

$^{58}\text{Ni}(^{32}\text{S},\text{3pn}\gamma)$ **2000Wi10,1997Ta10,1999Co10**

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 124, 1 (2015)	30-Nov-2014

Includes [1998Ka19](#).

1997Ta10: E=135 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ and $\gamma\gamma(\theta)$ (DCO) using Gammasphere, an array consisting of 36 Compton-suppressed Ge detectors, in conjunction with Microball, a 95-element detector array.

2000Wi10: E=135 MeV. Measured lifetimes by DSAM using Gammasphere array in conjunction with Microball.

1999Co10: E=130 MeV. Measured γ -ray linear polarization with a four- crystal Clover polarimeter, and $\gamma(\theta)$ with one HPGe detector.

1998Ka19: E=130 MeV. Measured lifetimes of two levels using RDM.

 ^{86}Nb Levels

E(level) [†]	J ^π [‡]	T _{1/2} [#]	Comments
0 ^{&}	(6 ⁺)		Additional information 1 .
26.3 4	(7 ⁺)		J^π : from 1999Co10 and 2000Wi10 .
274.4 ^{&} 3	(8 ⁺)	0.84 ns 14	J^π : from γ (lin pol) (1999Co10). $T_{1/2}$: from RDM (1998Ka19).
494.3 ^d 3	(6 ⁻)	0.25 ns 7	J^π : from γ (lin pol) (1999Co10). $T_{1/2}$: from RDM (1998Ka19).
724.7 ^c 4	(9 ⁺)		
887.7 ^e 4	(7 ⁻)		
1134.1 ^{&} 4	(10 ⁺)		
1283.8 ^d 4	(8 ⁻)		
1498.4 ^h 5	(8 ⁻)		
1601.1 ^c 4	(11 ⁺)	0.34 ps +10-8	
1710.7 ^e 4	(9 ⁻)		
2026.3 ^d 4	(10 ⁻)		
2209.6 ^h 11	(10 ⁻)		
2211.5 ^{&} 5	(12 ⁺)	0.46 ps +8-6	
2454.8 ^e 5	(11 ⁻)		
2599.1 ^g 6	(11 ⁻)		
2684.0 ^c 5	(13 ⁺)	0.35 ps +10-8	
2779.5 ^d 5	(12 ⁻)		
3065.4 ^h 15	(12 ⁻)		
3302.2 ^e 5	(13 ⁻)	0.45 ps +7-6	
3377.5 ^g 6	(13 ⁻)	0.65 ps +33-29	
3468.2 ^{&} 6	(14 ⁺)	0.35 ps +10-8	
3687.4 ^d 6	(14 ⁻)	0.76 ps +11-9	
3902.4 ^c 6	(15 ⁺)	0.34 ps +6-4	
3987.4 ^b 6	(15 ⁺)	0.21 ps +8-6	
4070.0 ^h 6	(14 ⁻)	0.45 ps +26-21	
4317.9 ^e 6	(15 ⁻)	0.48 ps +11-9	
4370.4 ^g 6	(15 ⁻)	0.62 ps +9-8	
4777.2 ^d 7	(16 ⁻)	0.34 ps +6-4	
4840.6 ^{&} 8	(16 ⁺)	0.52 ps +19-17	
5027.5 9	(16 ⁺)		
5153.2 ^h 7	(16 ⁻)	0.21 ps +19-14	
5274.1 ^c 7	(17 ⁺)	0.30 ps +8-6	
5307.8 ^b 7	(17 ⁺)	0.40 ps +10-9	

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$^{58}\text{Ni}(\text{32S},\text{3pn}\gamma)$ **2000Wi10,1997Ta10,1999Co10 (continued)** ^{86}Nb Levels (continued)

