4063.70 24

4119.27 16

(7,8)

Adopted Levels, Gammas

	Type Full Evaluat	tion E. A. M	Au	History and A. A. Sonzogni NDS 115, 135 (2014) Literature Cutoff Date 1-Nov-2013
$Q(\beta^{-})=-1.101\times 1$ S(2n)=24719 5; Additional inform α : Additional inf	10 ⁴ 15; S(n)=1 S(2p)=9296 5 nation 1. Formation 2.	13873 5; S(p)= (2012Wa38).	6102 <i>8</i> ; Q	$Q(\alpha) = -3691\ 7\ 2012$ Wa38
				⁸⁸ Mo Levels
				Cross Reference (XREF) Flags
				A ⁸⁸ Tc ε decay (6.4 s) B ⁸⁸ Tc ε decay (5.8 s) C ⁵⁸ Ni(³⁶ Ar, α 2p γ) D ⁵⁸ Ni(⁴⁰ Ca, 2α 2p γ):SD
E(level) [†]	$J^{\pi \ddagger}$	T _{1/2} #	XREF	Comments
0.0@	0^{+}	8.0 min 2	ABC	$\%\varepsilon + \%\beta^+ = 100$ T
740.54 [@] 4 1495.04 ^e 10	2+ 2+	7.14 ps 21	ABC C	$J_{1/2}^{\pi}$: E2 741 γ to 0 ⁺ . J^{π} : $\Delta J=0$, M1+E2 754.5 γ to 2 ⁺ , 1495 γ to 0 ⁺ .
1654.83 [@] 10 2091.90 ^e 20 2100.7 4 2402.14 14	4 ⁺ (3 ⁺) (4 ⁺ ,5 ⁺ ,6 ⁺)	0.97 ps 14	ABC C A C	$J^{\pi}: E2 \ 914\gamma \text{ to } 2^+.$ $J^{\pi}: \ \Delta J=1, \ (M1+E2) \ 597\gamma \text{ to } 2^+.$ $J^{\pi}: \ \log ft=5.4 \text{ from } (5^+,6^+,7^+), \ 446\gamma \text{ to } 4^+.$
2626.80 [@] 12	6+	8.0 ps <i>3</i>	A C	g=+0.54 26 J^{π} : E2 972 γ to 4 ⁺ , band member. g: from IMPAD technique (1995We03). Mean g-factor for the 6 ⁺ and 8 ⁺ vrast states, dominated by the 8 ⁺ g-factor.
2646.42 ^{&} 13 2672.0 ^e 3 2903.93 16	5- (5 ⁺)	13.7 ps 3	C C C	J^{π} : E1 992 γ to 4 ⁺ , no γ 's to 2 ⁺ . J^{π} : (E2) 580 γ to (3 ⁺).
2963.01 <i>13</i> 3046.9 <i>3</i>	(6 ⁺)		C C	J^{π} : (E2) 1308 γ to 4 ⁺ , 387 γ from 7 ⁻ .
3187.61 16	(6)		С	J^{π} : D 541 γ to 5 ⁻ .
3212.91 [@] 15	8+	22.2 ps <i>3</i>	С	 g=+0.54 26 J^π: E2 586γ to 6⁺, band member. g: from IMPAD technique (1995We03). Mean g-factor for the 6⁺ and 8⁺ yrast states, dominated by the 8⁺ g-factor.
3213.43 22	(6)		С	J^{π} : D 567 γ to 5 ⁻ .
3349.82 ^{&} 13 3484.63 17 3489.69 15 3642.4 3	7 ⁻ (8 ⁺)	4.6 ps 6 <3.5 ps	C C C C	J^{π} : E2 703 γ to 5 ⁻ , band member. J^{π} : $\Delta J=0$, D(+Q) 272 γ to 8 ⁺ , 711 γ from 10 ⁺ .
3662.92 16	9-		Ċ	J^{π} : E2 313 γ to 7 ⁻ .
3816.14 20	(8 ⁺)		С	J^{π} : 1189 γ to 6 ⁺ , 795 γ from (10 ⁺).

C J^{π} : 1189 γ to 6⁺, 795 γ from (10⁺). C J^{π} : 876 γ to (6). C

4195.18I710+4.37 ps 7C J^{π} : E2 982 γ to 8+, band member.4313.82I59-2.6 ps 3C J^{π} : E2 964 γ to 7-, band member.4358.17 I7(10+)C J^{π} : E2 873.5 γ to (8+).

⁸⁸Mo Levels (continued)

