¹⁰⁰**Mo**(n,γ) **E=th:secondary** 1990Se17

History								
Туре	Author	Citation	Literature Cutoff Date					
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2006					

E=thermal, enriched target 95.9%.

Others: 1973De39, 1973Ba57, 1975KaZB, 1978WeZM. Measured γ singles, $\gamma\gamma$ coin (semi).

¹⁰¹Mo Levels

E(level) [‡]	$\mathrm{J}^{\pi}^{\dagger}$	E(level) [‡]	$J^{\pi \dagger}$	E(level) [‡]	J^{π} †
0.0	1/2+	568.85 6	1/2+	1098.99 13	$1/2^{(+)}, 3/2$
13.497 9	3/2+	583.39 12	7/2+,9/2+	1109.23 7	3/2+
56 1	$\geq 7/2$	586.47 12	1/2,3/2	1116.86 12	$3/2^{(+)}, 5/2, (1/2)$
57.015 11	$3/2^+, 5/2^+$	626.36 5	7/2,9/2	1199.41 6	$1/2^{(+)}, 3/2, 5/2$
170.958 14	3/2+,5/2	709.981 27	$1/2^{(+)}, 3/2$	1229.84 8	3/2,5/2
237.732 15	$3/2^+, 5/2^+$	797.16 8	$1/2^+, 3/2$	1281.22 11	$3/2^+, 5/2^{(+)}$
240.5 10	7/2+,9/2+	810.60 6	$1/2^{(+)}, 3/2, 5/2^+$	1291.25 9	3/2-
271 <i>I</i>	9/2-,11/2-	823.09 5	$1/2^{(+)}, 3/2, 5/2^{(+)}$	1349.71 9	1/2,3/2
289.531 17	3/2+,5/2+	830.43 7	7/2+,(9/2)+	1447.28 9	$3/2^{(+)},(1/2)$
293.786 26	1/2+,3/2,5/2+	854.07 8	1/2+,3/2	1459.5 <i>12</i>	$(9/2^{-}, 11/2^{-})$
294.586 16	$1/2^{+}$	867.78 8		1559.9 <i>10</i>	
315? 3	7/2,9/2+	902.842 28	$1/2^{(+)}, 3/2$	1620.0 10	
318.858 18	$1/2^+, 3/2^+, 5/2^+$	909.83 8	$3/2^+, 5/2^+, (1/2)$	1636.3 10	
351.589 19	$3/2^+, 5/2^+$	914.19 <i>13</i>	7/2,9/2+	1687.1 <i>10</i>	
454.549 39	$3/2^+, 5/2^+$	974.78 8	$1/2^{(+)}, 3/2, 5/2^{(+)}$	1699.8 <i>10</i>	
479.777 36	3/2+,5/2+	984.17 7	3/2+,5/2+	1847.2 <i>10</i>	
540.053 <i>35</i>	$1/2^{+}$	1011.01 6	$1/2^{(+)},(3/2)$	1861.2 10	
563.5 10	9/2-,11/2-	1047.05 21	$1/2^{+}$	1978.6 <i>13</i>	
567.546 30	5/2+	1054.34 14	1/2,3/2,5/2+	2110.3 10	

[†] As given by 1990Se17, agree generally with Adopted Levels. [‡] The levels above 1447 keV are from 1975KaZB.