E(level) [†]	J [‡]	T _{1/2} [#]	E(level) [†]	J [‡]	T _{1/2} [#]
5441.9 ^e 7	(17 ⁻)	0.14 ps +8–6	9064.8 ^d 17	(22 ⁻)	0.055 ps 14
5504.3 ^g 8	(17 ⁻)	0.32 ps +8–6	9381.7 ^b 19	(23 ⁺)	0.22 ps 6
5532.9 7	(17 ⁺)		9649 ^e 4	(23 ⁻)	0.23 [@] ps +8–6
5605.5 ^f 12	(17 ⁻)	0.14 ps +12–11	9728.6 ^g 18	(23 ⁻)	0.055 ps +21–14
6035.4 ^d 10	(18 ⁻)	0.132 ps +28–21	9774 ^{&} 3	(22 ⁺)	
6361.5 ^{&} 11	(18 ⁺)		10052.5 ^c 25	(23 ⁺)	0.11 ps +7–6
6479.3 ^e 11	(19 ⁻)	1.25 ps +27–21	10430 ^a 5	(23 ⁺)	0.08 [@] ps +5–4
6644.9 ^b 8	(19 ⁺)	0.55 ps +16–14	10866.5 ^d 21	(24 ⁻)	0.042 ps +21–14
6722.1 ^c 11	(19 ⁺)	0.19 ps +11–9	11283 ^b 3	(25 ⁺)	0.07 ps +4–3
6807.7 ^g 12	(19 ⁻)	0.17 ps +4–3	11456.9 ^g 21	(25 ⁻)	0.083 ps +28–21
6957.6 ^a 13	(19 ⁺)	0.50 ps +24–18	12013 ^c 4	(25 ⁺)	0.042 [@] ps +28–21
6972.6 ^f 16	(19 ⁻)	0.25 ps +6–5	12407? ^a 3	(25 ⁺)	
7460.7 ^d 14	(20 ⁻)	0.13 ps +5–3	12886 ^d 4	(26 ⁻)	0.021 [@] ps +21–14
7665.3 12	(20 ⁺)		13417 ^g 3	(27 ⁻)	0.042 [@] ps 14
7819.3 ^e 14	(21 ⁻)	0.79 ps +19–16	13509 ^b 4	(27 ⁺)	0.062 [@] ps +28–21
7906.2 ^b 13	(21 ⁺)	0.45 ps +15–14	13568 4	(27 ⁺)	0.06 [@] ps +4–3
7965.5 ^{&} 19	(20 ⁺)		15095 ^d 5	(28 ⁻)	
8214.1 ^g 15	(21 ⁻)	0.125 ps +28–21	15662 ^g 4	(29 ⁻)	
8270.1 ^c 19	(21 ⁺)	0.12 ps +7–5	18058 ^g 5	(31 ⁻)	
8429 ^f 3	(21 ⁻)	0.16 [@] ps +6–5	20786? ^g 3	(33 ⁻)	
8603 ^a 4	(21 ⁺)	0.30 ps +15–11			

[†] From least-squares fit to E_γ values. Arguments for assuming 6⁺ as the g.s. of ^{86}Nb are given by 1999Co10.

[‡] From 1997Ta10 based on $\gamma\gamma(\theta)$ (DCO) data and band associations, unless otherwise stated. The parentheses in most cases are added by the evaluator due to lack of strong arguments for these assignments.

[#] From DSA measurements of 2000Wi10, unless otherwise stated.

[@] Effective half-life (2000Wi10), not corrected for side feeding.

[&] Band(A): band based on (6⁺).

^a Band(B): band based on (19⁺).

^b Band(C): band based on (15⁺).

^c Band(D): band based on (9⁺).

^d Band(E): band based on (6⁻).

^e Band(F): band based on (7⁻).

^f Band(G): band based on (17⁻).

^g Band(H): band based on (11⁻).

^h Band(I): band based on (8⁻).

 $\gamma(^{86}\text{Nb})$

E _γ [†]	I _γ [†]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [‡]	δ^{\ddagger}	$\alpha^{\#}$	Comments
26.4 [@]		26.3	(7 ⁺)	0	(6 ⁺)				
214.7 5	2.5 9	1498.4	(8 ⁻)	1283.8	(8 ⁻)				Additional information 2.
225.1 4	2.0 7	5532.9	(17 ⁺)	5307.8	(17 ⁺)				
240.9 8	3.3 9	7906.2	(21 ⁺)	7665.3	(20 ⁺)	D			DCO=0.52 12.
248.1 3	49.6 15	274.4	(8 ⁺)	26.3	(7 ⁺)	M1+E2	0.066	0.0199	$\alpha(K)=0.0175$ 3; $\alpha(L)=0.00201$ 3; $\alpha(M)=0.000354$ 5; $\alpha(N+..)=5.47 \times 10^{-5}$ 8

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$^{58}\text{Ni}(^{32}\text{S},3\text{pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10 (continued)

