

(HI,xn γ) 2002Ro19,2001Mu19,1999De22

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 108,2035 (2007)	30-Mar-2007

2002Ro19: $^{50}\text{Cr}(^{58}\text{Ni},4p\gamma)$ E=250 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\gamma(\theta)$ using GAMMASPHERE array consisting of 81 Compton-suppressed Ge detectors arranged in 14 rings around the beam direction and Microball consisting of 95 CsI detectors.

2001Mu19: $^{58}\text{Ni}(^{50}\text{Cr},4p\gamma)$ E=200, 205 MeV. Measured $E\gamma$, $\gamma\gamma$, $\gamma\gamma(\theta)$ (DCO) and lifetimes using GASP spectrometer in two experiments. Lifetime measurements were made using recoil-distance Doppler-shift (RDDS), Doppler-shift attenuation (DSA), and differential decay curve (DDCM) techniques.

1999De22: $^{58}\text{Ni}(^{50}\text{Cr},4p\gamma)$ E=220 MeV, GASP array of 40 Compton-suppressed Ge detectors and an inner BGO ball of 80 crystals. The Si-ball ISIS was used to select the 4p channel.

1995KI02: Nordball multi-detector array, three different experiments.

$^{16}\text{O}(^{92}\text{Zr},xng)$ E=83 MeV, 15 Compton-suppressed Ge detectors.

$^{34}\text{S}(^{76}\text{Ge},xng)$ E=148 MeV, 20 Compton-suppressed Ge detectors+ 60 BaF₂-detectors (4 π γ -ray calorimeter) +21 Si detectors.

$^{58}\text{Ni}(^{54}\text{Fe},xng)$ E=270 MeV, 15 Compton-suppressed Ge detectors+ 2 π BaF₂ spectrometer +21 Si detectors (Charge particle detector)+ 1 π neutron detector consisting of 11 liquid scintillator detectors.

The level scheme is mainly from [2002Ro19](#).

 ^{104}Cd Levels

E(level) [†]	J ^{π}	T _{1/2} [‡]	Comments
0.0 ^g	0 ⁺		
658.00 ^{g 10}	2 ⁺	6.3 ps <i>21</i>	
1492.01 ^{g 15}	4 ⁺	<4.2 ps	
1991.8		<6.9 ps	E(level): Only given by 2001Mu19 , was not adopted.
2113.81 <i>17</i>	4 ⁺		
2370.20 ^{# 17}	6 ⁺	<4.2 ps	
2435.33 <i>17</i>	6 ⁺	58 ps <i>4</i>	
2613.46 ^{d 19}	(5)	27 ps <i>4</i>	
2902.52 <i>19</i>	8 ⁺	853 ps <i>49</i>	T _{1/2} : average 887 ps <i>70</i> (RDDS) and 811 ps <i>70</i> (DDCM).
3210.94 ^{# 17}	8 ⁺	<4.9 ps	
3297.98 <i>21</i>	8 ⁺	1.04 ps <i>21</i>	
3652.97 ^{d 24}	(7)	<11 ps	
3726.65 <i>24</i>	7 ⁻	6.9 ps <i>7</i>	
3787.5 <i>3</i>	7 ⁺	<17 ps	
3903.6 ^{e 3}	9 ⁽⁺⁾	<104 ps	J ^{π} : from table 1 pf 2002Ro19 , (9) in authors' figure 1.
4038.48 <i>19</i>	9 ⁻	10.4 ps <i>5</i>	
4101.19 ^{# 19}	10 ⁺	2.1 ps <i>14</i>	
4153.37 ^{@ 24}	8 ⁻		
4327.1 ^{e 4}	(10 ⁺)		
4396.97 ^{d 24}	(9)	6.2 ps +7-14	
4464.4 <i>4</i>	(10 ⁺)		
4736.4 ^{e 4}	(12 ⁺)		
4741.40 ^{& 20}	11 ⁻	3.60 ps <i>14</i>	
4810.25 ^{@ 23}	10 ⁻	6.9 ps <i>7</i>	
4818.08 ^{# 25}	11 ⁺	55 ps <i>4</i>	
5146.8 ^{d 3}	(11)	<4.2 ps	
5158.18 ^{# 24}	12 ⁺		
5370.8 ^{e 6}	(14 ⁺)		
5452.9 <i>4</i>	(12)	<3.5 ps	
5572.86 ^{@ 24}	12 ⁻	<1.4 ps	
5672.28 ^{& 22}	13 ⁻	0.42 ps <i>21</i>	

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(HI,xn γ) 2002Ro19,2001Mu19,1999De22 (continued) ^{104}Cd Levels (continued)