$\gamma(^{101}{\rm Mo})$

Eγ	$I_{\gamma}^{\dagger\ddagger}$	E_i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult.	α #	Comments
13.49 10	78 29	13.497	3/2+	0.0	1/2+		10 4	α : from intensity balance.
37.0 ^a 4	0.6 2	351.589	$3/2^+, 5/2^+$	315?	7/2,9/2+			5
43.515 5	23.7 16	57.015	3/2+,5/2+	13.497	3/2+		14.1 13	α : from intensity balance.
56.892 20	1.32 18	57.015	$3/2^+, 5/2^+$	0.0	$1/2^{+}$	E2	9.2	
81.122 5	39.7 17	318.858	$1/2^+, 3/2^+, 5/2^+$	237.732	$3/2^+, 5/2^+$		1.3 3	
113.935 10	5.3 <i>3</i>	170.958	3/2+,5/2	57.015	$3/2^+, 5/2^+$			
118.556 11	5.3 <i>3</i>	289.531	3/2+,5/2+	170.958	3/2+,5/2			
123.0 <i>3</i>	0.4 2	293.786	1/2+,3/2,5/2+	170.958	$3/2^+, 5/2$			
124.2 2	0.5 3	1098.99	$1/2^{(+)}, 3/2$	974.78	$1/2^{(+)}, 3/2, 5/2^{(+)}$			
125.057 11	5.2 3	1109.23	3/2+	984.17	$3/2^+, 5/2^+$			
^x 138.4 2	2.2 7							
140.8 2	2.4 6	709.981	$1/2^{(+)}, 3/2$	568.85	$1/2^{+}$			
143.1 ^{<i>a</i>} 1	1.2 4	315?	7/2,9/2+	170.958	3/2+,5/2			
147.935 18	4.1 10	318.858	$1/2^+, 3/2^+, 5/2^+$	170.958	3/2+,5/2			
157.466 12	81.2 10	170.958	3/2+,5/2	13.497	3/2+			
164.0 [@] 2	$0.9^{@}$ 4	974.78	$1/2^{(+)}, 3/2, 5/2^{(+)}$	810.60	1/2 ⁽⁺⁾ ,3/2,5/2 ⁺			
164.0 [@] 2	0.9 [@] 4	1281.22	$3/2^+, 5/2^{(+)}$	1116.86	$3/2^{(+)}, 5/2, (1/2)$			
164.96 15	0.9 4	454.549	$3/2^+, 5/2^+$	289.531	$3/2^+, 5/2^+$			
165.90 25	0.7 5	1447.28	$3/2^{(+)},(1/2)$	1281.22	$3/2^+, 5/2^{(+)}$			
180.703 19	109 2	237.732	3/2+,5/2+	57.015	$3/2^+, 5/2^+$			
180.8 <i>3</i>	2.0 5	351.589	$3/2^+, 5/2^+$	170.958	3/2+,5/2			
181.5 2	3.2 5	1291.25	3/2-	1109.23	3/2+			
182.1 5	1.1 5	240.5	7/2+,9/2+	57.015	$3/2^+, 5/2^+$			
185.96 5	2.8 6	479.777	3/2+,5/2+	293.786	1/2+,3/2,5/2+			
188.46 <i>6</i>	1.2 5	540.053	1/2+	351.589	$3/2^+, 5/2^+$			
189.8 2	1.0 5	479.777	$3/2^+, 5/2^+$	289.531	$3/2^+, 5/2^+$			
202.5 2	0.8 5	1116.86	$3/2^{(+)}, 5/2, (1/2)$	914.19	7/2,9/2+			
204.06 6	1.4 5	830.43	$7/2^+,(9/2)^+$	626.36	7/2,9/2			
216.82 3	2.4 5	454.549	3/2+,5/2+	237.732	3/2+,5/2+			
218.2 ^(@) 4	1.6 [@] 7	1229.84	3/2,5/2	1011.01	$1/2^{(+)},(3/2)$			
218.2 [@] 4	$1.6^{@}$ 7	1447.28	$3/2^{(+)},(1/2)$	1229.84	3/2,5/2			
223.8 <i>3</i>	3.7 8	237.732	$3/2^+, 5/2^+$	13.497	$3/2^{+}$			
230.18 7	2.7 5	709.981	$1/2^{(+)}, 3/2$	479.777	$3/2^+, 5/2^+$			
231.1 2	1.2 6	1054.34	$1/2.3/2.5/2^+$	823.09	$1/2^{(+)}.3/2.5/2^{(+)}$			
232.4 2	2.0 8	289.531	$3/2^+, 5/2^+$	57.015	$3/2^+, 5/2^+$			
^x 233.3 2	2.9 8							
234.1 2	3.4 8	1281.22	$3/2^+, 5/2^{(+)}$	1047.05	$1/2^{+}$			
236.78 4	12.6 11	293.786	$1/2^+, 3/2, 5/2^+$	57.015	$3/2^+, 5/2^+$			
237.55 2	95.0 20	294.586	$1/2^{+}$	57.015	$3/2^+, 5/2^+$			
238.4 5	1.3 7	237.732	3/2+,5/2+	0.0	$1/2^{+}$			
241.38 [@] 5	$1.0^{@} 2$	867.78		626.36	7/2,9/2			

