

¹⁰⁴Pd(³²S,3pn γ) 1998Pe05,1998Pe06,2001Ko30

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	10-Feb-2005

Includes ¹¹⁷Sn(¹⁹F,4n γ) from 2001Ko30 and ¹⁰⁰Mo(³⁷Cl,5n γ) from 1994Ha28.

1998Pe05, 1998Pe06: ¹⁰⁴Pd(³²S,3pn γ) E=160 MeV. Measured E γ and $\gamma\gamma$ using GASP spectrometer, consisting of 40

Compton-suppressed Ge detectors and an 80-element BGO ball. Light charged particles were detected with the ISIS ball, composed of 40 Δ E-E Si telescopes.

2001Ko30: ¹¹⁷Sn(¹⁹F,4n γ) E=88 MeV. Measured E γ and $\gamma\gamma$ using a Compton-suppressed HPGe detector array in conjunction with a 14 element BGO multiplicity filter.

1994Ha28: ¹⁰⁰Mo(³⁷Cl,5n γ) E=155 MeV. Measured E γ , I γ , $\gamma\gamma$ and $\gamma\gamma(\theta)$ (DCO) using EUROGAM (PHASE I) array consisting of 41 large-volume Compton escape-suppressed HPGe detectors.

Most data are from 1998Pe05 and 1998Pe06. 2001Ko30 give only selected members of a band interpreted as a Chiral doublet partner of h_{11/2}v_{h11/2} band with revised J π assignments for four levels in this band. 1994Ha28 provide date for 14 transitions only for one of the highly-deformed bands (band #4).

¹³²Pr Levels

E(level) [#]	J π [†]	Comments
0+x	5 ⁽⁺⁾	
58.0+x 15	6 ⁽⁺⁾	
87.0+x 12	6 ⁽⁺⁾	
98.0+x @ 10	6 ⁻	
145.0+x & 13	7 ⁻	
261.0+x @ 13	8 ⁻	
381.0+x 13	7 ⁺	
405.0+x ^a 15	8 ⁺	
439.0+x & 14	9 ⁻	
468.2+x ^b 16	9 ⁺	
598.1+x ^a 16	10 ⁺	
668.0+x @ 14	10 ⁻	
804.9+x 17	(10 ⁺)	J π : (9 ⁺) in Adopted Levels.
864.1+x ^b 17	11 ⁺	
945.1+x ^b 15	11 ⁻	
1104.2+x ^a 18	12 ⁺	
1174.8+x ^f 17	(11 ⁺)	
1194.0+x ^e 18	(11 ⁺) [‡]	
1257.0+x @ 16	12 ⁻	
1487.9+x ^b 18	13 ⁺	
1500.0+x ^d 18	(12 ⁺) [‡]	
1609.0+x & 17	13 ⁻	
1715.9+x ^f 18	(13 ⁺)	
1809.6+x ^a 19	14 ⁺	
1925.0+x ^e 21	(13 ⁺) [‡]	J π : (14 ⁺) (1998Pe06).
1985.1+x @ 17	14 ⁻	
2262.8+x ^b 19	15 ⁺	
2293.0+x ^d 23	(14 ⁺) [‡]	J π : (16 ⁺) (1998Pe06).
2376.9+x ^f 21	(15 ⁺)	
2392.1+x & 18	15 ⁻	
2657.5+x ^a 20	16 ⁺	

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$^{104}\text{Pd}(^{32}\text{S},3\text{pn}\gamma)$ 1998Pe05,1998Pe06,2001Ko30 (continued) ^{132}Pr Levels (continued)

E(level) [#]	J^π [†]	Comments
2810.1+x [@] 18	16 ⁻	J^π : (18 ⁺) (1998Pe06). However, according to J^π assignments by 2001Ko30 for this band, (16 ⁺) is more likely. This level is not included in the partial level scheme of 2001Ko30.
3101.0+x ^e 25		
3121.9+x ^f 23	(17 ⁺)	
3142.2+x ^b 20	17 ⁺	
3245.1+x ^{&} 19	17 ⁻	
3599.3+x ^a 21	18 ⁺	
3687.1+x [@] 20	18 ⁻	
3914.2+x ^f 23	(19 ⁺)	
4073.2+x ^b 21	19 ⁺	
4115.1+x ^{&} 21	19 ⁻	
4562.3+x ^a 22	20 ⁺	
4563.0+x [@] 22	20 ⁻	
4565.3+x ^c 22	20 ⁺	
4751.3+x ^f 23	(21 ⁺)	
4997.1+x ^{&} 24	21 ⁻	
5002.3+x ^b 22	21 ⁺	
5481.0+x [@] 24	22 ⁻	
5524.3+x ^c 24	22 ⁺	
5562.3+x ^a 24	22 ⁺	
5663.4+x ^f 23	(23 ⁺)	
5953+x ^{&} 3	23 ⁻	
5957.3+x ^b 24	23 ⁺	
6479+x [@] 3	24 ⁻	
6587+x ^c 3	24 ⁺	
6624+x ^a 3	24 ⁺	
6672.2+x ^f 23	(25 ⁺)	
6984+x ^b 3	25 ⁺	
7004+x ^{&} 3	25 ⁻	
7581+x [@] 3	26 ⁻	
7745+x ^c 3	26 ⁺	
7784.3+x ^f 23	(27 ⁺)	
8085+x ^b 3	27 ⁺	
8993+x ^c 3	28 ⁺	
8998+x ^f 3	(29 ⁺)	
9230+x ^b 3	29 ⁺	
10304+x ^f 3	(31 ⁺)	
10318+x ^c 3	30 ⁺	
10403+x ^b 4	31 ⁺	
11588+x ^b 4	33 ⁺	
11707+x ^f 3	(33 ⁺)	
y ^g	J	
695.30+y ^g 20	J+2	
1460.2+y ^g 3	J+4	
2300.0+y ^g 4	J+6	
3211.7+y ^g 6	J+8	
4195.5+y ^g 8	J+10	