E(level) [†]	Jπ‡	T _{1/2} #	XREF	Comments
4611.15 19	(10^{+})		С	J^{π} : $\Delta J=0$, D(+Q) 253 γ to (10 ⁺), 795 γ to (8 ⁺).
4822.35 19			С	
4988.7 4			С	
5052.49 [@] 18	12^{+}	18.0 ps 14	С	J^{π} : E2 857 γ to 10 ⁺ , band member.
5153.45 ^{&} 16	11-	1.2 ps 3	С	J^{π} : E2 840 γ to 9 ⁻ , band member.
5270.0 <i>3</i>			C	
5272.37 19	(12^+)	0.55 ps 14	C	J^{π} : (E2) 1077 γ to 10 ⁺ .
5387.58 19	(12^{+})		C	J^{*} : (E2) 1192 γ to 10 ⁺ .
5959.27° 19	14+	5.67 ps 6	C	J^{π} : E2 90/ γ to 12 ⁺ , band member.
5969.75° 19	13-	0.90 ps 14	C	J^{π} : E2 816 γ to 11 ⁻ , band member.
6206.95 19	(14')	1.80 ps 14	C	J^{π} : (E2) 935 γ to (12 ⁺).
6549.44 <i>19</i>	(15)	0.49 ps 14	C	$J^{*}: \Delta J = 1, (M1 + E2) 390 \gamma$ to 14°.
6868.26 ^{cc} 21	15	3.54 ps 21	C	J^{*} : E2 898.5 γ to 13, band member.
6944.73 [©] 21	(16) ⁺	<0.6 ps	C	J^{π} : $\Delta J=1$, M1+E2 395 γ to (15) ⁺ , band member.
6947.96 22	(16)	-0.25	C	$J^{A}: \Delta J=1, D+Q 398.5\gamma$ to (15) ⁺ .
7322.79 21	(10^{-1})	<0.35 ps	C	J^{*} : (E2) 1110 γ to (14 ⁺).
7550.24 21	$(17)^{+}$		c	I^{π} : (F2) 1216v to (15) ⁺
7848 47 & 23	17-	1 25 ps 7	C	I^{π} : F2 980 μ to 15 ⁻ band member
910722 01	$(10)^+$	1.25 ps /	c	$\pi_{\rm L}$ AL=1 M1(+E2) 262 μ to (17) ⁺ E2 1192 μ to (16) ⁺
8127.55 21	(18) $(17)^{-}$	<0.55 ps	C	J^{-1} : $\Delta J = 1$, $W1(\pm E2) 302\gamma$ to $(17)^{-1}$, $E2 1185\gamma$ to $(10)^{-1}$. I^{π} : $M1\pm E2 419\gamma$ to $17^{-1} 400\gamma$ to 15^{-1}
8609.4.3	$(17)^{-}$	<0.5 ps	c	J^{π} : $\Lambda J=1$. (M1+E2) 761 γ to 17 ⁻ .
8931.3 3	(10)	tone po	č	
8968.1 <i>3</i>	(19)		С	J^{π} : $\Delta J=1$, D+Q 359 γ to (18) ⁻ .
9336.4 3	(19)-		С	J^{π} : $\Delta J=1$, (M1+E2) 727 γ to (18) ⁻ , 1488 γ to 17 ⁻ .
9400.24 [@] 24	$(20)^{+}$		С	J^{π} : (E2) 1273 γ to (18) ⁺ .
9472.0 <i>3</i>	$(20)^+$		С	J^{π} : (E2) 1345 γ to (18) ⁺ .
9710.8 <i>3</i>			C	
9829.1 3	$(20)^{-}$		C	J^{π} : (E2) 1220 γ to (18) ⁻ .
10181.0 4	(21)		C	I^{π} , $AI = 1$, $D = 0.275 \alpha$ to (20)
10203.7 3	(21)		c	$J : \Delta J = 1, D + Q J J J V (0 (20)).$
11079.6.3	$(22)^{+}$		c	
11616.5 3	(23)		Ċ	J^{π} : (E2) 1413 γ to (21).
x ^a	J1		D	
x+1237.6 ^{<i>a</i>} 4	J1+2		D	
$x+2579.7^{a}$ 5	J1+4		D	
$x + 4060.4^{a} 5$	J1+6		D	
$x+5693.9^{4}$ 6	J1+8		D	
$X + 7489.4^{\circ}$ 0 x + 0.451.69 7	J1+10 I1+12		D D	
$x + 9431.0^{a}$ /	J1 + 12 I1 + 14		ע ת	
$x + 13891.6^{a}.14$	11 + 16		ם ח	
v ^b	J2		D	
$v+1458.6^{b}8$	J2+2		D	
$v+3054.2^{b}$ 11	J2+4		ے D	
$v+4797 3^{b} 12$	J2+6		л Л	
$v + 6692 \ 2^{b} \ 13$	12+8		ק	
$y + 8746 h^{b} 16$	12 ± 10		ע ת	
$y = 10070 - \frac{10}{2} 22$	$J_2 = 10$ $I_2 = 12$		ע ה	
$y \pm 10970.7^{\circ} 22$	J2+12 I3		ע ח	
L	30		2	

⁸⁸Mo Levels (continued)

E(level) [†]	J ^{π‡}	XREF	E(level) [†]	J ^π ‡	XREF	E(level) [†]	$J^{\pi \ddagger}$	XREF
z+1259.1 ^c 12	J3+2	D	z+9627 ^c 4	J3+12	D	u+2978.4 ^d 13	J4+4	D
z+2641.7 ^c 18	J3+4	D	z+11761 ^c 4	J3+14	D	u+4684.6 ^d 16	J4+6	D
z+4164.6 ^c 25	J3+6	D	z+14058 ^c 5	J3+16	D	u+6543.5 ^d 19	J4+8	D
z+5834 ^c 3	J3+8	D	u ^d	J4	D	u+8539.1 ^d 23	J4+10	D
z+7651 ^c 3	J3+10	D	u+1417.6 ^d 9	J4+2	D	u+10628? ^d 3	J4+12	D

[†] From least-squares fit to $E\gamma$ by evaluators.

[‡] For levels populated in ⁵⁸Ni(36 Ar, $\alpha 2p\gamma$) all E2 transitions are of stretched character and spin assignments are made under the assumption of increasing spin with increasing excitation energy, except where noted.

[#] From Recoil distance Doppler-shift measurements in 58 Ni(36 Ar, $\alpha 2p\gamma$).

[@] Band(A): Yrast band.

[&] Band(B): Negative parity cascade.

^a Band(C): SD-1 band (1999Bb13,2003La24,2004La21). Q(intrinsic)=5.2 3 (2003La24), 6.0 +20-14 (1999Bb13).

Configuration= $\pi 1/2[431]^{-1}5^1$; $\pi = -$, $\alpha = 1$ (1999Bb13); $\nu 5^2 \pi 5^1$ or $\nu 5^2 \pi 5^0$ (2003La24). Percent population $\approx 1\%$ of the reaction channel.

^b Band(D): SD-2 band (1999Bb13,2003La24,2004La21). Q(intrinsic)=7.6 +53-17 (2003La24). Configuration= $\pi 5/2[422]^{-1}5^{1}$; $\pi = -$ (1999Bb13,2004La21) Percent population $\approx 0.3\%$ of the reaction channel.

^{*c*} Band(E): SD-3 band (1999Bb13,2004La21). Configuration= $\pi 5/2[422]^{-1}5^1$; π =-. SD-2 and SD-3 bands are interpreted as signature partners. This band is isospectral with SD band in ⁸⁹Tc (2004La21). Percent population $\approx 0.3\%$ of the reaction channel.

^{*d*} Band(F): SD-4 band (2004La21). This band is assigned as SD "vacuum" configuration (2004La21). Percent population $\approx 0.3\%$ of the reaction channel.

^e Band(G): Quasi-gamma vibrational band (2007An21).

