

$^{48}\text{Ti}(\alpha, \text{n}\gamma)$ **1980Ka10, 1973Sa12, 1973Sz01**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Wang Jimin and Huang Xiaolong	NDS 144, 1 (2017)		1-Mar-2016

Others: [1974En04](#), [1978Ka32](#).[1980Ka10](#): E=8.08 MeV, measured $\sigma(E\gamma, \theta\gamma)$, linear polarization, DSA, $\gamma\gamma$ coin. All the cascade transitions except the 28 keV (777 to 749) transition have been confirmed in $\gamma\gamma$ coin.[1978Ka32](#): same authors as [1980Ka10](#).[1973Sa12](#): E=10.2-14.2 MeV; $\gamma\gamma$ coin, $\gamma(\theta)$.[1973Sz01](#): E=6.5, 7.5, 8.5 MeV; DSA.[1974En04](#): E=12 MeV, recoil distance.Decay scheme from [1980Ka10](#). ^{51}Cr Levels

E(level) ^b	J ^c	T _{1/2} ^c	Comments
0.0 ^b	7/2 ⁻		
749.19 ^a 16	3/2 ⁻	7.25 ns 25	
			$\mu=-0.86$ 12
			T _{1/2} : from 1974Ko10 .
			μ : From $\gamma(\theta, H, t)$ relative to 197 level in ¹⁹ F (1974Ko10). Value is an average of -0.78 13 from this reaction and -0.95 10 from (d,p).
776.9 ^a 5	(1/2) ⁻		
1164.87 ^b 21	9/2 ⁻	76 fs 7	
1352.59 ^a 21	5/2 ⁻	3.8 ps +24-14	T _{1/2} : other: 0.38 ps +17-10 (1973Sz01).
1480.43 ^b 21	11/2 ⁻	0.55 ps +24-4	
1557.14 ^a 19	7/2 ⁻	4.2 ps +17-10	T _{1/2} : other: >2.8 ps (1973Sz01).
1899.0 5	3/2 ⁻	0.29 ps +3-2	T _{1/2} : average of 0.38 ps +8-6 (1973Sz01) and 0.28 ps 3 (1980Ka10).
2003.1 4	5/2 ⁻	24 fs 10	T _{1/2} : average of 27 fs +13-12 (1973Sz01) and 21 fs 14 (1980Ka10).
2255.8 ^b 3	15/2 ⁻	45.8 ^d ps 14	T _{1/2} : other: >0.7 ps (1973Sz01).
2313.0 5	7/2 ⁻	21 fs +7-5	T _{1/2} : from 1973Sz01 . Other: <21 fs (1980Ka10).
2379.2 ^a 5	9/2 ⁻	0.42 ps +14-10	T _{1/2} : other: 0.38 fs +14-10 (1973Sz01).
2385.7 ^b 4	13/2 ⁻	56 fs +14-12	T _{1/2} : average of 66 fs +21-14 (1973Sz01) and 42 fs 21 (1980Ka10).
2704.6 ^a 4	11/2 ⁻	>416 fs	T _{1/2} : from 1980Ka10 . Other: 234 fs +24-21 (1973Sz01) is wrong because the 1148γ used by 1973Sz01 is a triplet.
2762.3 7	1/2 ⁺ ^e	0.071 ps 10	T _{1/2} : average of 0.069 ps 10 (1973Sz01) and 0.10 ps 4 (1980Ka10).
2769.5 6	9/2 ⁻	49 fs +14-12	T _{1/2} : from 1973Sz01 . Other: 69 fs +69-49 (1980Ka10).
2828.1 7	(3/2) ⁻	59 fs +12-10	T _{1/2} : average of 40 fs +21-17 (1973Sz01) and 69 fs 14 (1980Ka10).
2889.9 6	3/2 ⁻	0.35 ps +5-3	T _{1/2} : average of 0.35 ps +6-4 (1973Sz01) and 0.35 ps +9-6 (1980Ka10).
2910.3 6	(5/2) ⁻ ^e	30 ^e fs +19-10	T _{1/2} : other: 35 fs +70-35 (1980Ka10).
2948.1 6	5/2 ⁻	0.119 ps +13-10	T _{1/2} : average of 0.118 ps +14-10 (1973Sz01) and 0.125 ps +35-28 (1980Ka10).
3002.5 7	5/2 ⁻	15 ^e fs +5-4	T _{1/2} : other: <30 fs (1980Ka10).
3003.7 8	3/2 ⁺	0.34 ps 4	T _{1/2} : other: 0.33 ps +6-4 (1973Sz01).
3018.8 6	11/2 ⁻	49 fs +21-15	T _{1/2} : from 1973Sz01 . Other:<28 fs (1980Ka10).
3056.1 7	(1/2) ⁻	69 fs 35	
3108.0 6	7/2 ⁻	54 fs +12-16	T _{1/2} : average of 49 fs +21-15 (1973Sz01) and 62 fs +14-28 (1980Ka10).
3126.8 7	3/2 ⁻	83 fs +14-28	
3135.1 [#] 10	(3/2) ⁻ ^e	45 ^e fs +20-19	
3181.0 6	(17/2) ⁻ ^{&}		
3204.1 [#] 10		43 ^e fs +21-18	
3207.9 11	7/2 ⁻ , 9/2 ⁻ ^e	55 fs 14	
3262.7 8	(3/2) ⁻ ^e	31 ^e fs +15-12	T _{1/2} : other: <70 fs (1980Ka10).
3267.2 8			

