

Table of New Moment Values

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Nucleus	Ex	T1/2	I	μ (nm)	Q(b)	[Ref. Std.]	Method	Reference	entry date M/D/Y	notes and assoc. refs.
3 Li 7	0	stable	3/2-		-0.0400(6)		CER	91Vi06 NP A530 475 (91)	4/11/97	reanalysis extra assumption
					-0.0400(3)		CER	91Vi06 NP A530 475 (91)	4/11/97	
					-0.0406(8)		re-evaluation	89Ba80 Aust.JP 42 597 (89)	17/7/79	
3 Li 8	0	842 ms	2+		+0.0311(5)	[7Li]	CFB/ β -NMR	88Ar17 ZP A331 295 (88)	1/8/97	rev new 7Li
					0.0327(6)	[7Li]	β -NNQR	92Mi18 PRL 69 2058 (92)	9/7/97	93Mi34, 93ArZY
					sign positive	[6,7Li]	NMR	94Ja05 NP A568 544 (94)	10/7/97	
3 Li 9	0	178 ms	3/2+		-0.0274(10)	[7Li]	CFB/ β -NMR	88Ar17 ZP A331 295 (88)	1/8/97	rev new 7Li
3 Li 11	0	7.7 ms	3/2-		-0.0312(45)	[7Li]	OP/ β -NMR	92Ar02 Plett B281 16 (92)	4/11/97	rev new 7Li
4 Be 9	0	stable	3/2-		+0.05288(38)	re-evaluation		91Su05 ChemPLett 177 91 (91)	22/7/97	
5 B 8	0	0.77 s	2+		0.063(5)	[11B]	β -NMR	90MaZA Osaka An Rpt p48 (89)	2/8/97	91SoZW
					0.0683(21)	[12B]	β -NNQR	92Mi18 PRL 69 2058 (92)	9/7/97	93Mi36
5 B 12	0	21 ms	1+	+1.00272(11)	0.01321(26)	[11B]	β -NMR	90Mi16 NP A516 365 (90)	9/7/97	92OhZW, 94Oh03
5 B 14	0	13.8 ms	2-	1.185(5)		[12B]	β -NMR	95Ok04 Plett 354B 41 (95)	9/7/97	93AsZZ, 93Ok02
					0.02984(75)	[12B]	β -NMR	96Iz01 PLett B366 51 (96)	25/7/97	96IzXX
5 B 15	0	10.3 ms	3/2-	2.659(15)		[12B]	β -NMR	95Ok04 Plett 354B 41 (95)	9/7/97	93AsZZ, 93Ok02
					0.0380(11)	[12B]	β -NMR	96Iz01 PLett B366 51 (96)	25/7/97	96IzXX
5 B 17	0	5.1 ms	(3/2-)	2.54(2)		[12B]	β -NMR	96Iz01 HFI 97/98 509 (96) (96)	25/7/97	
6 C 9	0	126 ms	3/2-	1.3914(5)			β -NMR	95Ma48 NP A588 153c (95)	10/7/97	96MaXX
7 N 12	0	11.0 ms	1+		0.0103(7)	[14N]	β -NNQR	94OhZY Osaka Ann Rpt p60 (93)	9/7/97	
7 N 14	0	stable	1+		+0.02001(10)		FBRFS	93Sc26 PR A47 4891 (3)	25/7/97	
7 N 17	0	4.17 s	1/2-	0.352(2)			β -NMR	96Iz01 HFI 97/98 509 (96) (96)	25/7/97	
8 O 13	0	8..6 ms	3/2-	1.3891 dK		[1H]	β -NMR	96MaXX HFI 97/98 519 (96)	11/7/97	Diam. and Knight shift corr.
					0.033(4)	[17O]	β -NMR	96Ma** RIKEN Rept 29 60 (96)	11/7/97	

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8 O 15	0	122 s	1/2-	0.71951(12) c			β -NMR	93Ta28 HFI 78 105 (93)	9/7/97	93TaZU, Chem shift corr.
8 O 19	0	27 s	5/2+	1.53195(7) c		[17O]	β -NMR β -NNQR	96Ma** Osaka Ann Rpt p69 (96) 96Ma** Osaka Ann Rpt p69 (96)	28/7/97 28/7/97	
					3.8(5)					
9 F 17	0	64.5 s	5/2+	+4.72130(25) c		[12B]	β -NMR	93Mi33 HFI 78 111 (93)	9/7/97	92Mi13, Chem shift corr.
9 F 20	0	11 s	2+	+2.093351(90) c			β -NMR	96Mi** Osaka Ann Rpt p44 (96)	28/7/97	Chem shift corr.
9 F 21	0	4.16 s	5/2+	3.925(50)			β -NMR	93Ok02 HFI 78 97 (93)	9/7/97	92OkZv, 93AsZZ
11 Na 23	0	stable	3/2+		+0.1089(32) +0.095(15) +0.104(1)		re-evaluation CER MS	92Su01 PRL 68 927 (92) 92Vo09 NP A549 281 (92) 94Py02 ChemPLett 227 221 (94)	4/4/97 22/7/97 25/7/97	
11 Na 27	0	0.29 s	5/2+		Q/Q(26Al)=1.39(4)		CFBLS/ β -NMR	96KeXX HFI 97/98 543 (96)	25/7/97	
11 Na 28	0	32 ms	1+		Q/Q(26Al)=-7.7(2)		CFBLS/ β -NMR	96KeXX HFI 97/98 543 (96)	25/7/97	
12 Mg 23	0	11.3 s	3/2+	0.5364(3)			β -NMR β -NNQR	93Fu06 Plett B307 278 (93) 96Ma*** Osaka Ann Rpt p64 (96)	4/7/97 8/7/97	
					1.252(51)					
12 Mg 24	1369	1.44 ps	2+		-0.29(3)		CER	90Gr11 PR C42 R471 (90)	2/3/97	
12 Mg 25	0	stable	5/2+		+0.1994(20)		AB	91Su13 NP A534 360 (91)	4/2/97	92Su01
12 Mg 26	1809	476 fs	2+		-0.209(19)		CER	91He09 PR C43 2546	4/1/97	
13 Al 26	0	7x10 ⁵ y	5+	+2.804(4)		[27Al]	ABLS ABLS	96Co04 JPhys G22 99 (96) 96Co04 JPhys G22 99 (96)	11/7/97 11/7/97	
					Q(26Al)/Q(27Al) = 1.25(10)					
13 Al 27	0	stable	5/2+		+0.1402(10)		re-evaluation	92Su01 PRL 68 927 (92)	4/4/97	
14 Si 33	0	6.332 s	(3/2+)	1.205(32)			β -RADOP	92Sh** RIKEN Rpt 25 43 (92)	4/3/97	
16 S 33	0	stable	3/2+		-0.678(13)		OMRS	90Su19 PR A42 1160 (90)	4/11/97	ab initio efg calc
16 S 35	0	87.4 d	3/2+		+0.0471(9)		OMRS	90Su19 PR A42 1160 (90)	4/11/97	ab initio efg calc
18 Ar 33	0	0.174 s	1/2+	-0.723(6)		[37Ar]	β -RADOP	96KI** NP A607 1 (96)	28/7/97	

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18 Ar 35	0	1.78s	3/2+	+0.633(7)		[37Ar]	β-RADOP	96Kl** NP A607 1 (96)	28/7/97	
					-0.084(15)	[37Ar]	β-RADOP	96Kl** NP A607 1 (96)	28/7/97	
18 Ar 37	0	35.0 d	3/2+	+0.80(32)			NO/Sβ	88Va26 HFI 43 373 (88)	1/9/97	
18 Ar 39	0	269 y	7/2-	-1.588(15)		[37Ar]	β-RADOP	96Kl** NP A607 1 (96)	28/7/97	
					-0.117(32)	[37Ar]	β-RADOP	96Kl** NP A607 1 (96)	28/7/97	
18 Ar 40	1461	1.12 ps	2+	-0.2(2)			TF	92Cu04 NP A549 304 (92)	4/11/97	
19 K 39	0	stable	3/2+	+0.391466(30)			AB/L	93Du08 NIMPR A325b 465 (93)	4/7/97	92Du09
	8030	14 ps	19/2-	+3.33(29)		[41Ca3830]	TF	92Pa01 PR C45 166 (92)	21/7/97	
20 Ca 43	0	stable	7/2-		-0.043(9)		CFBLS	91Si14 ZP D18 351 (91)	18/7/97	
21 Sc 41	0	0.59 s	7/2-	+5.4305(18) diam corr		[12B]	β-NMR	90Mi16 NP A516 365 (90)	2/8/97	90Mi18
					0.120(6)	[45Sc]	β-NMR	90Mi19 HFI 59 153 (90)	2/8/97	90OhZS
					0.166(8)	[45Sc]	β-NNQR	93Mi09 NP A559 239 (93)	9/7/97	93Mi37, 93Mi40
					-0.156(3)	[45Sc]	re-evaluation	96Sa** Osaka Ann Rpt p59 (96)	28/7/97	
22 Ti 43	0	0.50 s	7/2-	0.85(2)			β-NMR	93Ma67 HFI 78 123 (93)	9/7/97	93Ma72, 93MaZN
22 Ti 47	0	stable 5/2-			+0.303(24)		LIFS	90Ay01 ZP D15 281 (90)	22/7/97	
23 V 51	0	stable	7/2-		-0.043(5)		LIFS	89Un01 ZP D111 259 (89)	22/7/97	
24 Cr 49	4367	1.9 ps	19/2-	+7.4(11)		[50Cr,46Ti]	TF	93Pa22 PR C48 1573 (93)	9/7/97	
26 Fe 57	14	98 ns	3/2-		0.13 - 0.15		review	92Ru07 BRACScPh 56 1118 (92)	4/4/97	
26 Fe 59	0	44.6 d	3/2-	-0.3358(4)			β-NMR/ON	96Oh** PR C54 554 (96)	28/7/97	
27 Co 59	0	stable	7/2-		+0.35(3)		LIFS	90Gu28 ZP D17 181 (90)	22/7/97	
					+0.41(1)		re-evaluation	93De41 PR A48 2752 (93)	24/7/97	
28 Ni 57	0	36 h	3/2-	-0.7975(14)			β-NMR/ON	96Oh** PR C54 554 (96)	28/7/97	
29 Cu 62	41	4.77 ns	2+	+1.10(10)			TDPAC	93Lo10 HFI 77 103 (93)	9/7/97	
30 Zn 69	439	13.72 h	9/2+	1.157(2)		[75Zn]	N/RD	89He05 ZP A332 247 (89)	1/10/97	re-eval Bhf 92Be51
30 Zn 71	158	3.94 h	9/2+	1.052(6)		[75Zn]	N/RD	89He05 ZP A332 247 (89)	1/10/97	re-eval Bhf 92Be51