E(level) [†]	J ^π	T _{1/2} [‡]	Comments
5792.80 [#] 25	13 ⁺	2.1 ps 4	
5924.5 ^d 3	(13)		
6123.3 4	(14)		
6240.9 [#] 3	14 ⁺		
6241.9 4	(14)	0.76 ps 14	
6328.54 [@] 24	14 ⁻	2.01 ps 14	
6661.95 ^{&} 23	15 ⁻	0.56 ps 6	T _{1/2} : from DSA. T _{1/2} =0.28 ps 7 (DDCM), <1.4 ps (RDDS).
6985.9 ^d 4	(15)		
7009.3 5	(16)		
7148.5 [#] 3	(15 ⁻)	<1.2 ps	
7193.6 ^a 4	(14 ⁺)		
7277.65 [@] 24	16 ⁻	1.04 ps 14	
7781.7 ^{&} 3	17 ⁻	0.37 ps 4	T _{1/2} : from DSA. T _{1/2} <0.7 ps (RDDS).
7785.2 4	(16)		
8142.9 [#] 3	(17 ⁻)		
8164.3 ^a 4	(16 ⁺)		
8437.1 [@] 4	18 ⁻	0.28 ps 4	
8605.7 6	(18)		
8715.7 [#] 3	(18)		
9088.4 ^{&} 4	19 ⁻	<0.52 ps	T _{1/2} : from DSA.
9091.4 ^a 4	(18 ⁺)		
9139.6 [#] 4	(19)		
9293.9 ^c 5	19 ⁻		
9429.0 ^b 6	(19 ⁻)		
9687.5 [@] 4	20 ⁻	<0.53 ps	T _{1/2} : from DSA.
10127.7 ^a 4	(20 ⁺)		
10528.5 ^b 7	(21 ⁻)		
10630.6 ^{&} 6	(21 ⁻)		
10706.9 ^c 6	(21 ⁻)		
11287.6 [@] 7	(22 ⁻)		
11363.3 ^a 5	(22 ⁺)		
11382.6 6	(22 ⁻)		
11809.9 ^b 8	(23 ⁻)		
12264.0 ^c 7	(23 ⁻)		
12347.9 ^{&} 14	(23 ⁻)		
12791.0 ^a 5	(24 ⁺)		
13036.8 [@] 11	(24 ⁻)		
14106.4 ^c 10	(25 ⁻)		
14616.3 ^a 8	(26 ⁺)		
14868.4 [@] 15	(26 ⁻)		
16110.3 ^c 13	(27 ⁻)		
16864.7 [@] 20	(28 ⁻)		
18243.3 ^c 17	(29 ⁻)		
x ^f			
547.4+x ^f			
969.20+x ^f 20			
1440.0+x ^f 3			

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(HI,xn γ) 2002Ro19,2001Mu19,1999De22 (continued)

^{104}Cd Levels (continued)

E(level)[†]

2060.6+x^f 4

2777.3+x^f

[†] From least-squares fit to E γ 's Overall fitting is not very satisfactory, 13 E γ 's deviate from fitted values by 3 or more σ 's and another 9 E γ 's deviate by 2 σ 's (evaluators' note).

[‡] From 2001Mu19.

Band(A): γ cascade based on 6⁺.

@ Band(B): Band based on 8⁻. Probable $\nu h_{11/2}\nu d_{5/2}$ excitation.

& Band(C): Band based on 9⁻. Probable $\nu h_{11/2}\nu g_{7/2}$ excitation.

^a Band(D): Band based on 14⁺.

^b Band(E): Band based on 19⁻.

^c Band(F): Band based on 19⁻. Probable $\nu h_{11/2}\nu g_{7/2}$ excitation.

^d Band(G): γ cascade based on (5). Negative parity is given in figure 1 of 2002Ro19, but in authors' Table 1.

^e Band(H): γ cascade based on (9).

^f Band(I): γ cascade.

^g Band(J): g.s. band.

$\gamma(^{104}\text{Cd})$

E γ [‡]	I γ	E _i (level)	J _i ^π	E _f	J _f ^π	Mult.	Comments
272.3 3	1.3 2	4736.4	(12 ⁺)	4464.4	(10 ⁺)		
307.8 [†] 2	6.7 2	3210.94	8 ⁺	2902.52	8 ⁺	M1+E2	δ : -0.20 10 or (+0.84 18). A ₂ =+0.20 4. A ₄ =-0.05 5. E γ : level-energy difference=308.4. E γ : from level-energy difference. E γ =319.2 22 (2002Ro19) seems in error.
311.8	0.3 1	4038.48	9 ⁻	3726.65	7 ⁻		
321.3 2	6.3 2	2435.33	6 ⁺	2113.81	4 ⁺	E2	B(E2)(W.u.)=23.5 18 A ₂ =+0.19 5. A ₄ =+0.01 6.
340.9 [†] 2	2.1 1	5158.18	12 ⁺	4818.08	11 ⁺	M1+E2	δ : +0.06 5 or -12> δ >+26. A ₂ =-0.11 8. A ₄ =-0.1 1. E γ : level-energy difference=340.1.
360.9 2	1.4 1	8142.9	(17 ⁻)	7781.7	17 ⁻		
365.9 2	1.9 1	4153.37	8 ⁻	3787.5	7 ⁺	E1+M2	A ₂ =-0.8 1. A ₄ =+0.2 1.
409.1 3	1.5 1	4736.4	(12 ⁺)	4327.1	(10 ⁺)		
412		4810.25	10 ⁻	4396.97	(9)		E γ : from figure 1 of 2002Ro19, not listed in authors' table 1.
422.2 2	2.7 2	969.20+x		547.4+x			
423.3 3	2.1 2	4327.1	(10 ⁺)	3903.6	9 ⁽⁺⁾		
423.9 2	3.1 1	9139.6	(19)	8715.7	(18)	M1+E2	δ : +0.05 3 or -20> δ >+109. A ₂ =-0.17 5. A ₄ =-0.02 6.
427.1 2	2.9 1	4153.37	8 ⁻	3726.65	7 ⁻	M1+E2	A ₂ =-0.77 5. A ₄ =+0.07 7.
448.2 1	5.0 2	6240.9	14 ⁺	5792.80	13 ⁺	M1+E2	δ : -0.02 3 or -10 +2-4.

