

$^{95}\text{Mo}(\text{p},\text{n}),(\text{p},\text{n}\gamma)$ 1980Mi06,1974Sa19,1971Ki06

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

1970Ki01: E=4.0-5.4 MeV. Measured neutrons; TOF.**1971Ki06:** E=3.5-4.4 MeV. Measured neutrons; TOF.**1974Sa19:** E=3.1-6.5 MeV. Measured γ -excitation functions, $\gamma\gamma$ -coincidences, γ' s, and $\gamma(\theta)$ (Ge(Li)) and $n\gamma$ -coincidences (scin,Ge(Li)). DSAM.**1980Mi06:** E=2.8-5.1 MeV. Measured γ 's, $\gamma\gamma(\theta)$, and γ -excitation functions (Ge(Li)) and neutron-excitation functions (scin). **^{95}Tc Levels**

E(level) ^c	J ^{π} [†]	T _{1/2} [‡]	Comments
0.0 [#]	9/2 ⁺		
38.89 ^{+#} 4	1/2 ⁻		
336.40 [#] 3	7/2 ⁺		J ^{π} : $\neq 5/2$ from $\gamma(\theta)$ (1974Sa19). 1/2,7/2 ⁺ from comparison of statistical theory to 2 ⁺ res yield; $\neq 1/2$ from γ to 9/2 ⁺ (1980Mi06).
626.79 [#] 3	5/2 ⁺		J ^{π} : $\gamma(\theta)$ consistent with 5/2 or 7/2 (1974Sa19). 3/2 ⁺ ,5/2 ⁺ from comparison of statistical theory to 2 ⁺ res yield; $\neq 3/2^+$ from strong γ to 9/2 ⁺ (1980Mi06).
646.52 [#] 5	3/2 ⁻ [@]	0.44 ps +90-19	
667.80 [#] 4	5/2 ⁻ [@]		
882.10 6	13/2 ⁺	≥ 416 fs	1974Sa19 note the presence a small peak in the tof spectra of 1970Ki01 which may correspond to this state.
			J ^{π} : 9/2,11/2,13/2 from $\gamma(\theta)$ (1974Sa19). $\neq 5/2^-,7/2^-,9/2^-,11/2^-$ from comparison of statistical theory to 4 ⁺ res yield (1980Mi06).
927.74 [#] 3	3/2 ⁺	≥ 589 fs	J ^{π} : $\leq 5/2^-$ from γ to 1/2 ⁻ ; $\geq 3/2^+$ from γ to 7/2 ⁺ ; $\neq 5/2^-$ from large 301 γ δ required to fit $\gamma(\theta)$ (1974Sa19). 3/2 ⁺ ,5/2 ⁺ from from comparison of statistical theory to 2 ⁺ res yield (1980Mi06).
957.13 [#] 6	11/2 ⁺	≥ 832 fs	J ^{π} : 11/2 from $\gamma(\theta)$; $\pi=+$ from comparison of σ to statistical theory (1974Sa19). 11/2 ⁺ ,13/2 ⁻ ,15/2 ⁻ from comparison of statistical theory to 2 ⁺ and 4 ⁺ res yields; $\neq 15/2^-$ from γ to 9/2 ⁺ (1980Mi06).