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30 Zn 75	1066	574 ps	9/2+	1.08(23)		67Zn 604	****	old ref CJP 53 2544 (75)	3/4/97	
32 Ge 67	752	111 ns	9/2+	-0.849(12)		[69Ge 398]	TDPAD	91Le34 NIMPR B56/57 851 (91)	4/1/97	
32 Ge 73	13	2.86 μs	5/2+	1.08(3)	0.70(8)	[69Ge 398]	TDPAC TDPAC	93Co17 HFI 80 1321 (93) 93Co17 HFI 80 1321 (93)	4/7/97 4/7/97	
33 As 69	0	15.2 m	5/2-	+1.58(16)			NO/S	88SeXX Cf88Bad Honn		
33 As 70	888	5.34.ns	7-	0.75(5)			IPAD	91Ba43 NP A535 425 (91)	4/1/97	
33 As 71	0	65.3 h	5/2-		-0.017(10)	[72As]	NO/S	88Wh03 HFI 43 205 (88)	1/9/97	
33 As 73	66	5.0 ns	5/2-		0.356(12)	[75As]	TDPAC	92Sc21 ZP A343 279 (92)	22/7/97	
33 As 75	280	273 ps	5/2-	+0.918(18)	0.30(10)	[73As]	TDPAC DPAC	89Mo14 NP A500 277 (89) 90Mo23 HFI 59 121 (90)	1/13/97 2/8/97	90Mo22
33 As 77	264	304 ps	5/2-	+0.736(22)	<0.75		TDPAC DPAC	89Mo14 NP A500 277 (89) 90Mo23 HFI 59 121 (90)	1/13/97	
35 Br 72	0	79 s	(3+)	0.60(10)			NO/S	92Ba68 HFI 75 433 (92)	4/11/97	92Gr20
	101	10.1 s	(1-)	>0.7			NO/S	92Gr20 PR C46 2228 (92)	18/7/97	88StZr, 88Gr26
35 Br 74	14	46 m	4(+)	1.68(18) 1.820(12)			NO/S NMR/ON	92Gr20 PR C46 2228 (92) 92Pr06 HFI 75 275 (92)	18/7/97 21/7/97	88StZr, 88Gr26
35 Br 75	0	97 m	3/2-	0.76(18) positive			NO/S NO/β	92Gr20 PR C46 2228 (92) 92Ba68 HFI 75 433 (92)	18/7/97 4/11/97	88StZr, 88Gr26
35 Br 77	0	57 h	3/2-	0.92(5) 0.9731(6) 0.9738(5)			NO/S NMR/ON NMR/ON	92Gr20 PR C46 2228 (92) 92OhZX INS Tok Ann Rpt 22 (91) 92Pr06 HFI 75 275 (92)	18/7/97 21/7/97 21/7/97	
	130	9.3 ns	5/2+	+1.98(2)			TDPAC	91Gr15 ZP A340 349 (91)	4/10/97	
35 Br 78	0	6.46 m	1+	0.13(3)			NO/S	92Pr06 HFI 75 275 (92)	21/7/97	
35 Br 79	217	47 ps	5/2-	1.00(25)			TF	94Sp05 NP A578 300 (94)	10/7/97	
	523	1.91 ps	5/2-	2.8(8)			TF	94Sp05 NP A578 300 (94)	10/7/97	
	761	1.50 ps	7/2-	1.89(28)			TF	94Sp05 NP A578 300 (94)	10/7/97	

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35 Br 84	0	31.8 m	2-	1.9(7)			NO/S	92Pr06 HFI 75 275 (92)	21/7/97	
36 Kr 75	0	4.3 m	5/2+	-0.531(4) d	+1.12(12)	[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
36 Kr 77	0	74.4 m	5/2+	-0.583(3) d	+0.94(10)	[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
36 Kr 79	0	35.04 h	1/2-	+0.536(2) d		[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
	130	50 s	7/2+	-0.786(2) d	+0.40(4)	[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
36 Kr 81	0	2.3 x 10 ⁵ y	7/2+	-0.908(2) d		[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
				-0.909(4)	+0.64(7)	[83Kr]	DFLFS	93Ca41 PR A47 1148 (93)	24/7/97	
					+0.629(13)		CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
							DFLFS	93Ca41 PR A47 1148 (93)	24/7/97	
	190	13.1 s	1/2-	-0.586(2) d						d diamagnetic corr
36 Kr 83	0	stable	9/2+		+0.26(3)		CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
	42	1.83 h	1/2-	+0.591(2) d		[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
36 Kr 85	0	10.76 y	9/2+	-1.005(2) d		[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
				-1.0055(4)	+0.44(5)	[83Kr]	DFLFS	93Ca41 PR A47 1148 (93)	24/7/97	
					+0.433(8)		CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
	305	4.48 h	1/2-	+0.633(2) d		[83Kr]	DFLFS	93Ca41 PR A47 1148 (93)	24/7/97	
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
36 Kr 87	0	76.3 m	5/2+	-1.023(2) d	-0.30(3)	[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
36 Kr 89	0	3.15 m	3/2+	-0.330(3) d	+0.16(2)	[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
36 Kr 91	0	8.57 s	5/2+	-0.583(2) d	+0.30(3)	[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
							CFBLS	95Ke04 NP A586 219 (95)	11/7/97	
36 Kr 93	0	1.286 s	1/2+	-0.413(2) d		[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
36 Kr 95	0	0.78 s	1/2+	-0.410(3) d		[83Kr]	CFBLS	95Ke04 NP A586 219 (95)	11/7/97	d diamagnetic corr
37 Rb 79	97	18.6 ns	9/2+	+5.027(72)			TDPAD	94Io02 ZP A349 129 (94)	25/7/97	
37 Rb 85	0	stable	5/2-	+1.35298(10)			AB/L	93Du08 NIMPR A325 465 (93)	4/7/97	

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	514	1.015 μ s	9/2+	+6.043(5)		[85Rb]	OP/RD	91Ma21 PRL 66 1681 (91)	4/2/97	
					-0.73(17)	[85Rb]	OP/RD	91Ma21 PRL 66 1681 (91)	4/2/97	
	2826	12.5 ns	19/2-	+1.3(4)			TDPAD	90Ka26 HFI 59 101 (90)	2/3/97	
37 Rb 87	0	4.9 10 ¹⁰ y	3/2-	+2.75131(12)			AB/L	93Du08 NIMPR A325 465 (93)	4/7/97	
38 Sr 77	0	9 s	5/2+	-0.348(4)		[87Sr]	CFBLS	92Li11 PR C46 797 (92)	21/7/97	
					+1.40(11)	[87Sr]	CFBLS	92Li11 PR C46 797 (92)	21/7/97	
38 Sr 79	0		3/2-	-0.474(4)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
					+0.726(62)		CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	
38 Sr 81	0		1/2-	+0.543(4)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 82	2817		5-	+1.5(20)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	3243		8+	+5.6(8)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	3623		8+	+5.6(8)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	4424		10+	+11.0(50)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
38 Sr 83	0	32.4 h	7/2+	-0.829(2)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
					+0.781(67)	[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	
	259	5.0 s	1/2-	+0.581(4)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 84	2769		5-	+8.0(10)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	3332		8+	-0.8(16)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	3488		7-	+4.2(14)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	3680		8+	+7.2(8)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	4448		10+	+2.0(10)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	4534		10+	+8.0(20)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
	4636		9-	0.0(36)		[84Sr 793]	TF	89 Ku 11 JP G15 1039 (89)	1/9/97	
38 Sr 85	0	64.8 d	9/2+	-1.000(2)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
					+0.289(29)	[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	
	239	68 m	1/2-	+0.600(4)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 87	0	stable	9/2+	-1.092828(65)			O	ZP 249 205 (72)		ref used by 90Bu12
	388	2.80 h	1/2-	0.624(4)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 89	0	50.5 d	5/2+	-1.147(2)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 91	0	9.5 h	5/2+	-0.885(2)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
					+0.047(12)	[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28