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(HI,xn γ) **2002Ro19,2001Mu19,1999De22 (continued)**

$\gamma(^{104}\text{Cd})$ (continued)

E_{γ}^{\ddagger}	I_{γ}	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}	Mult.	Comments
							$A_2=-0.26$ 5. $A_4=-0.02$ 6.
469.5 \dagger 4	1.1 2	2902.52	8 $^+$	2435.33	6 $^+$		E_{γ} : level-energy difference=467.2.
470.8 2	2.5 2	1440.0+x		969.20+x			
499.6 1	3.6 3	2613.46	(5)	2113.81	4 $^+$		
500		1991.8		1492.01	4 $^+$		
531.9 \dagger 1	17.0 1	2902.52	8 $^+$	2370.20	6 $^+$	E2	$B(E2)(W.u.)=0.50$ 3 $A_2=+0.23$ 3. $A_4=+0.16$ 3. E_{γ} : level-energy difference=532.3.
546.9 2		547.4+x		x			
560.9 2	3.3 2	4464.4	(10 $^+$)	3903.6	9($^+$)		
572.8 1	5.0 2	8715.7	(18)	8142.9	(17 $^-$)		
617.3 \dagger 2	3.9 2	7277.65	16 $^-$	6661.95	15 $^-$		E_{γ} : level-energy difference=615.7.
620.6 2	2.5 2	2060.6+x		1440.0+x			
621.7 1	19.0 1	2113.81	4 $^+$	1492.01	4 $^+$	M1+E2	δ : -0.84 18 or -34> δ >+6. $A_2=-0.09$ 3. $A_4=-0.02$ 4.
634.4 4	1.2 1	5370.8	(14 $^+$)	4736.4	(12 $^+$)		
634.8 2	9.3 4	5452.9	(12)	4818.08	11 $^+$		
634.8 1	6.9 4	5792.80	13 $^+$	5158.18	12 $^+$		
636.7 3	2.0 2	7785.2	(16)	7148.5	(15 $^-$)		
639.7 2	4.4 2	4741.40	11 $^-$	4101.19	10 $^+$	E1+M2	δ : -0.1 1 or (-5.8 +22-83). $A_2=-0.35$ 16. $A_4=-0.3$ 2.
654.6 \dagger 2	5.5 2	6328.54	14 $^-$	5672.28	13 $^-$		E_{γ} : level-energy difference=656.3.
657.3 2	10.1 4	4810.25	10 $^-$	4153.37	8 $^-$		
658.0 1	100	658.00	2 $^+$	0.0	0 $^+$	E2	$B(E2)(W.u.)=25$ 9 $A_2=+0.02$ 1. $A_4=-0.02$ 2.
669.9 2	2.4 1	4396.97	(9)	3726.65	7 $^-$		
670.4 2	3.1 2	6123.3	(14)	5452.9	(12)		
703.0 1	37.0 1	4741.40	11 $^-$	4038.48	9 $^-$	E2	$B(E2)(W.u.)=28.2$ 11 $A_2=+0.32$ 2. $A_4=-0.06$ 3.
717.3 2	3.1 2	2777.3+x		2060.6+x			
717.3 2	17.0 1	4818.08	11 $^+$	4101.19	10 $^+$	M1+E2	δ : +0.17 2 or +11 +5-3. $A_2=+0.04$ 3. $A_4=-0.14$ 4.
740.7 2	4.4 2	4038.48	9 $^-$	3297.98	8 $^+$	E1+M2	δ : -0.16 3 or (-3.8 5). $A_2=-0.4$ 1. $A_4=+0.3$ 1.
743.8 2	2.6 1	4396.97	(9)	3652.97	(7)		
749.3 2	4.4 2	5146.8	(11)	4396.97	(9)		
755.7 1	11.0 4	6328.54	14 $^-$	5572.86	12 $^-$	E2	$B(E2)(W.u.)=26.2$ 22 $A_2=+0.39$ 4. $A_4=-0.29$ 4.
763.0 2	8.7 3	5572.86	12 $^-$	4810.25	10 $^-$	E2	$B(E2)(W.u.)>42$ $A_2=+0.26$ 4. $A_4=-0.2$ 4.
767.4 3	1.9 1	7009.3	(16)	6241.9	(14)		
771.8 2	3.8 2	4810.25	10 $^-$	4038.48	9 $^-$		
775.5 1	23.0 1	3210.94	8 $^+$	2435.33	6 $^+$	E2	$B(E2)(W.u.)>5.6$ $A_2=+0.38$ 4. $A_4=+0.08$ 4.

