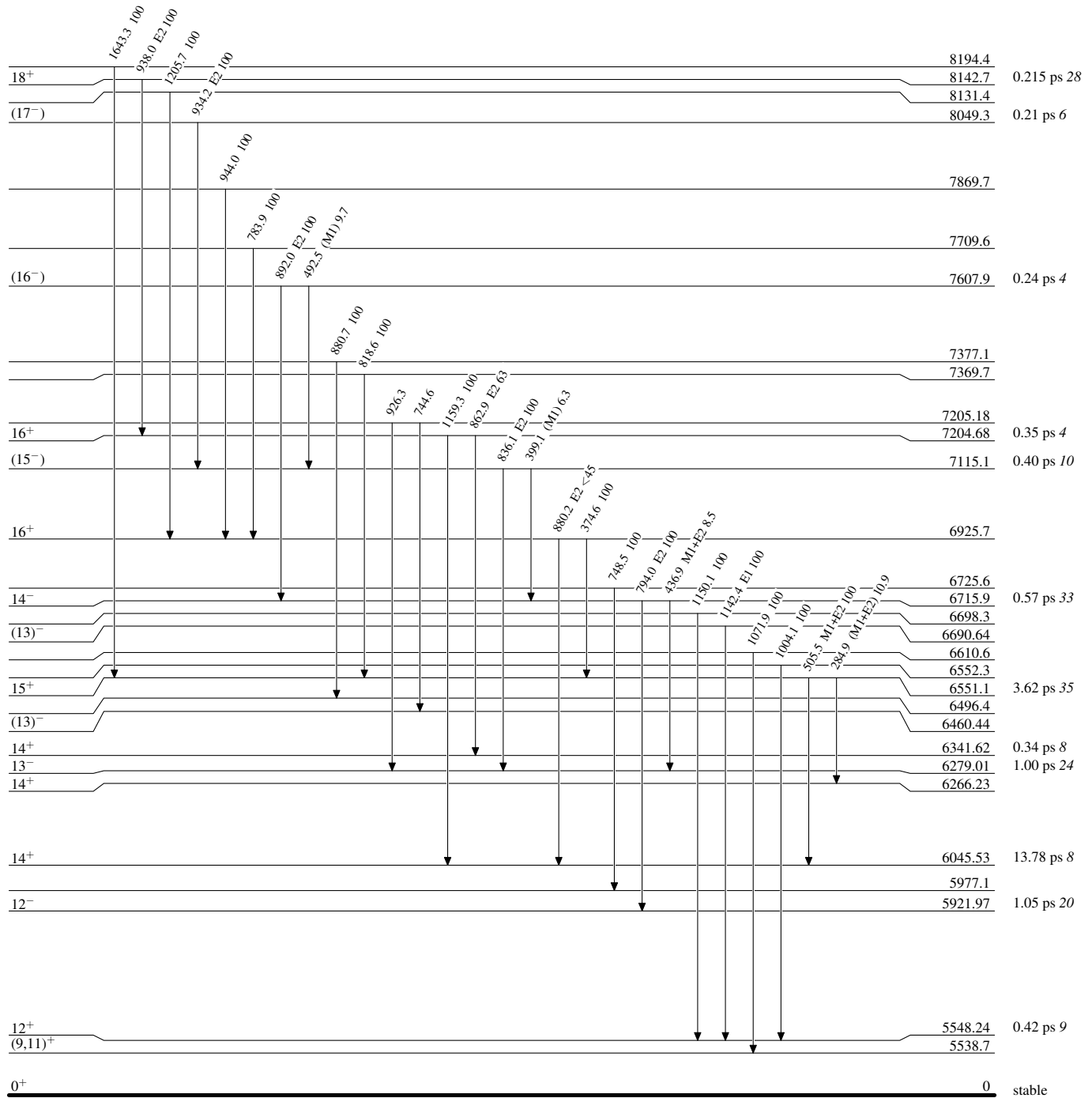
Level Scheme

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)