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	94	88.9 ns	3/2+	-0.347(17)		TDPAC	93Wo07 PR C48 562 (93)	9/7/97		
38 Sr 93	0	7.4 m	5/2+	-0.793(2)	+0.264(25)	[87Sr] [87Sr]	CFBLS CFBLS	90Bu12 PRC 41 2883 (90) 90Bu12 PRC 41 2883 (90)	2/2/97 2/2/97	HF anom in error 90Li28 HF anom in error 90Li28
38 Sr 95	0	10.3 m	1/2-	-0.537(2)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 97	0	0.40 s	1/2-	-0.498(2)		[87Sr]	CFBLS	90Bu12 PRC 41 2883 (90)	2/2/97	HF anom in error 90Li28
38 Sr 98	144	2.8 ns	2+	0.76(14)			IPAC	89Wo05 PR C40 932 (89)	1/13/97	
38 Sr 99	0	0.269 s	3/2+	-0.261(5) hi corr	0.84(8)	[88,98Sr] [88,98Sr]	CFBLS CFBLS	91Li05 PL B256 141 (91) 91Li05 PL B256 141 (91)	4/1/97 4/1/97	
39 Y 83	145 595	171 ps 7.8 ps	7/2+ 13/2+	+2.14(63) +8.45(2.6)			IMPAD IMPAD	90Bh03 HFI 59 109 (90) 90Bh03 HFI 59 109 (90)	2/2/97 2/2/97	
39 Y 85	20	4.9 h	9/2+	6.2(5)		[87Y 381]	NO/S	88Be46 HFI 43 477 (88)	1/8/97	
39 Y 86	0 218	14.5 h 46 m	4- 8+	<0.6 4.8(3)		[87Y 381] [87Y 381]	NO/S NO/S	88Be46 HFI 43 477 (88) 88Be46 HFI 43 477 (88)	1/8/97 1/8/97	
39 Y 90	682	3.19 h	7+	5.1(5)		[87Y 381]	NO/S	88Be46 HFI 43 477 (88)	1/8/97	
39 Y 91	556	49.7m	9/2+	5.958(35)			N/RD	91Be18 PR C44 104 (91)	4/1/97	92Be50
40 Zr 86	— 3298	— 62 ps	5-/7-/9- 8+	avge g = +0.46(21) -0.24(72) -8.4(51)			TF IMPAD TF	95Mo02 PR C51 513 (95) 95We03 NP A584 133 (95) 95Mo02 PR C51 513 (95)	28/7/97 11/7/97 28/7/97	
	— 4326 5396 5524 6321	— 2.1 ps 2.6 ps — 5.2 ps	2nd 8+/10+ 10+ 12+ 12+ 14+	avge g = +1.06(22) -4.8(96) -4(10) +6.6(16) +26.0(85)			TF TF TF TF TF	95Mo02 PR C51 513 (95) 95Mo02 PR C51 513 (95) 95Mo02 PR C51 513 (95) 95Mo02 PR C51 513 (95) 95Mo02 PR C51 513 (95)	28/7/97 28/7/97 28/7/97 28/7/97 28/7/97	
40 Zr 95	0	64.0 d	5/2+	1.131(20)	(+)0.29(5) if Vzz (ZiZr) +ve		NMR/ON	91Be18 PR C44 104 (91) 92Be50 HFI 75 93 (92)	4/1/97 4/3/97	92Be50
40 Zr 99	122	1.07 ns	3/2+	+0.42(6)			IPAC	95Wo01 PR C51 2381 (95)	11/7/97	

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40 Zr 100	213	0.61 ns	2+	0.52(12)		IPAC	89Wo05 PR C40 932 (89)	1/13/97	
41Nb 87	2412	58 ps	17/2-	+7.0(9)		IMPAD	95We03 NP A584 133 (95)	11/7/97	
	2491	13.8 ps	21/2+	+4.3(14)		IMPAD	95We03 NP A584 133 (95)	11/7/97	
41 Nb 89	2193	14 ns	21/2+	+3.40(7)		TDPAD	94Kr** PR C49 705 (94)	28/7/97	
41 Nb 95					Q -ve if Vzz (NbZr) +ve		92Be50 HFI 75 93 (92)	4/3/97	
41 Nb 97	0	72.1 m	9/2+	6.153(5)		N/RD	91Be18 PR C44 104 (91)	4/1/97	92Be50
42 Mo 88	—	—	6+,8+	avge g = +0.54(26)		IMPAD	95We03 NP A584 133 (95)		
42 Mo 89	2584	9.5 ns	21/2+	+8.30(42)	[90Mo 2875]	TDPAD	95We12 ZP A353 7 (95)	11/7/97	
42 Mo 90	2594	16 ps	5-	+5.5(14)		IMPAD	94We** JPhys G20 L77 (94)	29/7/97	
	4842	39 ps	11-	+4.6(14)		IMPAD	94We** JPhys G20 L77 (94)	29/7/97	
	4556	526 ps	12+	+6.00(72)		IMPAD	94We** JPhys G20 L77 (94)	29/7/97	
42 Mo 92	2760	190 ns	8+		Q (negative)	TDPAD	91Ha04 PR C43 2140 (91)	4/1/97	91Ha32
43 Tc 99	141	0.205 ns	7/2+	+1.280(44)		IPAC	93Al23 ZP A347 1 (93)	4/4/97	
	181	3.44 ns	5/2+	+1.446(20)		IPAC	93Al23 ZP A347 1 (93)	4/4/97	
44 Ru 93	2082	2.4 μs	21/2+		(+)0.04(1)	TDPAD	91Ha04 PR C43 2140 (91)	4/1/97	91Ha32
44 Ru 95	0	1.64 h	5/2+	0.861(7)		N/RD	91Hi17 NP A534 339 (91)	4/1/97	
44 Ru 103	0	39.4 d	3/2+	0.2063(31)		N/RD	90Hi02 NP A509 541 (90)	2/3/97	
45 Rh 100	x + 112	140 ns	7+	+4.69(14)		TDPAD	90Bi03 ZP A335 365 (90)	2/2/97	
45 Rh 102	141	2.9 y	6+	4.040(9)		NO/S+RD	89Hi12 NP A504 467 (89)	1/10/97	
45 Rh 103	295	6.7 ps	3/2-	+0.81(8)		TF	89La14 NP A496 589 (89)	1/13/97	
				+0.69(12)	took T1/2 5.1ps	TF	88Be45 HFI 43 457 (88)	1/8/97	
	357	73 ps	5/2-	+1.075(75)		TF	89La14 NP A496 589 (89)	1/13/97	
				+0.93(20)		TF	88Be45 HFI 43 457 (88)	1/8/97	
	848	1.9 ps	7/2-	+1.96(56)		TF	89La14 NP A496 589 (89)	1/13/97	
				920	5.6 ps	9/2-	+2.75(50)		TF
45 Rh 104	x + 215.5	47 ns	6-	+2.00(6)		TDPAD	90Bi03 ZP A335 365 (90)	2/2/97	

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45 Rh 106	0	29.8 s	1+	2.575(7) sign positive			N/RD NO/ β	90Oh01 PR C41 243 (90) 92Ma54 HFI 75 415 (92)	2/9/97 21/7/97	
46 Pd 96	7039	35(4) ns	(15+)	(+)12.45(60)		[96Pd 2532]	DPAD	89Al05 ZP A332 129 (89)	1/10/97	
47 Ag 102	181	3.5 ns	7+	4.55(28)			IPAD	89VoZR Conf Tashkent 71 (89)	4/3/97	
47 Ag 104	212	1.4 ns	7+	4.83(28)			IPAD	89VoZR Conf Tashkent 71 (89)	4/3/97	
47 Ag 110	118	252 d	6+	3.589(4)			BFNMR/ON	92Hu09 HFI 73 247 (92)	4/3/97	
48 Cd 100	2548	73 ns	8+	9.9(5)			TDPAD	92Al17 ZP A344 1 (92)	4/11/97	
48 Cd 102	2718	56 ns	8+	10.3(2)			TDPAD TDPAD	92Al17 ZP A344 1 (92) 92Al17 ZP A344 1 (92)	4/11/97 4/11/97	
								0.87(10)		
48 Cd 111	342 620	27 ps 10 ps	3/2+ 5/2+	+0.03(120) +0.28(12)			TF TF	88Be45 HFI 43 457 (88) 88Be45 HFI 43 457 (88)	1/8/97 1/8/97	
48 Cd 113	298 584	32 ps 9 ps	3/2+ 5/2+	-0.39(80) +0.15(12)			TF TF	88Be45 HFI 43 457 (88) 88Be45 HFI 43 457 (88)	1/8/97 1/8/97	
49 In 112	351 614	0.69 μ s 2.82 μ s	7+ 8-		1.03(3) 0.095(3)	117In 3/2+ 117In 3/2+	TDPAD TDPAD	93Io02 HFI 77 111 (93) 93Io02 HFI 77 111 (93)	8/7/97 8/7/97	
50 Sn 110	2480 3767	5.6 ns 1.15 ns	6+ 8-	+0.072(30) -2.4(12)	0.34(4)		TPAD TPAD TPAD	89Vo17 Bull Ac Sci 53 133 (89) 89Vo17 Bull Ac Sci 53 133 (89) 89Vo17 Bull Ac Sci 53 133 (89)	1/13/97 1/13/97 1/13/97	88VoZU 88VoZU
50 Sn 120	1171	0.64 ps	2+		+0.022(10)		CER	92Vo09 NP A549 281 (92)	22/7/97	
51 Sb 114	0	3.49 m	3+	1.72(8)			NO/S	93Bo46 HFI 78 133 (93)	4/7/97	93BaZJ, 92Zi05
51 Sb 116	94 383 1844	194 ns 60.3 m 11.9 ns	1+ 8+ 7+	+2.47(9) 2.59(22) +4.69(10)			TDPAD NO/S TDPAD TDPAD	93Di06 ZP A347 37 (93) 93Bo46 HFI 78 133 (93) 92Io01 ZP A343 21 (92) 92Io01 ZP A343 21 (92)		
					1.67(39)	[112Sb 796]			19/7/97 19/7/97	
51 Sb 119	2554	128 ns	19/2-	+3.14(6)			TDPAC TDPAC	91Io02 NP A531 112 (91) 91Io02 NP A531 112 (91)	4/1/97 4/1/97	
					2.13(22)	112Sb 796				