1033.85? 7	(1/2 ⁺)	53 fs +13-9	J ^{π} : 1/2 or $\geq 13/2$ from low σ ; $\neq 13/2$ from possible d γ to 1/2 ⁻ (1974Sa19). 1/2 ⁺ ,7/2 ⁺ from comparison of statistical theory to 2 ⁺ res yield; isotropic $\gamma(\theta)$ to 1/2 ⁻ (1980Mi06).
1084.91 [#] 4	(5/2) ⁺	≥ 347 fs	J ^{π} : probably 7/2 but 5/2 could not be excluded from $\gamma(\theta)$ (1974Sa19). 3/2 ⁺ ,5/2 ⁺ from comparison of statistical theory to 2 ⁺ res yield (1980Mi06).
1178.56 [#] 3	7/2 ⁺ ^a	0.37 ps +19-9	J ^{π} : 7/2 from $\gamma(\theta)$; M1+E2 γ to (5/2) ⁺ (1974Sa19).
1213.13 ^{&} 9	9/2		J ^{π} : 9/2 from $\gamma(\theta)$ (1974Sa19). 5/2 ⁻ ,7/2 ⁺ ,9/2 ⁺ ,11/2 ⁻ from comparison of statistical theory to 4 ⁺ res yield; $\neq 5/2^-$ from γ to 9/2 ⁺ (1980Mi06).
1214.53 ^{&} 5	9/2 ⁻	≥ 624 fs	J ^{π} : 7/2 ⁻ ,9/2 ⁻ from comparison of statistical theory to 4 ⁺ res yield; $\neq 7/2^-$ from weak 2 ⁺ res yield (1980Mi06). 7/2 from $\gamma(\theta)$ and $\pi=-$ from (M1+E2) γ to 5/2 ⁻ (1974Sa19) discrepant.
1275.89 ^{&} 5	(3/2) ⁺	69 fs +9-8	J ^{π} : 1/2,3/2,5/2 from $\gamma(\theta)$; $\neq 1/2$ from d γ to 5/2 ⁻ (1974Sa19). 1/2 ⁻ ,3/2 ⁻ from comparison of statistical theory to 2 ⁺ and 4 ⁺ res yields (1980Mi06).
1281.47 ^{&} 5	7/2 ⁽⁻⁾	134 fs +70-38	J ^{π} : 7/2 from $\gamma(\theta)$ (1974Sa19). 1/2 ⁻ ,7/2 ⁻ from comparison of statistical theory to 2 ⁺ res yield; $\neq 1/2^-$ from strong γ' s to 9/2 ⁺ and 7/2 ⁺ (1980Mi06).
1307.19 [#] 9	11/2 ⁺	0.30 ps +18-8	J ^{π} : 11/2 from $\gamma(\theta)$; E2 γ to 9/2 ⁺ (1974Sa19).
1416.38 [#] 6	3/2,5/2 ⁽⁻⁾ ^b	≥ 492 fs	J ^{π} : 3/2,5/2 from $\gamma(\theta)$; $\neq 5/2^+$ from strong γ to 1/2 ⁻ (1974Sa19).
1433.21 [#] 4	5/2 ⁺	57 fs +7-6	J ^{π} : 5/2 ⁺ from comparison of statistical theory to 4 ⁺ res yield and γ' s to 9/2 ⁺ , 7/2 ⁺ , and 5/2 ⁺ (1980Mi06).
1618.50 [#] 5	(3/2 ⁺ ,5/2 ⁻) ^b	0.22 ps +18-7	J ^{π} : $\leq 5/2$ from $\gamma(\theta)$; $\neq 1/2^+$ from d,E2 γ to 5/2 ⁻ (1974Sa19).