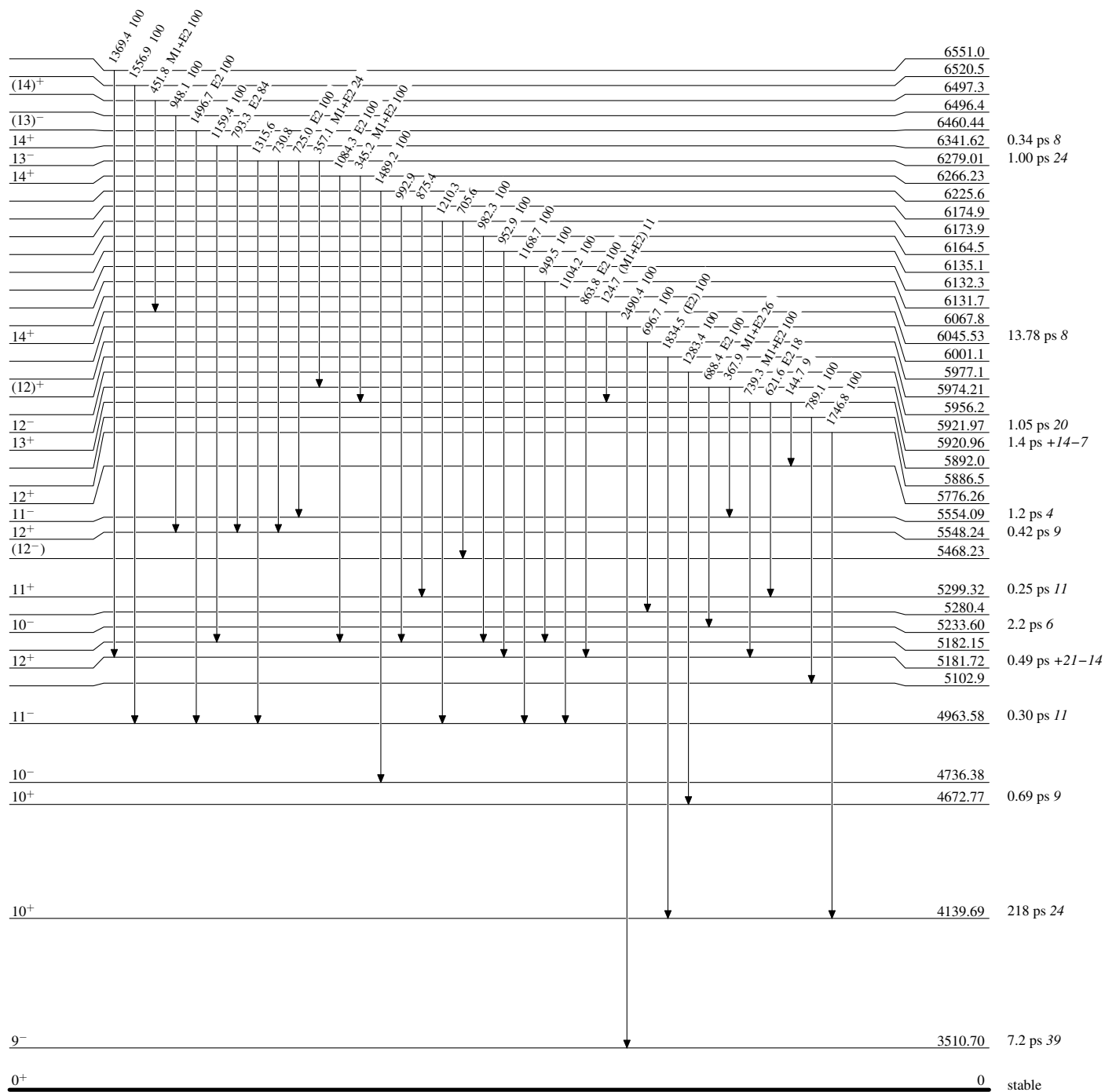
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



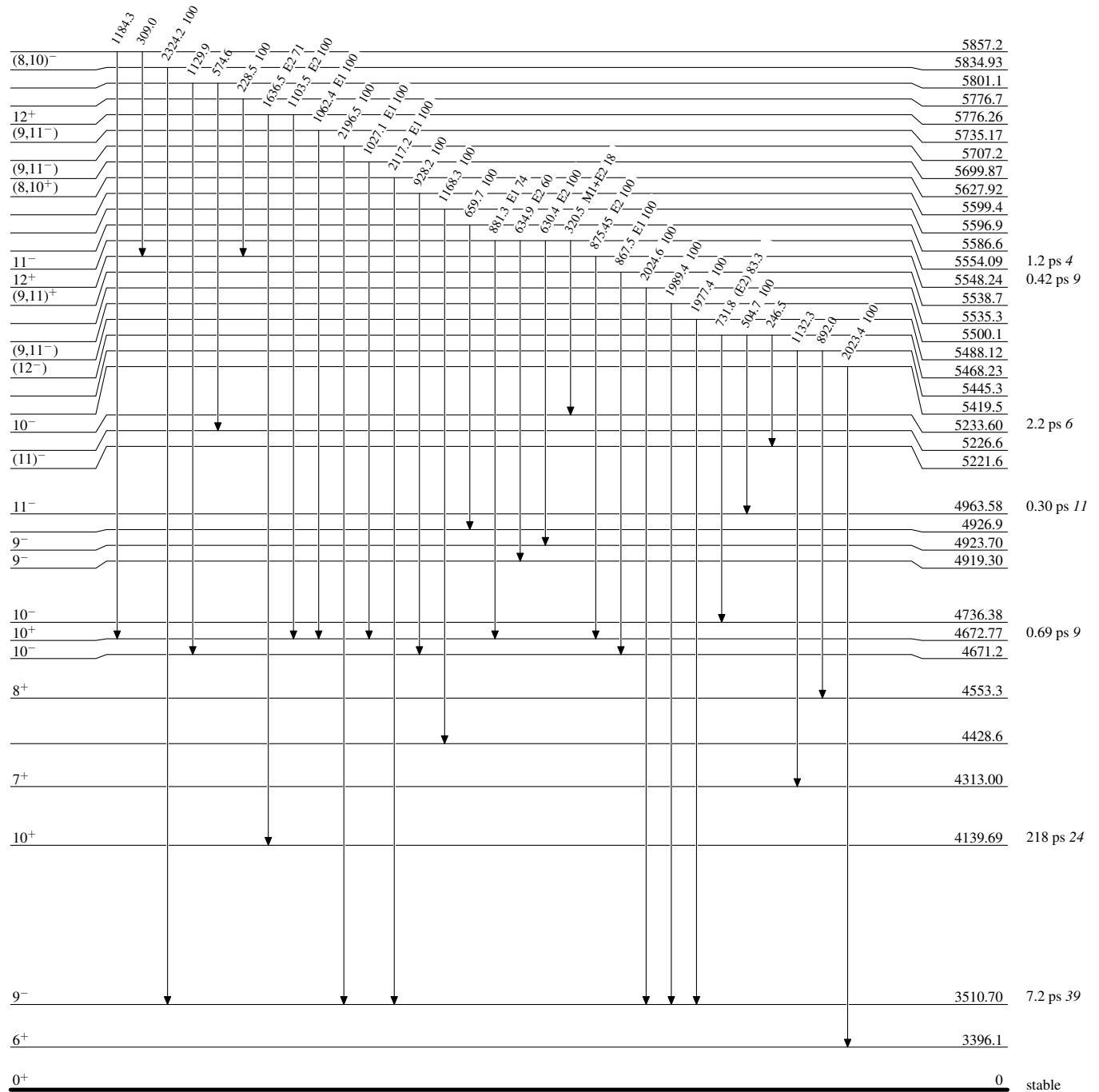
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