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51 Sb 127	0	3.84 d	7/2+	2.697(6)		[123Sb]	NMR/ON	96Li01 PR C53 124 (96)	25/7/97					
51 Sb 129	0	4.4 h	7/2+	2.817(10)		[123Sb]	NMR/ON	96Li01 PR C53 124 (96)	25/7/97					
51 Sb 131	0	23 m	7/2+	2.89(1)		[123Sb]	NMR/ON	97St** PRL 78 820 (97)	28/7/97					
51 Sb 133	0	2.5 m	7/2+	3.00(1)		[123Sb]	NMR/ON	97St** PRL 78 820 (97)	28/7/97					
52 Te 123	440	27 ps	3/2+	+0.54(23)			TF	88Be45 HFI 43 457 (88)	1/8/97					
	506	18 ps	5/2+	+0.13(23)			TF	88Be45 HFI 43 457 (88)	1/8/97					
52 Te 125	443	19 ps	3/2+	+0.65(18)			TF	88Be45 HFI 43 457 (88)	1/8/97					
	463	13 ps	5/2+	+0.50(13)			TF	88Be45 HFI 43 457 (88)	1/8/97					
	672	1.3 ps	5/2+	-0.33(68)			TF	88Be45 HFI 43 457 (88)	1/8/97					
53 I 122	0	3.63 m	1+	positive sign			NO/S	88As06 HFI 43 489 (88)	1/8/97					
53 I 124	0	4.18 d	2-	1.446(4)			NMR/ON	92Oh01 PR C45 162 (92)	17/7/97					
53 I 126	0	13.1 d	2-	1.438(4)			NMR/ON	92Oh01 PR C45 162 (92)	17/7/97					
53 I 130	0	12.36 h	5+	3.349(7)			NMR/ON	92Oh01 PR C45 162 (92)	21/7/97					
54 Xe 117	0	1.02 m	5/2+	-0.5938(15) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.				
					+1.16(4)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97					
54 Xe 119	0	58 m	5/2+	-0.6542(15) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.				
					+1.31(5)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97					
54 Xe 121	0	39 m	5/2+	-0.7005(26) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.				
					+1.33(5)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97					
54 Xe 123	0	2.00 h	1/2+	-0.1504(26) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.				
54 Xe 125	0	17.1 h	1/2+	-0.2687(31) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.				
					253	57 s	9/2-	-0.7453(8) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
									+0.424(15)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 127	0	36.4 d	1/2+	-0.5033(11) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.				
					297	1.15 m	9/2-	-0.8844(10) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
									+0.693(24)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	

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54 Xe 129	236	8.89 d	11/2-	-0.8906(12) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.642(22)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 131	0	stable	3/2+	+0.69149(23) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
	164	11.8 d	11/2-	-0.9941(20) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.732(26)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 133	0	5.24 d	3/2+	+0.8129(5) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.142(5)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
	233	2.19 d	11/2-	-1.0825(13) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.771(27)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 134	847	1.9 ps	2+	1.12(20)		[132Xe 668]	TF	93Sp01 NP A552 140 (93)	9/7/97	
54 Xe 135	0	9.10 h	3/2+	+0.9032(7) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.214(7)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
	527	15.3 m	11/2-	-1.1036(14) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.618(21)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 136	1313	0.21 ps	2+	2.40(50)		[132Xe 668]	TF	93Sp01 NP A552 140 (93)	9/7/97	
54 Xe 137	0	3.82 m	7/2-	-0.968(8)		[129,131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
				-0.9704(10) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					-0.48(2)	[131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
					-0.490(17)	[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 139	0	39.7 s	3/2-	-0.304(10)		[129,131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
				-0.3040(16) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.40(2)	[131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
					+0.396(14)	[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 141	0	1.73 s	5/2+	+0.010(4)		[129,131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
				+0.0096(31) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					-0.58(2)	[131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
					-0.580(20)	[131Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	
54 Xe 143	0	0.30 s	5/2-	-0.4599(14)		[129,131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
				-0.4599(23) d		[129Xe]	CFBLS	90NEZY Priv Comm Neugart (90)	29/7/97	d diamagnetic corr.
					+0.93(3)	[131Xe]	CFBLS	89Bo03 Plett B216 7 (89)	1/10/97	
56 Ba 125	0 + x		5/2+	0.1736(10)		[135,137Ba]	CFBCS	92Da06 JPhys G18 L67 (92)	4/11/97	

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56 Ba 127	0	12.7 m	1/2(+)	+0.0834(10)		[135,137Ba]	CFBCLS	92Da06 JPhys G18 L67 (92)	4/11/97	90Da13
	80	1.9 s	7/2(-)	-0.7227(5)		[135,137Ba]	CFBCLS	92Da06 JPhys G18 L67 (92)	4/11/97	90Da13
					1.62(13)	[135,137Ba]	CFBCLS	92Da06 JPhys G18 L67 (92)	4/11/97	90Da13
56 Ba 130	357	37 ps	2+		-1.02(16) or -0.09(16)		CER	89Bu07 NP A494 102 (89)	1/10/97	
56 Ba 132	3115	12.3 ns	10+	-1.56(11) -1.59(5)			IPAD	95Ha26 PR C52 1796 (95)	11/7/97	
							TDPAD	96Da02 PR C53 1009 (96)	11/7/97	
56 Ba 134	605	5.1 ps	2+		-0.32(6) or +0.09(6) OR -0.20(6) or +0.21(6)		CER	89Bu07 NP A494 102 (89)	1/10/97	
56 Ba 138	1436	0.206 ps	2+		-0.14(6) or +0.08(6)		CER	89Bu07 NP A494 102 (89)	1/10/97	
58 Ce 137	0	9.0 h	3/2+	0.96(4)			NMR/ON	91Mu06 JPJa 60 845 (91)	4/2/97	
		34.4 h	11/2-	1.01(4)			NMR/ON	91Mu06 JPJa 60 845 (91)	4/2/97	
58 Ce 139	0	137.6 d	3/2+	1.06(4)			NMR/ON	91Mu06 JPJa 60 845 (91)	4/2/97	
58 Ce 140	1596	90 fs	2+	+1.92(18)			TF	91Ba38 NP A533 541 (91)	4/1/97	
58 Ce 142	641	5.7 ps	2+	+0.42(10)			TF	91Ba38 NP A533 541 (91)	4/1/97	
							CER	89Sp07 Aust JP 42 345 (89)	29/7/97	
59 Pr 136	548	90 ns	4+	+2.28(76)			TDPAD	93Ba42 NP A562 260 (93)	4/4/97	
59 Pr 141	0	stable	5/2+		-0.077(6) st		re-evaluation	94li01 PR C50 661 (94)	10/7/97	st Stern. corr.
59 Pr 143	0	13.57 d	7/2+	+2.701(4)				94li01 PR C50 661 (94)	10/7/97	94liZZ
							+0.77(16) st	[141Pr]	CLIBS	94li01 PR C50 661 (94)
60 Nd 134	2817	9.0 ps	10+	~0			IPAD	89OgZY Gensh. Ken. 33 145 (89)	29/7/97	
60 Nd 135	0	12.4 m	9/2-	-0.784(28)				92Le09 JPhys G18 1177 (92)	21/7/97	
							+1.92(48) st	[143Nd]	RIMS	92Le09 JPhys G18 1177 (92)
60 Nd 137	0	38 m	1/2+	-0.633(5)		[143Nd]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	

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60 Nd 139	0	30 m	3/2+	+0.907(7)		[143Nd]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	
					+0.28(9) st	[143Nd]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
60 Nd 141	0	2.49 h	3/2+	+1.012(9)		[143Nd]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	
					+0.32(13) st	[143Nd]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
60 Nd 142	1576	110 fs	2+	+1.69(15)			TF	91Ba38 NP A533 541 (91)	4/1/97	
60 Nd 143	0	stable	7/2-		-0.610(21) st		ABLS	92Au04 ZP D23 19 (92)	18/7/97	st Sternheimer corr
					-0.590(27) st		re-eval	92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
				1229 2911	6.79 ns 482 ps	13/2+ 21/2+	+0.377(33) p +7.9(14) p		TIPAD TIPAD	93KaZn CYRICAnRepTohoku(92) 93KaZn CYRICAnRepTohoku(92)
60 Nd 144	697	4.51 ps	2+	0.32(4)			TF	90St18 NP A516 119 (90)	4/1/97	
					-0.15(6) or -0.28(6)		CER	89Sp07 Aust JP 42 345 (89)	29/7/97	
60 Nd 145	0	stable	7/2-		-0.314(12) st		ABLS	92Au04 ZP D23 19 (92)	18/7/97	st Sternheimer corr
60 Nd 146	454	27.5 ps	2+	0.58(2)			TF	90St18 NP A516 119 (90)	4/1/97	
60 Nd 148	302	113 ps	2+	0.70(4)			TF	90St18 NP A516 119 (90)	4/1/97	
60 Nd 150	130 251	2142 ps 91 ps	2+ 4+	0.76(10) 1.76(16)			TF	90St18 NP A516 119 (90)	4/1/97	
							TF	90St18 NP A516 119 (90)	4/1/97	
61 Pm 138	0	3.5 m	(3+)	3.2(9)			NO/S	92Si22 NFI 75 471 (92)	22/7/97	
61 Pm 145	0	17.7 y	5/2+	+3.80(16)		[147 Pm]	CFBLS	92Al03 Jphys B25 571 (92)	4/11/97	
					+0.21(8)	[147Pm]	CFBLS	92Al03 Jphys B25 571 (92)	4/11/97	
62 Sm 138	2903	0.55 ns	10+	~10			IPAD	89OgZY Gensh. Ken. 33 145 (89)	29/7/97	
62 Sm 139	0 457	2.57 m 10.7 s	1/2+ 11/2-	-0.534(18) 1.1(2)		[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	
						[141Sm176]	NO/S	92Si22 NFI 75 471 (92)	22/7/97	
62 Sm 141	0 176	10.2 m 22.6 m	1/2+ 11/2-	-0.738(24) -0.836(20)		[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	
						[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	
					+1.64(46) st	[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
62 Sm 143	0	8.83 m	3/2+	+1.009(19)		[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	