 $^{101}_{42} Mo_{59}\text{-}2$

From ENSDF

				¹⁰⁰ Μο(n, γ) E=th:secondary	1990Se17 (continued)
					$\gamma(^{101}\text{Mo})$ (con	ntinued)
E_{γ}	$I_{\gamma}^{\dagger \ddagger}$	E _i (level)	\mathbf{J}_i^{π}	E_f	${ m J}_f^\pi$	
241.38 [@] 5	$1.0^{@}$ 2	1109.23	3/2+	867 78		
274.9 2	6.6.18	568.85	$1/2^+$	293.786	$1/2^+.3/2.5/2^+$	
276.10 4	56.8 12	289.531	$3/2^+, 5/2^+$	13.497	3/2+	
277.98 4	4.8 9	567.546	5/2+	289.531	$3/2^+, 5/2^+$	
280.25 4	36.8 9	293.786	1/2+,3/2,5/2+	13.497	3/2+	
281.05 4	45.5 12	294.586	$1/2^+$	13.497	3/2+	
283.5 2	4.2 19	454.549	$3/2^+, 5/2^+$	170.958	3/2+,5/2	
287.86 11	3.0 14	914.19	7/2,9/2+	626.36	7/2,9/2	
289.63 5	6.7 13	289.531	$3/2^+, 5/2^+$	0.0	1/2+	
292.0 2	4.0 22	586.47	1/2,3/2	294.586	1/2+	
293.81 11	20.3 5	293.786	1/2+,3/2,5/2+	0.0	$1/2^{+}$	
294.59 ^{&} 4	44 ^{&} 3	294.586	$1/2^{+}$	0.0	1/2+	
294.59 <mark>&</mark> 4	38 ^{&} 3	351.589	$3/2^+.5/2^+$	57.015	$3/2^+.5/2^+$	
305.5 2	74 7	318.858	$1/2^+, 3/2^+, 5/2^+$	13.497	3/2+	
x309.0 3	7.4 12		1 21 21		,	
^x 311.21 17	2.3 13					
317.5 3	2.1 13	797.16	$1/2^+, 3/2$	479.777	3/2+,5/2+	
326.45 10	0.9 <i>3</i>	909.83	$3/2^+, 5/2^+, (1/2)$	583.39	7/2+,9/2+	
329.93 6	4.1 3	567.546	5/2+	237.732	3/2+,5/2+	
331.2 <i>3</i>	1.8 <i>3</i>	568.85	$1/2^{+}$	237.732	3/2+,5/2+	
335.34 5	2.2 3	902.842	$1/2^{(+)}, 3/2$	567.546	5/2+	
338.5 <i>3</i>	1.4 <i>3</i>	351.589	$3/2^+, 5/2^+$	13.497	3/2+	
340.5 2	1.2 3	909.83	$3/2^+, 5/2^+, (1/2)$	568.85	1/2+	
343.4 2	1.4 3	823.09	$1/2^{(+)}, 3/2, 5/2^{(+)}$	479.777	$3/2^+, 5/2^+$	
351.595 15	19.9 <i>14</i>	351.589	$3/2^+, 5/2^+$	0.0	$1/2^{+}$	
355.7 <i>3</i>	0.5 3	810.60	$1/2^{(+)}, 3/2, 5/2^{+}$	454.549	3/2+,5/2+	
358.41 4	4.3 5	709.981	$1/2^{(+)}, 3/2$	351.589	3/2+,5/2+	
^x 364.99 15	2.2 13					
367.5 2	2.1 12	1281.22	$3/2^+, 5/2^{(+)}$	914.19	7/2,9/2+	
369.79 <i>5</i>	4 2	909.83	$3/2^+, 5/2^+, (1/2)$	540.053	1/2+	
374.6 2	0.6 4	854.07	$1/2^+, 3/2$	479.777	$3/2^+, 5/2^+$	
388.59 7	4.6 14	626.36	7/2,9/2	237.732	3/2+,5/2+	
392.9 4	2.5 14	1447.28	$3/2^{(+)},(1/2)$	1054.34	1/2,3/2,5/2+	
x395.8 3	3.8 4					
398.0 [@] 3	1.6 [@] 9	454.549	$3/2^+, 5/2^+$	57.015	3/2+,5/2+	
398.0 [@] 3	4.3 [@] 26	568.85	$1/2^{+}$	170.958	$3/2^+, 5/2$	
399.0 2	52	854.07	1/2+,3/2	454.549	$3/2^+, 5/2^+$	
406.80 [@] 6	$3.5^{\textcircled{0}}$ 14	1116.86	$3/2^{(+)}.5/2.(1/2)$	709.981	$1/2^{(+)}.3/2$	
406.80 [@] 6	$35^{@}1^{/}$	1220.84	3/2 5/2	873.00	$1/2^{(+)} 3/2 5/2^{(+)}$	
412.1.3	3918	583 30	$7/2^+ 9/2^+$	170 958	3/2+ 5/2	
x414.6 3	1.0 5	565.57	.,= ,>,=	1,0.250	0,2,0,2	