						Adopted Le	evels, Gammas (c	ontinued)
							<u>γ(⁸⁸Mo)</u>	
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Mult.@	α	Comments
740.54	2+	740.54 4	100	0.0	0+	E2	1.60×10^{-3}	$\alpha(K)=0.001404\ 20;\ \alpha(L)=0.0001624\ 23;\ \alpha(M)=2.90\times10^{-5}\ 4;\alpha(N)=4.39\times10^{-6}\ 7;\ \alpha(O)=2.39\times10^{-7}\ 4$ B(E2)(Wu)=15.3.5
1495.04	2+	754.5 1	100 7	740.54	2+	M1+E2	0.00151 3	$\alpha(K)=0.001327\ 22;\ \alpha(L)=0.000151\ 5;\ \alpha(M)=2.70\times10^{-5}\ 8;\alpha(N)=4.10\times10^{-6}\ 10;\ \alpha(O)=2.29\times10^{-7}\ 4$
		1495.0 6	14 5	0.0	0^{+}			
1654.83	4+	914.28 9	100	740.54	2+	E2	9.52×10 ⁻⁴	$\begin{aligned} &\alpha(\mathbf{K}) = 0.000836 \ 12; \ \alpha(\mathbf{L}) = 9.53 \times 10^{-5} \ 14; \ \alpha(\mathbf{M}) = 1.702 \times 10^{-5} \ 24; \\ &\alpha(\mathbf{N}) = 2.58 \times 10^{-6} \ 4 \\ &\alpha(\mathbf{O}) = 1.433 \times 10^{-7} \ 20 \\ &\mathbf{B}(\mathbf{E}2)(\mathbf{W}.\mathbf{u}.) = 39 \ 6 \end{aligned}$
2091.90	(3+)	596.9 2	100 12	1495.04	2+	(M1+E2)	0.00270 16	$\alpha(K)=0.00237 \ 13; \ \alpha(L)=0.000274 \ 21; \ \alpha(M)=4.9\times10^{-5} \ 4; \ \alpha(N)=7.4\times10^{-6} \ 6; \ \alpha(O)=4.08\times10^{-7} \ 16$
		1351.2 4	62 12	740.54	2+	(M1+E2)	4.49×10 ⁻⁴ 11	$\alpha(K)=0.000365 \ 12; \ \alpha(L)=4.06\times10^{-5} \ 12; \ \alpha(M)=7.24\times10^{-6} \ 21; \ \alpha(N)=1.10\times10^{-6} \ 4; \ \alpha(O)=6.31\times10^{-8} \ 24$
2100.7	$(4^+, 5^+, 6^+)$	445.9 4	100	1654.83	4+			
2402.14		907.1 ^{&} 1	100	1495.04	2+			
2626.80	6+	971.93 9	100	1654.83	4+	E2	8.25×10 ⁻⁴	α (K)=0.000725 <i>11</i> ; α (L)=8.24×10 ⁻⁵ <i>12</i> ; α (M)=1.470×10 ⁻⁵ <i>21</i> ; α (N)=2.23×10 ⁻⁶ <i>4</i> α (O)=1.244×10 ⁻⁷ <i>18</i> B(E2)(W.u.)=3.51 <i>14</i>
2646.42	5-	991.6 <i>1</i>	100	1654.83	4+	E1	3.37×10 ⁻⁴	α (K)=0.000297 5; α (L)=3.28×10 ⁻⁵ 5; α (M)=5.84×10 ⁻⁶ 9; α (N)=8.89×10 ⁻⁷ 13; α (O)=5.06×10 ⁻⁸ 7 B(E1)(W.u.)=2.56×10 ⁻⁵ 6
2672.0	(5 ⁺)	580.1 2	100	2091.90	(3 ⁺)	(E2)	0.00309	α (K)=0.00270 4; α (L)=0.000319 5; α (M)=5.70×10 ⁻⁵ 8; α (N)=8.60×10 ⁻⁶ 12; α (O)=4.57×10 ⁻⁷ 7
2903.93		257.5 1	100	2646.42	5-			
2963.01	(6+)	1308.2 1	100	1654.83	4+	(E2) ^{<i>a</i>}	4.58×10^{-4}	α (K)=0.000379 6; α (L)=4.24×10 ⁻⁵ 6; α (M)=7.56×10 ⁻⁶ 11; α (N)=1.151×10 ⁻⁶ 17; α (O)=6.51×10 ⁻⁸ 10
3046.9		955.0 ^{&} 2	100	2091.90	(3+)			
3187.61	(6)	541.2 <i>I</i>	100	2646.42	5-	D	0.00000	
3212.91	8+	586.1 <i>1</i>	100	2626.80	6	E2	0.00300	$\alpha(\mathbf{K})=0.00263 \ 4; \ \alpha(\mathbf{L})=0.000310 \ 5; \ \alpha(\mathbf{M})=5.54\times10^{-3} \ 8; \\ \alpha(\mathbf{N})=8.34\times10^{-6} \ 12; \ \alpha(\mathbf{O})=4.44\times10^{-7} \ 7 \\ \mathbf{B}(\mathbf{E2})(\mathbf{W}.\mathbf{u}.)=15.81 \ 22$
3213.43	(6)	567.0 2	100	2646.42	5-	D		-
3349.82	7-	386.9 2	3.0 3	2963.01	(6+)	[E1]	0.00281	$\begin{aligned} &\alpha(\text{K}) = 0.00247 \ 4; \ \alpha(\text{L}) = 0.000278 \ 4; \ \alpha(\text{M}) = 4.94 \times 10^{-5} \ 7; \\ &\alpha(\text{N}) = 7.49 \times 10^{-6} \ 11; \ \alpha(\text{O}) = 4.14 \times 10^{-7} \ 6 \\ &\text{B}(\text{E1})(\text{W.u.}) = 3.3 \times 10^{-5} \ 5 \end{aligned}$
		445 ^{&}		2903.93				
		703.4 ^{&} 1	<100	2646.42	5-	E2	0.00183	$\begin{aligned} &\alpha(\mathrm{K}) = 0.001604 \ 23; \ \alpha(\mathrm{L}) = 0.000186 \ 3; \ \alpha(\mathrm{M}) = 3.33 \times 10^{-5} \ 5; \\ &\alpha(\mathrm{N}) = 5.03 \times 10^{-6} \ 7; \ \alpha(\mathrm{O}) = 2.73 \times 10^{-7} \ 4 \\ &\mathrm{B}(\mathrm{E2})(\mathrm{W.u.}) < 27.1 \end{aligned}$