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					+0.41(21)	[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
62 Sm 145	0	340 d	7/2-	-1.11(6)		[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	
					-0.60(17)	[145,7,9Sm]	RIMS	92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
62 Sm 147	0	1x10*11 y	7/2-		-0.261(7)	re-eval.		92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
62 Sm 149	0	> 2x10*15 y	7/2-		+0.075(2)	re-eval.		92Le09 JPhys G18 1177 (92)	21/7/97	st Sternheimer corr
62 Sm 144	1660	85 fs	2+	+1.52(22)			TF	91Ba38 NP A533 541 (91)	4/1/97	
	1810	25 ps	3-	+2.28(27)		148Sm 550	TF	90Ba41 HFI 59 133 (90)	1/14/97	
62 Sm 145	0	340 d	7/2-	-1.123(11)		147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
					-0.60(7)	147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
62 Sm 147	0	1.06 10*11y	7/2-	-0.8124(16)		147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
					-0.265(25)	147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
62 Sm 149	0	stable	7/2-	-0.6677(11)		147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
					-0.078(8)	147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
62 Sm 150	773	6.6 ps	4+	+2.64(25)		[150Sm 334]	TF	93Va10 PR C48 2640 (93)	9/7/97	
	1279	(1.4 ps)	6+	+2.63(81)		[150Sm 334]	TF	93Va10 PR C48 2640 (93)	9/7/97	
62 Sm 151	0	90 y	5/2-	-0.3611(13)		147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
					+0.71(7)	147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
62 Sm 152	122	1.40 ns	2+	+0.80(6)			IPAC	92De29 CanJP 70 268 (92)	4/11/97	
62 Sm 153	0	46.8 h	3/2+	-0.0209(28)	+1.30(12)	147,147Sm	CBLFS	90En01 JP G16 105 (90)	2/3/97	
63 Eu 138	0	12.1 s	(6-)	5.3(7)		[142Eu]	NO/S	92Si22 HFI 75 471 (92)	22/7/97	92SiZZ
63 Eu 139	0	17.9s	(11/2-)	6.1(8)		[142Eu]	NO/S	92Si22 HFI 75 471 (92)	22/7/97	92SiZZ
63 Eu 142	282 + x	6.2 ns	8+	(+)4.08(24)			TDPAD	93Bi13 ZP A346 181 (93)	22/7/97	
63 Eu 145	0	5.93 d	5/2+	+3.999(3)a		151Eu	CLIBS	93HuZU IoPConf132p209(93)	8/7/97	a Hyp Anom Corr
					Q/Q(153Eu) = 0.11684(87)	153Eu	CLIBS	93HuZU IoPConf132p209(93)	8/7/97	

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63 Eu 146	0	4.59 d	4-	+1.421(8)a		151Eu 153Eu	CLIBS CLIBS	93HuZU IoPConf132p209(93) 93HuZU IoPConf132p209(93)	8/7/97 8/7/97	a Hyp Anom Corr
					Q/Q(153Eu) = -0.0743(20)					
63 Eu 147	0	24.1 d	5/2+	+3.736(6)a		151Eu 153Eu	CLIBS CLIBS	93HuZU IoPConf132p209(93) 93HuZU IoPConf132p209(93)	8/7/97 8/7/97	a Hyp Anom Corr
					Q/Q(153Eu) = 0.2185(23)					
63 Eu 151	0	stable	5/2+			153Eu 153Eu	CLIBS CLIBS	93HuZU IoPConf132p209(93) 93Mo04 PRL 70 541 (93)	8/7/97 9/7/97	
					Q/Q(153Eu) = 0.39184(22) Q/Q(153Eu) = 0.39191(12)					
63 Eu 152	0	13.54 y	3-	-1.9401(8)a		151Eu 153Eu	CLIBS CLIBS	93HuZU IoPConf132p209(93) 93HuZU IoPConf132p209(93)	8/7/97 8/7/97	a Hyp Anom Corr
					Q/Q(153Eu) = 1.18220(49)					
63 Eu 153	0	stable	5/2+	+1.5324(3)a		151Eu	CLIBS	93HuZU IoPConf132p209(93)	8/7/97	a Hyp Anom Corr
63 Eu 155	0	4.68 y	5/2+	+1.52(2)		151,153Eu 151,153Eu	CFBLS CFBLS	90Al34 ZP A337 257 (90) 90Al34 ZP A337 257 (90)	1/13/97 1/13/97	
					+2.48(25)					
63 Eu 157	0	15.2 h	5/2+	+1.50(2)		151,153Eu 151,153Eu	CFBLS CFBLS	90Al34 ZP A337 257 (90) 90Al34 ZP A337 257 (90)	1/13/97 1/13/97	
					+2.58(26)					
63 Eu 158	0	45.9 m	1(-)	+1.44(2)		151,153Eu 151,153Eu	CFBLS CFBLS	90Al34 ZP A337 257 (90) 90Al34 ZP A337 257 (90)	1/13/97 1/13/97	
					+0.66(14)					
63 Eu 159	0	18.1 m	5/2+	+1.38(2)		151,153Eu 151,153Eu	CFBLS CFBLS	90Al34 ZP A337 257 (90) 90Al34 ZP A337 257 (90)	1/13/97 1/13/97	
					+2.66(30)					
64 Gd 147	10993	0.8 ns	59/2-	+11.2(21)			TF	89Ha15 PR 39C 2237 (89)	1/10/97	88HaZR
64 Gd 155	0	stable	3/2-		+1.27(5) st		ABLS	90Ji06 PR A42 1416 (90)	18/7/97	st Sternheimer corr
64 Gd 156	89 288	2.21 ns 112 ps	2+ 4+	+0.82(14) x +1.76(16) +1.31(8) +1.63(15) x +1.55(14) y		[158Gd 261] [156Gd 89] [BhfGd(Fe)] [158Gd 261] [156Gd 89]	TF TF IPAC TF TF	91St01 ZP A338 135 (91) 90Ba39 HFI 59 125 (90) 90Sc10 ZP A335 387 (90) 91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91)	4/10/97 1/14/97 4/1/97 4/10/97 4/10/97	x ref 158Gd 4+ 158 IPAC x ref 158Gd 4+ 158 IPAC y ref 156Gd 2+ 89 ME

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			6+	+2.28(42) x +2.16(42) y		[158Gd 261] [156Gd 89]	TF TF	91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91)	4/10/97 4/10/97	x ref 158Gd 4+ 158 IPAC y ref 156Gd 2+ 89 ME
64 Gd 157	0	stable	3/2-		+1.36(6) st		ABLS	90Ji06 PR A42 1416 (90)	18/7/97	st Sternheimer corr
64 Gd 158	80	2.52 ns	2+	+0.90(22) x +0.84(20) y		[158Gd 261] [156Gd 89]	TF TF	91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91)	4/10/97 4/10/97	x ref 158Gd 4+ 158 IPAC y ref 156Gd 2+ 89 ME
	261	148 ps	4+	+1.44(20)		[156Gd 89]	TF	90Ba39 HFI 59 125 (90)	1/14/97	
	539		6+	+1.55(12) x 2.40(30) x 2.28(30) y		{156Gd 89] [158Gd 261] [156Gd 89]	TF TF TF	91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91)	4/10/97 4/10/97 4/10/97	x ref 158Gd 4+ 158 IPAC x ref 158Gd 4+ 158 IPAC y ref 156Gd 2+ 89 ME
64 Gd 160	248		4+	1.64(20) x 1.52(20) y		[158Gd 261] [156Gd 89]	TF TF	91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91)	4/10/97 4/10/97	x ref 158Gd 4+ 158 IPAC y ref 156Gd 2+ 89 ME
	515		6+	2.40(30) x 2.28(30) y		[158Gd 261] [156Gd 89]	TF TF	91St01 ZP A338 135 (91) 91St01 ZP A338 135 (91)	4/10/97 4/10/97	x ref 158Gd 4+ 158 IPAC y ref 156Gd 2+ 89 ME
65 Tb 147	0	1.7 h	1/2+	+1.70(5)		159Tb	CFBLS	90Al36 ZP A337 367 (90)	1/14/97	
65 Tb 148	0	60 m	2-	-1.75(2)		159Tb 159Tb	CFBLS CFBLS	90Al36 ZP A337 367 (90) 90Al36 ZP A337 367 (90)	1/14/97 1/14/97	
					-0.29(20)					
65 Tb 149	0	4.12 h	1/2+	+1.35(2)		159Tb	CFBLS	90Al36 ZP A337 367 (90)	1/14/97	
	2518	3.5 ns	(27/2)+	4.9(12) b			TIPAD	90Ad02 JPJa 59 66 (90)	1/13/97	b corr new t1/2 Tol
65 Tb 150	0 + x	3.48 h	2(-)	-0.90(2)		159Tb 159Tb	CFBLS CFBLS	90Al36 ZP A337 367 (90) 90Al36 ZP A337 367 (90)	1/14/97 1/14/97	
					0.00(13)					
65 Tb 151	0	17.6 h	1/2(+)	+0.919(6)		159Tb	CFBLS	90Al36 ZP A337 367 (90)	1/14/97	
65 Tb 152	0	17.5 h	2-	-0.58(2)		159Tb 159Tb	CFBLS CFBLS	90Al36 ZP A337 367 (90) 90Al36 ZP A337 367 (90)	1/14/97 1/14/97	
					+0.34(13)					
65 Tb 153	0	2.34 d	5/2+	+3.44(2)		159Tb 159Tb	CFBLS CFBLS	90Al36 ZP A337 367 (90) 90Al36 ZP A337 367 (90)	1/14/97 1/14/97	
					+1.08(14)					
65 Tb 154	0 + x	9.4 h	3-	+1.6(2)		159Tb	CFBLS	90Al36 ZP A337 367 (90)	1/14/97	
65 Tb 155	0	5.32 d	3/2+	+2.01(2)		159Tb 159Tb	CFBLS CFBLS	90Al36 ZP A337 367 (90) 90Al36 ZP A337 367 (90)	1/14/97 1/14/97	
					+1.41(6)					