 $\boldsymbol{\omega}$

Eγ	$I_{\gamma}^{\dagger\ddagger}$	E _i (level)	J_i^{π}	\mathbf{E}_{f}	J_{f}^{π}
415.0.2	2.0.12	700.001	1 10(+) 210	202 70(J 1/0+ 2/0 5/0+
415.9 3	2.8 13	709.981	$1/2^{(+)}, 3/2$	293.780	$1/2^{+}, 3/2, 5/2^{+}$
420.43 3	5.4 ð	/09.981	$1/2^{(1)}, 3/2$	289.531	3/2 ⁺ ,5/2 ⁺
425.5 4	0.8 J	4/9.///	$\frac{3}{2}, \frac{3}{2}$	20 854.07	$\geq 1/2$ $1/2^+ 2/2$
430.7 5	2.7 13 10 / 10	1291.23	$\frac{3}{2}$	13 /07	$\frac{1}{2}, \frac{3}{2}$
454.0.3	3316	454 549	$3/2^+, 5/2^+$	0.0	$\frac{3}{2}$ 1/2 ⁺
459.0.3	3318	810.60	$1/2^{(+)} 3/2 5/2^+$	351 580	$3/2^+$ $5/2^+$
466 35 4	18 4 15	479 777	$3/2^+$ $5/2^+$	13 497	3/2, 3/2 $3/2^+$
480.1 4	12.4	479.777	$3/2^+, 5/2^+$	0.0	$1/2^+$
507.2 7	1.5 4	797.16	$1/2^+, 3/2$	289.531	$3/2^+, 5/2^+$
526.55 5	18.5 13	540.053	$1/2^+$	13.497	3/2+
539.6 <i>3</i>	6.0 15	709.981	$1/2^{(+)}.3/2$	170.958	3/2+.5/2
540.21 17	10.7 20	540.053	1/2+	0.0	$1/2^+$
554.2 5	2.6 17	567.546	5/2+	13.497	$3/2^+$
555.34 6	17.5 12	568.85	1/2+	13.497	3/2+
559.4 2	1.3 5	797.16	$1/2^+, 3/2$	237.732	3/2+,5/2+
560.3 5	3.8 16	854.07	1/2+,3/2	293.786	1/2+,3/2,5/2+
567.4 <i>3</i>	9.5 10	567.546	5/2+	0.0	1/2+
569.17 7	6.7 <i>6</i>	1109.23	3/2+	540.053	1/2+
583.96 <i>3</i>	15.8 20	902.842	$1/2^{(+)}, 3/2$	318.858	$1/2^+, 3/2^+, 5/2^+$
586.40 <i>14</i>	11 <i>I</i>	586.47	1/2,3/2	0.0	$1/2^{+}$
603.69 15	2.6 5	1229.84	3/2,5/2	626.36	7/2,9/2
608.21 2	14.1 25	902.842	$1/2^{(+)}, 3/2$	294.586	$1/2^{+}$
616.78 <i>14</i>	1.7 3	1447.28	$3/2^{(+)},(1/2)$	830.43	$7/2^+,(9/2)^+$
620.8 ^{&} 3	1.2 ^{&} 3	909.83	3/2 ⁺ ,5/2 ⁺ ,(1/2)	289.531	3/2+,5/2+
620.8 ^{&} 3	1.2 ^{&} 3	914.19	7/2,9/2+	293.786	1/2+,3/2,5/2+
623.4 5	4.7 <i>3</i>	914.19	7/2,9/2+	289.531	3/2+,5/2+
626.17 10	2.2 8	797.16	$1/2^+, 3/2$	170.958	3/2+,5/2
630.1 4	1.1 6	867.78		237.732	$3/2^+, 5/2^+$
631.79 <i>10</i>	2.6 3	1199.41	$1/2^{(+)}, 3/2, 5/2$	567.546	5/2+
^x 634.6 2	1.5 8		<i>(</i>)		
636.7 2	1.6 3	1447.28	$3/2^{(+)},(1/2)$	810.60	$1/2^{(+)}, 3/2, 5/2^{+}$
639.62 7	3.8 14	810.60	$1/2^{(+)}, 3/2, 5/2^{+}$	170.958	3/2+,5/2
^x 645.7 2	3.9 <i>3</i>				
^x 651.1 3	2.9 6				
652.5 2	0.9 2	823.09	$1/2^{(+)}, 3/2, 5/2^{(+)}$	170.958	3/2+,5/2
^x 657.9 4	0.9 3				
664.9 2	3.4 14	902.842	$1/2^{(+)}, 3/2$	237.732	3/2+,5/2+
^x 679.4 3	2.7 3				
682.9 2	4.7 4	854.07	$1/2^+, 3/2$	170.958	3/2+,5/2
691.7 <i>3</i>	4.3 3	1011.01	$1/2^{(+)},(3/2)$	318.858	$1/2^+, 3/2^+, 5/2^+$
695.0 <i>5</i>	11 5	1047.05	1/2+	351.589	3/2+,5/2+