4

						Adopted	d Levels	, Gammas (co	ntinued)
							γ(⁸⁸ Μα	b) (continued)	
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	\mathbf{E}_{f}	\mathbf{J}_{f}^{π}	Mult.@	δ ^e	α	Comments
3349.82	7-	723.0 1	10.3 3	2626.80	6+	E1		6.39×10 ⁻⁴	$\alpha(K)=0.000564 \ 8; \ \alpha(L)=6.26\times10^{-5} \ 9; \ \alpha(M)=1.114\times10^{-5} \ 16; \\ \alpha(N)=1.695\times10^{-6} \ 24; \ \alpha(O)=9.57\times10^{-8} \ 14$
3484.63	(8 ⁺)	271.7 <i>I</i>	100	3212.91	8+	M1(+E2)	<0.6	0.0195 22	B(E1)(W.u.)=1.76×10 ⁻⁵ 24 Mult.: D from R(DCO), $\Delta\pi$ =yes from level scheme. δ: δ(M2/E1)=+0.06 9. α(K)=0.0171 19; α(L)=0.0020 3; α(M)=0.00036 5; α(N)=5.5×10 ⁻⁵ 8; α(O)=3.0×10 ⁻⁶ 3 B(M1)(W.u.)>0.23 Mult.: D(+Q) from R(DCO) in ⁵⁸ Ni(³⁶ Ar,α2pγ), $\Delta\pi$ =no from level scheme.
3489.69		585 x 843 3 1	<34 100-3	2903.93 2646.42	5-				
3642.4		454.8 3	100 5	3187.61	(6)				
3662.92	9-	313.1 1	100	3349.82	7-	E2		0.0209	$\alpha(K)=0.0181 \ 3; \ \alpha(L)=0.00232 \ 4; \ \alpha(M)=0.000415 \ 6; \ \alpha(N)=6.17\times10^{-5} \ 9; \ \alpha(O)=2.96\times10^{-6} \ 5$
3816.14 4063.70	(8 ⁺) (7,8)	1189.2 ^{&} 3 850.2 4 876.1 2	100 45 9 100 <i>18</i>	2626.80 3213.43 3187.61	6 ⁺ (6) (6)				
4119.27	10+	629.6 [°] 1	100	3489.69	(0+)				
4195.18	10+	982.3 <i>1</i>	<2 100.0 <i>11</i>	3484.63 3212.91	(8 ⁺) 8 ⁺	E2		8.05×10 ⁻⁴	α (K)=0.000708 <i>10</i> ; α (L)=8.03×10 ⁻⁵ <i>12</i> ; α (M)=1.433×10 ⁻⁵ <i>20</i> ; α (N)=2.18×10 ⁻⁶ <i>3</i>
									$\alpha(O)=1.214\times10^{-7}$ 17 $P(E_2)(W_W)=6.02$ 15
4313.82	9-	964.0 <i>1</i>	100.0 9	3349.82	7-	E2		8.41×10^{-4}	$\alpha(K) = 0.000739 \ 11; \ \alpha(L) = 8.40 \times 10^{-5} \ 12; \ \alpha(M) = 1.499 \times 10^{-5} \ 21; \ \alpha(N) = 2.27 \times 10^{-6} \ 4$
									$\alpha(O) = 1.267 \times 10^{-7} \ 18$
		1100.8 2	2.8.3	3212.91	8+	[E1]		2.82×10^{-4}	B(E2)(W.u.)=10.9 13 $\alpha(K)=0.000244$ 4; $\alpha(L)=2.69\times10^{-5}$ 4; $\alpha(M)=4.78\times10^{-6}$ 7;
		1100.0 2	2.0 5	5212.91	0	[[]]		2.02/(10	$\alpha(N) = 7.29 \times 10^{-7} \ 11; \ \alpha(O) = 4.16 \times 10^{-8} \ 6$
4358.17	(10 ⁺)	163.0 <i>1</i>	54.5 23	4195.18	10+	M1(+E2)	<1.1	0.10 4	B(E1)(W.u.)=2.7×10 ⁻⁶ 5 α (K)=0.09 4; α (L)=0.012 6; α (M)=0.0022 10; α (N)=0.00032 14; α (O)=1.5×10 ⁻⁵ 5
		97251	100 0 22	2181 62	(9^+)	E)		1.06×10^{-3}	Mult.: D(+Q) from R(DCO), $\Delta \pi$ =no from level scheme.
		013.3 1	100.0 23	3464.03	(0)	E2		1.00X10 ³	$\alpha(N) = 0.000932 \ I3; \ \alpha(L) = 0.0001000 \ I3; \ \alpha(N) = 1.90\times 10^{-5} \ 3; \ \alpha(N) = 2.88 \times 10^{-6} \ 4 \ \alpha(O) = 1.596 \times 10^{-7} \ 2.3$
4611.15	(10 ⁺)	253.0 1	100 6	4358.17	(10+)	M1(+E2)	<0.5	0.0231 23	α(K)=0.0202 20; α(L)=0.0024 3; α(M)=0.00043 6; α(N)=6.5×10-5 8; α(O)=3.5×10-6 3 Mult.: D(+Q) from R(DCO) in 58Ni(36Ar,α2pγ), Δπ=no from level scheme.

From ENSDF

 $^{88}_{42}{
m Mo}_{46}$ -5

L

$\gamma(^{88}Mo)$ (continued)