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$^{48}\text{Ti}(\alpha, \text{n}\gamma)$ 1980Ka10, 1973Sa12, 1973Sz01 (continued)

^{51}Cr Levels (continued)

E(level) [†]	J [‡]	T _{1/2} ^c	Comments
3345.7 8			
3350.9 6	3/2 ⁻ , 5/2 ⁻ , 7/2 ⁻		
3447.9 9	13/2 ⁻	<70 fs	
3578.8 11	(11/2, 13/2, 15/2) [@]	<70 fs	
3771.1 8	1/2 ⁻ , 3/2 ⁻ [@]	<28 fs	
3830.7 8	(7/2, 9/2, 11/2) ⁻ [@]	30 ^e fs +8-6	T _{1/2} : other: <35 fs (1980Ka10).
3871.0 11			
3900.1 8	(5/2 ⁺) [@]	55 ^e fs +21-15	T _{1/2} : other: <35 fs (1980Ka10).
3927.2 [#] 20	(5/2 ⁺) [@]	<25 ^e fs	
3934.0 11			
3953.2 8	(5/2 ⁺) [@]	31 ^e fs +10-7	T _{1/2} : other: <35 fs (1980Ka10).
3977.4 6	3/2 ⁺ , 5/2 ⁺ [@]	<35 fs	
3985.3 6	(5/2 ⁺) [@]	22 ^e fs +5-4	T _{1/2} : other: <35 fs (1980Ka10).
4005.6 8	5/2 ⁻ , 7/2 ⁻ [@]		
4017.2 8	(3/2 ⁻ , 5/2, 7/2 ⁻) [@]	21 ^e fs +10-9	
4030			
4056			
4071.2 6	5/2 ⁺ , 7/2 ⁺ [@]	<40 ^e fs	
4107.3 8			J ^π : J ^π =(7/2 ⁺) (1980Ka10).
4111.3 7			
4120.2 11			
4136.5 8			
4161.6 8			J ^π : J ^π =(9/2 ⁺) (1980Ka10).
4182.0 11			
4189.2 10	5/2 ⁺ , 7/2 ⁺ [@]		
4239.2 10			
4254.2 10			
4354.3 13	(1/2 ⁻ , 3/2 ⁻) [@]		
4405.4 13			

[†] E(level) values are from 1973Sz01, where available, or from the level scheme of 1980Ka10 for the other levels. Values of 1973Sz01 are based on a least-squares fit to their E γ values. It would be reasonable to assign an uncertainty of 1 keV to values of 1980Ka10.

[‡] Based on $\gamma(\theta)$, γ linear polarization, and multipolarity (1978Ka32, 1980Ka10).

[#] From 1973Sz01.

[@] From Adopted Levels.

[&] From excit in 1973Sa12.

^a Band(A): Strongly deformed K^π=1/2⁻ band. Member of band: 1/2⁻ to 11/2⁻ (1980Ka10).

^b Band(B): Deformed K^π=7/2⁻ band. Member of band: 7/2⁻ to 13/2⁻ (1980Ka10).

^c From DSA measurement in 1980Ka10, except as noted.

^d From RDM (1974En04).

^e From DSA measurement (1973Sz01).

 $^{48}\text{Ti}(\alpha, \text{n}\gamma)$ **1980Ka10, 1973Sa12, 1973Sz01 (continued)**