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$\gamma(^{101}\text{Mo})$ (continued)

100 Mo(n, γ) E=th:secondary 1	.990Se17 ((continued)
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					$\gamma(^{101}\text{Mo})$ (continued)
E_{γ}	$I_{\gamma}^{\dagger \ddagger}$	E _i (level)	J_i^π	E_f	${\sf J}_f^\pi$
606 2 2	10.2	867.78		170.058	3/2+ 5/2
607.7.2	3 2	1281.22	3/2+5/2(+)	583 30	$\frac{3}{2}, \frac{3}{2}$
x707 5 3	283	1201.22	5/2 ,5/2	303.39	1/2 ,9/2
716 41 7	2.0 5	1011.01	1/2(+) (3/2)	204 586	1/2+
710.41 7	12 2 14	1100.41	$1/2^{(+)}, (3/2)$ $1/2^{(+)}, 2/2, 5/2$	470 777	$\frac{1}{2}$ $\frac{2}{2^{+}} \frac{5}{2^{+}}$
719.07 7	15.2 14	1199.41	$1/2^{-}, 3/2, 3/2$	4/9.///	3/2, 3/2 $1/2^+$
722.44 0	115	074.78	$\frac{3/2}{1/2^{(+)}}$ $\frac{3/2}{5/2^{(+)}}$	200.05	$\frac{1}{2}$ $\frac{2}{2^{+}} \frac{5}{2^{+}}$
740.3.2	4.50	974.78 797.16	$1/2^{+}, 3/2, 3/2^{+}$ $1/2^{+}, 3/2$	57 015	3/2, $3/23/2+5/2+$
753 8 2	130	810.60	1/2, $3/21/2(+)$ $3/2$ $5/2+$	57.015	3/2, 3/2 3/2+5/2+
757.8.2	208	1100.23	$\frac{1}{2}, \frac{3}{2}, \frac{3}{2}, \frac{3}{2}$	351 580	3/2, 3/2 $3/2^+, 5/2^+$
760 1 3	2.90 229	1054 34	1/2 3/2 5/2+	294 586	1/2+
765.0.2	7.2	1116.86	$3/2^{(+)} 5/2 (1/2)$	351 580	$3/2^+$ $5/2^+$
783.6.3	389	797.16	$\frac{3}{2} + \frac{3}{2}, \frac{1}{2}, \frac{1}{2}$	13 497	3/2+
790.0.5	278	1109.23	$3/2^+$	318 858	$1/2^+$ $3/2^+$ $5/2^+$
797.10 21	6.0.5	854.07	$1/2^+.3/2$	57.015	$3/2^+, 5/2^+$
^x 806.7 2	3.1 6		-1- ,-1-		-/- ,-/-
810.8 4	5.3.3	810.60	$1/2^{(+)}.3/2.5/2^{+}$	0.0	1/2+
814.9 2	1.7 4	1109.23	3/2+	294.586	1/2+
823.08 6	6.0 15	823.09	$1/2^{(+)}, 3/2, 5/2^{(+)}$	0.0	1/2+
840.63 15	3.4 7	854.07	$1/2^+, 3/2$	13.497	3/2+
853.1 <i>3</i>	5.7 4	909.83	$3/2^+, 5/2^+, (1/2)$	57.015	3/2+,5/2+
854.1 2	5.3 7	854.07	1/2+,3/2	0.0	1/2+
902.98 10	5.3 4	902.842	$1/2^{(+)}, 3/2$	0.0	1/2+
918.5 5	52	974.78	$1/2^{(+)}, 3/2, 5/2^{(+)}$	56	≥7/2
^x 924.51 15	3.3 <i>3</i>				
926.3 5	4 2	984.17	3/2+,5/2+	57.015	3/2+,5/2+
^x 929.1 2	4.6 4				
940.4 5	6.7 7	1229.84	3/2,5/2	289.531	3/2+,5/2+
962.4 2	4.4 4	1281.22	$3/2^+, 5/2^{(+)}$	318.858	$1/2^+, 3/2^+, 5/2^+$
967.9 <i>3</i>	13.4 15	1447.28	$3/2^{(+)},(1/2)$	479.777	3/2+,5/2+
970.9 2	11.2 25	984.17	3/2+,5/2+	13.497	3/2+
972.6 3	32.2	1291.25	3/2-	318.858	$1/2^+, 3/2^+, 5/2^+$
^x 973.4 3	9.6 18		(.)		
997.58 10	1.8 4	1011.01	$1/2^{(+)},(3/2)$	13.497	3/2+
^x 1007.8 2	4.7 5				
^{*1025.02} 10	3.8 4	1240 71	1/2 2/2	210.050	1/0+ 2/2+ 5/2+
1030.85 10	9.3 5	1349.71	1/2, 3/2	518.858	1/2, 3/2, 5/2
1042.6.5	12.0 20	1098.99	$1/2^{(+)}, 3/2$	57.015	5/2',5/2'
1052.8 3	8.00 705	1109.23	$\frac{3}{2}$	50	$\geq 1/2$ 1/2 ⁺
1034.4 3 X1074 8 2	1.0.5	1034.34	1/2,3/2,3/2	0.0	$1/\angle$
10/4.0 2	0.52	1008 00	1/2(+) 2/2	12 407	2/2+
1084.8 0	2.0 10	1098.99	1/2:17,3/2	15.497	S/Z