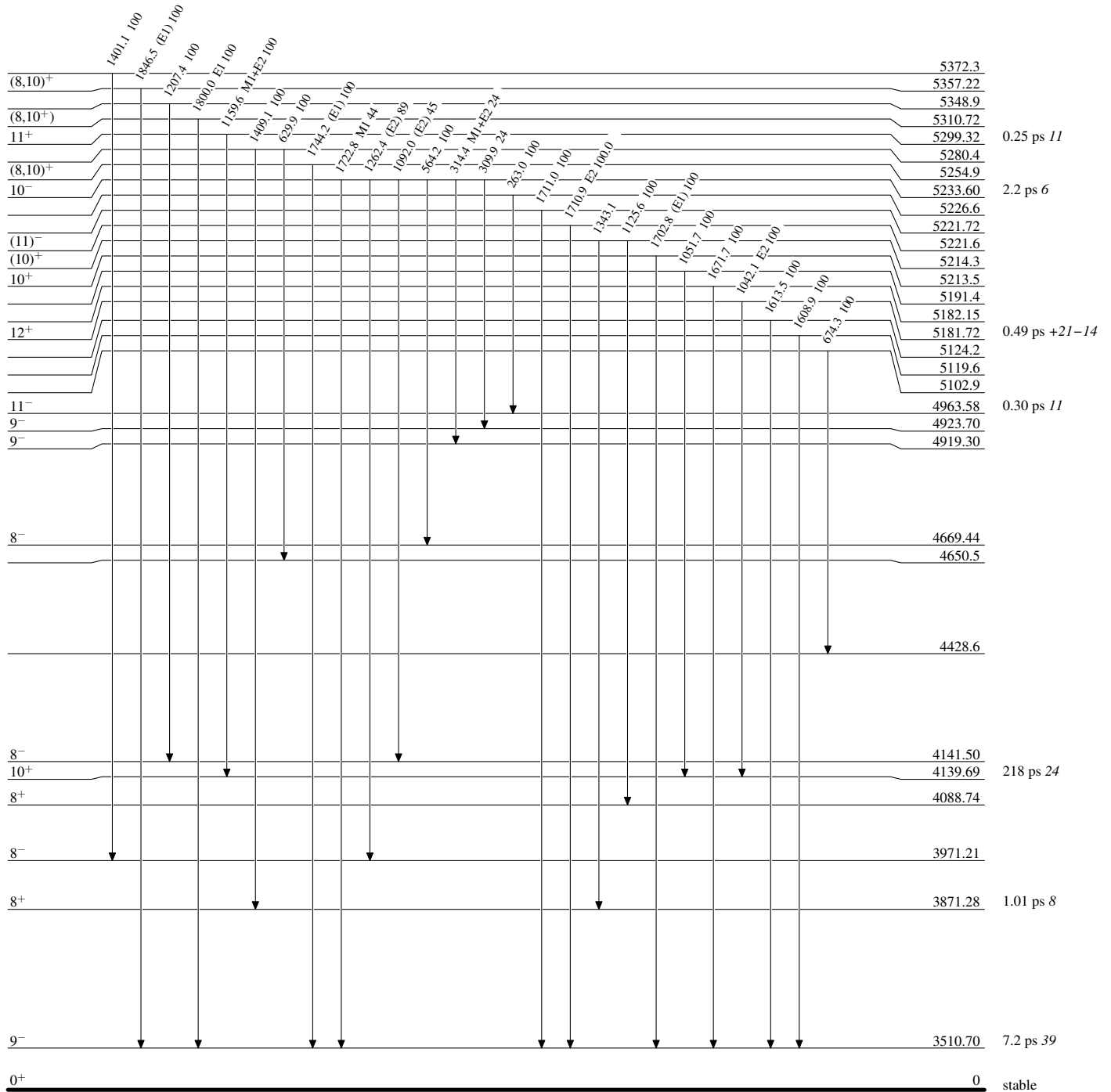
Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



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

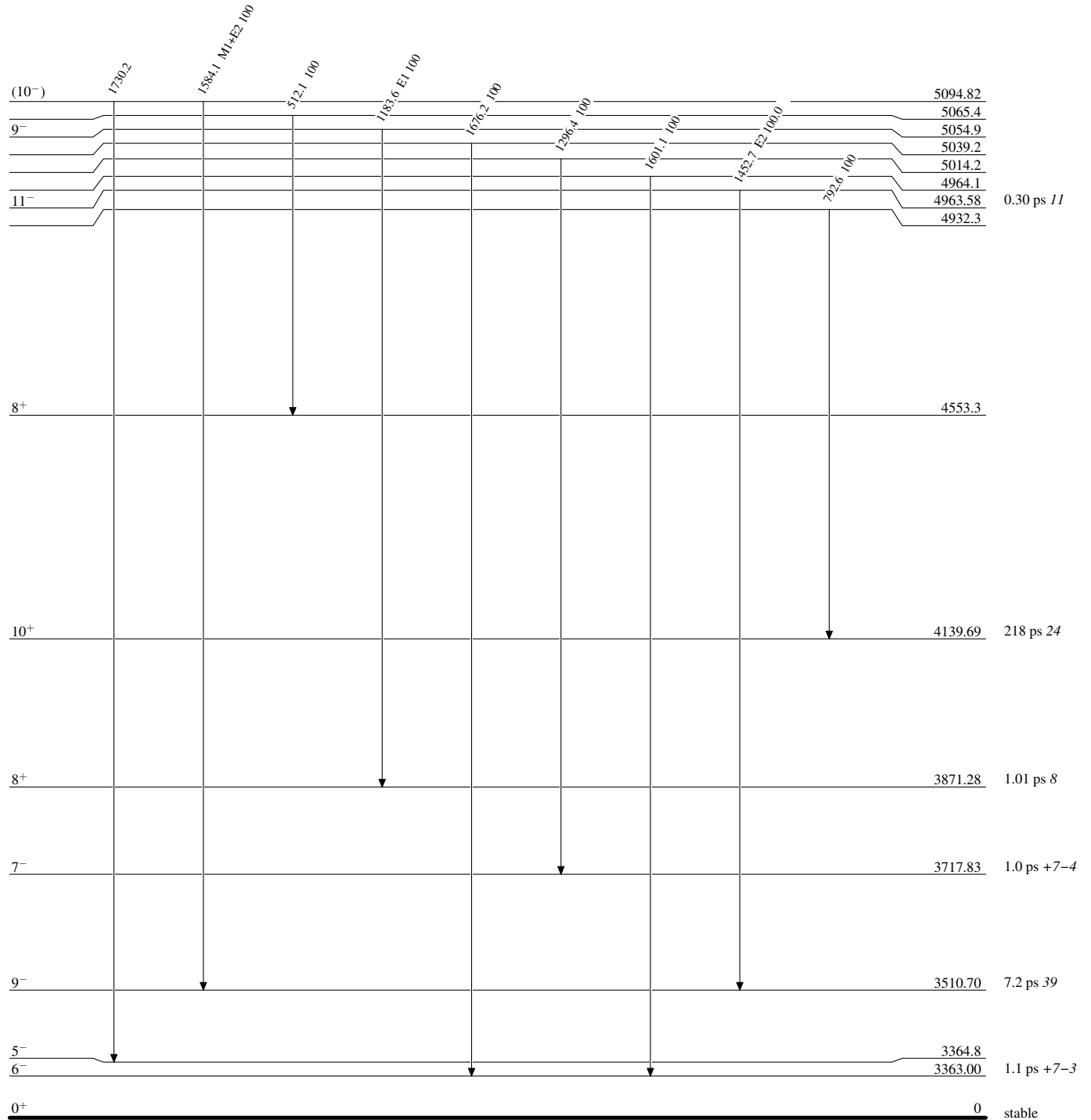
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