Continued on next page (footnotes at end of table)

 $^{95}\text{Mo}(\text{p},\text{n}),(\text{p},\text{n}\gamma)$ 1980Mi06,1974Sa19,1971Ki06 (continued)

 ^{95}Tc Levels (continued)

E(level) ^c	J ^π [†]	T _{1/2} [‡]	Comments
1631.99 & 10	11/2	30 fs +9–7	J ^π : 5/2,7/2,9/2,11/2 from $\gamma(\theta)$; 11/2,13/2,15/2 from d γ to 13/2 ⁺ (1974Sa19).
1639.35 & 6	(3/2 ⁻)	83 fs +25–18	J ^π : 3/2,5/2 from $\gamma(\theta)$ to (3/2 ⁺) (1974Sa19). 1/2 ⁻ ,3/2 ⁺ ,13/2 ⁺ ,15/2 ⁻ from comparison of statistical theory to 4 ⁺ res yield and ≠13/2 ⁺ ,15/2 ⁻ from γ to 3/2 ⁺ ,5/2 ⁺ (1980Mi06) discrepant.
1691.27 5	5/2 ⁺ ,7/2 ⁺	136 fs +30–21	J ^π : 5/2 ⁺ ,7/2,9/2 ⁺ from d,E2 γ 's to 5/2 ⁺ and 9/2 ⁺ . 9/2 suggested by $\gamma(\theta)$ and low σ inconsistent with 3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺ from log f _t =5.5 from 5/2 ⁺ (1974Sa19).
1694.50 5	3/2 ⁺ ,5/2 ⁽⁻⁾ ,7/2 ⁻ ^b	129 fs +36–18	J ^π : 3/2 ⁺ ,5/2,7/2 ⁻ from d,E2 γ 's to 3/2 ⁻ and 7/2 ⁺ (1974Sa19). 5/2 ⁻ ,11/2 ⁻ from comparison of statistical theory to 4 ⁺ res yield; ≠11/2 ⁻ from γ to 3/2 ⁻ (1980Mi06).
1747.02 6	(5/2) ⁺	44 fs +8–7	J ^π : ≠3/2 ⁺ from d,E2 γ to 9/2 ⁺ (1974Sa19).
1785.19 4	(7/2) ^{+a}	40 fs 5	J ^π : ≠3/2 ⁺ from d,E2 γ to 9/2 ⁺ ; 7/2 favored from $\gamma(\theta)$ (1974Sa19).
1837.71? 21	(7/2 ⁺ ,9/2 ⁺) ^a		
1873.9? 10	(7/2 ⁺ ,9/2 ⁺) ^a		
1888.00? 20	(5/2 ⁻) ^b		State proposed by 1980Mi06 who measured a lower 1261 γ threshold than 1974Sa19 .
1920.02 6	(1/2 ⁻ ,3/2,5/2) ^b	80 fs +23–16	J ^π : 1/2 ⁻ ,3/2,5/2,7/2 ⁻ from d,E2 γ 's to 3/2 ⁻ and 5/2 ⁻ . ≠7/2 ⁻ from possible d,E2 γ to 3/2 ⁺ (1974Sa19).
1920.99 10	9/2 ^a	73 fs +23–16	J ^π : from $\gamma(\theta)$ (1974Sa19).
1958.97 10	(5/2 ⁻)	≥596 fs	J ^π : 9/2 favored from $\gamma(\theta)$ but 5/2 and 7/2 could not be excluded (1974Sa19). 5/2 ⁻ ,11/2 ⁻ from comparison of statistical theory to 4 ⁺ res yield (1980Mi06).
1978.55 5	3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺	40 fs +9–7	
2032.33 12	5/2 ⁺ ,7/2,9/2 ⁽⁻⁾ ^b	118 fs +67–35	J ^π : 7/2 favored by $\gamma(\theta)$ but 5/2 and 9/2 could not be excluded; ≠5/2 ⁻ from d,E2 γ to 9/2 ⁺ (1974Sa19).
2086.02 4	3/2 ⁺	34 fs +16–11	J ^π : ≠7/2 ⁺ from d,Q γ to 1/2 ⁻ (1974Sa19).
2118.1? 10	(7/2 ⁺ ,9/2 ⁺) ^a		
2164.1? 6			
2168.18 5	7/2 ^{+a}	50 fs +11–9	J ^π : 7/2 from $\gamma(\theta)$; d,E2 γ to (3/2 ⁺) (1974Sa19).
2189.00 6	5/2 ⁺ ,7/2 ^{+a}	37 fs +12–9	J ^π : 5/2,7/2,9/2 ⁺ from d,E2 γ to 5/2 ⁺ and d,Q γ to 9/2 ⁺ ; ≠ 7/2 ⁻ ,9/2 ⁻ from d,E2 γ to 3/2 ⁺ (1974Sa19).
2210.6 3			
2219.59 20	(7/2 ⁺) ^a		
2236.91? 20	(≥5/2)		
2240.6? 3			
2251.99 15	(7/2) ^{+a}		
2267.64 9	(7/2) ⁺	0.22 ps +52–11	J ^π : 5/2 ⁻ ,7/2 ⁺ ,9/2 ⁺ ,11/2 ⁻ from comparison of statistical theory to 4 ⁺ res yield; ≠11/2 ⁻ from γ to 3/2 ⁺ ,5/2 ⁺ (1980Mi06).
2318.3? 4			
2324.40 13	5/2 ⁺ ,7/2 ⁺		

[†] From the Adopted Levels; contributing spin and parity or discrepant spin and parity arguments from this data set are given in comments or footnotes. Energy held fixed in least-squares adjustment.