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					¹⁰⁰ Mo(\mathbf{n}, γ) E=th	n:secondary	1990Se17	(continued)			
						$\gamma(^{101}\text{Mo})$ (cont	nued)				
Eγ	$I_{\gamma}^{\dagger \ddagger}$	E _i (level)	\mathbf{J}_i^{π}	E_f	J_f^π	Eγ	$I_{\gamma}^{\dagger \ddagger}$	E _i (level)	J_i^π	E_f	\mathbf{J}_f^{π}
^x 1097.48 10	8.4 4					^x 1235.63 15	1.0 4				
^x 1107.9 2	4.2 5					^x 1278.5 2	0.5 2				
1119.9 <i>3</i>	12 2	1291.25	3/2-	170.958	$3/2^+, 5/2$	x1287.3 3	3.9 5				
1127.8 2	1.5 5	1447.28	$3/2^{(+)},(1/2)$	318.858	$1/2^+, 3/2^+, 5/2^+$	x1300.32 15	6.1 6				
^x 1130.6 2	1.6 6					^x 1315.2 3	1.8 4				
1153.0 <i>3</i>	7.0 8	1447.28	$3/2^{(+)},(1/2)$	294.586	$1/2^{+}$	^x 1405.57 15	5.7 4				
1157.5 3	7.8 8	1447.28	$3/2^{(+)}$.(1/2)	289.531	$3/2^+, 5/2^+$	^x 1433.2 2	13.5 11				
^x 1208.1 2	2.1 5				-1)-1	^x 1440.4 2	2.0 5				
1229.70 10	3.1 4	1229.84	3/2,5/2	0.0	$1/2^{+}$	1447.7 <i>4</i>	3.9 6	1447.28	$3/2^{(+)},(1/2)$	0.0 1	/2+

[†] Absolute photons/1000 n-captures are listed; normalized via the 191 keV in ¹⁰¹Tc decay, the 2% uncertainty in the normalization transition not included.

^{\ddagger} For intensity per 100 neutron captures, multiply by 0.1.

[#] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

[@] Multiply placed with undivided intensity.

[&] Multiply placed with intensity suitably divided.

^{*a*} Placement of transition in the level scheme is uncertain.

 $x \gamma$ ray not placed in level scheme.

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¹⁰¹₄₂Mo₅₉

7

¹⁰⁰Mo(n,γ) E=th:secondary 1990Se17



 $^{101}_{42}\mathrm{Mo}_{59}$

¹⁰⁰Mo(n,γ) E=th:secondary 1990Se17



 $^{101}_{\ 42} Mo_{59}$

Legend

¹⁰⁰Mo(n,γ) E=th:secondary 1990Se17



¹⁰¹₄₂Mo₅₉