$\gamma(^{86}\text{Nb})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]	$a^\#$	Comments
258.8 4	2.6 8	5532.9	(17 ⁺)	5274.1	(17 ⁺)			$\alpha(\text{N})=5.18 \times 10^{-5} 8; \alpha(\text{O})=2.97 \times 10^{-6} 5$ DCO=0.59 3.
274.5 3	63.5 15	274.4	(8 ⁺)	0	(6 ⁺)	E2	0.0310	$A_2=-0.411 25, A_4=-0.032 26. \text{POL}=-0.29 11$ (1999Co10).
288.7 4	6.0 15	5441.9	(17 ⁻)	5153.2	(16 ⁻)	D		$\alpha(\text{K})=0.0269 4; \alpha(\text{L})=0.00345 5;$ $\alpha(\text{M})=0.000609 9; \alpha(\text{N+..})=9.09 \times 10^{-5} 14$ $\alpha(\text{N})=8.67 \times 10^{-5} 13; \alpha(\text{O})=4.20 \times 10^{-6} 6$ DCO=0.82 4.
300.3 4	5 1	4370.4	(15 ⁻)	4070.0	(14 ⁻)	D		DCO=0.54 10.
315.7 3	15.0 5	2026.3	(10 ⁻)	1710.7	(9 ⁻)	D		DCO=0.62 17.
324.6 3	22.1 15	2779.5	(12 ⁻)	2454.8	(11 ⁻)	D		DCO=0.47 5.
360.6 4	1.3 3	6722.1	(19 ⁺)	6361.5	(18 ⁺)			DCO=0.49 13.
385.3 4	16.7 15	3687.4	(14 ⁻)	3302.2	(13 ⁻)	D		DCO=0.52 10.
393.3 3	36.0 14	887.7	(7 ⁻)	494.3	(6 ⁻)	D		DCO=0.42 5.
396.1 3	14.2 12	1283.8	(8 ⁻)	887.7	(7 ⁻)	D		DCO=0.47 5.
409.4 3	5.5 7	1134.1	(10 ⁺)	724.7	(9 ⁺)	D		DCO=0.45 5.
427.1 5	10 3	1710.7	(9 ⁻)	1283.8	(8 ⁻)	(D)		DCO=0.48 5 for 427.1+428.2.
428.2 6	10 3	2454.8	(11 ⁻)	2026.3	(10 ⁻)	(D)		DCO=0.48 5 for 427.1+428.2.
434.0 5	5.3 12	3902.4	(15 ⁺)	3468.2	(14 ⁺)	D		DCO=0.47 10.
434 1	3 1	5274.1	(17 ⁺)	4840.6	(16 ⁺)			
444 @		6479.3	(19 ⁻)	6035.4	(18 ⁻)			
450.3 3	20.3 12	724.7	(9 ⁺)	274.4	(8 ⁺)	D		DCO=0.48 5.
459.1 5	6.2 7	4777.2	(16 ⁻)	4317.9	(15 ⁻)	D		DCO=0.64 9.
466.9 3	27.7 12	1601.1	(11 ⁺)	1134.1	(10 ⁺)	D		DCO=0.43 4.
467.2 7	9.5 16	5307.8	(17 ⁺)	4840.6	(16 ⁺)			
472.4 3	13.5 18	2684.0	(13 ⁺)	2211.5	(12 ⁺)	D		DCO=0.42 4.
494.2 3	80.8 15	494.3	(6 ⁻)	0	(6 ⁺)	E1	0.001426 20	$\alpha=0.001426 20; \alpha(\text{K})=0.001258 18;$ $\alpha(\text{L})=0.0001395 20; \alpha(\text{M})=2.45 \times 10^{-5} 4;$ $\alpha(\text{N+..})=3.78 \times 10^{-6}$ $\alpha(\text{N})=3.58 \times 10^{-6} 5; \alpha(\text{O})=2.05 \times 10^{-7} 3$ DCO=0.92 6. $A_2=+0.029 5, A_4=+0.13 5. \text{POL}=-0.61 15$ (1999Co10).
505.1 8	4.8 10	5532.9	(17 ⁺)	5027.5	(16 ⁺)			
519.4 4	10.7 13	3987.4	(15 ⁺)	3468.2	(14 ⁺)	D		DCO=0.48 9.
522.8 4	19.8 15	3302.2	(13 ⁻)	2779.5	(12 ⁻)	D		DCO=0.54 10.
573.0 5	6.8 10	2599.1	(11 ⁻)	2026.3	(10 ⁻)	D		DCO=0.57 9.
594 2	2.1 4	6035.4	(18 ⁻)	5441.9	(17 ⁻)			
597.9 7	9.7 12	3377.5	(13 ⁻)	2779.5	(12 ⁻)	D		DCO=0.62 9.
610.2 4	9.3 11	2211.5	(12 ⁺)	1601.1	(11 ⁺)			
610.5 5	6.3 9	1498.4	(8 ⁻)	887.7	(7 ⁻)	D		DCO=0.51 10.
630.5 5	10.8 20	4317.9	(15 ⁻)	3687.4	(14 ⁻)	D		DCO=0.49 6.
664.6 7	5.2 9	5441.9	(17 ⁻)	4777.2	(16 ⁻)	D		DCO=0.48 9.
707.4 9	1.2 4	7665.3	(20 ⁺)	6957.6	(19 ⁺)			
711.2 9	4.7 8	2209.6	(10 ⁻)	1498.4	(8 ⁻)			
727 2	1.8 4	5504.3	(17 ⁻)	4777.2	(16 ⁻)			
742.2 4	35 8	2026.3	(10 ⁻)	1283.8	(8 ⁻)	Q		DCO=0.95 8.
744.1 7	15 4	2454.8	(11 ⁻)	1710.7	(9 ⁻)	Q		DCO=0.92 8.
753.2 5	33.5 25	2779.5	(12 ⁻)	2026.3	(10 ⁻)	Q		DCO=1.02 13.
767.6 4	6.8 9	4070.0	(14 ⁻)	3302.2	(13 ⁻)			
778.7 7	13.0 13	3377.5	(13 ⁻)	2599.1	(11 ⁻)	E2		DCO=1.04 21.