E_i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult. [@]	δ ^e	α	Comments
4611.15	(10^{+})	795.0 1	94 6	3816.14 (8+)				
4822.35		703 ^{&}	100	4119.27				
4988.7		925.0 <i>3</i>	100	4063.70 (7,8)				
5052.49	12^{+}	441		4611.15 (10 ⁺)				
		694.3 <i>1</i>	7.0 4	4358.17 (10 ⁺)	[E2]		0.00189	$\alpha(K)=0.001659\ 24;\ \alpha(L)=0.000193\ 3;\ \alpha(M)=3.45\times10^{-5}\ 5;\ \alpha(N)=5.21\times10^{-6}\ 8;\ \alpha(O)=2.82\times10^{-7}\ 4$ B(F2)(Wu)=0.55.6
		857.3 1	100.0 11	4195.18 10+	E2		1.11×10 ⁻³	$\alpha(K)=0.000975 \ 14; \ \alpha(L)=0.0001116 \ 16; \ \alpha(M)=1.99\times10^{-5} \ 3; \\ \alpha(N)=3.02\times10^{-6} \ 5 \\ \alpha(O)=1.669\times10^{-7} \ 24 \\ B(E2)(W,u)=2.73 \ 22 $
5153.45	11-	331.1 <i>1</i>		4822.35				
		839.6 1	100.0 <i>10</i>	4313.82 9-	E2		1.17×10 ⁻³	$\alpha(K)=0.001026 \ 15; \ \alpha(L)=0.0001176 \ 17; \ \alpha(M)=2.10\times10^{-5} \ 3; \ \alpha(N)=3.18\times10^{-6} \ 5 \ \alpha(O)=1.755\times10^{-7} \ 25 \ B(E2)(W.u.)=46 \ 12$
		1034.2 <i>1</i>	5.4 <i>3</i>	4119.27				
5270.0		956.2 ^{&} 3	100	4313.82 9-				
5272.37	(12^{+})	914 <mark>&</mark>		4358.17 (10 ⁺)				
	. ,	1077.2 <i>1</i>	100 3	4195.18 10+	(E2) ^b		6.53×10 ⁻⁴	α (K)=0.000575 8; α (L)=6.49×10 ⁻⁵ 9; α (M)=1.158×10 ⁻⁵ 17; α (N)=1.759×10 ⁻⁶ 25; α (O)=9.87×10 ⁻⁸ 14 B(E2)(W,u)=30 8
5387.58	(12 ⁺)	1192.4 <i>1</i>	100	4195.18 10+	(E2) ^{<i>a</i>}		5.30×10^{-4}	α (K)=0.000461 7; α (L)=5.18×10 ⁻⁵ 8; α (M)=9.23×10 ⁻⁶ 13; α (N)=1.404×10 ⁻⁶ 20; α (O)=7.91×10 ⁻⁸ 11
5959.27	14+	571.7 <i>1</i>	7.5 4	5387.58 (12 ⁺)	(E2) ^b		0.00322	$\alpha(\mathbf{K})=0.00282 \ 4; \ \alpha(\mathbf{L})=0.000333 \ 5; \ \alpha(\mathbf{M})=5.95\times10^{-5} \ 9; \\ \alpha(\mathbf{N})=8.97\times10^{-6} \ 13; \ \alpha(\mathbf{O})=4.76\times10^{-7} \ 7 \\ \mathbf{B}(\mathbf{F}2)(\mathbf{W} _{\mathbf{L}})=4.9 \ 3$
		906.8 1	100.0 12	5052.49 12+	E2 ^b		9.70×10 ⁻⁴	$\alpha(K)=0.000853 \ l2; \ \alpha(L)=9.73\times10^{-5} \ l4; \ \alpha(M)=1.736\times10^{-5} \ 25; \\ \alpha(N)=2.63\times10^{-6} \ 4 \\ \alpha(O)=1.461\times10^{-7} \ 21$
		0			,			B(E2)(W.u.)=6.51 13
5969.75	13-	816.3 ^{&} 1	100	5153.45 11-	E2 ^b		1.25×10^{-3}	$\alpha(K)=0.001099 \ 16; \ \alpha(L)=0.0001262 \ 18; \ \alpha(M)=2.25\times10^{-5} \ 4; \ \alpha(N)=3.41\times10^{-6} \ 5; \ \alpha(O)=1.88\times10^{-7} \ 3$
6206.95	(14+)	247.7 1	20.8 14	5959.27 14+	M1(+E2)	<0.7	0.026 4	B(E2)(W.u.)=75 12 α (K)=0.023 4; α (L)=0.0027 6; α (M)=0.00049 10; α (N)=7.4×10 ⁻⁵ 14; α (O)=3.9×10 ⁻⁶ 5 B(M1)(W.u.)>0.07 Mult.: D(+Q) from comparison to RUL, Δπ=no from level scheme
		934.6 <i>1</i>	100 3	5272.37 (12+)	(E2) ^b		9.03×10 ⁻⁴	$\alpha(K)=0.000794 \ 12; \ \alpha(L)=9.04\times10^{-5} \ 13; \ \alpha(M)=1.614\times10^{-5} \ 23; \ \alpha(N)=2.45\times10^{-6} \ 4$

6

						Adopted	Levels, Gan	nmas (continu	red)	
γ ⁽⁸⁸ Mo) (continued)										
E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	E_f	\mathbf{J}_f^{π}	Mult. [@]	δ^{e}	α	Comments	
6206.95	(14 ⁺)	1154.4 <i>1</i>	27.8 14	5052.49 1	2+	[E2]		5.64×10 ⁻⁴	$\begin{aligned} &\alpha(\text{O})=1.361\times10^{-7} \ 19\\ &\text{B(E2)(W.u.)}=12.7 \ 11\\ &\alpha(\text{K})=0.000494 \ 7; \ \alpha(\text{L})=5.56\times10^{-5} \ 8; \ \alpha(\text{M})=9.91\times10^{-6}\\ &14; \ \alpha(\text{N})=1.507\times10^{-6} \ 22; \ \alpha(\text{O})=8.48\times10^{-8} \ 12\\ &\text{B(E2)(W.u.)}=1.23 \ 12 \end{aligned}$	
6549.44	$(15)^+$	342.5 1	10.1 5	6206.95 (14+)					
		590.2 1	100.0 10	5959.27 1	4+	(M1+E2) ^C	-0.05 3	0.00262	$\alpha(K)=0.00230 \ 4; \ \alpha(L)=0.000260 \ 4; \ \alpha(M)=4.64\times10^{-5} \ 7; \ \alpha(N)=7.08\times10^{-6} \ 10; \ \alpha(O)=4.04\times10^{-7} \ 6$ B(M1)(W.u.)=0.20 $\ 6$ $\delta: -0.05 \ 3 \ or \ -4.0 \ 4$, the latter is excluded by comparison to RUL.	
6868.26	15-	898.5 1	100	5969.75 1	3-	E2 ^b		9.92×10 ⁻⁴	$\alpha(K)=0.000872 \ 13; \ \alpha(L)=9.95\times10^{-5} \ 14; \\ \alpha(M)=1.775\times10^{-5} \ 25; \ \alpha(N)=2.69\times10^{-6} \ 4 \\ \alpha(O)=1.493\times10^{-7} \ 21 \\ B(E2)(Wu)=11 \ 7 \ 7 $	
6944.73	(16)+	395.2 1	100.0 9	6549.44 (15)+	M1+E2		0.0083 15	$ \alpha(K)=0.0072 I3; \alpha(L)=0.00087 I9; \alpha(M)=0.00015 4; \alpha(N)=2.3×10-5 5; \alpha(O)=1.23×10-6 I8 δ: 0.0 4 or -5.2 +9-13. Mult.: D+Q from R(DCO) in 58Ni(36Ar,α2pγ), Δπ=no from assumed band structure. $	
		985 <mark>&</mark>		5959.27 1	4+					
6947.96	(16)	398.5 1	100	6549.44 ($(15)^+$	D+Q ^C			δ : -0.09 +14-18 or -3.5 +14-33.	
7322.79	(16 ⁺)	1115.8 <i>1</i>	100	6206.95 (14+)	(E2) ^b		6.05×10 ⁻⁴	$\alpha(K)=0.000532 \ 8; \ \alpha(L)=6.00\times10^{-5} \ 9; \\ \alpha(M)=1.069\times10^{-5} \ 15; \ \alpha(N)=1.625\times10^{-6} \ 23; \\ \alpha(O)=9.13\times10^{-8} \ 13 \\ B(E2)(W.u.)>40$	
7350.24 7765.43	(17)+	800.9 <i>1</i> 415.3 <i>1</i> 442.5 ^{&} 2 816 ^{&}	$100 \\ 21.2 \ 15 \\ \approx 106 \\ < 15$	6549.44 (7350.24 7322.79 (6947.96 ((15) ⁺ (16 ⁺)					
		820.4 <i>I</i>	100 3	6944.73 (16)+	M1+E2		1.24×10 ⁻³	α(K)=0.001088 16; α(L)=0.0001234 22; α(M)=2.20×10-5 4; α(N)=3.35×10-6 6; α(O)=1.88×10-7 4 δ: +0.02 6 or -5.6 +13-24. Mult.: D(+Q) from R(DCO) in 58Ni(36Ar,α2pγ), Δπ=no from level scheme.	
		1216.0 <i>1</i>	61 3	6549.44 (15)+	(E2) ^{<i>a</i>}		5.12×10 ⁻⁴	α (K)=0.000442 7; α (L)=4.96×10 ⁻⁵ 7; α (M)=8.84×10 ⁻⁶ 13; α (N)=1.345×10 ⁻⁶ 19; α (O)=7.59×10 ⁻⁸ 11	
7848.47	17-	980.1 <i>1</i>	100	6868.26 1	5-	E2 ^b		8.09×10 ⁻⁴	α (K)=0.000711 <i>10</i> ; α (L)=8.08×10 ⁻⁵ <i>12</i> ; α (M)=1.441×10 ⁻⁵ <i>21</i> ; α (N)=2.19×10 ⁻⁶ <i>3</i>	