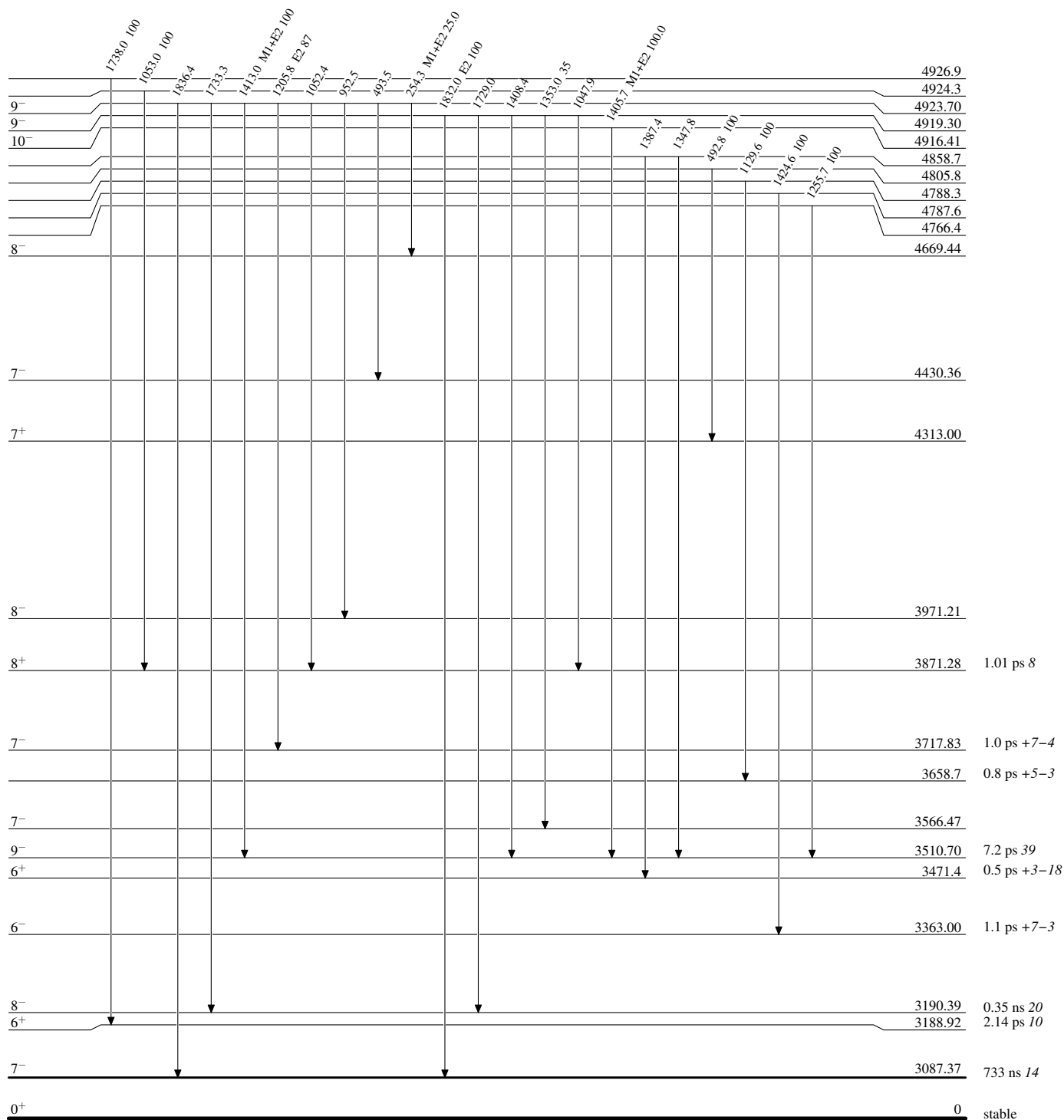
Level Scheme (continued)

Intensities: Relative photon branching from each level



Level Scheme (continued)