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$^{58}\text{Ni}(\text{³²S},\text{3pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10 (continued)

$\gamma(^{86}\text{Nb})$ (continued)

E_γ^\dagger	I_γ^\dagger	E_i (level)	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
783.1 8	2.4 4	5153.2	(16 ⁻)	4370.4	(15 ⁻)		
784.5 5	7.0 19	3468.2	(14 ⁺)	2684.0	(13 ⁺)		
789.6 4	33.2 15	1283.8	(8 ⁻)	494.3	(6 ⁻)	Q	DCO=1.00 9.
822.9 3	23.2 14	1710.7	(9 ⁻)	887.7	(7 ⁻)	Q	DCO=1.10 11.
835.2 8	2.7 5	5153.2	(16 ⁻)	4317.9	(15 ⁻)		
847.3 5	6.8 10	3302.2	(13 ⁻)	2454.8	(11 ⁻)		
855.8 10	4.1 10	3065.4	(12 ⁻)	2209.6	(10 ⁻)		
859.8 4	100	1134.1	(10 ⁺)	274.4	(8 ⁺)	Q	DCO=0.91 8.
876.5 4	15.6 10	1601.1	(11 ⁺)	724.7	(9 ⁺)	E2	DCO=0.95 8.
892.4 6	3.3 4	2026.3	(10 ⁻)	1134.1	(10 ⁺)	Q	DCO=0.98 10.
907.7 5	46.5 20	3687.4	(14 ⁻)	2779.5	(12 ⁻)	E2	DCO=1.06 8.
922.8 8	14.7 14	3377.5	(13 ⁻)	2454.8	(11 ⁻)	E2	DCO=1.10 17.
993.1 7	22.4 25	4370.4	(15 ⁻)	3377.5	(13 ⁻)	E2	DCO=0.92 8.
1015.6 9	20 4	4317.9	(15 ⁻)	3302.2	(13 ⁻)	E2	DCO=0.91 7.
1020.6 12	6.1 18	7665.3	(20 ⁺)	6644.9	(19 ⁺)	D	DCO=0.50 14.
1037.4 8	26.7 22	6479.3	(19 ⁻)	5441.9	(17 ⁻)	E2	DCO=1.11 14.
1071.2 8	18.6 27	5441.9	(17 ⁻)	4370.4	(15 ⁻)	E2	DCO=1.04 11.
1077.6 6	69.0 20	2211.5	(12 ⁺)	1134.1	(10 ⁺)	E2	DCO=0.94 8.
1083.1 5	26.6 20	2684.0	(13 ⁺)	1601.1	(11 ⁺)	E2	DCO=0.97 9.
1083.1 9	3.8 7	5153.2	(16 ⁻)	4070.0	(14 ⁻)		
1089.9 6	35 3	4777.2	(16 ⁻)	3687.4	(14 ⁻)	E2	DCO=0.98 9.
1113.2	3.1 8	6644.9	(19 ⁺)	5532.9	(17 ⁺)		
1124.5 8	13.5 16	5441.9	(17 ⁻)	4317.9	(15 ⁻)	E2	DCO=1.13 11.
1124.8 8	5.3 15	5027.5	(16 ⁺)	3902.4	(15 ⁺)		
1133.9 8	13.4 15	5504.3	(17 ⁻)	4370.4	(15 ⁻)	E2	DCO=1.04 9.
1178.5 6	8.3 10	2779.5	(12 ⁻)	1601.1	(11 ⁺)	E2	
1186.5 8	11.4 14	5504.3	(17 ⁻)	4317.9	(15 ⁻)	E2	DCO=0.95 9.
1218.4 5	25.4 14	3902.4	(15 ⁺)	2684.0	(13 ⁺)	E2	DCO=0.98 7.
1256.4 6	42.3 25	3468.2	(14 ⁺)	2211.5	(12 ⁺)	E2	DCO=0.97 9.
1258.2 8	23.5 20	6035.4	(18 ⁻)	4777.2	(16 ⁻)	E2	DCO=0.91 9.
1261.4 14	14.5 20	7906.2	(21 ⁺)	6644.9	(19 ⁺)	E2	DCO=0.97 9.
1286.8 6	8.6 12	5274.1	(17 ⁺)	3987.4	(15 ⁺)	E2	DCO=0.98 9.
1287.6 10	5.0 10	5605.5	(17 ⁻)	4317.9	(15 ⁻)	E2	DCO=0.88 11.
1303.4 4	31.8 18	3987.4	(15 ⁺)	2684.0	(13 ⁺)	E2	DCO=1.00 7.
1303.4 9	20.6 20	6807.7	(19 ⁻)	5504.3	(17 ⁻)	E2	DCO=1.01 9.
1320.3 7	26.4 20	5307.8	(17 ⁺)	3987.4	(15 ⁺)	E2	DCO=0.97 9.
1320.8 7	9 3	2454.8	(11 ⁻)	1134.1	(10 ⁺)		
1337.1 5	20.5 20	6644.9	(19 ⁺)	5307.8	(17 ⁺)	E2	DCO=1.00 11.
1340.0 9	15.8 18	7819.3	(21 ⁻)	6479.3	(19 ⁻)	E2	DCO=1.04 15.
1367.1 10	5.9 12	6972.6	(19 ⁻)	5605.5	(17 ⁻)		
1370.9 10	8 3	6644.9	(19 ⁺)	5274.1	(17 ⁺)	(E2)	DCO=1.03 8 for 1373.0+1371.4+1370.9.
1371.4 10	18 6	5274.1	(17 ⁺)	3902.4	(15 ⁺)	(E2)	DCO=1.03 8 for 1373.0+1371.4+1370.9.
1373.0 10	10 4	4840.6	(16 ⁺)	3468.2	(14 ⁺)	(E2)	DCO=1.03 8 for 1373.0+1371.4+1370.9.
1406.4 9	20.3 20	8214.1	(21 ⁻)	6807.7	(19 ⁻)	E2	DCO=0.98 9.
1414.2	4.7 12	6722.1	(19 ⁺)	5307.8	(17 ⁺)		
1424.2	8 3	6957.6	(19 ⁺)	5532.9	(17 ⁺)		
1425.2 9	21.9 20	7460.7	(20 ⁻)	6035.4	(18 ⁻)	E2	DCO=1.06 10.
1436.3 8	6.4 7	1710.7	(9 ⁻)	274.4	(8 ⁺)		
1448.1 10	10.9 15	6722.1	(19 ⁺)	5274.1	(17 ⁺)		
1456.2	1.8 5	8429	(21 ⁻)	6972.6	(19 ⁻)		
1475.5 14	10.0 20	9381.7	(23 ⁺)	7906.2	(21 ⁺)	E2	DCO=0.98 15.
1514.4 10	15.6 16	9728.6	(23 ⁻)	8214.1	(21 ⁻)	E2	DCO=1.11 15.
1520.8 15	6.3 10	6361.5	(18 ⁺)	4840.6	(16 ⁺)		
1548.0 15	11.5 18	8270.1	(21 ⁺)	6722.1	(19 ⁺)		
1604.0 15	5.6 12	7965.5	(20 ⁺)	6361.5	(18 ⁺)		
1604.1 10	14.2 15	9064.8	(22 ⁻)	7460.7	(20 ⁻)	E2	DCO=1.14 12.