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(HI,xn γ) 2002Ro19,2001Mu19,1999De22 (continued) $\gamma(^{104}\text{Cd})$ (continued)

E_γ ‡	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	Comments
777.1 2	3.2 2	5924.5	(13)	5146.8	(11)		
789.0 2	2.8 2	6241.9	(14)	5452.9	(12)		
820.4 4	1.4 1	8605.7	(18)	7785.2	(16)		
827.7 1	32.0 1	4038.48	9 ⁻	3210.94	8 ⁺	E1+M2	δ : -0.17 3 or (-3.6 5). A ₂ =-0.36 3. A ₄ =-0.02 3.
830.7 3	2.5 2	5572.86	12 ⁻	4741.40	11 ⁻		
834.0 1	97.0 3	1492.01	4 ⁺	658.00	2 ⁺	E2	B(E2)(W.u.)>11 A ₂ =+0.21 2. A ₄ =-0.03 2.
841.1 † 1	28.0 1	3210.94	8 ⁺	2370.20	6 ⁺	E2	B(E2)(W.u.)>4.6 A ₂ =+0.29 3. A ₄ =-0.07 4. E γ : level-energy difference=840.7.
862.6 3	3.7 4	3297.98	8 ⁺	2435.33	6 ⁺		
878.2 1	59.0 2	2370.20	6 ⁺	1492.01	4 ⁺	E2	B(E2)(W.u.)>8.9 A ₂ =+0.16 2. A ₄ =-0.08 3.
890.2 1	24.0 1	4101.19	10 ⁺	3210.94	8 ⁺	E2	B(E2)(W.u.)=17 11 A ₂ =+0.25 3. A ₄ =-0.04 3.
907.7 1	5.3 2	7148.5	(15 ⁻)	6240.9	14 ⁺		
926.7 2	2.8 1	9091.4	(18 ⁺)	8164.3	(16 ⁺)		
928.0 2	7.2 4	3297.98	8 ⁺	2370.20	6 ⁺		
930.8 1	30.0 1	5672.28	13 ⁻	4741.40	11 ⁻	E2	B(E2)(W.u.)=7.E+1 4 A ₂ =+0.31 2. A ₄ =-0.09 2.
943.4 1	20.0 1	2435.33	6 ⁺	1492.01	4 ⁺	E2	B(E2)(W.u.)=0.342 24 A ₂ =+0.18 3. A ₄ =-0.08 3.
948.7 † 1	14.0 1	7277.65	16 ⁻	6328.54	14 ⁻	E2	B(E2)(W.u.)=19 3 A ₂ =+0.12 3. A ₄ =-0.3 3. E γ : level-energy difference=949.1.
970.7 2	1.9 1	8164.3	(16 ⁺)	7193.6	(14 ⁺)	E2	A ₂ =+0.2 1. A ₄ =+0.1 1.
973.8 † 3	1.9 1	5792.80	13 ⁺	4818.08	11 ⁺	E2	B(E2)(W.u.)=2.3 5 A ₂ =+0.3 1. A ₄ =-0.1 1. E γ : level-energy difference=974.7.
990.0 † 1	18.0 6	6661.95	15 ⁻	5672.28	13 ⁻	E2	B(E2)(W.u.)=37 4 A ₂ =+0.27 3. A ₄ =-0.12 3. E γ : level-energy difference=989.7.
994.7 2	1.6 1	8142.9	(17 ⁻)	7148.5	(15 ⁻)	E2	A ₂ =+0.11 4. A ₄ =-0.02 5.
1001.0 2	1.6 2	3903.6	9 ⁽⁺⁾	2902.52	8 ⁺		
1036.3 1	5.3 2	10127.7	(20 ⁺)	9091.4	(18 ⁺)	E2	A ₂ =+0.35 6. A ₄ =-0.12 8.
1039.3 2	2.9 2	3652.97	(7)	2613.46	(5)		
1056.9 2	3.2 2	5158.18	12 ⁺	4101.19	10 ⁺	E2	A ₂ =+0.25 9. A ₄ =-0.2 1.
1061.4 3	2.9 2	6985.9	(15)	5924.5	(13)		
1099.7 5	0.7 1	10528.5	(21 ⁻)	9429.0	(19 ⁻)		
1119.8 2	12.2 4	7781.7	17 ⁻	6661.95	15 ⁻	E2	B(E2)(W.u.)=30 4

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(HI,xn γ) 2002Ro19,2001Mu19,1999De22 (continued) $\gamma(^{104}\text{Cd})$ (continued)