[‡] From DSA measurements ([1974Sa19](#)). Only statistical uncertainties are given; the uncertainty due to the stopping power is not included but may be as large as 15%.

[#] Also reported by [1970Ki01](#).

[@] J^π(651)=3/2⁻ and J^π(670)=5/2⁻ from analysis of the neutron decay of the ^{96}Tc 2⁺ IAR at 3908 keV ([1971Ki06](#)).

& Unresolved in the TOF spectra of [1970Ki01](#).

^a 7/2⁺,9/2⁺ from comparison of statistical theory to 4⁺ resonance yield ([1980Mi06](#)).

 $^{95}\text{Mo}(\text{p},\text{n}),(\text{p},\text{n}\gamma)$ 1980Mi06,1974Sa19,1971Ki06 (continued) **^{95}Tc Levels (continued)**

^b $5/2^-$ from comparison of statistical theory to 4^+ resonance yield and decay to $5/2^-$ or $5/2^+$ states ([1980Mi06](#)).

^c From least-squares fit to $E\gamma$.

⁹⁵Mo(p,n),(p,n γ) 1980Mi06,1974Sa19,1971Ki06 (continued) $\gamma^{({}^{95}\text{Tc})}$

All information is from 1974Sa19, except as noted.

E _i (level)	J _i ^π	E _γ	I _γ [†]	E _f	J _f ^π	Mult. [‡]	δ [#]	Comments
336.40	7/2 ⁺	336.40 4	100	0.0	9/2 ⁺	D+Q [#]	+0.33 6	
626.79	5/2 ⁺	290.33 3	17.8 2	336.40	7/2 ⁺			
		626.73 6	82.2 6	0.0	9/2 ⁺			
646.52	3/2 ⁻	607.56 6	100	38.89	1/2 ⁻			
667.80	5/2 ⁻	331.37 10	1.9 2	336.40	7/2 ⁺			
		628.92 6	98.1 9	38.89	1/2 ⁻			
882.10	13/2 ⁺	882.10 6	100	0.0	9/2 ⁺	Q(+O) [#]	-0.07 10	Mult.: possibly ΔJ=0 or stretched Q.
927.74	3/2 ⁺	300.95 4	47.0 4	626.79	5/2 ⁺	D+Q [#]	-0.21 3	
		591.50 8	24.3 2	336.40	7/2 ⁺	Q(+O) [#]	+0.15 10	
		888.90 5	28.7 7	38.89	1/2 ⁻	D [#]		
957.13	11/2 ⁺	957.12 6	100	0.0	9/2 ⁺	D+Q [#]	-3.0 6	δ: other: -0.13 3.
1033.85?	(1/2 ⁺)	994.95 ^f 5	100	38.89	1/2 ⁻	D		
1084.91	(5/2) ⁺	458.0 2	3.2 4	626.79	5/2 ⁺			
		748.55 ^e 5	95 ^e 6	336.40	7/2 ⁺			
		1084.98 10	1.8 2	0.0	9/2 ⁺			
1178.56	7/2 ⁺	551.76 5	27.7 5	626.79	5/2 ⁺	M1+E2	-0.22 10	Mult.: D+Q from $\gamma(\theta)$. ≠E1+M2 from δ and comparison to RUL.
		842.19 8	21.1 4	336.40	7/2 ⁺	D(+Q) [#]	+0.04 +40-25	
		1178.66 6	51.2 7	0.0	9/2 ⁺	D+Q [#]	+0.41 +22-16	
1213.13	9/2	876.81 10	90.7 14	336.40	7/2 ⁺			
		1212.8 2	9.3 3	0.0	9/2 ⁺			
1214.53	9/2 ⁻	546.71 5	66.5 9	667.80	5/2 ⁻	Q+O [#]	+0.50 +13-9	δ: discrepant with adopted mult and δ.
		878.36 10	16.4 16	336.40	7/2 ⁺	D		
		1214.37 10	15.1 21	0.0	9/2 ⁺	D		
1275.89	(3/2) ⁺	608.20 5	31 7	667.80	5/2 ⁻	D		
		1236.91 8	69 1	38.89	1/2 ⁻	D(+Q) [#]	+0.12 60	Isotropic $\gamma(\theta)$.
1281.47	7/2 ⁽⁻⁾	613.67 5	75.6 4	667.80	5/2 ⁻	D		
		945.03 10	9.8 4	336.40	7/2 ⁺	D+Q [#]	-0.38 +31-73	
		1281.52 10	14.6 4	0.0	9/2 ⁺	D+Q [#]	+0.53 +60-30	
1307.19	11/2 ⁺	970.8 2	18 4	336.40	7/2 ⁺	E2		Mult.: Q from $\gamma(\theta)$. ≠M2 from comparison to RUL.
		1307.18 10	82 1	0.0	9/2 ⁺	D+Q [#]		δ: -0.13 3 or -3.3 8.
1416.38	3/2,5/2 ⁽⁻⁾	748.55 ^e 5	60 ^e 12	667.80	5/2 ⁻			
		769.86 6	29.8 5	646.52	3/2 ⁻			
		1377.63 10	9.9 3	38.89	1/2 ⁻			
1433.21	5/2 ⁺	254.35 20	1.7 3	1178.56	7/2 ⁺	D		
		348.44 20	1.5 3	1084.91	(5/2) ⁺	D		