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$^{58}\text{Ni}(\text{³²S},\text{3pn}\gamma)$ **2000Wi10,1997Ta10,1999Co10 (continued)**

$\gamma(^{86}\text{Nb})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]	Comments
1645 3	6 2	8603	(21 ⁺)	6957.6	(19 ⁺)		
1649 3	12 3	6957.6	(19 ⁺)	5307.8	(17 ⁺)		
1728.3 11	11.2 13	11456.9	(25 ⁻)	9728.6	(23 ⁻)	E2	DCO=0.99 13.
1782.3 17	5.7 18	10052.5	(23 ⁺)	8270.1	(21 ⁺)		
1801.7 12	9.6 12	10866.5	(24 ⁻)	9064.8	(22 ⁻)	E2	DCO=0.91 10.
1808 2	6.5 20	9774	(22 ⁺)	7965.5	(20 ⁺)		
1827 3	4 2	10430	(23 ⁺)	8603	(21 ⁺)		
1830 3	5.5 10	9649	(23 ⁻)	7819.3	(21 ⁻)		
1901 2	6.0 20	11283	(25 ⁺)	9381.7	(23 ⁺)		
1959.6 14	8.3 13	13417	(27 ⁻)	11456.9	(25 ⁻)		
1961 3	3.7 15	12013	(25 ⁺)	10052.5	(23 ⁺)		
1978 @		12407?	(25 ⁺)	10430	(23 ⁺)		
2019 3	2.8 7	12886	(26 ⁻)	10866.5	(24 ⁻)		
2209 3	<2	15095	(28 ⁻)	12886	(26 ⁻)		
2226 3	2.0 8	13509	(27 ⁺)	11283	(25 ⁺)		
2245 3	4 1	15662	(29 ⁻)	13417	(27 ⁻)		
2285 3	1.6 7	13568	(27 ⁺)	11283	(25 ⁺)		
2396 3	<2	18058	(31 ⁻)	15662	(29 ⁻)		
2729 @		20786?	(33 ⁻)	18058	(31 ⁻)		

[†] From 1997Ta10.

[‡] From $\gamma\gamma(\theta)$ (DCO) data and γ (lin pol) data for selected transitions. For $\Delta J=2$ stretched transitions, mult=E2 is from RUL.

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.

@ Placement of transition in the level scheme is uncertain.