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¹⁰⁴Pd(³²S,3pn γ) **1998Pe05,1998Pe06,2001Ko30** (continued)

¹³²Pr Levels (continued)

E(level) [#]	J π [†]	E(level) [#]	J π [†]	E(level) [#]	J π [†]
5250.6+y ^g 10	J+12	7830.3+z ^h 12	J1+18	11941.9+u ⁱ 25	J2+22
6377.1+y ^g 11	J+14	9064.1+z ^h 16	J1+20	v ^j	J3 \approx (16)
7575.6+y ^g 12	J+16	10370.0+z ^h 19	J1+22	736.0+v ^j 10	J3+2
8848.4+y ^g 16	J+18	11754.3+z ^h 21	J1+24	1541.0+v ^j 11	J3+4
10196.1+y ^g 19	J+20	13218.4+z ^h 24	J1+26	2410.6+v ^j 11	J3+6
11622.8+y ^g 21	J+22	u ⁱ	J2 \approx (12)	3291.6+v ^j 12	J3+8
13130.9+y ^g 24	J+24	709.0+u ⁱ 10	J2+2	4210.0+v ^j 13	J3+10
z ^h	J1 \approx (12)	1447.2+u ⁱ 11	J2+4	5207.5+v ^j 14	J3+12
564.90+z ^h 20	J1+2	2261.1+u ⁱ 11	J2+6	6282.8+v ^j 15	J3+14
1205.8+z ^h 3	J1+4	3159.0+u ⁱ 12	J2+8	7427.1+v ^j 16	J3+16
1933.7+z ^h 4	J1+6	4148.0+u ⁱ 13	J2+10	8628.4+v ^j 19	J3+18
2736.1+z ^h 4	J1+8	5225.8+u ⁱ 14	J2+12	9884.3+v ^j 21	J3+20
3612.3+z ^h 7	J1+10	6392.4+u ⁱ 15	J2+14	11207.9+v ^j 23	J3+22
4560.2+z ^h 9	J1+12	7647.8+u ⁱ 18	J2+16	12617+v ^j 3	J3+24
5578.5+z ^h 10	J1+14	8989.9+u ⁱ 21	J2+18	14125+v ^j 3	J3+26
6669.2+z ^h 11	J1+16	10414.9+u ⁱ 23	J2+20	15734+v ^j 3	J3+28

[†] From 1998Pe05 and 1998Pe06, unless otherwise stated.

[‡] From 2001Ko30.

[#] From least-squares fit to E γ 's.

@ Band(A): Band based on 6⁻, $\alpha=0$.

& Band(a): Band based on 6⁻, $\alpha=1$.

^a Band(B): $\pi h_{11/2} \nu h_{11/2}$, $\alpha=0$.

^b Band(b): $\pi h_{11/2} \nu h_{11/2}$, $\alpha=1$.

^c Band(C): Band based on 20⁺.

^d Band(D): Chiral doublet partner of $\pi h_{11/2} \nu h_{11/2}$, $\alpha=0$. (2001Ko30).

^e Band(d): Chiral doublet partner of $\pi h_{11/2} \nu h_{11/2}$, $\alpha=1$. (2001Ko30).

^f Band(E): Highly-deformed band (1998Pe06,1994Ha28), $\alpha=1$. Configuration= $\pi h_{11/2}^3 \nu(f_{7/2}/h_{9/2})$. Percent population ≈ 9

(1998Pe06). 1998Pe06 proposed that this band and SD-3 band are signature partners, but this conclusion is not confirmed by 1999Ko21 who propose configuration= $\pi h_{11/2} \nu(f_{7/2}/h_{9/2})$ for this band.

^g Band(F): Highly-deformed (SD-1) band (1998Pe06). Band is built on $\pi g_{9/2} \nu i_{13/2}$ configuration. Percent population ≈ 1.4 .

^h Band(G): Highly-deformed (SD-2) band (1998Pe06). Band is built on $\pi g_{9/2} \nu i_{13/2}$ configuration. Percent population ≈ 1.4 .

ⁱ Band(H): Highly-deformed (SD-3) band (1998Pe06). Configuration= $\pi h_{11/2}^3 \nu(f_{7/2}/h_{9/2})$, $\alpha=0$. Percent population ≈ 1.4 . See also comment for decoupled band starting at 1174.8+x.

^j Band(I): Highly-deformed (SD-4) band (1998Pe06). Percent population ≈ 2.4 .

$\gamma(^{132}\text{Pr})$

E γ [†]	E _i (level)	J _i π	E _f	J _f π	E γ [†]	E _i (level)	J _i π	E _f	J _f π
24 [#]	405.0+x	8 ⁺	381.0+x	7 ⁺	130	598.1+x	10 ⁺	468.2+x	9 ⁺
40	98.0+x	6 ⁻	58.0+x	6 ⁽⁺⁾	163	261.0+x	8 ⁻	98.0+x	6 ⁻
47	145.0+x	7 ⁻	98.0+x	6 ⁻	178	439.0+x	9 ⁻	261.0+x	8 ⁻
58	145.0+x	7 ⁻	87.0+x	6 ⁽⁺⁾	193	598.1+x	10 ⁺	405.0+x	8 ⁺
63	468.2+x	9 ⁺	405.0+x	8 ⁺	229	668.0+x	10 ⁻	439.0+x	9 ⁻
98	98.0+x	6 ⁻	0+x	5 ⁽⁺⁾	236	381.0+x	7 ⁺	145.0+x	7 ⁻
116	261.0+x	8 ⁻	145.0+x	7 ⁻	240	1104.2+x	12 ⁺	864.1+x	11 ⁺