 $\gamma(^{51}\text{Cr})$

$E_i(\text{level})$	J_i^π	E_γ^{\dagger}	I_γ^{\ddagger}	E_f	J_f^π	Mult. [#]	$\delta^{\text{@}}$	Comments
749.19	$3/2^-$	749.0 2	100	0.0	$7/2^-$	E2 ^b		$\delta: \delta(\text{M3}, \text{E2})=0.00 2$ (1973Sa12). $\gamma(\theta): A_2=+0.049 2, A_4=+0.007 2$ (1973Sa12).
776.9	$(1/2)^-$	28	100	749.19	$3/2^-$	M1		$E_\gamma:$ seen only by 1980Sa07 , value is from $E(\text{level})$ difference. Mult.: from an intensity balance, 1980Sa07 determine $\alpha(\text{exp})=1.3 4$. This is consistent with E1 or with M1+E2 with $\delta<0.12$. From RUL one expects $\delta<0.026$, and from Adopted Levels one has $\Delta\pi=\text{no}$. $\gamma(\theta): A_2=-0.503 6, A_4=-0.001 9$, $\gamma(\text{Pol})=-0.4$ to -0.1 (1973Sa12). $\delta:$ from 1973Sa12 . Other: $-0.19 +4-2$ (1980Ka10).
1164.87	$9/2^-$	1164.6 3	100	0.0	$7/2^-$	M1+E2	$-0.17 +I-2$	$\delta: \delta(\text{M3}, \text{E2})=0.00 6$ (1978Ka32). $\gamma(\theta): A_2=+0.053 9, A_4=+0.009 28$ (1973Sa12). $\delta:$ other: $-0.18 4$ (1973Sa12).
1352.59	$5/2^-$	575.5 603.5 3	10 2 60 4	776.9 749.19	$(1/2)^-$ $3/2^-$	E2 ^b M1+E2 ^b	$+0.40^b +8-4$	$\gamma(\theta): A_2=-0.307 14, A_4=+0.037 19$ (1973Sa12). $\delta: \delta(\text{M3}, \text{E2})=0.00 2$ (1973Sa12), $-0.02 2$ (1980Ka10). $\gamma(\theta): A_2=+0.341 20, A_4=-0.098 18, \gamma(\text{Pol})=+0.3$ to 1.0 (1973Sa12).
1480.43	$11/2^-$	1352.8 3 315.6 2	30 3 53 4	0.0 1164.87	$7/2^-$ $9/2^-$	M1(+E2) ^b D(+Q) ^a	$+0.06^b +6-9$ $+0.03^a 3$	$\gamma(\theta): A_2=-0.307 14, A_4=+0.037 19$ (1973Sa12). $\delta: \delta(\text{M3}, \text{E2})=0.00 2$ (1973Sa12), $\gamma(\theta): A_2=+0.281 21, A_4=-0.067 22$ (1973Sa12).
1557.14	$7/2^-$	204 807.9 2	5 2 81 4	1352.59 749.19	$5/2^-$ $3/2^-$	[M1] ^b E2		$\delta: \delta(\text{M3}, \text{E2})=0.00 3$ (1978Ka32), $\delta(\text{M3}, \text{E2})=0.00 5$ (1973Sa12). $\gamma(\theta): A_2=+0.281 21, A_4=-0.067 22$ (1973Sa12).
1899.0	$3/2^-$	1558.0 ^a 8 1149 1899	14 2 22 2 78 2	0.0 749.19 0.0	$7/2^-$ $3/2^-$ $7/2^-$	M1+E2 ^b E2	$-0.38^b 11$	Mult.: From $\gamma(\theta)$, $\gamma(\text{pol})$ in 1980Ka10 and RUL.
2003.1	$5/2^-$	2003	100	0.0	$7/2^-$	M1+E2	$-0.09 6$	Mult.: From $\gamma(\theta)$ & $\gamma(\text{pol})$ in 1980Ka10 and RUL.
2255.8	$15/2^-$	775.4 2	100	1480.43	$11/2^-$	E2 ^a		Polarization: $-0.05 5$ (1980Ka10). $B(\text{E2})\downarrow=3.94 12$ (1974En04) $\delta: \delta(\text{M3}, \text{E2})=0.00 2$ (1973Sa12). $\gamma(\theta): A_2=+0.37 2, A_4=-0.12 2$ (1974En04).
2313.0	$7/2^-$	1147.9 ^d 4 2314	85 ^d 3 15 3	1164.87 0.0	$9/2^-$ $7/2^-$	[M1]		
2379.2	$9/2^-$	822 899 1027	13 2 18 3 26 3	1557.14 1480.43 1352.59	$7/2^-$ $11/2^-$ $5/2^-$	[M1] M1(+E2) ^b E2 ^b	$+0.02^b +14-13$	$E_\gamma:$ Only observed in 1978Ka32 . $\delta: \delta(\text{M3}, \text{E2})=+0.02 +I3-I2$ (1978Ka32).
2385.7	$13/2^-$	1214 2379 ^d	15 2 28 ^d 3	1164.87 0.0	$9/2^-$ $7/2^-$	M1+E2 ^b M1+E2 ^b	$-0.07^a 2$	$\delta:$ other: $-0.10 5$ (1980Ka10). $\gamma(\theta): A_2=-0.383 6, A_4=-0.005 11$ (1973Sa12).