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65 Tb 157	0	99 y	3/2+	+2.01(2)		159Tb	CFBLS	90Al36 ZP A337 367 (90)	1/14/97
					+1.40(8)	159Tb	CFBLS	90Al36 ZP A337 367 (90)	1/14/97
	242	170 ps	4+	+1.48(48)		[164Dy 501]	TF	89Do12 PR C40 2035 (89)	1/10/97
	501	30 ps	6+	+1.68(48)		[164Dy 501]	TF	89Do12 PR C40 2035 (89)	1/10/97
	762	4.1 ps	2+	+0.62(20)		[164Dy 501]	TF	89Do12 PR C40 2035 (89)	1/10/97
	844	6.8 ps	8+	+2.16(72)		[164Dy 501]	TF	89Do12 PR C40 2035 (89)	1/10/97
	1261	2.3 ps	10+	+3.5(13)		[164Dy 501]	TF	89Do12 PR C40 2035 (89)	1/10/97
66 Dy 154	yrast band		2+	g ratio to 2+ = 1.00		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
			4+	g ratio to 2+ = 1.09(18)		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
			6+ - 8+	g ratio to 2+ = 0.98(25)		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
			10+ - 14+	g ratio to 2+ = 0.54(38)		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
			16+ - 20+	g ratio to 2+ = 0.32(40)		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
			22+ - 30+	g ratio to 2+ = 0.79(38)		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
			32+ - 36+	g ratio to 2+ = 1.23(31)		[154Dy 2+]	IPAD	93Bi05 NP A553 527c (93)	4/4/97
66 Dy 158	99	1.66 μ s	2+	+0.724(46)			IPAC	93Al09 ZP A345 273 (93)	4/4/97
	317	73 ps	4+	+1.36(8)			IPAC	93Al09 ZP A345 273 (93)	4/4/97
	638	10.8 ps	6+	+1.24(22)			IPAC	93Al09 ZP A345 273 (93)	4/4/97
	1044	3.25 ps	8+	+1.7(9)			IPAC	93Al09 ZP A345 273 (93)	4/4/97
66 Dy 160	284	101 ps	4+	+1.40(8)			IPAC	96Al02 ZP A353 357 (96)	11/7/97
	966	1.34 ps	2+	+0.634(24)			IPAC	95Al22 ZP A353 17 (95)	10/7/97
66 Dy 161	x+2.72 ev		3	-0.4(7)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
	3.69 ev		2	+0.7(17)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
	4.34 ev		2	+0.2(20)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
	7.74 ev		3	-1.9(51)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
	14.32 ev		2	4.3(67)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
	16.8 ev		3	-9.5(87)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
	18.5 ev		2	-15.2(95)			n ToF	88De17 NIMPR A268 155 (88)	17/7/97
66 Dy 164	242	0.20 ns	4+	+1.48(48)			[164Dy73]	89Do12 PR C40 2035 (89)	17/7/97
	762	4.6 ps	2+	+0.62(20)			[164Dy73]	89Do12 PR C40 2035 (89)	17/7/97
	844	7.2 ps	8+	+2.16(72)			[164Dy73]	89Do12 PR C40 2035 (89)	17/7/97
	1261	2.3 ps	10+	+3.5(13)			[164Dy73]	89Do12 PR C40 2035 (89)	17/7/97
67 Ho 152	0	161.8 s	2-	-1.02(2)		[165Ho]	RIMS	89Al27 NP A504 549 (89)	1/10/97
					+0.08(24) st	[165Ho]	RIMS	89Al27 NP A504 549 (89)	1/10/97
	160	49.5 s	9+	+5.94(5)		[165Ho]	RIMS	89Al27 NP A504 549 (89)	1/10/97

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					-1.3(8) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 153	0	2.0 m	11/2-	+6.81(5)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					-1.1(5) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
	68	9.3 m	1/2+	+1.19(1)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 154	0	11.76 m	2-	-0.643(6)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+0.19(10) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
	320	3.10 m	8+	+5.65(6)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					-1.0(5) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 155	0	48 m	5/2+	+3.51(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+1.52(10) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 156	0	56 m	4(+)	+2.99(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+2.34(18) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 157	0	12.6 m	7/2-	+4.35(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+2.97(13) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 158	0	11.3 m	5+	+3.77(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+4.10(40) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
	67.2	28 m	2-	+2.44(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+1.62(17) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 159	0	35.05 m	7/2-	+4.28(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					3.19(13) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 160	0	25.6 m	5+	+3.71(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+3.95(23) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
	60	5.02 h	2-	+2.52(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					+1.78(17) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 161	0	2.48 h	7/2-	+4.25(3)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					3.22(11) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 162	106	67 m	6-	+3.60(4)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					3.9(7) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
67 Ho 163	0	4570 y	7/2-	+4.23(4)		[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97
					3.6(6) st	[165Ho]	RIMS	89AI27 NP A504 549 (89)	1/10/97

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68 Er 166	81	1.82 ns	2+		-1.77(+15-9)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	265	118 ps	4+		-1.60(+26-12)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	545		6+		-2.81(+17-14)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	786	3.26 ps	2+		+2.25(+13-11)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	911	4.2 ps	8+		-3.05(+15-30)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	956		4+		-1.08(+13-11)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	1216		6+		-2.57(+13-15)		CER	92Fa01 NP A537 183 (92)	4/11/97	
	1350		10+		*****		CER	92Fa01 NP A537 183 (92)	4/11/97	
	1556		8+		-3.17(+28-22)		CER	92Fa01 NP A537 183 (92)	4/11/97	
68 Er 168	549	16.8 ps	6+	+1.97(28)		[168Er 264]	TF	89Do12 PR C40 2035 (89)	1/10/97	
	821	2.9 ps	2+	+0.72(14)		[168Er 549]	TF	89Do12 PR C40 2035 (89)	1/10/97	
	928	3.4 ps	8+	+2.65(50)		[168Er 549]	TF	89Do12 PR C40 2035 (89)	1/10/97	
	1396	1.4 ps	10+	+3.2(8)		[168Er 549]	TF	89Do12 PR C40 2035 (89)	1/10/97	
69Tm 170	0	128.6 d	1+	+0.2458(17)		[169Tm]	ABLFS	88Dy02 PR C38 2813 (88)	17/7/97	
					+0.72(5) st	[169Tm]	ABLFS	88Dy02 PR C38 2813 (88)	17/7/97	st Stern. corr.
70 Yb 155	0	1.59 s	(7/2-)	-0.84(8)			LRIS	92Al25 BRACadSP 56 1712 (92)	4/11/97	92AIZY
					-1.2(10)		LRIS	92Al25 BRACadSP 56 1712 (92)	4/11/97	
70 Yb 157	0	38.6 s	7/2-	-0.639(8)		[171Yb]	CFBLS	92Ku21 HFI 74 171 (92)	4/3/97	
70 Yb 158	band		30 - 38	(+0.20(7)			TF	88KIZX ANL-PHY-88-2 (88)	1/9/97	
70 Yb 159	0	1.58 m	5/2(-)	-0.368(8)		[171Yb]	CFBLS	92Ku21 HFI 74 171 (92)	4/3/97	
70 Yb 160	band		~4+	+1.92(104)			GCPAC	90Lu02 ZP A335 369 (90)	2/2/97	
	band		14+	-3.2(43)			GCPAC	90Lu02 ZP A335 369 (90)	2/2/97	
	band		34 - 42	0.12(7)			TF	88KIZX ANL-PHY-88-2 (88)	1/9/97	
70 Yb 171	231		7/2-	0.79(5)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	247		9/2-	1.44(7)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	487		11/2-	1.65(6)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	509		13/2-	2.5(1)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	833		15/2-	2.3(2)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	860		17/2-	3.2(2)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	1263		19/2	3.3(4)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
	1293		21/2	4.1(4)			TF	92AnZY OttCfINSHAM 1 44 (92)	4/11/97	
70 Yb 173	0	stable	5/2-	-0.648(3)		[171Yb]	CFBLS	92Ku21 HFI 74 171 (92)	4/3/97	

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70 Yb 175	0	4.18 d	7/2-	0.768(8)		[171Yb]	CFBLS	92Ku21 HFI 74 171 (92)	4/3/97
71 Lu 169	0	34.1 h	7/2+	2.30(1)	3.5(2)	[177Lu] [177Lu]	QI-NMR-ON QI-NMR-ON	93HaZU loPConf132p173 (93) 93HaZU loPConf132p173 (93)	4/7/97 4/7/97
71 Lu 171	0	8.24 d	7/2+	2.30(1)	3.42(3)	[177Lu] [177Lu]	QI-NMR-ON QI-NMR-ON	93HaZU loPConf132p173 (93) 93HaZU loPConf132p173 (93)	4/7/97 4/7/97
71 Lu 172	0	6.70 d	4-	2.90(1)	3.80(7)	[177Lu] [177Lu]	QI-NMR-ON QI-NMR-ON	93HaZU loPConf132p173 (93) 93HaZU loPConf132p173 (93)	4/7/97 4/7/97
71 Lu 173	0	1.37 y	7/2+	2.28(1)	3.63(4)	[177Lu] [177Lu]	QI-NMR-ON QI-NMR-ON	93HaZU loPConf132p173 (93) 93HaZU loPConf132p173 (93)	4/7/97 4/7/97
71 Lu 174	171	142 d	6-	1.497(10)			NMR/ON	91Hi19 Plett B263 29 (91)	4/1/97
71 Lu 177	970	160 d	23/2	2.33(1)	5.4(3)	[177Lu] [177Lu]	QI-NMR-ON QI-NMR-ON	93HaZU loPConf132p173 (93) 93HaZU loPConf132p173 (93)	4/7/97 4/7/97
72 Hf 165	> yrast	_	_	average g = +0.14(3)			TF	96We01 PR C53 151 (96)	28/7/97
72 Hf 166	> yrast	_	_	average g = +0.19(4)			TF	96We01 PR C53 151 (96)	28/7/97
72 Hf 175	0	70 d	5/2-	-0.604(18)	+2.66(8)		LS LS	96Ji** RIKEN Prog Rept 29 45 (96) 96Jl** RIKEN Prog Rept 29 45 (96)	11/7/97 11/7/97
72 Hf 177	113	583 ps	9/2-	+0.909(23)			IPAC	91De24 PR C44 2213 (91)	4/1/97
72 Hf 178	2446	31 y	16+	+8.16(4)	+6.00(7)	[177Hf] [177Hf]	CFBLS CFBLS	94Bo15 PRL 72 2689 (94) 94Bo15 PRL 72 2689 (94)	10/7/97 10/7/97
73 Ta 171	184	45 ns	9/2-		(+)3.09(19)	[181Ta]	TDPAD	95Do32 HFI 96 223 (95)	11/7/97
73 Ta 173	0	3.14 h	5/2-	1.703(34)			NMR/ON	91Ko25 NP A534 344 (91)	4/1/97
73 Ta 179	0	1.82 y	7/2+	+2.289(9)	+3.37(4)	[181Ta] [181Ta]	LRDRS LRDRS	96Wa02 PR C53 611 (96) 96Wa02 PR C53 611 (96)	28/7/97 28/7/97
73 Ta 180	75	>1.2x10 ¹⁵ y	9-	+4.825(11)	+4.946(20)		LRDRS LRDRS	94Wa34 PR A50 4639 (94) 94Wa34 PR A50 4639 (94)	25/7/97 25/7/97
73 Ta 182	0	115 d	3-		+2.6(3)		NO/S	91Fa12 PLett A159 421 (91)	4/1/97