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¹⁰⁴Pd(³²S,3pn γ) **1998Pe05,1998Pe06,2001Ko30 (continued)**

γ (¹³²Pr) (continued)

E_γ [†]	I_γ [‡]	E_i (level)	J_i^π	E_f	J_f^π	Comments
266		864.1+x	11 ⁺	598.1+x	10 ⁺	
277		945.1+x	11 ⁻	668.0+x	10 ⁻	
283		381.0+x	7 ⁺	98.0+x	6 ⁻	
294		381.0+x	7 ⁺	87.0+x	6 ⁽⁺⁾	
294		439.0+x	9 ⁻	145.0+x	7 ⁻	
306		1500.0+x	(12 ⁺)	1194.0+x	(11 ⁺)	
307		405.0+x	8 ⁺	98.0+x	6 ⁻	
312		1257.0+x	12 ⁻	945.1+x	11 ⁻	
322		1809.6+x	14 ⁺	1487.9+x	13 ⁺	
352		1609.0+x	13 ⁻	1257.0+x	12 ⁻	
368		2293.0+x	(14 ⁺)	1925.0+x	(13 ⁺)	
370		1174.8+x	(11 ⁺)	804.9+x	(10 ⁺)	
376		1985.1+x	14 ⁻	1609.0+x	13 ⁻	
384		1487.9+x	13 ⁺	1104.2+x	12 ⁺	
395		2657.5+x	16 ⁺	2262.8+x	15 ⁺	
396		864.1+x	11 ⁺	468.2+x	9 ⁺	
400		804.9+x	(10 ⁺)	405.0+x	8 ⁺	
407		668.0+x	10 ⁻	261.0+x	8 ⁻	
407		2392.1+x	15 ⁻	1985.1+x	14 ⁻	
418		2810.1+x	16 ⁻	2392.1+x	15 ⁻	
425		1925.0+x	(13 ⁺)	1500.0+x	(12 ⁺)	
435		3245.1+x	17 ⁻	2810.1+x	16 ⁻	
437		5002.3+x	21 ⁺	4565.3+x	20 ⁺	
440		5002.3+x	21 ⁺	4562.3+x	20 ⁺	
442		3687.1+x	18 ⁻	3245.1+x	17 ⁻	
453		2262.8+x	15 ⁺	1809.6+x	14 ⁺	
457		3599.3+x	18 ⁺	3142.2+x	17 ⁺	
474		4073.2+x	19 ⁺	3599.3+x	18 ⁺	
485		3142.2+x	17 ⁺	2657.5+x	16 ⁺	
489		4562.3+x	20 ⁺	4073.2+x	19 ⁺	
492		4565.3+x	20 ⁺	4073.2+x	19 ⁺	
506		945.1+x	11 ⁻	439.0+x	9 ⁻	
506		1104.2+x	12 ⁺	598.1+x	10 ⁺	
521.8 2	0.10 1	1715.9+x	(13 ⁺)	1194.0+x	(11 ⁺)	E_γ : from 1994Ha28.
541	0.66 3	1715.9+x	(13 ⁺)	1174.8+x	(11 ⁺)	E_γ : 540.9 2 (1994Ha28). DCO=1.28 10 (1994Ha28).
564.9 2		564.90+z	J1+2	z	J1 \approx (12)	
577.0 2	0.55 2	1174.8+x	(11 ⁺)	598.1+x	10 ⁺	E_γ : from 1994Ha28. DCO=0.56.
589		1257.0+x	12 ⁻	668.0+x	10 ⁻	
596.0 2	0.10 1	1194.0+x	(11 ⁺)	598.1+x	10 ⁺	E_γ : from 1994Ha28. DCO=0.66.
624		1487.9+x	13 ⁺	864.1+x	11 ⁺	
636		1500.0+x	(12 ⁺)	864.1+x	11 ⁺	E_γ : from 2001Ko30.
640.9 2		1205.8+z	J1+4	564.90+z	J1+2	
660.9 2	1.00 4	2376.9+x	(15 ⁺)	1715.9+x	(13 ⁺)	E_γ : 660.8 2 (1994Ha28). DCO=0.92 5 (1994Ha28).
664		1609.0+x	13 ⁻	945.1+x	11 ⁻	
695.3 2		695.30+y	J+2	y	J	
705		1809.6+x	14 ⁺	1104.2+x	12 ⁺	
706		1174.8+x	(11 ⁺)	468.2+x	9 ⁺	
709 1		709.0+u	J2+2	u	J2 \approx (12)	
727.9 2		1933.7+z	J1+6	1205.8+z	J1+4	
728		1985.1+x	14 ⁻	1257.0+x	12 ⁻	
736 1		736.0+v	J3+2	v	J3 \approx (16)	
738.2 2		1447.2+u	J2+4	709.0+u	J2+2	

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¹⁰⁴Pd(³²S,3pnγ) **1998Pe05,1998Pe06,2001Ko30** (continued)

γ(¹³²Pr) (continued)