E_{γ}^{\ddagger}	I_{γ}	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}	Mult.	Comments
1134.8 [†] 3	3.2 2	4038.48	9 ⁻	2902.52	8 ⁺		$A_2=+0.37$ 4. $A_4=-0.22$ 5.
1159.4 2	9.9 3	8437.1	18 ⁻	7277.65	16 ⁻	E2	E_{γ} : level-energy difference=1135.9. $B(E2)(\text{W.u.})=33$ 5
1184.2 [†] 3	3.8 2	5924.5	(13)	4741.40	11 ⁻		$A_2=+0.38$ 4. $A_4=-0.14$ 5.
1235.6 2	4.7 2	11363.3	(22 ⁺)	10127.7	(20 ⁺)	E2	E_{γ} : level-energy difference=1183.1. $A_2=+0.27$ 8. $A_4=+0.1$ 1.
1250.4 2	5.7 2	9687.5	20 ⁻	8437.1	18 ⁻	E2	$B(E2)(\text{W.u.})>12$ $A_2=+0.20$ 6. $A_4=-0.09$ 8.
1268.8 4	1.3 1	7193.6	(14 ⁺)	5924.5	(13)		
1281.4 3	1.6 1	11809.9	(23 ⁻)	10528.5	(21 ⁻)		
1306.6 3	5.7 2	9088.4	19 ⁻	7781.7	17 ⁻	E2	$B(E2)(\text{W.u.})>9.8$ $A_2=+0.22$ 7. $A_4=-0.04$ 8.
1311.1 [†] 4	0.85 5	9091.4	(18 ⁺)	7781.7	17 ⁻		E_{γ} : level-energy difference=1309.7.
1356.5 3	6.6 3	3726.65	7 ⁻	2370.20	6 ⁺	E1+M2	δ : -0.20 10 or (-3.6 +10-22). $A_2=-0.33$ 6. $A_4=+0.1$ 7.
1413.0 3	3.0 1	10706.9	(21 ⁻)	9293.9	19 ⁻		
1417.4 3	3.6 2	3787.5	7 ⁺	2370.20	6 ⁺	M1+E2	$A_2=+0.5$ 1. $A_4=+0.1$ 1.
1425.4 12	0.6 1	4327.1	(10 ⁺)	2902.52	8 ⁺		
1427.7 3	3.2 1	12791.0	(24 ⁺)	11363.3	(22 ⁺)	E2	$A_2=+0.4$ 1. $A_4=+0.1$ 2.
1439.6 9	0.3 1	10528.5	(21 ⁻)	9088.4	19 ⁻		
1501.2 4	2.8 1	8164.3	(16 ⁺)	6661.95	15 ⁻		
1512.2 4	2.9 1	9293.9	19 ⁻	7781.7	17 ⁻	E2	$A_2=+0.6$ 2. $A_4=-0.1$ 3.
1542.2 4	2.3 1	10630.6	(21 ⁻)	9088.4	19 ⁻		
1557.0 4	2.7 1	12264.0	(23 ⁻)	10706.9	(21 ⁻)		
1600.1 5	1.4 1	11287.6	(22 ⁻)	9687.5	20 ⁻		
1647.5 6	1.2 1	9429.0	(19 ⁻)	7781.7	17 ⁻		
1695.1 4	1.4 1	11382.6	(22 ⁻)	9687.5	20 ⁻		
1717.3 12	0.24 3	12347.9	(23 ⁻)	10630.6	(21 ⁻)		
1749.2 8	0.41 2	13036.8	(24 ⁻)	11287.6	(22 ⁻)		
1825.3 5	0.68 4	14616.3	(26 ⁺)	12791.0	(24 ⁺)		
1831.6 11	0.21 2	14868.4	(26 ⁻)	13036.8	(24 ⁻)		
1842.4 7	1.6 6	14106.4	(25 ⁻)	12264.0	(23 ⁻)		
1996.3 13	0.15 2	16864.7	(28 ⁻)	14868.4	(26 ⁻)		
2003.9 8	0.96 4	16110.3	(27 ⁻)	14106.4	(25 ⁻)		
2133.0 10	0.48 2	18243.3	(29 ⁻)	16110.3	(27 ⁻)		

[†] Poor fit in the level scheme. The quoted E_{γ} deviates from fitted energy (or level-energy difference) by more than 2 times the quoted uncertainty.

[‡] From 2002Ro19.