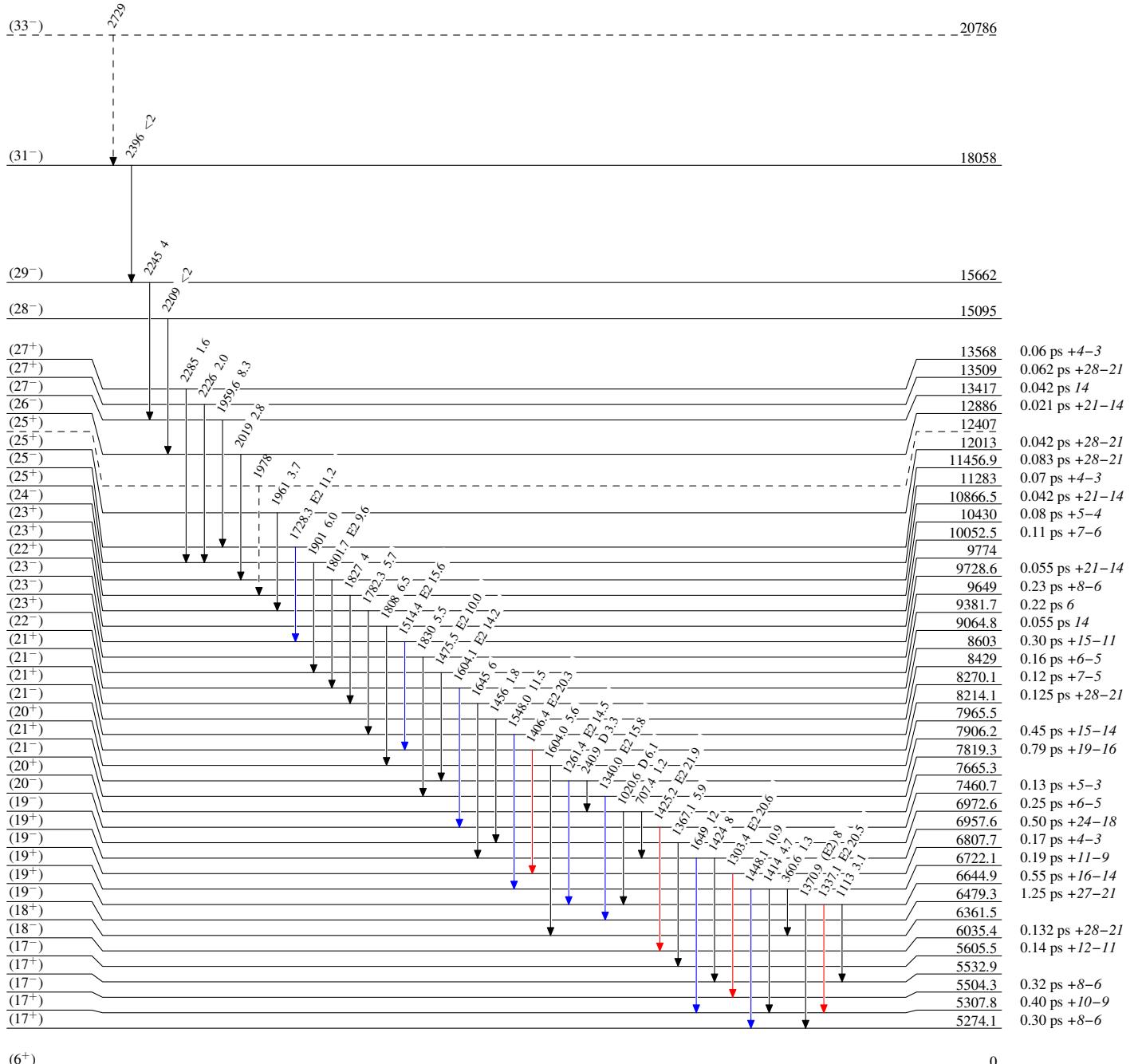
$^{58}\text{Ni}(\text{³²S},\text{3pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10

Legend

Level Scheme

Intensities: Relative I_γ

- $I_\gamma < 2\% \times I_{\gamma}^{\max}$
- $I_\gamma < 10\% \times I_{\gamma}^{\max}$
- $I_\gamma > 10\% \times I_{\gamma}^{\max}$
- - - → γ Decay (Uncertain)



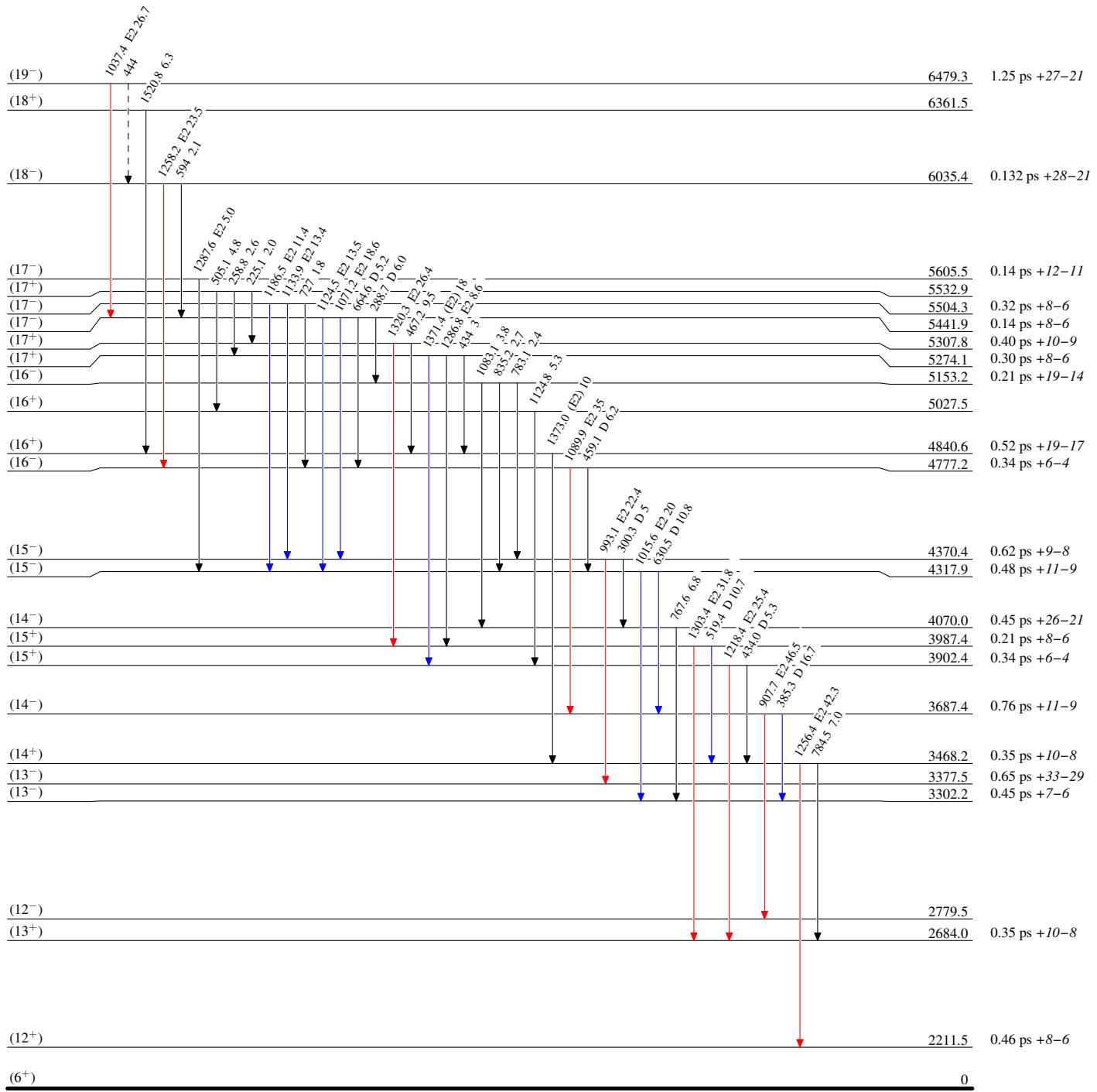
$^{58}\text{Ni}(^{32}\text{S},3\text{pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10