<u>E_γ[†]</u>	<u>I_γ[‡]</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Comments</u>
745.0 2	0.80 3	3121.9+x	(17 ⁺)	2376.9+x	(15 ⁺)	E _γ : 745.1 2 (1994Ha28). DCO=1.00 7 (1994Ha28).
764.9 2		1460.2+y	J+4	695.30+y	J+2	
775		2262.8+x	15 ⁺	1487.9+x	13 ⁺	
783		2392.1+x	15 ⁻	1609.0+x	13 ⁻	
792.3 2	0.80 9	3914.2+x	(19 ⁺)	3121.9+x	(17 ⁺)	E _γ : 792.4 2 (1994Ha28). DCO=1.10 7 (1994Ha28).
802.4 2		2736.1+z	J1+8	1933.7+z	J1+6	
805.0 2		1541.0+v	J3+4	736.0+v	J3+2	
808		3101.0+x		2293.0+x	(14 ⁺)	
813.9 2		2261.1+u	J2+6	1447.2+u	J2+4	
825		2810.1+x	16 ⁻	1985.1+x	14 ⁻	
837.1 2	0.58 3	4751.3+x	(21 ⁺)	3914.2+x	(19 ⁺)	E _γ : 837.4 2 (1994Ha28).
839.8 2		2300.0+y	J+6	1460.2+y	J+4	
848		2657.5+x	16 ⁺	1809.6+x	14 ⁺	
853		3245.1+x	17 ⁻	2392.1+x	15 ⁻	
869.6 2		2410.6+v	J3+6	1541.0+v	J3+4	
870		4115.1+x	19 ⁻	3245.1+x	17 ⁻	
876		4563.0+x	20 ⁻	3687.1+x	18 ⁻	
876.2 5		3612.3+z	J1+10	2736.1+z	J1+8	
877		3687.1+x	18 ⁻	2810.1+x	16 ⁻	
879		3142.2+x	17 ⁺	2262.8+x	15 ⁺	
881.0 5		3291.6+v	J3+8	2410.6+v	J3+6	
882		4997.1+x	21 ⁻	4115.1+x	19 ⁻	
897.9 5		3159.0+u	J2+8	2261.1+u	J2+6	
911.7 5		3211.7+y	J+8	2300.0+y	J+6	
912.1 2	0.57 2	5663.4+x	(23 ⁺)	4751.3+x	(21 ⁺)	E _γ : 912.5 2 (1994Ha28).
918		5481.0+x	22 ⁻	4563.0+x	20 ⁻	
918.4 5		4210.0+v	J3+10	3291.6+v	J3+8	
929		5002.3+x	21 ⁺	4073.2+x	19 ⁺	
931		4073.2+x	19 ⁺	3142.2+x	17 ⁺	E _γ : 933 (2001Ko30).
942		3599.3+x	18 ⁺	2657.5+x	16 ⁺	
947.9 5		4560.2+z	J1+12	3612.3+z	J1+10	
955		5957.3+x	23 ⁺	5002.3+x	21 ⁺	
956		5953+x	23 ⁻	4997.1+x	21 ⁻	
959		5524.3+x	22 ⁺	4565.3+x	20 ⁺	
963		4562.3+x	20 ⁺	3599.3+x	18 ⁺	
966		4565.3+x	20 ⁺	3599.3+x	18 ⁺	
983.8 5		4195.5+y	J+10	3211.7+y	J+8	
989.0 5		4148.0+u	J2+10	3159.0+u	J2+8	
997.5 5		5207.5+v	J3+12	4210.0+v	J3+10	
998		6479+x	24 ⁻	5481.0+x	22 ⁻	
1000		5562.3+x	22 ⁺	4562.3+x	20 ⁺	
1008.8 5	0.42 2	6672.2+x	(25 ⁺)	5663.4+x	(23 ⁺)	E _γ : 1010.0 2 (1994Ha28).
1018.3 5		5578.5+z	J1+14	4560.2+z	J1+12	
1027		6984+x	25 ⁺	5957.3+x	23 ⁺	
1051		7004+x	25 ⁻	5953+x	23 ⁻	
1055.1 5		5250.6+y	J+12	4195.5+y	J+10	
1062		6624+x	24 ⁺	5562.3+x	22 ⁺	
1063		6587+x	24 ⁺	5524.3+x	22 ⁺	
1075.3 5		6282.8+v	J3+14	5207.5+v	J3+12	
1077.8 5		5225.8+u	J2+12	4148.0+u	J2+10	
1090.7 5		6669.2+z	J1+16	5578.5+z	J1+14	
1101		8085+x	27 ⁺	6984+x	25 ⁺	
1102		7581+x	26 ⁻	6479+x	24 ⁻	
1112.1 5	0.24 2	7784.3+x	(27 ⁺)	6672.2+x	(25 ⁺)	E _γ : 1113.5 2 (1994Ha28).

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¹⁰⁴Pd(³²S,3pn γ) **1998Pe05,1998Pe06,2001Ko30 (continued)**

$\gamma(^{132}\text{Pr})$ (continued)

E_γ^\dagger	I_γ^\ddagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
1126.5	5	6377.1+y	J+14	5250.6+y	J+12	
1144.3	5	7427.1+v	J3+16	6282.8+v	J3+14	
1145		9230+x	29 ⁺	8085+x	27 ⁺	
1158		7745+x	26 ⁺	6587+x	24 ⁺	
1161.1	5	7830.3+z	J1+18	6669.2+z	J1+16	
1166.6	5	6392.4+u	J2+14	5225.8+u	J2+12	
1173		10403+x	31 ⁺	9230+x	29 ⁺	
1185		11588+x	33 ⁺	10403+x	31 ⁺	
1198.5	5	7575.6+y	J+16	6377.1+y	J+14	
1201.4	10	8628.4+v	J3+18	7427.1+v	J3+16	
1213.5	5	8998+x	(29 ⁺)	7784.3+x	(27 ⁺)	E_γ : 1217.3 2 (1994Ha28).
1233.8	10	9064.1+z	J1+20	7830.3+z	J1+18	
1248		8993+x	28 ⁺	7745+x	26 ⁺	
1255.4	10	7647.8+u	J2+16	6392.4+u	J2+14	
1255.8	10	9884.3+v	J3+20	8628.4+v	J3+18	
1272.8	10	8848.4+y	J+18	7575.6+y	J+16	
1305.7	10	10304+x	(31 ⁺)	8998+x	(29 ⁺)	E_γ : 1308.0 2 (1994Ha28).
1305.9	10	10370.0+z	J1+22	9064.1+z	J1+20	
1323.6	10	11207.9+v	J3+22	9884.3+v	J3+20	
1325		10318+x	30 ⁺	8993+x	28 ⁺	
1342.1	10	8989.9+u	J2+18	7647.8+u	J2+16	
1347.7	10	10196.1+y	J+20	8848.4+y	J+18	
1384.3	10	11754.3+z	J1+24	10370.0+z	J1+22	
1403.4	10	11707+x	(33 ⁺)	10304+x	(31 ⁺)	E_γ : 1406 1 (1994Ha28).
1408.9	10	12617+v	J3+24	11207.9+v	J3+22	
1425.0	10	10414.9+u	J2+20	8989.9+u	J2+18	
1426.7	10	11622.8+y	J+22	10196.1+y	J+20	
1464	1	13218.4+z	J1+26	11754.3+z	J1+24	
1508	1	13130.9+y	J+24	11622.8+y	J+22	
1508.0	10	14125+v	J3+26	12617+v	J3+24	
1527	1	11941.9+u	J2+22	10414.9+u	J2+20	
1609	1	15734+v	J3+28	14125+v	J3+26	