⁹⁵Mo(p,n),(p,n γ) 1980Mi06,1974Sa19,1971Ki06 (continued) $\gamma(^{95}\text{Tc})$ (continued)

E _i (level)	J _i ^π	E _γ	I _γ [†]	E _f	J _f ^π	Mult. [‡]	δ [#]	Comments
1433.21	5/2 ⁺	505.4 3 806.32 5 1096.73 8	1.9 ^{&} 6 16.4 4 76.2 9	927.74 626.79 336.40	3/2 ⁺ 5/2 ⁺ 7/2 ⁺	D,E2 D,E2 M1+E2		Mult.: D+Q from $\gamma(\theta)$. \neq E1+M2 from δ and comparison to RUL.
1618.50	(3/2 ⁺ ,5/2 ⁻)	1433.10 10 342.64 5 950.68 5 972.0 2 1579.54 10	2.3 ^{&} 12.3 7 41.5 11 16.8 13 29.4 7	1275.89 667.80 646.52 38.89	(3/2) ⁺ 5/2 ⁻ 3/2 ⁻ 1/2 ⁻	D D,E2 D,Q D,Q		
1631.99	11/2	750 1	58 12	882.10	13/2 ⁺	D		
1639.35	(3/2 ⁻)	1631.97 10 711.61 5 992.33 ^{df} 70	42 4 87.0 15 13 ^d 2	646.52 927.74	3/2 ⁺ (5/2) ⁺	D,E2 D	+0.14 9	
1691.27	5/2 ^{+,7/2⁺}	606.3 5 1064.42 6 1355.10 20 1691.35 10	5.5 6 39.5 5 48.4 20 6.6 3	1084.91 626.79 336.40 0.0	(5/2) ⁺ 5/2 ⁺ 7/2 ⁺ 9/2 ⁺	D,E2 D,E2 D,E2 D,E2		
1694.50	3/2 ^{+,5/2⁽⁻⁾,7/2⁻}	1026.71 6 1047.94 6 1067.96 15 1358.07 10	31.6 5 27.1 5 21.1 9 20.2 6	667.80 646.52 626.79 336.40	5/2 ⁻ 3/2 ⁻ 5/2 ⁺ 7/2 ⁺	D,E2 D,E2 D,E2 D,E2		
1747.02	(5/2) ⁺	819.3 1 1120.3 2 1410.58 8 1747.0 3	15.1 23 20.4 8 63.9 8 0.58 17	927.74 626.79 336.40 0.0	3/2 ⁺ 5/2 ⁺ 7/2 ⁺ 9/2 ⁺	D,E2 D,E2 D,E2 (E2)		
1785.19	(7/2) ⁺	1158.38 ^e 4 1449.01 15 1785.11 10	40.1 ^e 68 9.8 3 50.1 21	626.79 336.40 0.0	5/2 ⁺ 7/2 ⁺ 9/2 ⁺	D,E2 D,E2 D,E2		Mult.: Q from $\gamma(\theta)$ if 5/2. \neq M2 from comparison to RUL.
1837.71?	(7/2 ^{+,9/2⁺)}	1501.3 ^f 3 1837.7 ^f 3	55 ^a 6 45 ^a 6	336.40 0.0	7/2 ⁺ 9/2 ⁺			
1873.9?	(7/2 ^{+,9/2⁺)}	1873.9 ^{bf}	100 ^b	0.0	9/2 ⁺			
1888.00?	(5/2 ⁻)	1261.2 ^{df} 2	100 ^{db}	626.79	5/2 ⁺			Alternate placement suggested by 1980Mi06 who measured a lower 1261 γ threshold than 1974Sa19.
1920.02	(1/2 ⁻ ,3/2,5/2)	644.30 ^c 10 992.33 ^{df} 70 1252.17 ^c 6 1273.39 15	5.7 6 6.7 ^d 9 67.1 14 20.5 38	1275.89 927.74 667.80 646.52	(3/2) ⁺ 3/2 ⁺ 5/2 ⁻ 3/2 ⁻	D,E2 D,E2 D,E2 D,E2		
1920.99	9/2	1584.59 10 1920.8 4	76.1 14 23.9 45	336.40 0.0	7/2 ⁺ 9/2 ⁺	D,E2 D,E2		
1958.97	(5/2 ⁻)	1622.58 10 1958.74 30	66.7 ^{&} 19 33.3 57	336.40 0.0	7/2 ⁺ 9/2 ⁺	D+(Q) [#]		δ : -0.07 12 or -4.0 +12-41 if 9/2 or \leq -0.4 if 7/2.