Level Scheme (continued)

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_{\gamma}^{\max}$
- $I_\gamma < 10\% \times I_{\gamma}^{\max}$
- $I_\gamma > 10\% \times I_{\gamma}^{\max}$
- - - - → γ Decay (Uncertain)

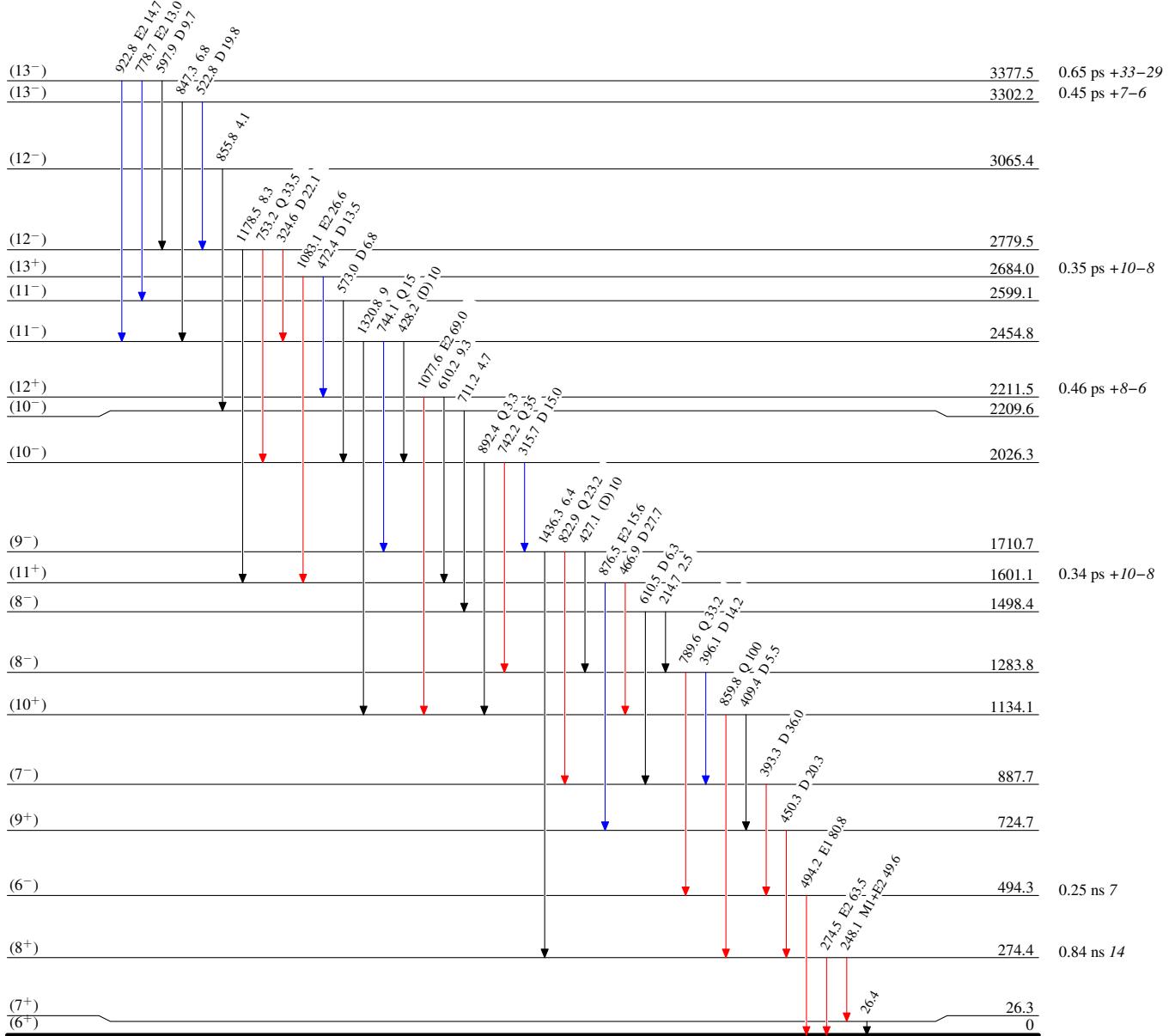


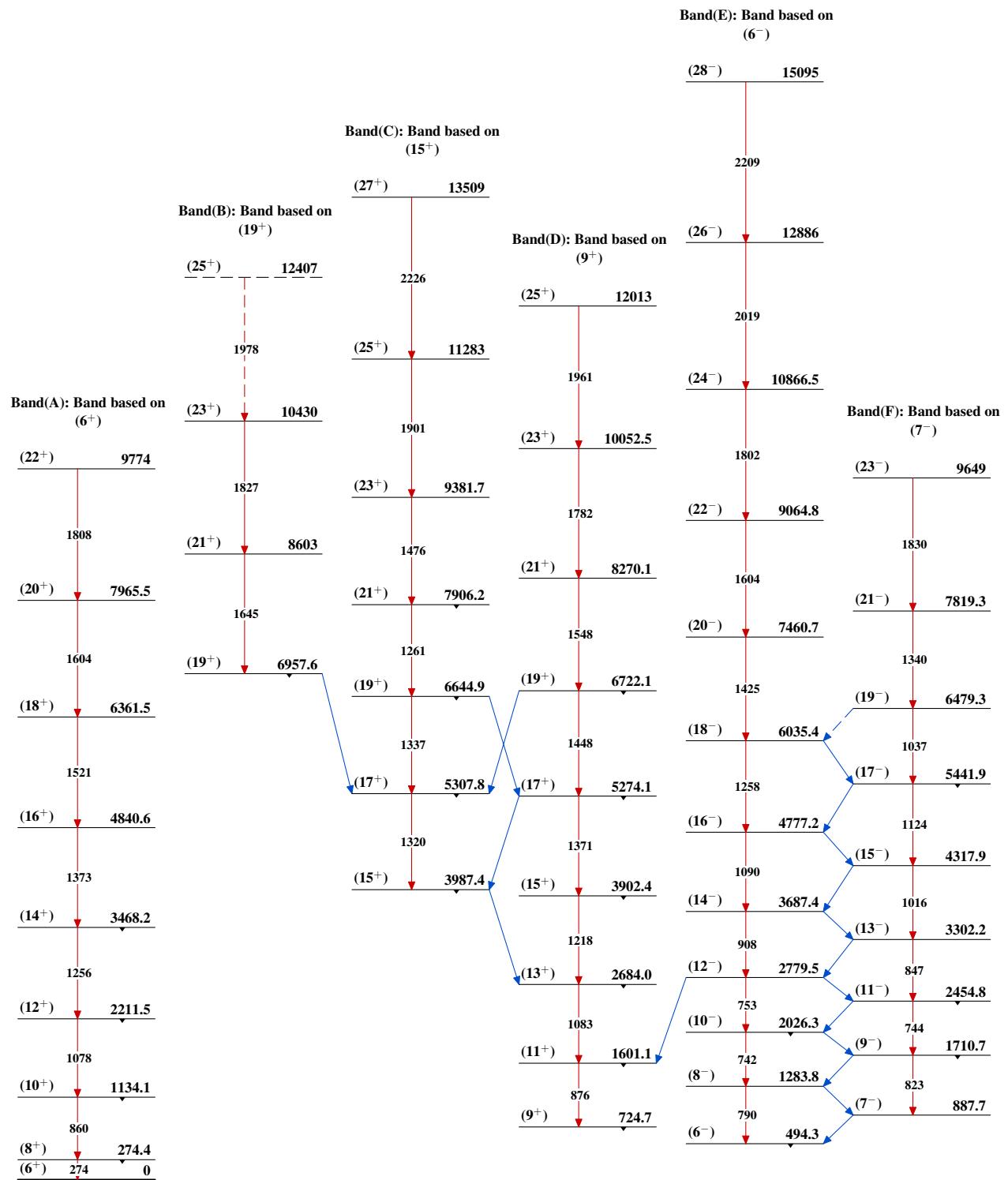
$^{58}\text{Ni}(\text{³²S},\text{3pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- γ Decay (Uncertain)

Level Scheme (continued)

Intensities: Relative I_γ 

$^{58}\text{Ni}(\text{³²S},\text{3pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10

$^{58}\text{Ni}(\text{³²S},\text{3pn}\gamma)$ 2000Wi10,1997Ta10,1999Co10 (continued)