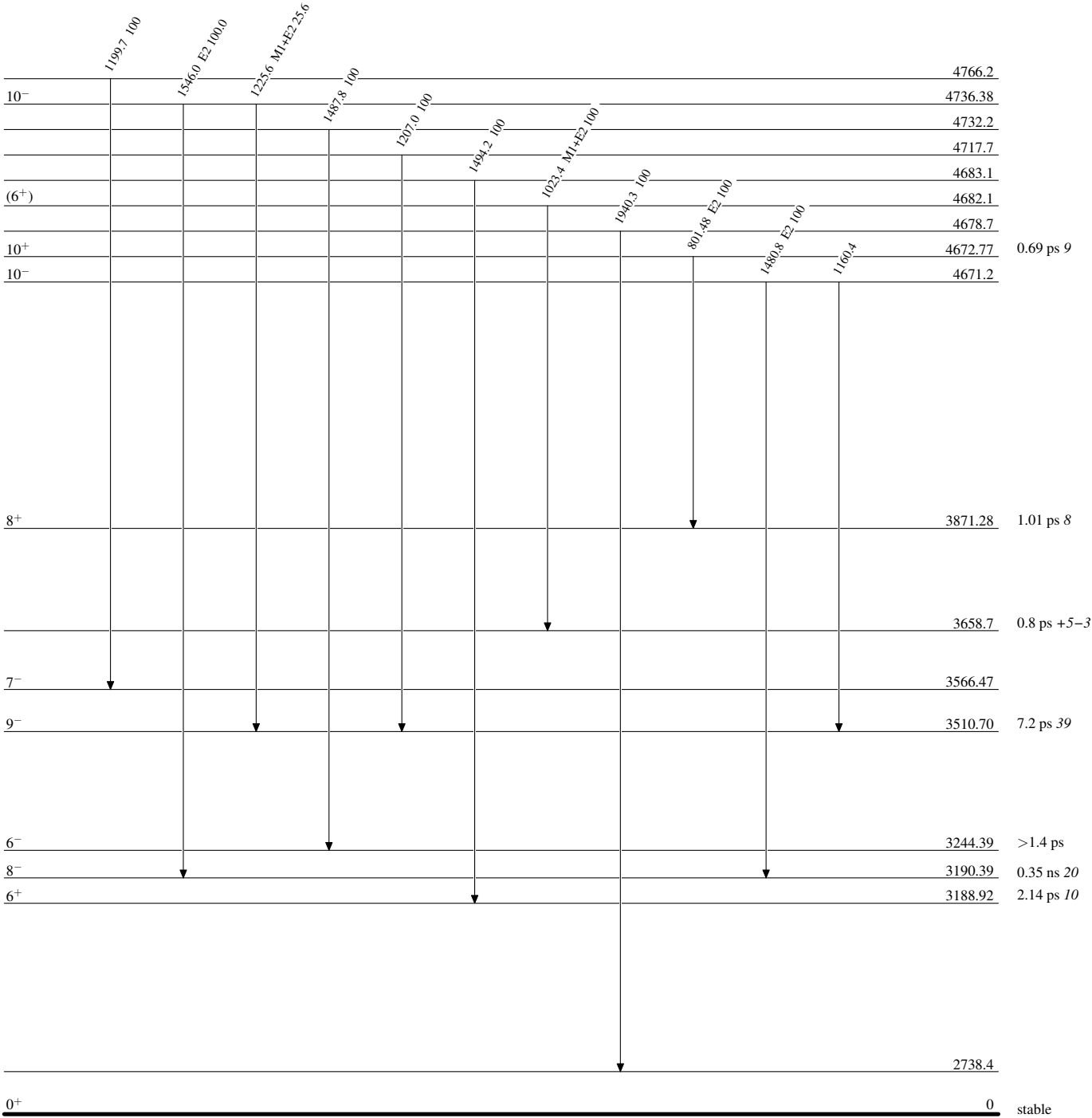
Intensities: Relative photon branching from each level

 $^{114}_{50}\text{Sn}_{64}$

Adopted Levels, Gammas

Level Scheme (continued)