⁹⁵Mo(p,n),(p,n γ) 1980Mi06,1974Sa19,1971Ki06 (continued)

 $\gamma(^{95}\text{Tc})$ (continued)

E _i (level)	J _i ^π	E _γ	I _γ [†]	E _f	J _f ^π	Mult. [‡]
1978.55	3/2 ⁺ ,5/2 ⁺ ,7/2 ⁺	893.86 10	10.7 ^a 11	1084.91	(5/2) ⁺	D,E2
		1050.75 5	66.6 ^a 10	927.74	3/2 ⁺	D,E2
		1351.8 2	20.1 ^{&} 12	626.79	5/2 ⁺	D,E2
		1642.0 3	2.6 ^{&} 2	336.40	7/2 ⁺	D,E2
2032.33	5/2 ⁺ ,7/2,9/2 ⁽⁻⁾	1364.3 @bf	77.5 ^b	667.80	5/2 ⁻	
		1695.97 13	9.2 ^b	336.40	7/2 ⁺	D,E2
		2031.8 4	13.3 ^b	0.0	9/2 ⁺	D,E2
2086.02	3/2 ⁺	652.72 5	20.2 ^a 15	1433.21	5/2 ⁺	D
		1158.38e 4	31.9 ^{ea} 30	927.74	3/2 ⁺	D,E2
		1459.10 6	41.1 ^a 9	626.79	5/2 ⁺	D,E2
		2046.9 2	6.8 ^a 3	38.89	1/2 ⁻	D,Q
2118.1?	(7/2 ⁺ ,9/2 ⁺)	2118.1 bf	100 ^b	0.0	9/2 ⁺	
2164.1?		1827.7 cf 16	42 16	336.40	7/2 ⁺	
		2164.1 cf 6	58 11	0.0	9/2 ⁺	
2168.18	7/2 ⁺	734.85 6	28.9 11	1433.21	5/2 ⁺	D
		989.77 6	37.2 8	1178.56	7/2 ⁺	D,E2
		1240.4 2	4.2 ^{&} 5	927.74	3/2 ⁺	E2
		1541.27 10	15.2 8	626.79	5/2 ⁺	D,E2
		1831.7 2	12.7 ^{&} 8	336.40	7/2 ⁺	D,E2
2189.00	5/2 ⁺ ,7/2 ⁺	2168.27 30	1.8 ^{&} 4	0.0	9/2 ⁺	D,Q
		755.8 1	17.2 25	1433.21	5/2 ⁺	D,E2
		1010.44 8	45.9 12	1178.56	7/2 ⁺	D,E2
		1261.2 df 2	20.9 ^d 12	927.74	3/2 ⁺	D,E2
		1562.35 20	5.7 8	626.79	5/2 ⁺	D,E2
		1852.5 2	7.8 4	336.40	7/2 ⁺	D,E2
		2188.9 2	2.5 4	0.0	9/2 ⁺	D,Q
2210.6		1874.3 c 4	86 3	336.40	7/2 ⁺	
		2210.2 c 6	14 3	0.0	9/2 ⁺	
2219.59	(7/2 ⁺)	1291.4 3	73.3 53	927.74	3/2 ⁺	
		1883.5 3	20.3 16	336.40	7/2 ⁺	
		2219.9 c 5	6.4 19	0.0	9/2 ⁺	
2236.91?	(≥5/2)	1610.1 cf 2	100	626.79	5/2 ⁺	
2240.6?		1904.3 cf 4	50 8	336.40	7/2 ⁺	
		2240.4 cf 5	50 13	0.0	9/2 ⁺	
2251.99	(7/2) ⁺	1324.0 c 3	3.6 18	927.74	3/2 ⁺	
		1625.1 3	20.5 2	626.79	5/2 ⁺	
		2252.1 2	75.9 36	0.0	9/2 ⁺	
2267.64	(7/2) ⁺	1088.9 2	27.6 ^a 20	1178.56	7/2 ⁺	
		1182.5 3	27.0 ^a 10	1084.91	(5/2) ⁺	