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 $^{48}\text{Ti}(\alpha, \text{n}\gamma)$ **1980Ka10,1973Sa12,1973Sz01 (continued)**

 $\gamma(^{51}\text{Cr})$ (continued)

E_i (level)	J^π_i	E_γ^\dagger	I_γ^\ddagger	E_f	J^π_f	Mult. [#]	$\delta^@$	Comments
2704.6	11/2 ⁻	1147.9 ^d 4	74 ^d 4	1557.14	7/2 ⁻	E2 ^b	+0.3 ^b +8–5	
		1224.9	14 1	1480.43	11/2 ⁻	M1(+E2) ^b	-0.09 ^b +39–24	
		1540.5 ^c 8	9 1	1164.87	9/2 ⁻	M1(+E2) ^b		
		2705.0 ^c	3 1	0.0	7/2 ⁻			
2762.3	1/2 ⁺	2013	100	749.19	3/2 ⁻	[E1]		Mult.: From level scheme.
2769.5	9/2 ⁻	1289	22 2	1480.43	11/2 ⁻	M1+E2	+0.07 +16–14	Mult.: From $\gamma(\theta)$ & $\gamma(\text{pol})$ in 1980Ka10 and RUL.
		1605	27 2	1164.87	9/2 ⁻	[M1]		Polarization: -0.20 20 (1980Ka10).
		2769	51 3	0.0	7/2 ⁻			
2828.1	(3/2) ⁻	825	38 5	2003.1	5/2 ⁻			
		929	8 5	1899.0	3/2 ⁻			
2889.9	3/2 ⁻	2079	54 8	749.19	3/2 ⁻	D(+Q)	+0.09 +30–25	Mult.: From $\gamma(\theta)$ in 1980Ka10.
		888	17 4	2003.1	5/2 ⁻			
		990	36 4	1899.0	3/2 ⁻			
		1538.0 ^c 8	31 5	1352.59	5/2 ⁻			
2910.3	(5/2) ⁻	2112	16 3	776.9	(1/2) ⁻			
		1353	58 7	1557.14	7/2 ⁻			
		1557	6 4	1352.59	5/2 ⁻			
		2161	11 2	749.19	3/2 ⁻			
2948.1	5/2 ⁻	2911	25 3	0.0	7/2 ⁻			
		1049	31 2	1899.0	3/2 ⁻	D(+Q)	-0.22 +22–26	Mult.: From $\gamma(\theta)$ in 1980Ka10.
		1391	36 2	1557.14	7/2 ⁻			
3002.5	5/2 ⁻	2948	33 2	0.0	7/2 ⁻	M1(+E2)	-0.07 +7–10	Mult.: From $\gamma(\theta)$ & $\gamma(\text{pol})$ in 1980Ka10 and RUL.
		3003	100	0.0	7/2 ⁻			Polarization: -0.009 13 (1980Ka10).
3003.7	3/2 ⁺	1000	55 3	2003.1	5/2 ⁻	M1(+E2)	+0.12 +23–19	Mult.: From $\gamma(\theta)$ & $\gamma(\text{pol})$ in 1980Ka10 and RUL.
		2255	45 3	749.19	3/2 ⁻	M1(+E2)		Polarization: -0.00 5 (1980Ka10).
								Mult.: From $\gamma(\theta)$ & $\gamma(\text{pol})$ in 1980Ka10 and RUL. -0.04 < δ < +3.7 (1980Ka10).
3018.8	11/2 ⁻	633	18 3	2385.7	13/2 ⁻	[M1]		
		1538	6 3	1480.43	11/2 ⁻	[M1]		
		1853	19 3	1164.87	9/2 ⁻	[M1]		
		3020	57 8	0.0	7/2 ⁻	[E2]		
3056.1	(1/2) ⁻	1157	22 6	1899.0	3/2 ⁻	[M1]		
		2280	54 15	776.9	(1/2) ⁻			
3108.0	7/2 ⁻	2306	24 6	749.19	3/2 ⁻			
		1105	51 10	2003.1	5/2 ⁻	D(+Q)	-0.18 +27–21	Mult.: From $\gamma(\theta)$ in 1980Ka10.
		1943	29 6	1164.87	9/2 ⁻			
3126.8	3/2 ⁻	3108	20 5	0.0	7/2 ⁻			
		1123	19 4	2003.1	5/2 ⁻			
		2350	26 4	776.9	(1/2) ⁻			
3135.1	(3/2) ⁻	2379 ^d	55 ^d 5	749.19	3/2 ⁻			
3181.0	(17/2) ⁻	3135 ^{&}	100	0.0	7/2 ⁻			
3204.1		925.2 5	100	2255.8	15/2 ⁻			
3207.9	7/2 ⁻ ,9/2 ⁻	3204 ^{&}	100	0.0	7/2 ⁻	D+Q	-0.42 +15–28	Mult.: From $\gamma(\theta)$ in 1980Ka10.
3262.7	(3/2) ⁻	2043	100	1164.87	9/2 ⁻			
		2514	58 4	749.19	3/2 ⁻			
		3262	42 4	0.0	7/2 ⁻			
3267.2		1787	86 6	1480.43	11/2 ⁻			