74 W 183	207	—	7/2-	0.42(21)	[184W 111]	TF	92La02 NP A536 397 (92)	19/7/97	
	309	—	9/2-	1.53(14)	[184W 111]	TF	92La02 NP A536 397 (92)	19/7/97	
	475	—	11/2-	1.10(22)	[184W 111]	TF	92La02 NP A536 397 (92)	19/7/97	
	551	—	9/2-	2.16(86)	[184W 111]	TF	92La02 NP A536 397 (92)	19/7/97	
	631	10 ps	13/2-	2.60(33)	[184W 111]	TF	92La02 NP A536 397 (92)	19/7/97	
	1062	3.0 ps	17/2-	2.55(68)	[184W 111]	TF	92La02 NP A536 397 (92)	19/7/97	
74 W 186	123	1.05 ns	2+	0.616(34)		TF	91St04 NP A528 447 (91)	4/2/97	
75 Re 179	0	19.7 m	(5/2)+	2.84(39)		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
75 Re 180	0	2.4 m	(1)-	1.56(17)		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
76 Os 182	7049	150 ns	25(+)	+10.62(20)	4.2(2)	TDPAD	89Al19 Plett B228 463 (89)		
						TDPAD	91Br25 Plett B264 17 (91)	4/1/97	
76 Os 193	0	30.5 h	3/2-	0.7297(16) sign positive		NMR/ON	89Ed01 PR C40 2246 (89)	1/10/97	
						NO/CP	91Sc28 ZP A340 235 (91)	4/11/97	88Sc20
77 Ir 180	0	1.5 m	unknown	2.22(17) [l=3]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.39(13) [l=4]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.50(20) [l=5]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.58(21) [l=6]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.63(22) [l=7]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
77 Ir 182	0	15 m	unknown	1.91(9) [l=2]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.10(9) [l=3]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.21(8) [l=4]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.28(8) [l=5]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.08(15) [l=5]		NO/S	92Ro21 HFI 75 457 (92)	21/7/97	
				2.33(8) [l=6]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.37(8) [l=7]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
77 Ir 183	0	55 m	5/2, 7/2	2.36(8) [l=5/2]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.63(9) [l=7/2]		NO/S	92Bo39 HFI75 307 (92)	4/3/97	
				2.22(55) [l=5/2]		No/S	92Ro21 HFI 75 457 (92)	21/7/97	
				2.05(34) [l=7/2]		NO/S	92Ro21 HFI 75 457 (92)	21/7/97	
77 Ir 184	0	3.14 h	5-	+2.407(29)	[Ir189]	QI-NMR-ON	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09
77 Ir 186	0	14.4 h	5+	-2.548(31)	[Ir189]	QI-NMR-ON	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09

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	x		2(-)	0.638(8)			N/RD	90Ed01 HFI 59 83 (90)	2/3/97	
					+1.456(17)	[Ir189]	QI-NMR-ON	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09
77 Ir 187	0	10.5 h	3/2+		+0.941(11)	[Ir189]	QI-NMR-ON	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09
77 Ir 188	0	40.5 h	1(-)		+0.484(6)	[Ir189]	QI-NMR-ON	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09
77 Ir 189	0	13.1 d	3/2+		+0.79(6)	[Ir188]	NO/S	92Ka49 NIMPR A316 158 (92)	19/7/97	
					+0.878(10)		QI-NMR-ON	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09
77 Ir 191	129	123 ps	5/2+	+0.855(60)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	171	4.9 s	11/2-	sign positive			NO/CP	91Sc28 ZP A340 235 (91)	1/9/97	88Sc20
	343	20 ps	7/2+	+1.35(11)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	503	9.6 ps	9/2+	+2.39(23)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	686	2.7 ps	7/2+	+0.81(32)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	832	2.8 ps	11/2+	+3.36(94)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
77 Ir 192	0	74.2 d	4-	sign positive			NO/CP	91Sc28 ZP A340 235 (91)	1/9/97	88Sc20
					+2.147(56)	[Ir189]	re-evaluation	93Se** PRL 77 5016 (96)	8/7/97	93HaZu, 96Ha09
77 Ir 193	139	88 ps	5/2+	+0.925(45)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	358	19.8 ps	7/2+	+1.55(6)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	522	12.7 ps	9/2+	+2.16((18)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	621	4.6 ps	7/2+	+1.16(14)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
	857	5.1 ps	11/2+	+2.70(72)			TF	96StXX HFI 97/98 479 (96)	28/7/97	
77 Ir 194	0	19.4 h	1-	sign positive			NO/CP	91Sc28 ZP A340 235 (91)	1/9/97	88Sc20
78 Pt 183	0	6.5 m	1/2-	+0.51(3)			RIMS/PLID	90Hi08 HFI 59 97 (90)	2/3/97	
				+0.521(27)			PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	
	35	43 s	7/2-	0.96(8)			NO/S	92Ro21 HFI 75 457 (92)	21/7/97	
				1.03(8)			NO/S	92St** HFI 75 491 (92)	22/7/97	
78 Pt 184	163	376 ps	2+	+0.56(6)			TF	96StYY PRL 76 2246 (96)	28/7/97	
78 Pt 185	0	70.9 m	9/2+	0.774(14)			NMR/ON	90Ed01 HFI 59 83 (90)	2/3/97	88Ed02
				-0.83(1)		[195Pt]	LCD/RIMS	89Du01 Plett 217 401 (89)	1/10/97	88Ro20
					+4.3(5)		LCD/RIMS	89Du01 Plett 217 401 (89)	1/10/97	88Ro20
					3.40(54)	[189Pt]	NO/S	90Ed01 HFI 59 83 (90)	2/3/97	88Ed02
					+4.5(1)	[191Pt]	QI-NMR-ON	93HaZU loPConf132p173(93)	8/7/97	96Ha09
	103	33 m	1/2-	+0.540(9)		[195Pt]	PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	

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78 Pt 186	192	260 ps	2+	+0.54(6)		TF	96StYY PRL 76 2246 (96)	28/7/97	
78 Pt 187	0	2.35 h	3/2-	0.408(8)		NMR/ON	90Ed01 HFI 59 83 (90)	2/3/97	88Ed02
				-0.397(5)	[195Pt]	LCD/RIMS	89Du01 Plett 217 401 (89)	1/10/97	88Ro20
				-0.427(20)	[195Pt]	PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	
				-1.13(5)		LCD/RIMS	89Du01 Plett 217 401 (89)	1/10/97	88Ro20
				-1.34(32)	[189Pt]	NO/S	90Ed01 HFI 59 83 (90)	2/3/97	
				-1.00(7) st		PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	st Sternheimer corr
78 Pt 188	266	64 ps	2+	+0.58(8)		TF	96StYY PRL 76 2246 (96)	28/7/97	
78 Pt 189	0	10.9 h	3/2-	-0.421(5)	[195Pt]	LCD/RIMS	89Du01 Plett 217 401 (89)	1/9/97	88Ro20
				-0.440(8)	[195Pt]	PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	
				-1.03(5)		LCD/RIMS	89Du01 Plett 217 401 (89)	1/10/97	88Ro20
				-1.27(3)	[191Pt]	QI-NMR-ON	93HaZU loPConf132p173(93)	8/7/97	96Ha09
				-1.10(20) st		PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	st Sternheimer corr
78 Pt 190	296	60 ps	2+	+0.570(26)	[194Pt328,196Pt35]	TF	95An15 NP A593 212 (95)	10/7/97	
78 Pt 191	0	2.9 d	3/2-	-0.501(5)	[195Pt]	LCD/RIMS	89Du01 Plett 217 401 (89)	1/9/97	88Ro20
				-0.494(8)	[195Pt]	PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	
				-0.98(5)		LCD/RIMS	89Du01 Plett 217 401 (89)	1/9/97	88Ro20
				-0.78(10) st		PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	st Sternheimer corr
78 Pt 192	316	44 ps	2+	+0.574(34)		TDPAC	92Al21 NIMPR A321 506 (92)	4/11/97	
				+0.636(34)	[194Pt328, 196Pt35]	TF	92Br** NP A536 366 (92)	4/11/97	
				+0.598(20)	[194Pt328,196Pt35]	TF	95An15 NP A593 212 (95)	10/7/97	
	612	26.5 ps	2+	+0.56(9)	[194Pt328, 196Pt35]	TF	92Br** NP A536 366 (92)	4/11/97	
	785	4.2 ps	4+	+1.12(12)	[194Pt328, 196Pt35]	TF	92Br** NP A536 366 (92)	4/11/97	
78 Pt 193	0	50 y	1/2-	+0.603(8)	[195Pt]	PLID/RIMS	92Hi07 ZP A342 1 (92)	18/7/97	
78 Pt 194	328	41.8 ps	2+	+0.592(44)		TF	91St04 NP A528 447 (91)	4/2/97	
				+0.600(26)		TF	95An15 NP A593 212 (95)	10/7/97	
	622	35 ps	2+	+0.56(11)	[194Pt328, 196Pt35]	TF	92Br** NP A536 366 (92)	4/11/97	
	811	3.7 ps	4+	+1.12(12)	[194Pt328, 196Pt35]	TF	92Br** NP A536 366 (92)	4/11/97	
78 Pt 195	239	70 ps	5/2-	+0.64(9)		TF	94La02 NP A568 617 (94)	9/7/97	
	259	4.02 d	13/2+	sign negative		NO/CP	91Sc28 ZP A340 235 (91)	4/11/97	88Sc20
	389	9 ps	5/2-	+0.39(10)		TF	94La02 NP A568 617 (94)	9/7/97	
	455	>10 ps	5/2-	+1.58(55)		TF	94La02 NP A568 617 (94)	9/7/97	
	508	9.7 ps	7/2-	+0.55(8)		TF	94La02 NP A568 617 (94)	9/7/97	