⁹⁵Mo(p,n),(p,n γ) 1980Mi06,1974Sa19,1971Ki06 (continued) γ (⁹⁵Tc) (continued)

E _i (level)	J _i ^π	E _γ	I _γ [†]	E _f	J _f ^π	E _i (level)	J _i ^π	E _γ	I _γ [†]	E _f	J _f ^π
2267.64	(7/2) ⁺	1340.02 12	20.1 14	927.74	3/2 ⁺	2318.3?		2317.5 ^f 8	13 4	0.0	9/2 ⁺
		1931.1 3	22.2 31	336.40	7/2 ⁺	2324.40	5/2 ^{+,7/2⁺}	1697.3 2	5.6 ^{&} 1	626.79	5/2 ⁺
		2267.6 2	3.1 10	0.0	9/2 ⁺			1988.2 4	31.3 ^{&} 12	336.40	7/2 ⁺
2318.3?		1982.1 ^f 4	87 13	336.40	7/2 ⁺			2324.6 2	63.1 ^{&} 20	0.0	9/2 ⁺

[†] % photon branching from each level.[‡] From comparison to RUL, except as noted.[#] From $\gamma(\theta)$. See 1974Sa19 for other solutions excluded by the adopted spins and parities.[@] In coincidence with 627 γ +629 γ .[&] From 1973Xe01.^a I γ (1501 γ)/I γ (1837 γ)=0.647, I γ (893 γ)/I γ (1051 γ)=0.077, I γ (653 γ):I γ (1159 γ):I γ (1459 γ):I γ (2047)=20.2:19.5:52.6:7.7, and I γ (1089 γ)/I γ (1183 γ)=0.447 from 1980Mi06 are discrepant.^b From 1980Mi06.^c Not reported by 1980Mi06.^d Multiply placed with undivided intensity.^e Multiply placed with intensity suitably divided.^f Placement of transition in the level scheme is uncertain.^x γ ray not placed in level scheme.