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 $^{48}\text{Ti}(\alpha, \text{n}\gamma)$ **1980Ka10,1973Sa12,1973Sz01 (continued)**

 $\gamma(^{51}\text{Cr})$ (continued)

E _i (level)	J _i ^π	E _γ [†]	I _γ [‡]	E _f	J _f ^π	Mult. [#]	δ [@]	Comments
3267.2		2102	14 6	1164.87	9/2 ⁻			
3345.7		1343	31 6	2003.1	5/2 ⁻			
		1788	69 6	1557.14	7/2 ⁻			
3350.9	3/2 ⁻ ,5/2 ⁻ ,7/2 ⁻	1451	33 6	1899.0	3/2 ⁻			
		1792	35 6	1557.14	7/2 ⁻			
		2001	32 6	1352.59	5/2 ⁻			
3447.9	13/2 ⁻	1192.0 ^d 8	100 ^d	2255.8	15/2 ⁻	M1(+E2) ^a	+0.03 ^a 3	E _γ : 1193γ is seen by 1980Ka10 in coincidence with both the 775 and 905γ's, and the coincidence intensities cannot be accounted for by introducing a 2385-2255 transition since such a transition would have B(M1)(W.u.) and/or B(E2)(W.u.) greatly exceeding RUL.
								γ(θ): A ₂ =-0.174 21, A ₄ =-0.073 27 (1973Sa12).
3578.8	(11/2,13/2,15/2)	1192.0 ^d 8	100 ^d	2385.7	13/2 ⁻			E _γ : see also note of 1129.0γ in 3448 level.
3771.1	1/2 ⁻ ,3/2 ⁻	2995	31 6	776.9	(1/2) ⁻			
		3021	69 6	749.19	3/2 ⁻			
3830.7	(7/2,9/2,11/2) ⁻	2274	66 7	1557.14	7/2 ⁻			
		3830	34 7	0.0	7/2 ⁻			
3871.0		2706	100	1164.87	9/2 ⁻			
3900.1	(5/2 ⁺)	2001	7 6	1899.0	3/2 ⁻			
		3900	93 6	0.0	7/2 ⁻			
3927.2	(5/2 ⁺)	3927 ^{&} 2	100	0.0	7/2 ⁻			
3934.0		2769	100	1164.87	9/2 ⁻			
3953.2	(5/2 ⁺)	3202	35 5	749.19	3/2 ⁻			
		3955	65 5	0.0	7/2 ⁻			
3977.4	3/2 ⁺ ,5/2 ⁺	2419	18 9	1557.14	7/2 ⁻			
		2624	52 10	1352.59	5/2 ⁻			
		3230	30 6	749.19	3/2 ⁻			
3985.3	(5/2 ⁺)	983	31 8	3002.5	5/2 ⁻			
		1982	16 6	2003.1	5/2 ⁻			
		2428	9 4	1557.14	7/2 ⁻			
		3985	44 8	0.0	7/2 ⁻			
4005.6	5/2 ⁻ ,7/2 ⁻	2001		2003.1	5/2 ⁻			
		2108		1899.0	3/2 ⁻			
4017.2	(3/2 ⁻ ,5/2,7/2 ⁻)	3267		749.19	3/2 ⁻			
		4018 ^{&}		0.0	7/2 ⁻			
4030		3281	100	749.19	3/2 ⁻			
4056		2156	32 12	1899.0	3/2 ⁻			
		2703	68 12	1352.59	5/2 ⁻			
4071.2	5/2 ⁺ ,7/2 ⁺	2513		1557.14	7/2 ⁻			
		3321		749.19	3/2 ⁻			
		4073		0.0	7/2 ⁻			
4107.3		1105	41 12	3002.5	5/2 ⁻			
		2942	59 12	1164.87	9/2 ⁻			
4111.3		1350		2762.3	1/2 ⁺			
		2109		2003.1	5/2 ⁻			
		3360		749.19	3/2 ⁻			
4120.2		2117	100	2003.1	5/2 ⁻			

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$^{48}\text{Ti}(\alpha, \text{n}\gamma)$ **1980Ka10, 1973Sa12, 1973Sz01 (continued)**

$\gamma(^{51}\text{Cr})$ (continued)