 \neg

⁸⁸₄₂Mo₄₆-7

L

Adopted Levels, Gammas (continued) $\gamma(^{88}Mo)$ (continued) Mult.@ E_{γ}^{\dagger} I_{γ}^{\ddagger} E_i (level) J_f^{π} δ^{e} Comments \mathbf{E}_{f} α $\alpha(O) = 1.220 \times 10^{-7} 17$ B(E2)(W.u.)=21.5 12 8127.33 $(18)^+$ $100.0\ 21$ 7765.43 $(17)^+$ M1(+E2) -0.01 4 0.00846 α (K)=0.00743 *11*; α (L)=0.000850 *12*; α (M)=0.0001520 *22*; 361.7 *I* $\alpha(N)=2.31\times10^{-5}$ 4 $\alpha(O)=1.309\times10^{-6}$ 19 B(M1)(W.u.)>0.76 δ : -0.01 4 or -4.8 +8-11, the latter is excluded by comparison to RUL. Mult.: D(+Q) from R(DCO) in ⁵⁸Ni(³⁶Ar, $\alpha 2p\gamma$), $\Delta \pi$ =no from level scheme. $\alpha(K)=0.000469$ 7; $\alpha(L)=5.27\times10^{-5}$ 8; $\alpha(M)=9.40\times10^{-6}$ E2^b 73.4 21 6944.73 (16)+ 5.38×10^{-4} 1182.8 *1* 14; $\alpha(N)=1.429\times10^{-6}$ 20; $\alpha(O)=8.05\times10^{-8}$ 12 B(E2)(W.u.) > 138267.57 $(17)^{-}$ 419.0 1 32 5 7848.47 17-M1+E2 0.0070 12 $\alpha(K)=0.0061 \ 10; \ \alpha(L)=0.00073 \ 14; \ \alpha(M)=0.000130 \ 25;$ $\alpha(N)=2.0\times10^{-5}$ 4; $\alpha(O)=1.05\times10^{-6}$ 14 δ : +1.0 +5-3 or -0.7 3. Mult.: D(+Q) from R(DCO) in 58 Ni(36 Ar, $\alpha 2p\gamma$), $\Delta \pi$ =no from level scheme. 1399.7 2 100.5 6868.26 15- 1.48×10^{-3} 3 $\alpha(K)=0.001300$ 21; $\alpha(L)=0.000148$ 4; $\alpha(M)=2.64 \times 10^{-5}$ 7; 8609.4 $(18)^{-}$ 761.0 *1* 100 7848.47 17- $(M1+E2)^{c}$ $\alpha(N) = 4.01 \times 10^{-6} \ 10; \ \alpha(O) = 2.25 \times 10^{-7} \ 4$ δ : 0.0 3 or -5.0 +5-7. 8931.3 321.9 *1* 100 8609.4 (18)-D+Q^C δ : -0.12 6 or -3.1 +6-8. 8968.1 (19)358.6 1 100 8609.4 $(18)^{-}$ 9336.4 $(19)^{-}$ 727.1 *1* 100 6 (M1+E2) 0.00165 4 $\alpha(K)=0.00145 3; \alpha(L)=0.000165 6; \alpha(M)=2.95\times10^{-5} 10;$ 8609.4 (18)- $\alpha(N)=4.49\times10^{-6}$ 14; $\alpha(O)=2.50\times10^{-7}$ 4 δ : -0.21 +11-14 or -2.4 +7-9. Mult.: D(+Q) from R(DCO) in ⁵⁸Ni(³⁶Ar, α 2p γ), $\Delta\pi$ =no from level scheme. 1487.7 2 65 6 7848.47 17- 4.76×10^{-4} $\alpha(K)=0.000401$ 6; $\alpha(L)=4.49\times10^{-5}$ 7; $\alpha(M)=8.01\times10^{-6}$ 1272.9 *1* $(E2)^{a}$ 9400.24 $(20)^+$ 100 8127.33 (18)+ 12; $\alpha(N)=1.219\times10^{-6}$ 17; $\alpha(O)=6.90\times10^{-8}$ 10 $\alpha(K)=0.000358\ 5;\ \alpha(L)=4.00\times10^{-5}\ 6;\ \alpha(M)=7.13\times10^{-6}$ 4.43×10^{-4} 9472.0 $(20)^{+}$ 1344.7 2 100 8127.33 (18)+ $(E2)^{a}$ 10; $\alpha(N)=1.086\times10^{-6}$ 16; $\alpha(O)=6.16\times10^{-8}$ 9 9710.8 1583.5 2 100 8127.33 (18)+ $\alpha(K)=0.0039$ 4; $\alpha(L)=0.00046$ 6; $\alpha(M)=8.2\times10^{-5}$ 11; 9829.1 $(20)^{-}$ 492.8 1 51.2 23 9336.4 (19)⁻ M1+E20.0045 5 $\alpha(N)=1.24\times10^{-5}$ 16; $\alpha(O)=6.7\times10^{-7}$ 6

 δ : -0.02 5 or -4.6 +9-13.

from level scheme.