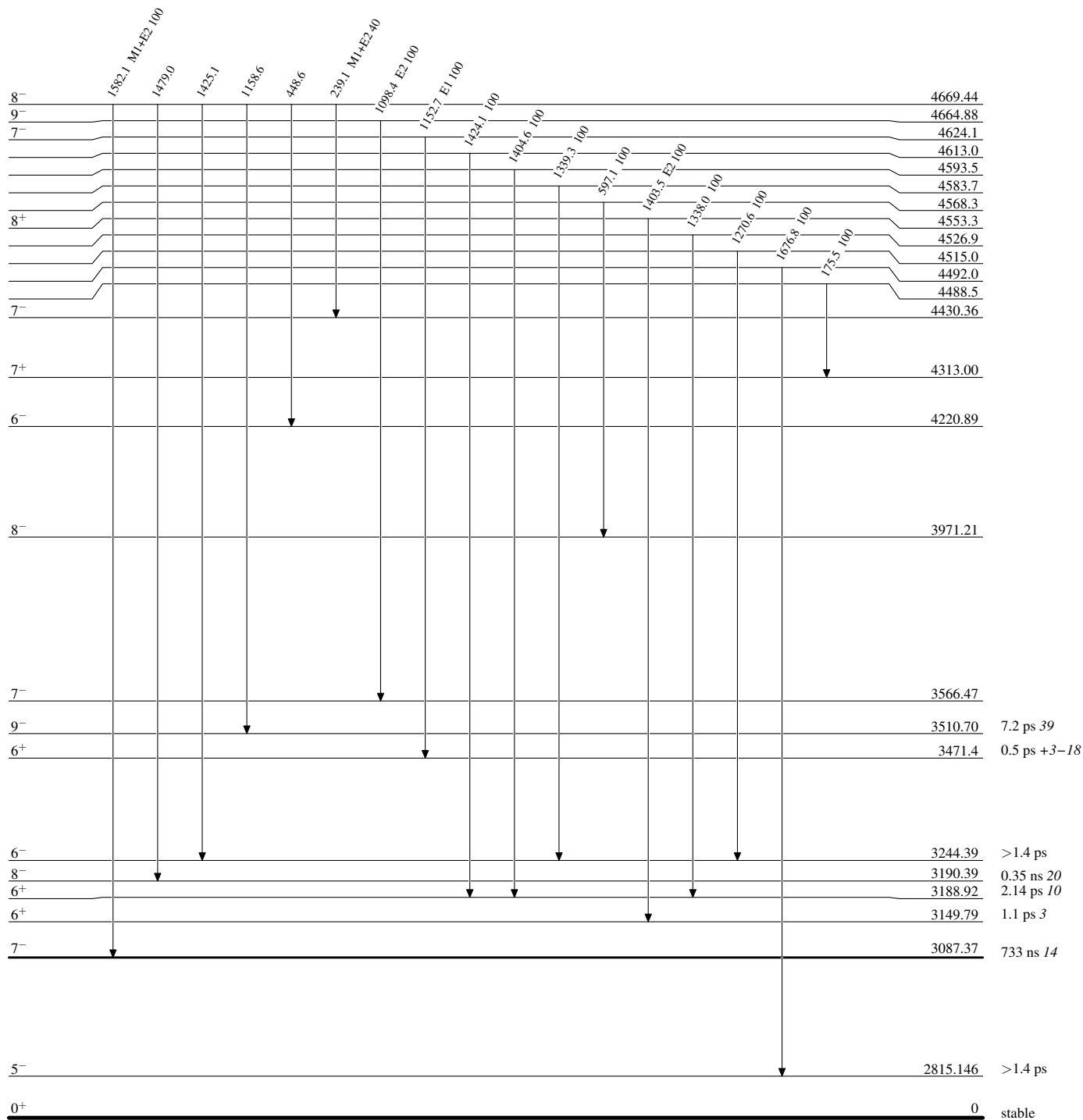
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

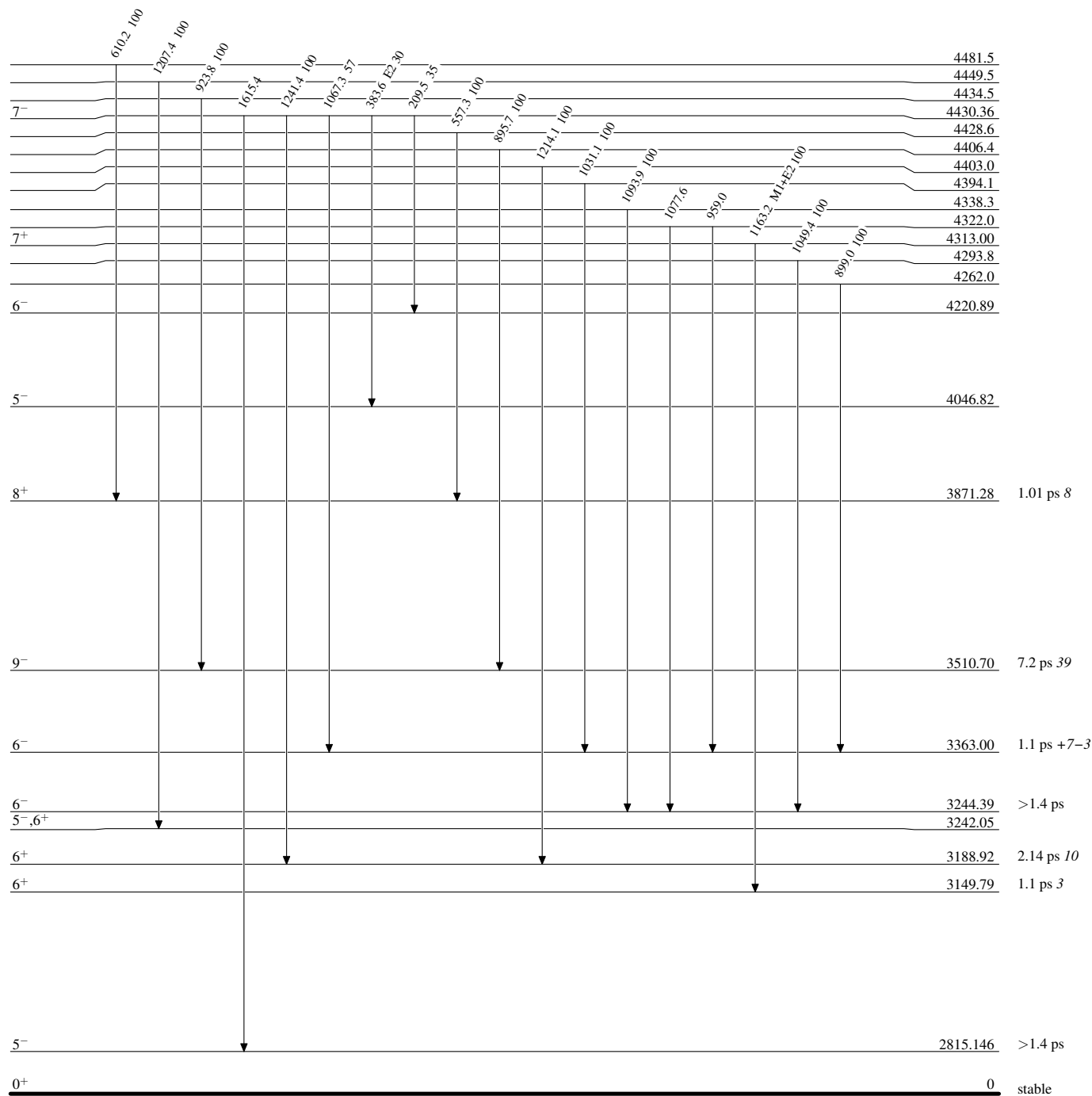
Level Scheme (continued)