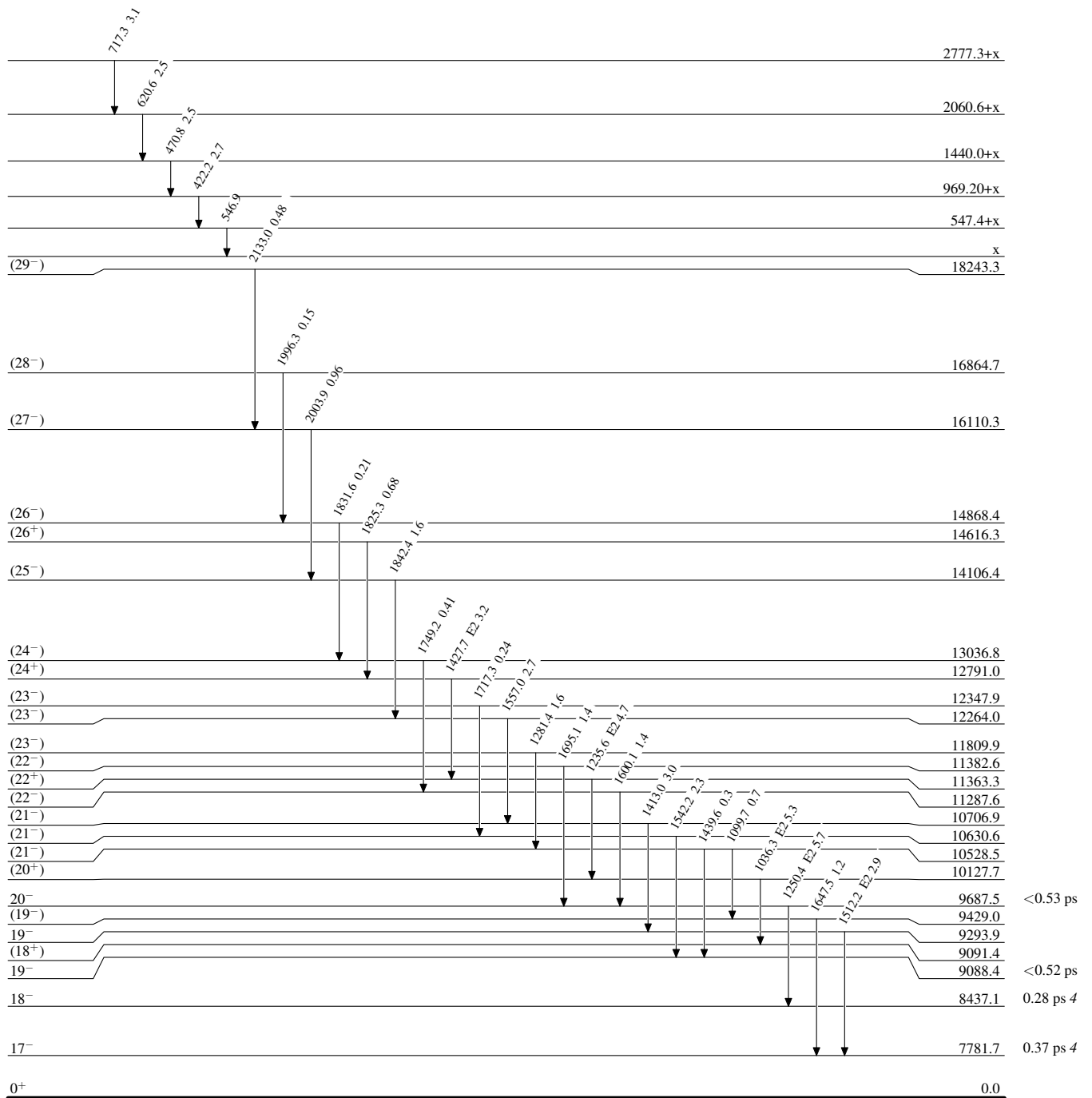
(HI,xn γ) 2002Ro19,2001Mu19,1999De22

Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$



$^{104}_{48}\text{Cd}_{56}$

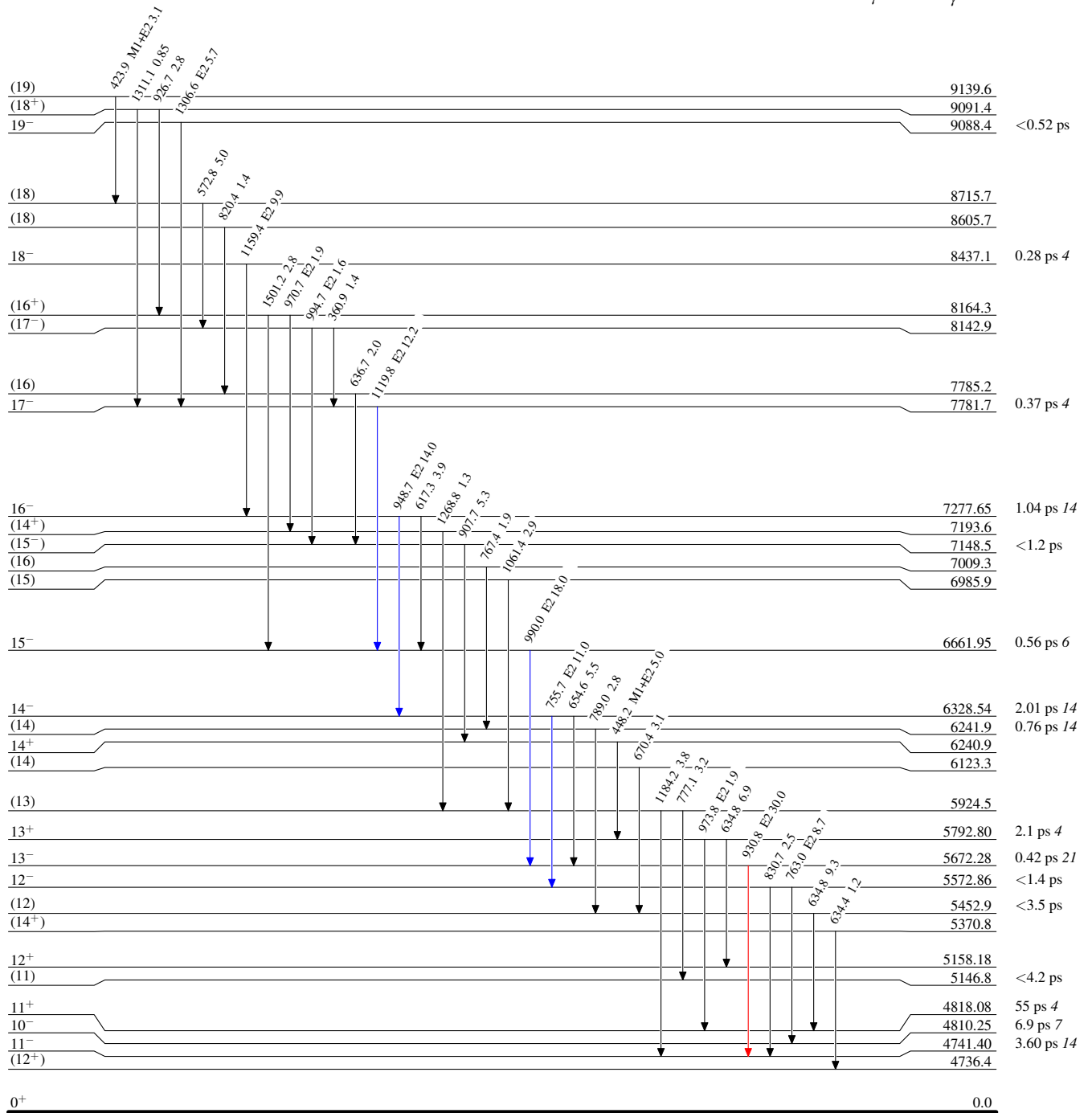
(HI,xn γ) 2002Ro19,2001Mu19,1999De22