E_i (level)	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π	E_i (level)	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π
4136.5	1373	15	13	2762.3	1/2 ⁺	4189.2	5/2 ⁺ , 7/2 ⁺	4189	100	0.0	7/2 ⁻
	2785	85	13	1352.59	5/2 ⁻		4239.2		4239	100	7/2 ⁻
4161.6	2603	38	10	1557.14	7/2 ⁻	4254.2	4254	1592	100	2762.3	7/2 ⁻
	2998	62	10	1164.87	9/2 ⁻		4354.3	(1/2 ⁻ , 3/2 ⁻)	1643	100	2762.3
4182.0	3017	100		1164.87	9/2 ⁻	4405.4					1/2 ⁺

[†] Values with uncertainties are from 1973Sa12. Other values are deduced from the $E(\text{level})$ differences. Values given to the nearest keV without uncertainties are given by 1980Ka10.

[‡] % photon branching from each level (1978Ka32, 1980Ka10).

[#] From $\gamma(\theta)$, $\gamma(\text{pol})$ and yield functions in 1973Sa12, except as noted.

[@] From $\gamma(\theta)$ and $\gamma(\text{pol})$ analyses (1980Ka10).

[&] From 1973Sz01.

^a From 1973Sa12.

^b From $\gamma(\theta)$, $\gamma(\text{pol})$ and comparison to RUL in 1978Ka32.

^c From 1980Ka10. Value given in text.

^d Multiply placed with intensity suitably divided.

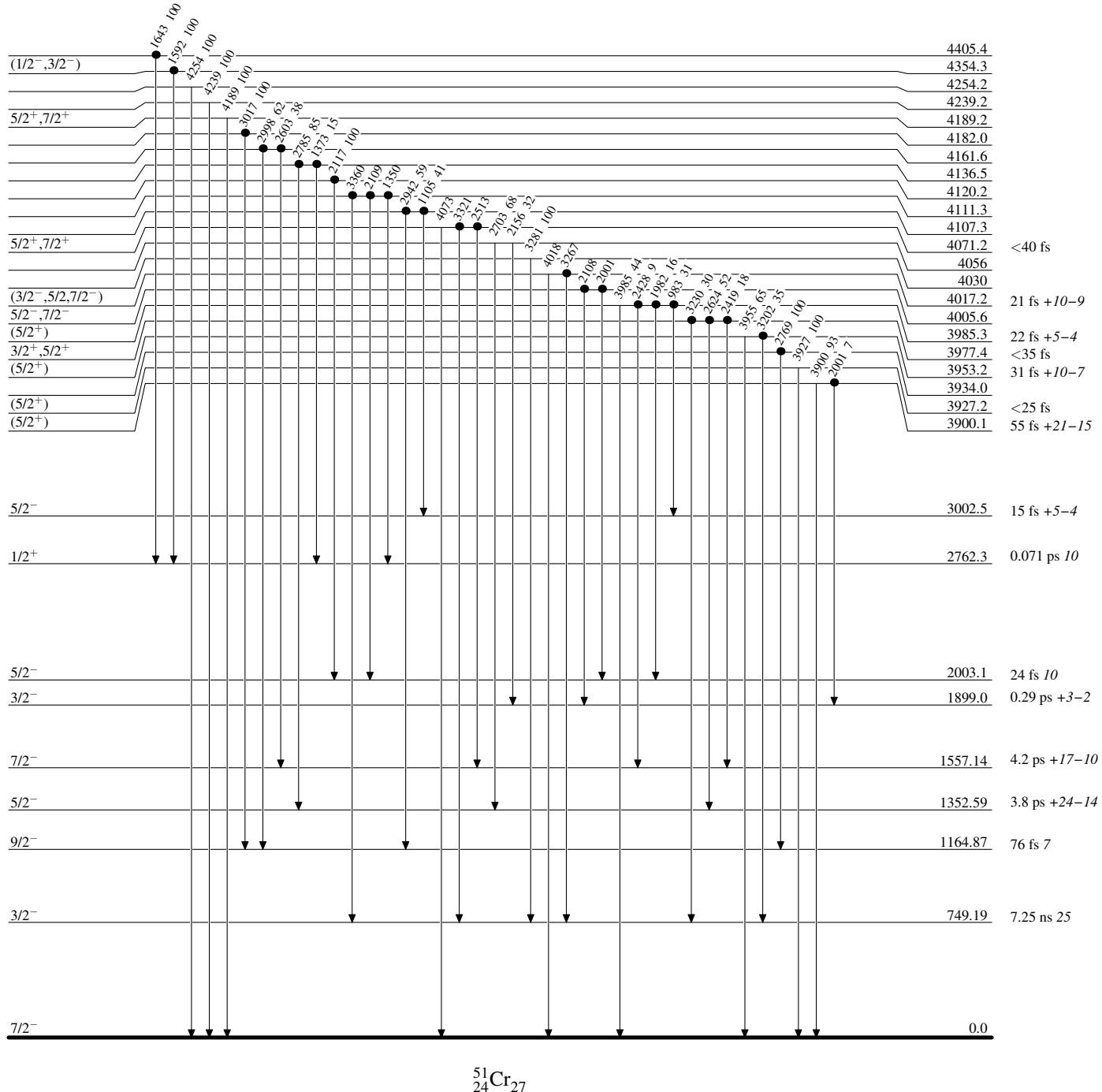
$^{48}\text{Ti}(\alpha, \text{n}\gamma)$ 1980Ka10,1973Sa12,1973Sz01