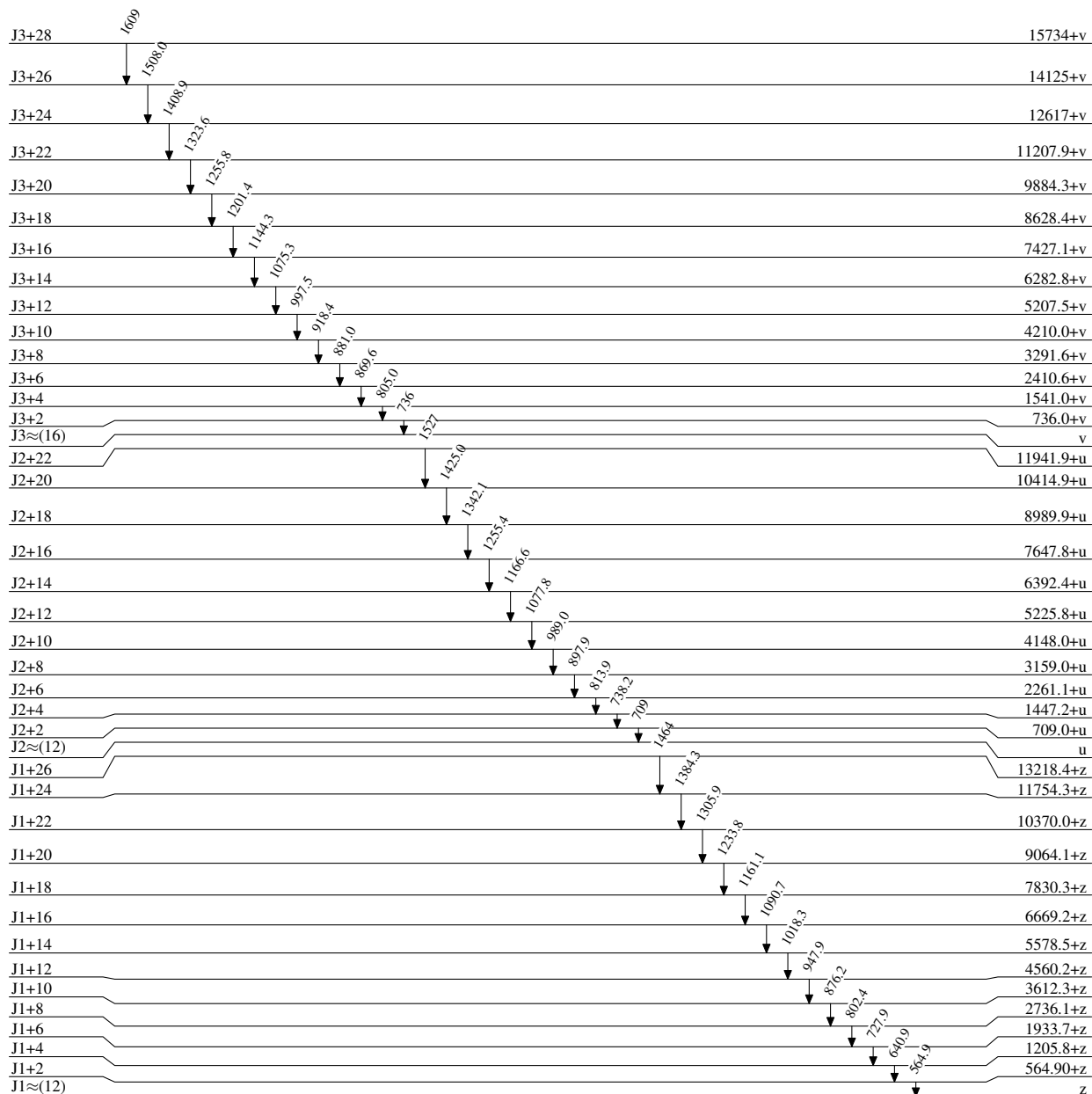
[†] From 1998Pe05 and 1998Pe06, unless otherwise stated.

[‡] Relative intensities within the band from 1994Ha28.

[#] Placement of transition in the level scheme is uncertain.