Level Scheme (continued)

Intensities: Relative I γ

Legend

- I γ < 2% × I γ ^{max}
- I γ < 10% × I γ ^{max}
- I γ > 10% × I γ ^{max}



¹⁰⁴₄₈Cd₅₆

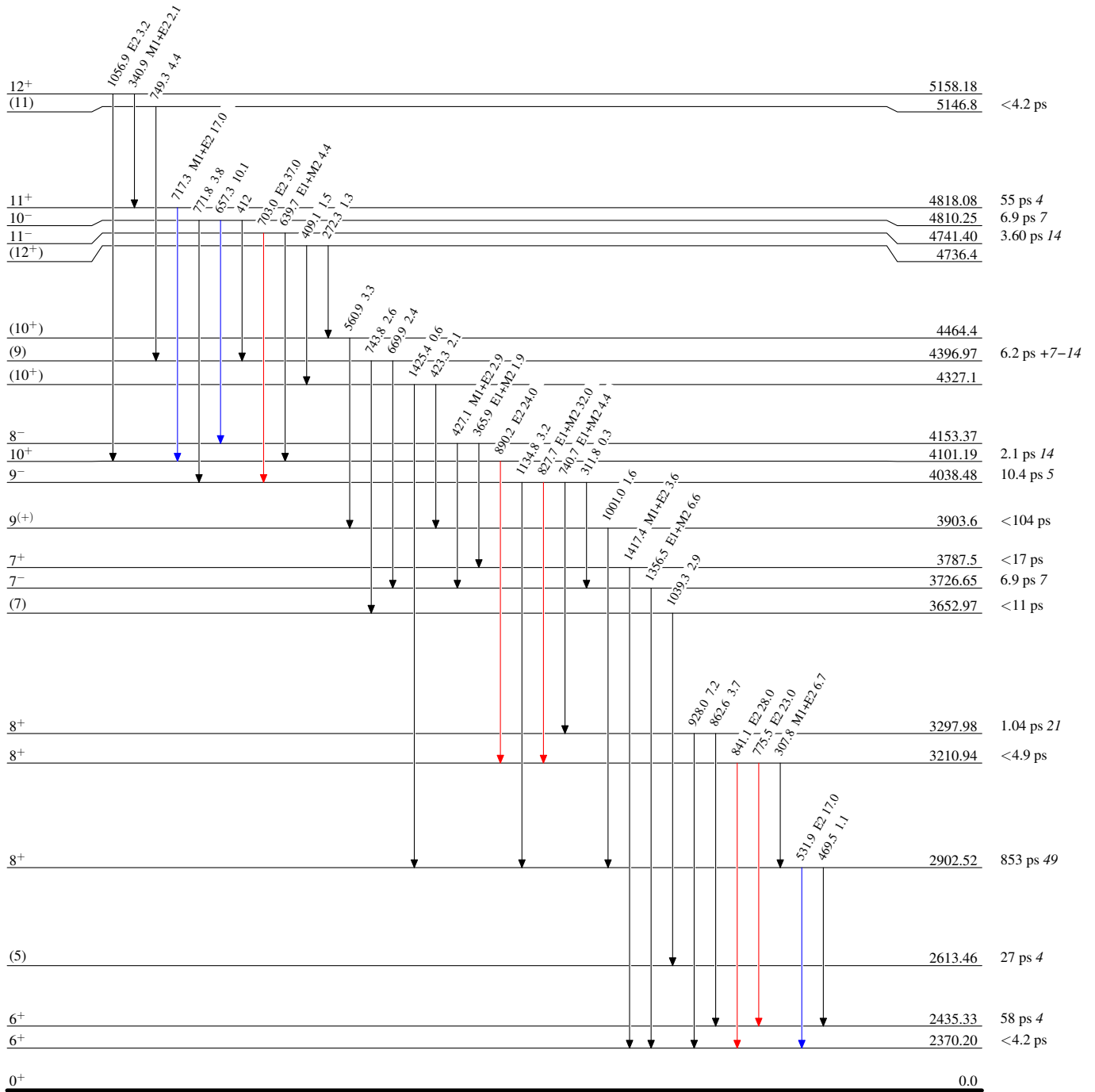
(HI,xn γ) 2002Ro19,2001Mu19,1999De22

Level Scheme (continued)