Intensities: Relative photon branching from each level



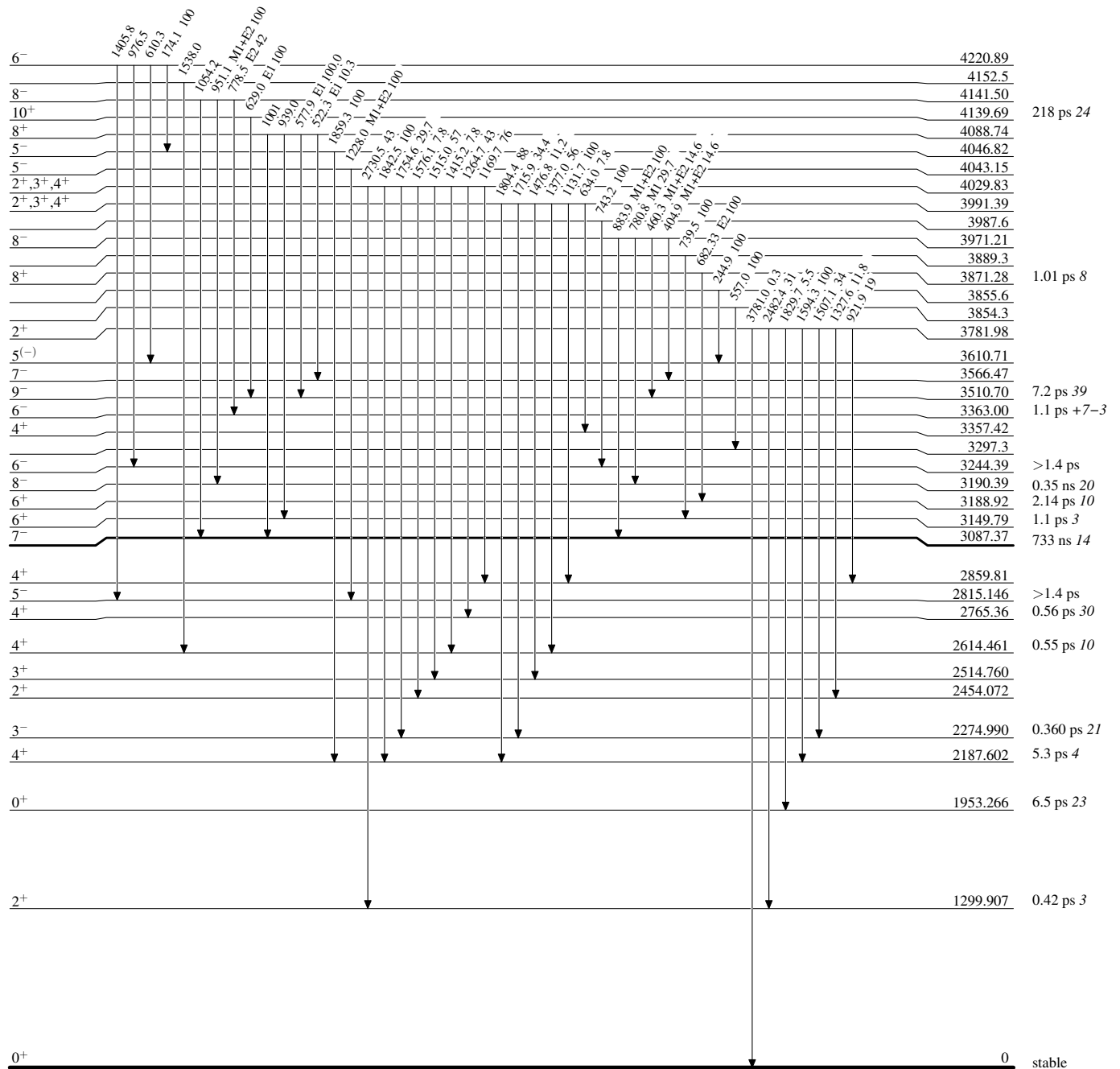
Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