$^{104}\text{Pd}(^{32}\text{S},^{3}\text{pn}\gamma)$ 1998Pe05,1998Pe06,2001Ko30

Level Scheme

Intensities: Relative I_γ 

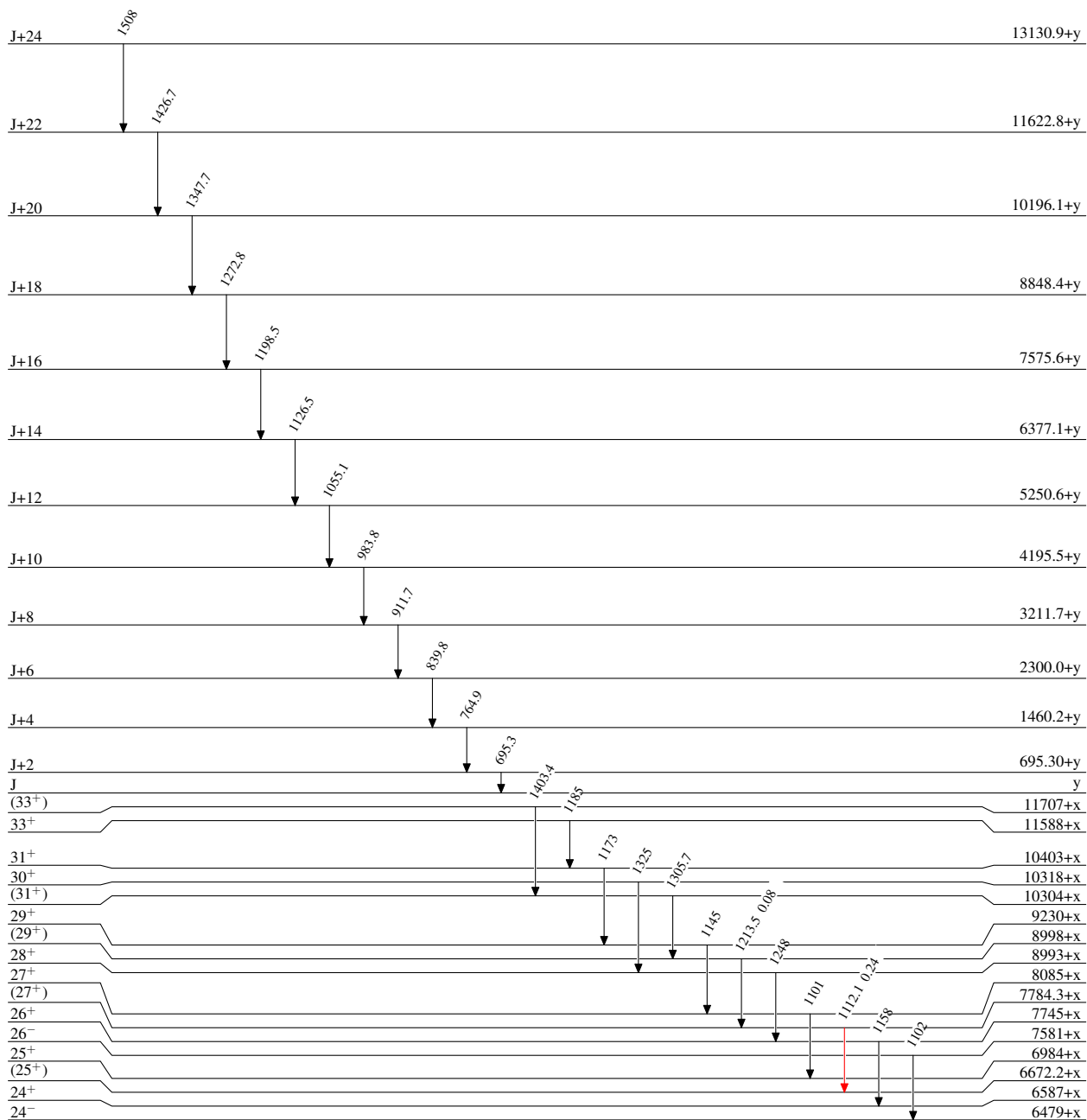
¹⁰⁴Pd(³²S,3pn γ) 1998Pe05,1998Pe06,2001Ko30