$^{95}\text{Mo}(\text{p},\text{n}),(\text{p},\text{n}\gamma)$ 1980Mi06,1974Sa19,1971Ki06

Legend

Level Scheme

Intensities: % photon branching from each level

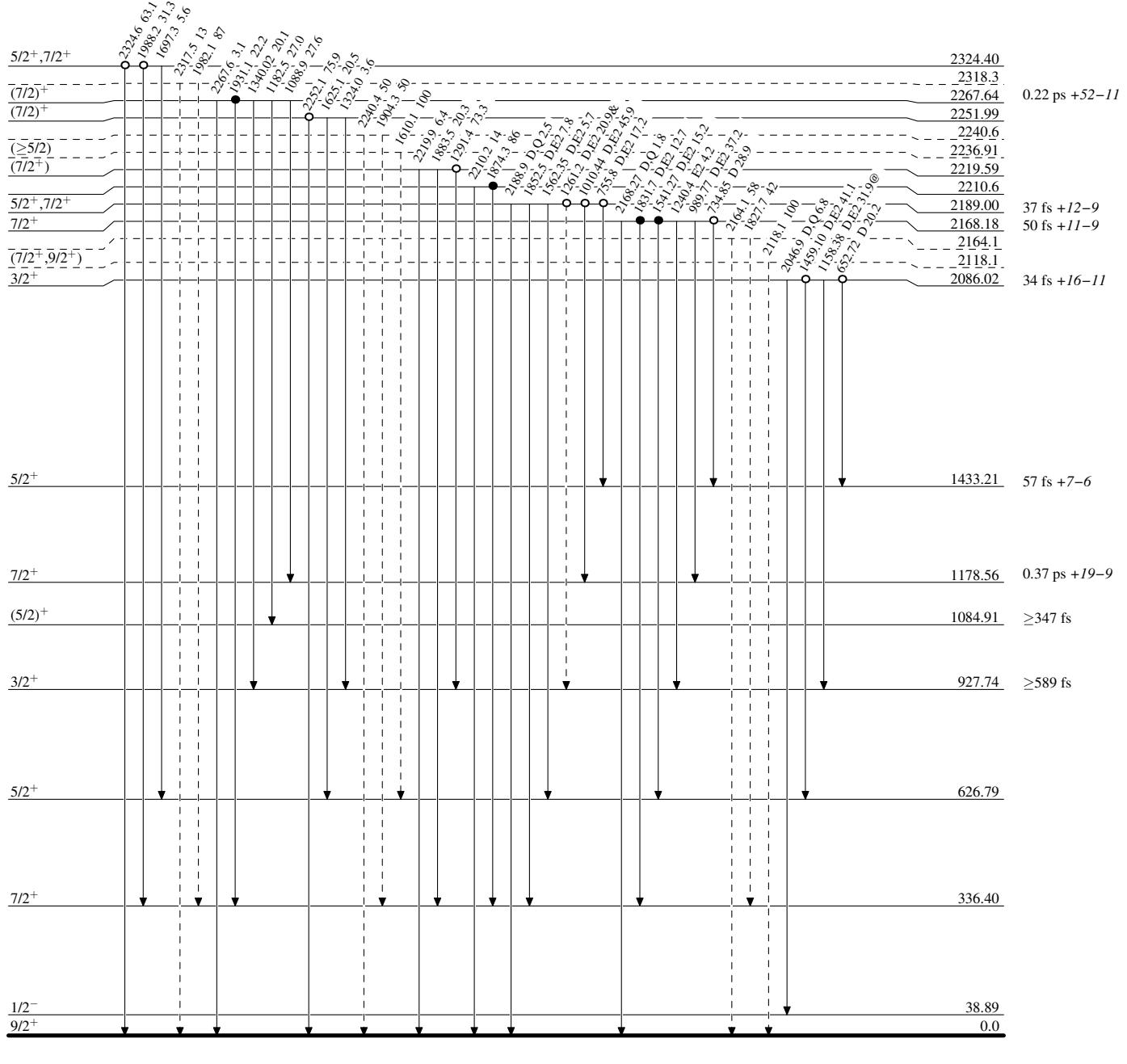
& Multiply placed: undivided intensity given

@ Multiply placed: intensity suitably divided

- - - - - γ Decay (Uncertain)

● Coincidence

○ Coincidence (Uncertain)



$^{95}\text{Mo}(\text{p},\text{n}),(\text{p},\gamma)$ **1980Mi06,1974Sa19,1971Ki06**

Legend

Level Scheme (continued)

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

- > γ Decay (Uncertain)
- Coincidence
- Coincidence (Uncertain)