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

Intensities: Relative photon branching from each level

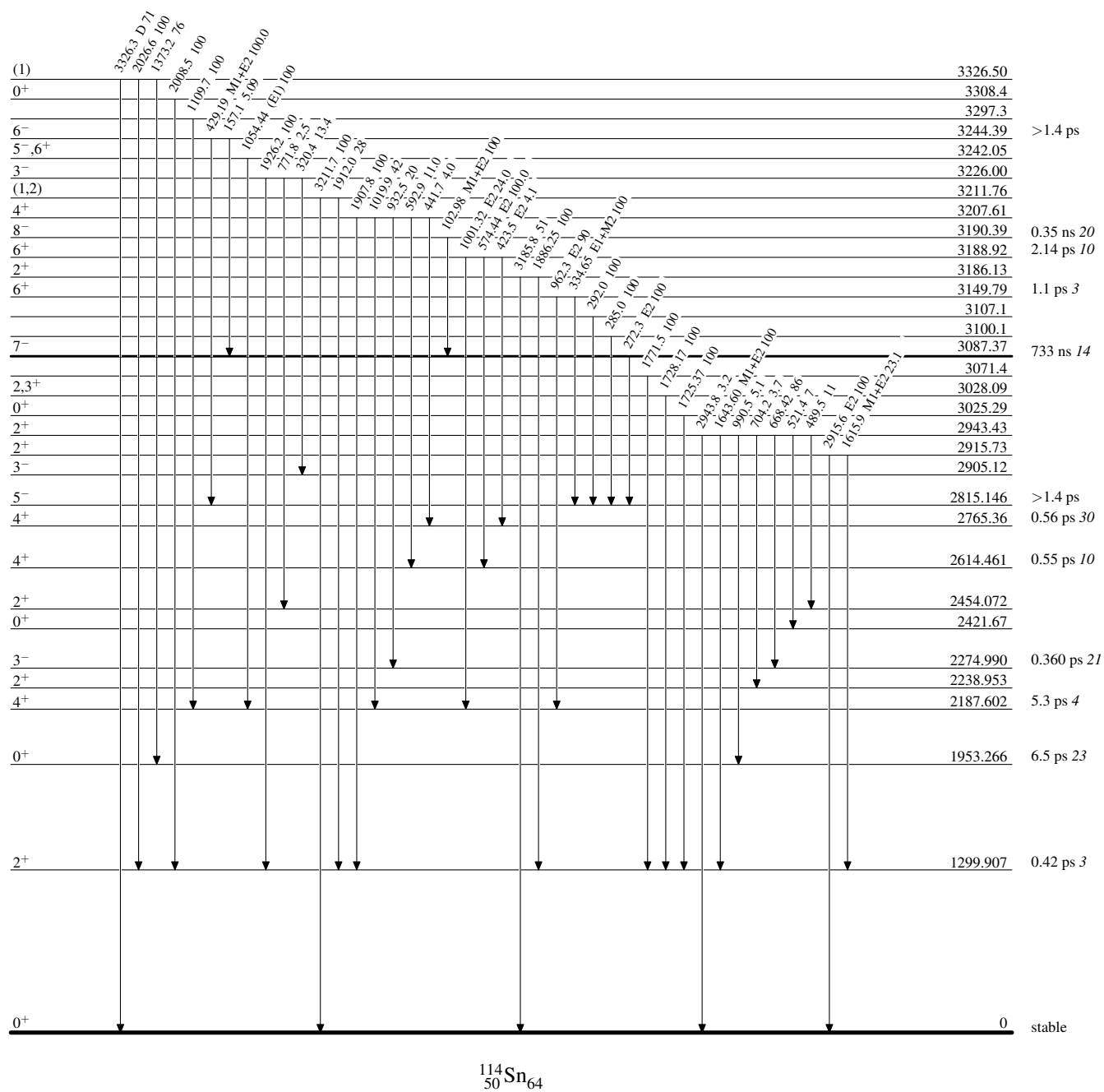


Intensities: Relative photon branching from each level



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

Intensities: Relative photon branching from each level



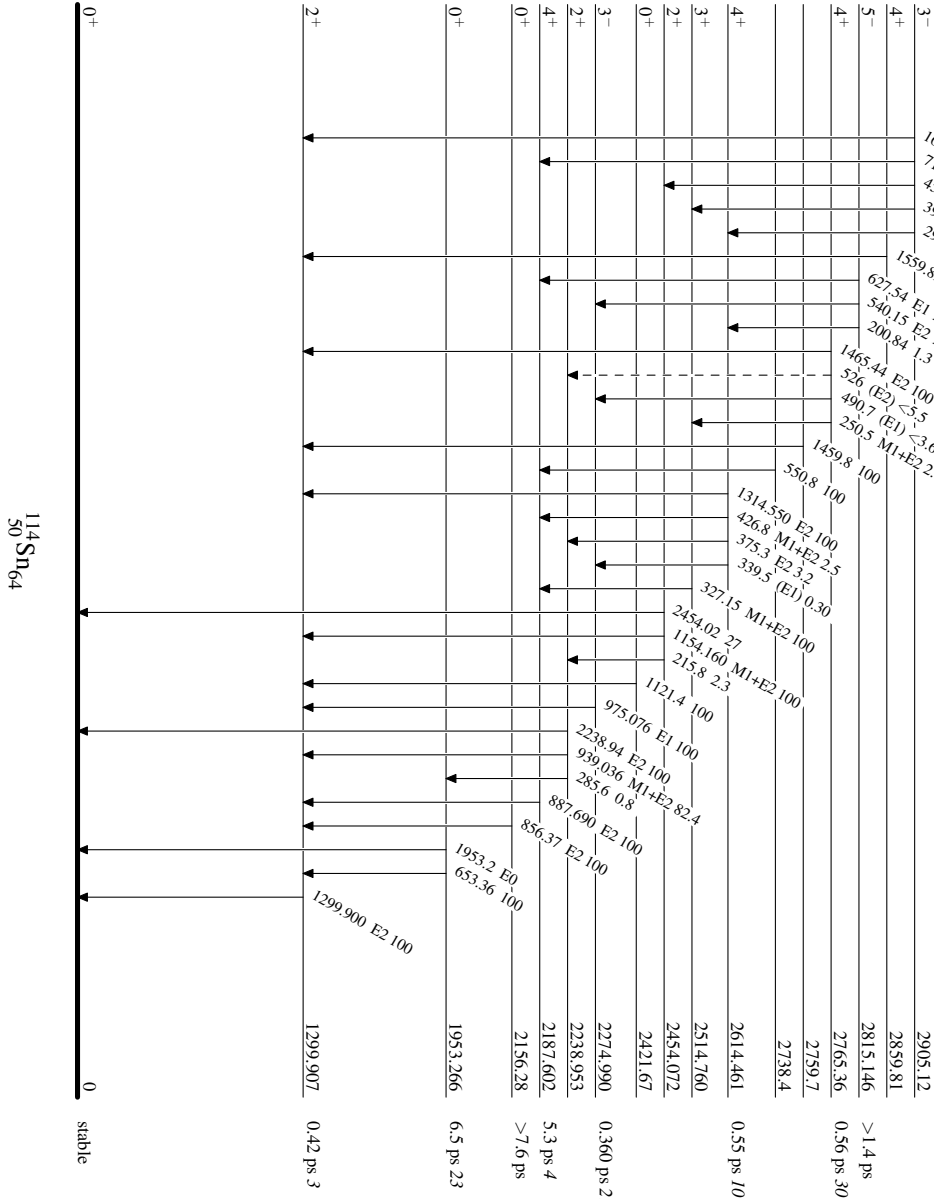
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



Adopted Levels, Gammas