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}



¹³²Pr₇₃

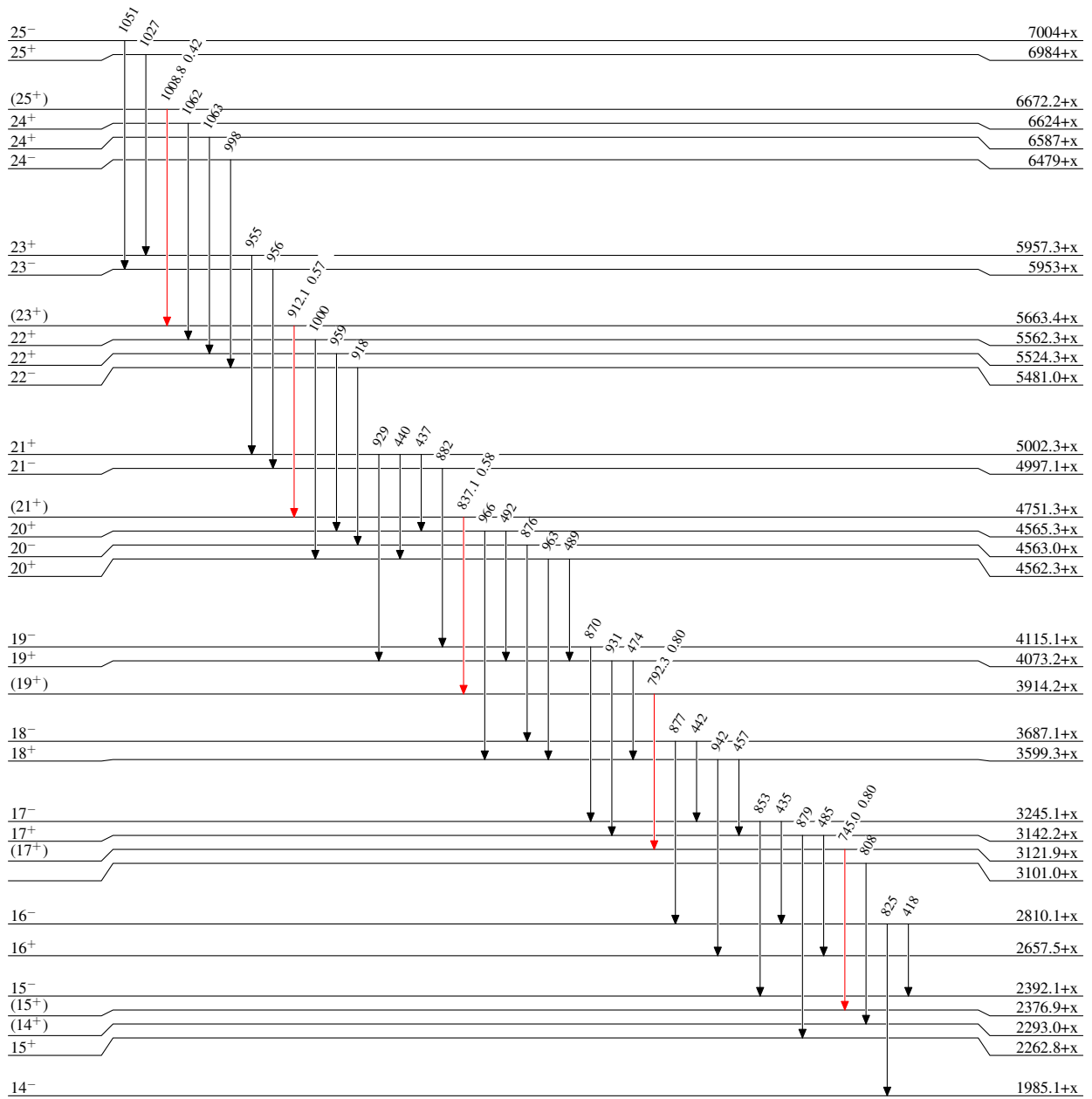
¹⁰⁴Pd(³²S,3pn γ) 1998Pe05,1998Pe06,2001Ko30

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}



¹³²Pr₇₃

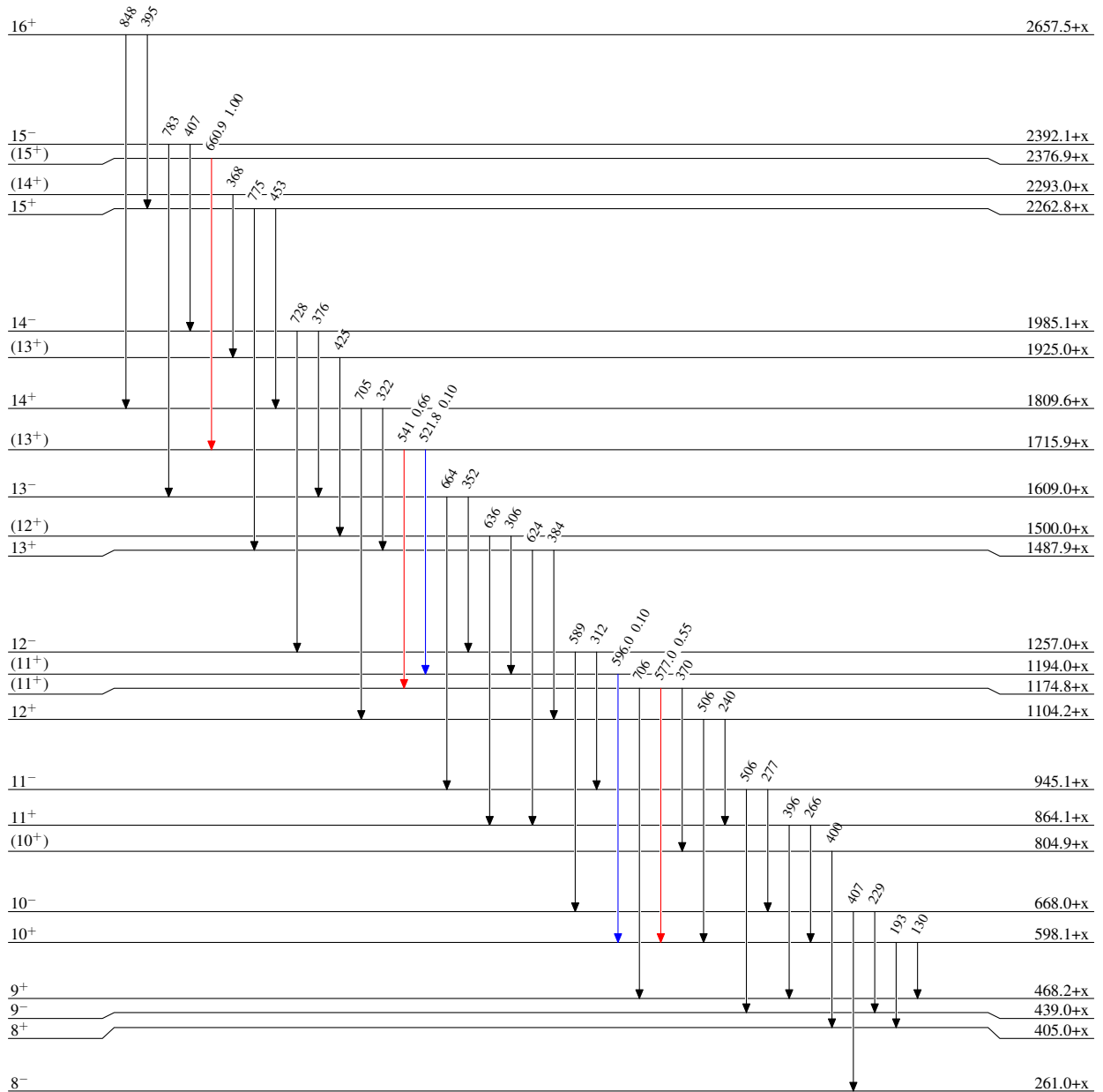
¹⁰⁴Pd(³²S,3pn γ) 1998Pe05,1998Pe06,2001Ko30