Intensities: Relative I_γ




Legend

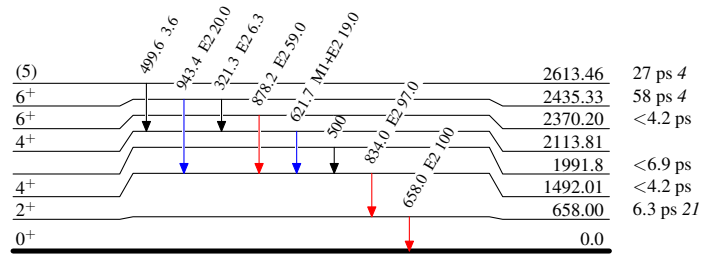
- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

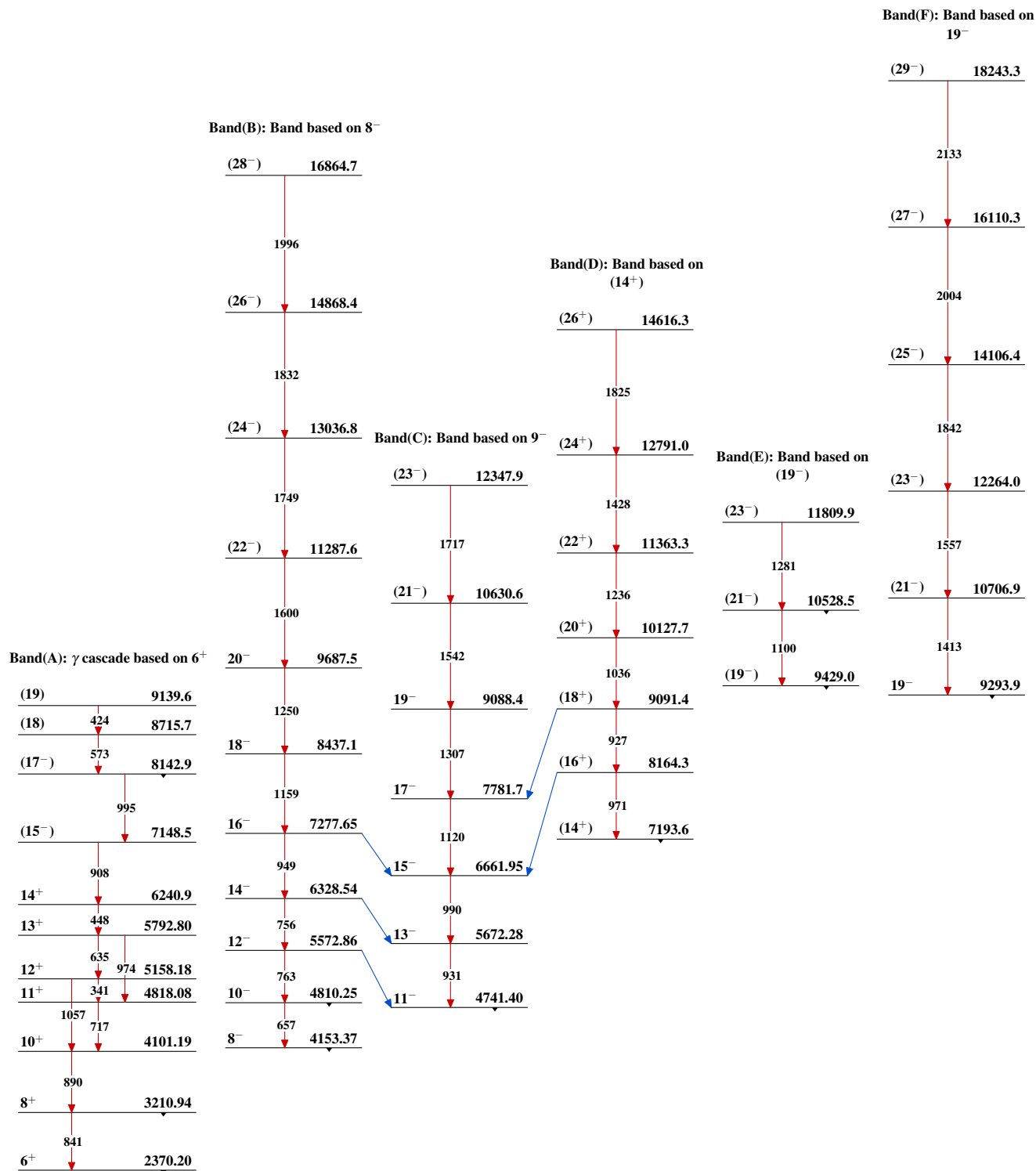


$^{104}_{48}\text{Cd}_{56}$

(HI,xn γ) 2002Ro19,2001Mu19,1999De22**Level Scheme (continued)**Intensities: Relative I_{γ} **Legend**

-  $I_{\gamma} < 2\% \times I_{\gamma}^{\max}$
 $I_{\gamma} < 10\% \times I_{\gamma}^{\max}$
 $I_{\gamma} > 10\% \times I_{\gamma}^{\max}$

 $^{104}_{48}\text{Cd}_{56}$

(HI,xn γ) 2002Ro19,2001Mu19,1999De22 $^{104}_{48}\text{Cd}_{56}$

(HI,xn γ) 2002Ro19,2001Mu19,1999De22 (continued)