Legend

Level Scheme

Intensities: % photon branching from each level

● Coincidence

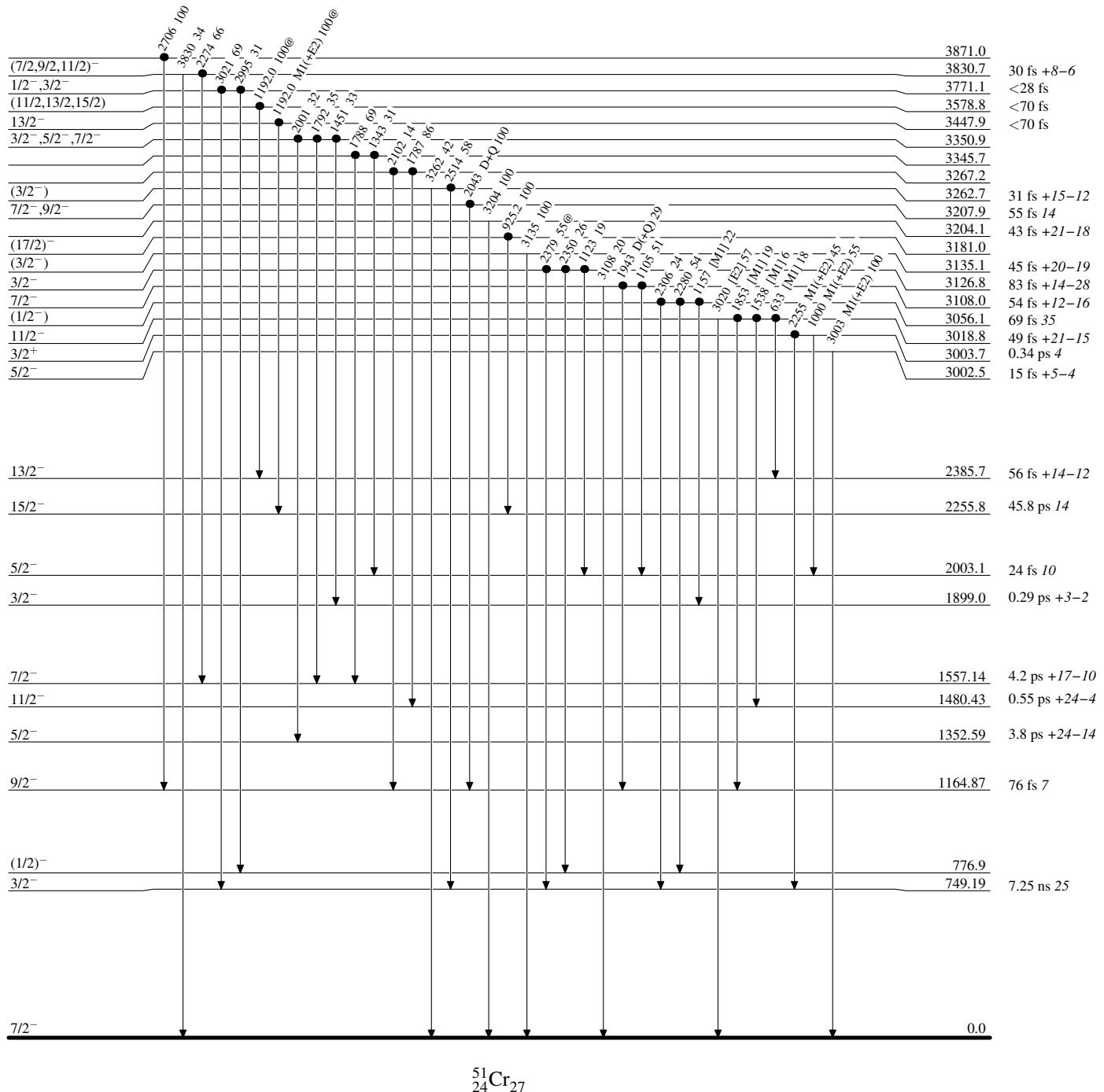


$^{48}\text{Ti}(\alpha, \text{n}\gamma) \quad 1980\text{Ka10,1973Sa12,1973Sz01}$

Legend

Level Scheme (continued)