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}



¹³²Pr₇₃

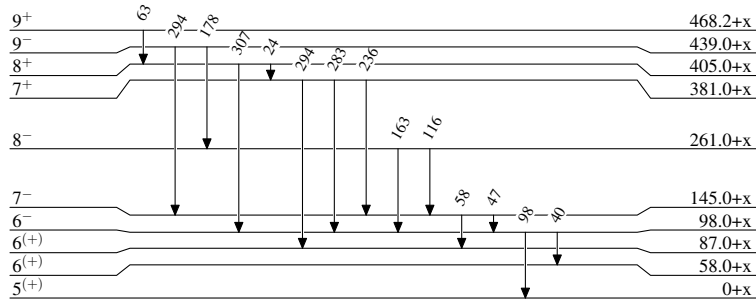
$^{104}\text{Pd}(^{32}\text{S},3\text{pn}\gamma)$ 1998Pe05,1998Pe06,2001Ko30

Legend

Level Scheme (continued)

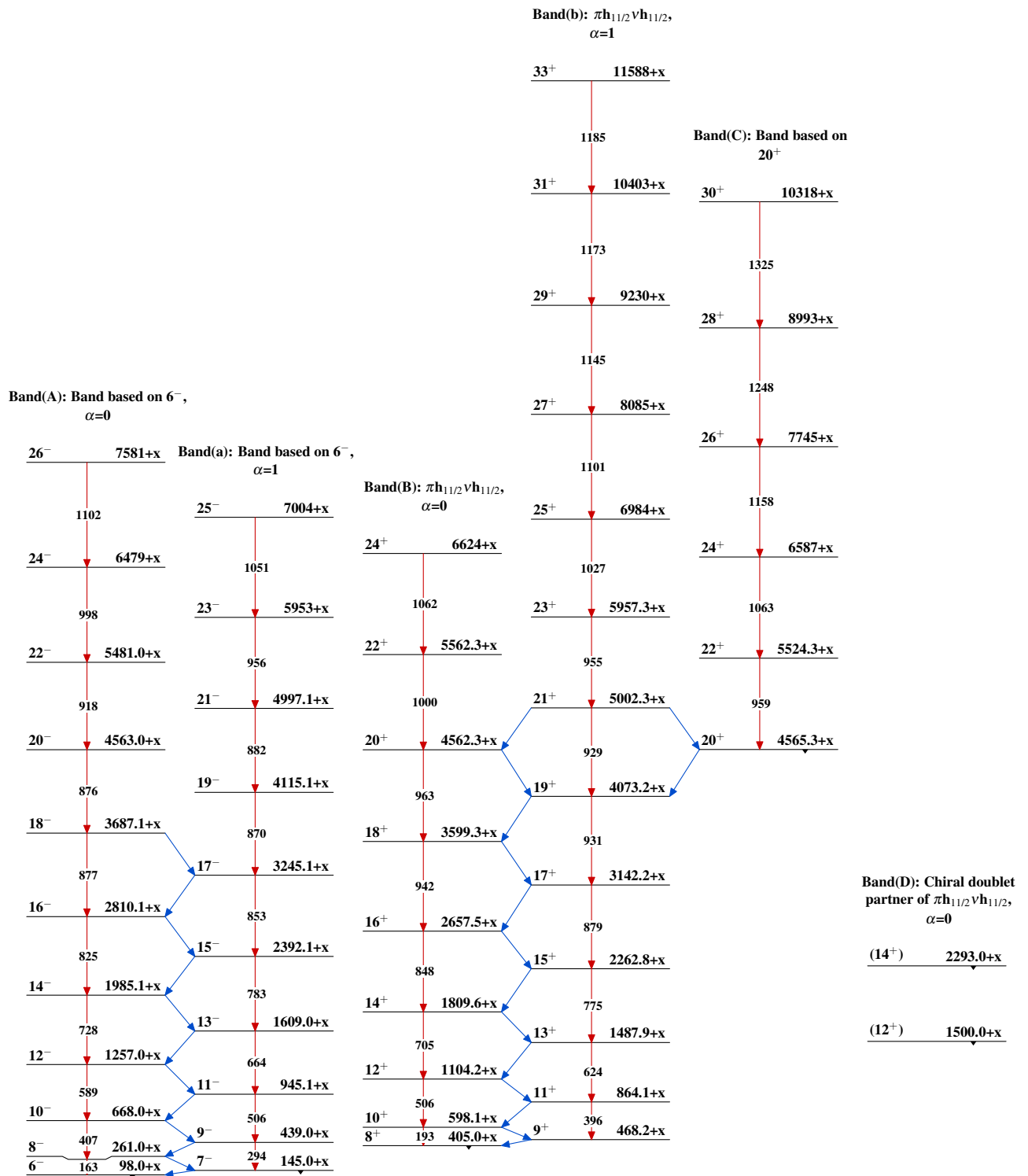
Intensities: Relative I_γ

-----► γ Decay (Uncertain)



$^{132}\text{Pr}_{73}$

¹⁰⁴Pd(³²S,3pn γ) 1998Pe05,1998Pe06,2001Ko30



$^{104}\text{Pd}(^{32}\text{S},3\text{pn}\gamma)$ 1998Pe05,1998Pe06,2001Ko30 (continued)Band(I): Highly-deformed (SD-4)
band (1998Pe06)