Mult.: D(+O) from R(DCO) in ⁵⁸Ni(³⁶Ar. α 2p γ), $\Delta\pi$ =no

898<mark>&</mark> ≈23 8931.3

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From ENSDF

 $^{88}_{42}\mathrm{Mo}_{46}\text{-}8$

Adopted	Levels,	Gammas	(continued)
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$\gamma(^{88}Mo)$	(continued)	
	(

E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	\mathbf{E}_{f}	J_f^π	Mult. [@]	α	Comments
9829.1	(20)-	1219.7 <i>1</i>	100 5	8609.4	(18)-	(E2) ^{<i>a</i>}	5.09×10 ⁻⁴	α (K)=0.000439 7; α (L)=4.93×10 ⁻⁵ 7; α (M)=8.79×10 ⁻⁶ 13; α (N)=1.336×10 ⁻⁶ 19; α (O)=7.54×10 ⁻⁸ 11
10181.6		709.6 2	100	9472.0	$(20)^+$			
10203.7	(21)	374.6 1	100.0 18	9829.1	$(20)^{-}$	D+Q ^C		δ : -0.05 3 or -4.0 4.
10358 3		1235.5 1	17.5 18	8968.1	(19) (21)			
10558.5	$(22)^{+}$	1679.3.2	100	9400 24	(21) $(20)^+$	$(F2)^{a}$	4.18×10^{-4}	$\alpha(K) = 0.000230 4; \alpha(L) = 2.55 \times 10^{-5} 4; \alpha(M) = 4.55 \times 10^{-6} 7;$
11079.0	(22)	1079.5 2	100	9400.24	(20)	(L2)	4.10/10	$\alpha(N)=6.94\times10^{-7}$ 10: $\alpha(O)=3.96\times10^{-8}$ 6
11616.5	(23)	1257.9 2	19 5	10358.3				
		1413.1 2	100 5	10203.7	(21)	(E2) ^{<i>a</i>}	4.22×10^{-4}	α (K)=0.000324 5; α (L)=3.61×10 ⁻⁵ 5; α (M)=6.43×10 ⁻⁶ 9; α (N)=9.80×10 ⁻⁷ 14; α (O)=5.56×10 ⁻⁸ 8
x+1237.6	J1+2	1238.6 4	0.50 [#] 7	х	J1	Q ^d		
x+2579.7	J1+4	1342.07 23	0.90 [#] 7	x+1237.6	J1+2	Q ^d		
x+4060.4	J1+6	1480.70 23	1.00 [#] 7	x+2579.7	J1+4	Q ^d		
x+5693.9	J1+8	1633.45 22	1.00 [#] 7	x+4060.4	J1+6	Q ^d		
x+7489.4	J1+10	1795.50 25	1.00 [#] 7	x+5693.9	J1+8	Q ^d		
x+9451.6	J1+12	1962.2 <i>3</i>	0.65 [#] 7	x+7489.4	J1+10	Q ^d		
x+11585.0	J1+14	2133.4 5	0.30 [#] 5	x+9451.6	J1+12	$(Q)^{d}$		
x+13891.6	J1+16	2306.5 11	0.15 [#] 5	x+11585.0	J1+14			
y+1458.6	J2+2	1459.6 8	0.85 [#] 15	У	J2			
y+3054.2	J2+4	1595.6 7	0.90 [#] 15	y+1458.6	J2+2			
y+4797.3	J2+6	1743.1 5	1.00 [#] 20	y+3054.2	J2+4			
y+6692.2	J2+8	1894.8 5	1.05 [#] 20	y+4797.3	J2+6			
y+8746.4	J2+10	2054.2 9	0.45 [#] 15	y+6692.2	J2+8			
y+10970.7	J2+12	2224.3 16	0.15 [#] 10	y+8746.4	J2+10			
z+1259.1	J3+2	1260.1 12	0.15 [#] 15	Z	J3			
z+2641.7	J3+4	1382.6 13	0.95 <mark>#</mark> 20	z+1259.1	J3+2			
z+4164.6	J3+6	1522.9 17	0.85 <mark>#</mark> 20	z+2641.7	J3+4			
z+5834	J3+8	1668.9 <i>16</i>	0.95 [#] 40	z+4164.6	J3+6			
z+7651	J3+10	1817.8 <i>15</i>	1.15 [#] 30	z+5834	J3+8			
z+9627	J3+12	1975.3 14	1.10 [#] 20	z+7651	J3+10			
z+11761	J3+14	2134.7 14	1.05 [#] 20	z+9627	J3+12			
z+14058	J3+16	2297 <i>3</i>	0.35 [#] 15	z+11761	J3+14			
u+1417.6	J4+2	1418.6 9	0.90 [#] 15	u	J4			
u+2978.4	J4+4	1560.8 10	0.95 [#] 15	u+1417.6	J4+2			
u+4684.6	J4+6	1706.2 9	1.00 [#] 15	u+2978.4	J4+4			

 $^{88}_{42}\mathrm{Mo}_{46}\mathrm{-9}$

From ENSDF

 $^{88}_{42}\mathrm{Mo}_{46}\mathrm{-9}$

$\gamma(^{88}Mo)$ (continued)

E _i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\ddagger}	E_f	\mathbf{J}_{f}^{π}
u+6543.5	J4+8	1858.8 9	1.00 [#] 15	u+4684.6	J4+6
u+8539.1	J4+10	1995.6 14	0.30 [#] 10	u+6543.5	J4+8
u+10628?	J4+12	2088.5 ^f 20	0.40 [#] 10	u+8539.1	J4+10

[†] From ⁵⁸Ni(³⁶Ar, α 2p γ).

[‡] Relative branching ratios from 58 Ni(36 Ar, $\alpha 2p\gamma$), except where noted.