Intensities: % photon branching from each level
 @ Multiply placed: intensity suitably divided

 Coincidence


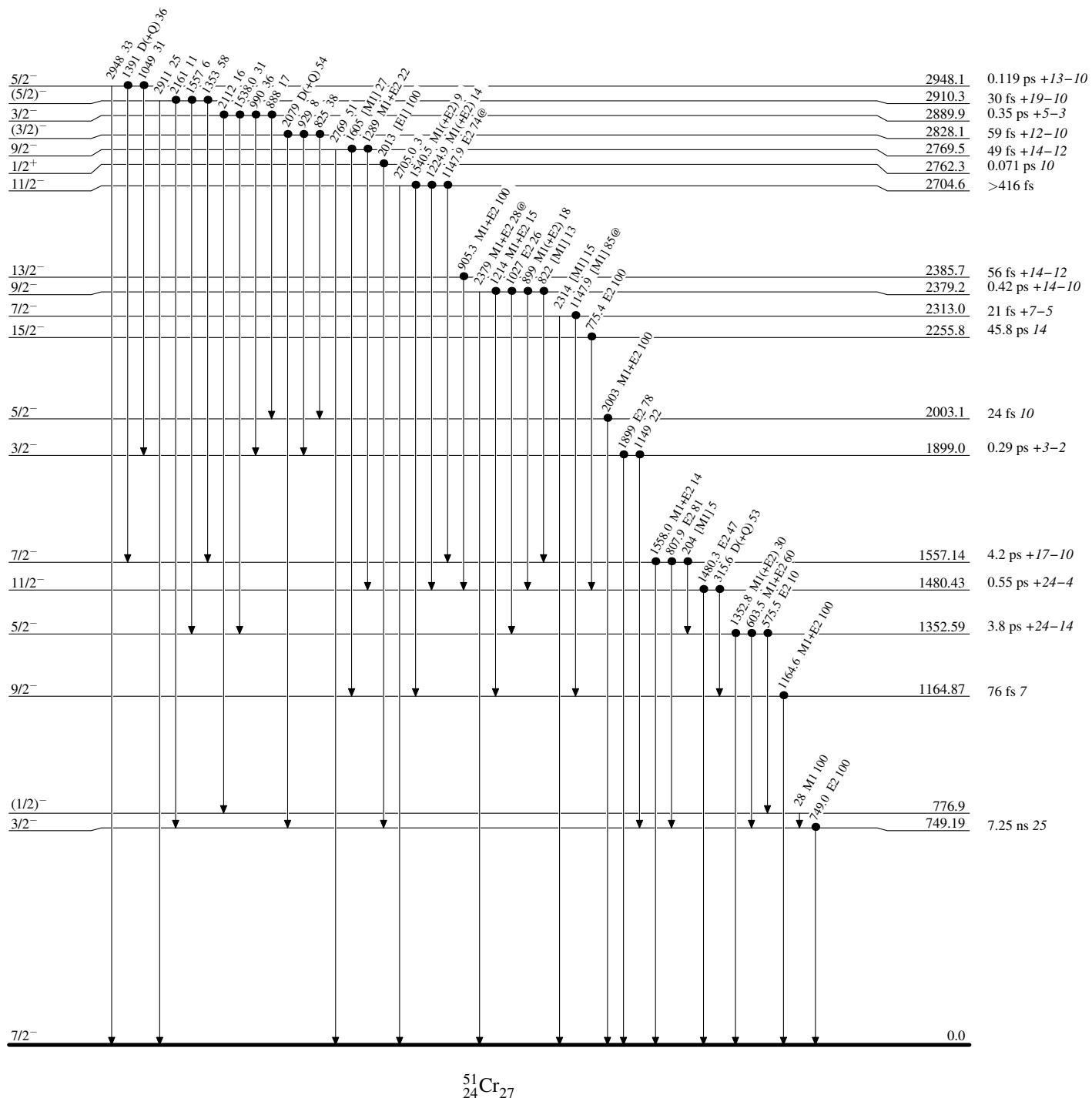
$^{48}\text{Ti}(\alpha, \text{n}\gamma) \quad 1980\text{Ka10,1973Sa12,1973Sz01}$

Legend

Level Scheme (continued)

Intensities: % photon branching from each level
 @ Multiply placed: intensity suitably divided

● Coincidence



$^{48}\text{Ti}(\alpha, \text{n}\gamma)$ 1980Ka10, 1973Sa12, 1973Sz01

Band(A): Strongly deformed
 $K^\pi=1/2^-$ band