[#] For SD bands, values are relative intensities within each band, normalized to ≈ 1 for the strongest transition in the band.

[@] From $\gamma\gamma(\theta)$ (DCO), $\gamma\gamma($ lin pol) in ⁵⁸Ni(³⁶Ar, α 2p γ) (2007An21), except where noted.

[&] Doublet transition.

^{*a*} Stretched Q from R(DCO) in ⁵⁸Ni(³⁶Ar, α 2p γ), E2 from assumed band structure (1992We02).

^b Stretched Q from R(DCO) 58 Ni(36 Ar, $\alpha 2p\gamma$), M2 excluded by comparison to RUL. ^c From R(DCO) measurements in 58 Ni(36 Ar, $\alpha 2p\gamma$) (1992We02,1994Ka20).

^d From R(DCO) in ⁵⁸Ni(⁴⁰Ca, $2\alpha 2p\gamma$):SD.

^e From $\gamma(\theta)$ (DCO) in ⁵⁸Ni(³⁶Ar, α 2p γ) (1994Ka20).

^f Placement of transition in the level scheme is uncertain.

Level Scheme		$I_{\gamma} < 2\% imes I_{\gamma}^{max}$ $I_{\gamma} < 10\% imes I_{\gamma}^{max}$
Intensities: Type not specified		$I_{\gamma} > 10\% \times I_{\gamma}^{max}$
	•	$\dot{\gamma}$ Decay (Uncertain)

Legend

53 040	
<u>1</u> 4+12 [®] [®]	u+10628
	u+8539.1_
<u>J4+8</u>	u+6543.5
<u>14+6</u>	u+4684.6
	u+2978.4
$\frac{J4+2}{4} \qquad \qquad$	u+1417.6
	z+14058
$\frac{J3+14}{\checkmark}$	z+11761
<u>J3+12</u>	z+9627_
<u>J3+10</u>	z+7651
<u>J3+8</u>	z+5834
<u>J3+6</u>	z+4164.6
<u>J3+4</u>	z+2641.7
$\begin{array}{c} \underline{13+2} \\ 13 \\ \hline \end{array}$	z+1259.1
<u>J2+12</u>	y+10970.7
<u>J2+10</u>	y+8746.4
	y+6692.2
<u>J2+6</u>	y+4797.3
<u>J2+4</u>	y+3054.2
<u>J2+2</u>	y+1458.6
$\frac{12}{\sqrt{2}}$	<u>y</u>
	x+13891.6
	X+11383.0
	x+9451.6
	x+7489.4
	x+5693.9
<u>J1+6</u>	x+4060.4
	x+2579.7
$\frac{11+2}{11}$	₹ <u> </u>
(23)	<u> </u>
	10358.3
(21)	10203.7
0^+	0.0

0.0 8.0 min 2

⁸⁸₄₂Mo₄₆



 $^{88}_{42}Mo_{46}$





 $^{88}_{42}{\rm Mo}_{46}$

Band(F): SD-4 band (2004La21)		
<u>J4+12</u>		<u>u+10628</u>
J4+10	20	⁸⁸ u+8539.1
J4+8	19	⁹⁶ u+6543.5
J4+6	18	⁵⁹ u+4684.6
J4+4	17	⁰⁶ u+2978.4
J4+2	15	⁶¹ u+1417.6
<u>J</u> 4	14	19 u

J3+16		z+14058
J3+14	22	97 z+11761
J3+12	21	³⁵ z+9627
J3+10	19	⁷⁵ z+7651
J3+8	18	¹⁸ z+5834
J3+6	16	⁶⁹ z+4164.6
J3+4	15	²³ z+2641.7
J3+2	13	⁸³ z+1259.1
J3	12	60 z

Band(E): SD-3 band (1999Bb13,2004La21)

Band(D)	: SD-2 band
(1999Bb1	3,2003La24,
200	4La21)
12+12	v+10970.7

J2+12	y+10970.7
J2+10	²²²⁴ y+8746.4
J2+8	²⁰⁵⁴ y+6692.2
J2+6	¹⁸⁹⁵ y+4797.3
J2+4	¹⁷⁴³ y+3054.2
J2+2	¹⁵⁹⁶ y+1458.6
J2	1460 y

Band(C): SD-1 band (1999Bb13,2003La24, 2004La21)

J1+16	x+13891.6
71.14	2306
J1+14	x+11585.0
J1+12	2155 x+9451.6
J1+10	¹⁹⁶² x+7489.4
J1+8	¹⁷⁹⁶ x+5693.9
J1+6	1633 x+4060.4
J1+4 J1+2	1431 + 2579.7 1342 x+1237 6
J1	1239 x

Band(A): Yrast band

$\begin{array}{c} (20)^+ & 9400.24 \\ \hline (18)^+ & 8127.33 \\ \hline (16)^+ & 1273 & 6944.73 \\ \hline 12^+ & 985 & 5052.27 \\ \hline 12^+ & 985 & 5052.49 \\ \hline 10^+ & 997 & 4195.18 \\ 8^+ & 857 & 3212.91 \\ 6^+ & 982 & 2626.80 \\ 4^+ & 586 & 1654.83 \\ 2^+ & 914 & 740.54 \\ 0^+ & 711 & 0.0 \end{array}$	Band(A): Yrast band	Band(B): Negative parity
V // I VAV	$\begin{array}{c} (20)^+ & 9400.24 \\\hline (18)^+ & 8127.33 \\\hline (16)^+ & 1273 & 6944.73 \\\hline 14^+ & 1183 & 5959.27 \\\hline 12^+ & 985 & 5052.49 \\\hline 10^+ & 995 & 5052.49 \\\hline 10^+ & 997 & 4195.18 \\\hline 8^+ & 857 & 3212.91 \\\hline 6^+ & 982 & 2626.80 \\\hline 4^+ & 586 & 1654.83 \\\hline 2^+ & 912 & 740.54 \\\hline 9^+ & 711 & 0.0 \\\hline \end{array}$	$\begin{array}{c} \text{cascade} \\ \hline 17^- & 7848.47 \\ \hline 15^- & 6868.26 \\ \hline 13^- & 980 & 5969.75 \\ \hline 11^- & 898 & 5153.45 \\ \hline 9^- & 816 & / 4313.82 \\ \hline 7^- & 964 & 3349.82 \\ \hline 5^- & 703 & 2646.42 \\ \hline \end{array}$

 $^{88}_{42}{\rm Mo}_{46}$

x