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	544	>2.8 ps	5/2-	+1.50(38)		TF	94La02 NP A568 617 (94)	9/7/97	
	563	14 ps	9/2-	+1.55(12)		TF	94La02 NP A568 617 (94)	9/7/97	
	613	6 ps	7/2-	+1.44(42)		TF	94La02 NP A568 617 (94)	9/7/97	
	667	(16 ps)	9/2-	+1.52(16)		TF	94La02 NP A568 617 (94)	9/7/97	
	679	>2.8 ps	7/2-	+1.23(28)		TF	94La02 NP A568 617 (94)	9/7/97	
78 Pt 196	356	34 ps	2+	+0.588(46)		TF	91St04 NP A528 447 (91)	4/2/97	
				+0.604(48)		TF	93Ta07 PR C48 140 (93)	9/7/97	
					+0.62(8)	CER	92Li14 NP A548 308 (92)	21/7/97	
	689	36.8 ps	2+	+0.54(9)		TF	92Br** NP A536 366 (92)	4/11/97	
					-0.39(16)	CER	92Li14 NP A548 308 (92)	21/7/97	
	877	3.6 ps	4+	+1.38(16)		TF	92Br** NP A536 366 (92)	4/11/97	
					+1.03(12)	CER	92Li14 NP A548 308 (92)	21/7/97	
	1526	0.98 ps	6+		-0.18(26)	CER	92Li14 NP A548 308 (92)	21/7/97	
78 Pt 198	407	22.3 ps	2+	+0.586(68)		TF	91St04 NP A528 447 (91)	4/2/97	
				+0.700(60)		TF	93Ta07 PR C48 140 (93)	9/7/97	
				+0.628(22)		TF	95An15 NP A593 212 (95)		
	775	27 ps	2+	+0.61(11)		TF	92Br** NP A536 366 (92)	4/11/97	
	985	3.3 ps	4+	+1.23(22)		TF	92Br** NP A536 366 (92)	4/11/97	
79 Au 182	0	21 s	unknown	1.30(10) [l=2]		TR/OLNO	92Ro21 HFI 75 457 (92)	1/9/97	88Sc19
				1.62(15) [l=3]		TR/OLNO	92Ro21 HFI 75 457 (92)	1/9/97	88Sc19
				1.88(22) [l=4]		TR/OLNO	92Ro21 HFI 75 457 (92)	1/9/97	88Sc19
79 Au 183	0	42 s	5/2-	+1.972(23)		RIMS/PLID	88Kr18 ZP A331 521 (88)	1/9/97	
79 Au 184	0	21 s	5,6	3.0(10) [l=5]		TR/OLNO	92Ro21 HFI 75 457 (92)	21/7/97	
				3.7(9) [l=6]		TR/OLNO	92Ro21 HFI 75 457 (92)	21/7/97	
		49 s	2,3	1.30(28) [l=2]		TR/OLNO	92Ro21 HFI 75 457 (92)	21/7/97	
				1.65(42) [l=3]		TR/OLNO	92Ro21 HFI 75 457 (92)	21/7/97	
79 Au 185	0	4.2 m	5/2-	+2.170(17)		RIMS	89Wa11 NP A493 224 (89)	1/13/97	
				+1.98(2)		RIMS/PLID	92Ki30 NIMPR B70 537 (92)	18/7/97	
					-1.10(10))	RIMS/PLID	92Ki30 NIMPR B70 537 (92)	18/7/97	
79 Au 186	0	10.7 m	3-	-1.263(29) a		RIMS	89Wa11 NP A493 224 (89)	1/13/97	a Hyp Anom corr
				1.278(19)		N/RD	88Sc19 HFI 43 141 (88)	1/9/97	
				-1.284(33)		RIMS	90Sa21 NP A512 241 (90)	18/7/97	
					+3.10(6)	RIMS/PLID	92Ki30 NIMPR B70 537 (92)		
					+3.14(16)	193Au QI-NMR-ON	93Hi10 NP A562 205 (93)	8/7/97	96Ha09

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79 Au 187	0	8.4 m	1/2+	+0.535(15) a +0.531(12)			RIMS RIMS	89Wa11 NP A493 224 (89) 90Sa21 NP A512 241 (90)	18/7/97	a Hyp Anom corr
79 Au 188	0	8.8 m	1-	-0.067(28) a			RIMS	89Wa11 NP A493 224 (89)	1/13/97	a Hyp Anom corr
79 Au 189	0 247	28.7 m 4.6 m	1/2+ 11/2-	+0.494(14) a +6.186(20) a			RIMS RIMS	89Wa11 NP A493 224 (89) 89Wa11 NP A493 224 (89)	1/13/97 1/13/97	a Hyp Anom corr a Hyp Anom corr
79 Au 190	0	42.8 m	1-	-0.068(26) a -0.065(7)			RIMS RIMS	89Wa11 NP A493 224 (89) 90Sa21 NP A512 241 (90)	1/13/97 18/7/97	a Hyp Anom corr
79 Au 191	0	3.18 h	3/2+	+0.1369(9)	+0.716(21)		RIMS RIMS	94Pa37 NP A580 173 (94) 94Pa37 NP A580 173 (94)	10/7/97 8/7/97	
79 Au 192	0	5.0 h	1-	-0.0107(15) -0.0076(21)	-0.228(8)		RIMS RIMS RIMS	94Pa37 NP A580 173 (94) 90Sa21 NP A512 241 (90) 94Pa37 NP A580 173 (94)	10/7/97 18/7/97 10/7/97	
79 Au 193	0 290	17.65 h 3.9 s	3/2+ 11/2-	0.1396(6)a +0.1396(5)	+0.664(20) +1.98(6)		NMR/ON RIMS RIMS MAPON	93Hi10 NP A562 205 (93) 94Pa37 NP A580 173 (94) 94Pa37 NP A580 173 (94) 96Se*** NP A602 41 (96)	8/7/97 10/7/97 8/7/97 28/7/97	a Hyp Anom corr
79 Au 194	0	39.5 h	1-	+0.0763(13) +0.079(3)	-0.240(9)	[197Au]	RIMS RIMS RIMS	94Pa37 NP A580 173 (94) 90Sa21 NP A512 241 (90) 94Pa37 NP A580 173 (94)	10/7/97 18/7/97 10/7/97	
79 Au 195	0 319	183 d 30.6 s	3/2+ 11/2-	0.1487(6)a +0.145(5)	+0.607(18) +1.87(6)	193Au	NMR/ON RIMS QI-NMR-ON MAPON	93Hi10 NP A562 205 (93) 90Sa21 NP A512 241 (90) 93Hi10 NP A562 205 (93) 96Se*** NP A602 41 (96)	8/7/97 18/7/97 8/7/97 28/7/97	a Hyp Anom Corr 96Ha09
79 Au 196	0	6.18 d	2-	+0.580(15)			RIMS	90Sa21 NP A512 241 (90)	18/7/97	
79 Au 197	409	7.8 s	11/2-		+1.68(5)		MAPON	96Se*** NP A602 41 (96)	28/7/97	
79 Au 198	0	2.696 d	2-	+0.636(24)	+0.640(19)	193Au	RIMS QI-NMR-ON	90Sa21 NP A512 241 (90) 93Hi10 NP A562 205 (93)	18/7/97 8/7/97	96Ha09
79 Au 199	0	3.14 d	3/2+	+0.261(2)	+0.510(16)	193Au	RIMS QI-NMR-ON	90Sa21 NP A512 241 (90) 93Hi10 NP A562 205 (93)	18/7/97 8/7/97	96Ha09

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80 Hg 198	412	23 ps	2+	+0.760(60)		[199Hg 158]	TF	95Br34 ZP A353 141 (95)	11/7/97	90Ba40
	1048	1.8 ps	4+	+1.64(24)		[199Hg 158]	TF	95Br34 ZP A353 141 (95)	11/7/97	
80 Hg 199	208	69 ps	3/2-	-0.557(87)		[199Hg 158]	TF	90Ba40 HFI 59 129 (90)	1/14/97	90Ba40
	414	97 ps	5/2-	+0.800(88)		[199Hg 158]	TF	90Ba40 HFI 59 129 (90)	1/14/97	
80 Hg 200	368	46.6 ps	2+	+0.652(52)		[199Hg 158]	TF	95Br34 ZP A353 141 (95)	11/7/97	90Ba40
	947	3.2 ps	4+	1.02(17)		[199Hg 158]	TF	95Br34 ZP A353 141 (95)	11/7/97	
80 Hg 202	440	27.3 ps	2+	+0.784(62)		[199Hg 158]	TF	95Br34 ZP A353 141 (95)	11/7/97	90Ba40
	1120	2.0 ps	4+	1.36(27)		[199Hg 158]	TF	95Br34 ZP A353 141 (95)	11/7/97	
81 Tl 187	0	51 s	(1/2+)	1.55(6)		[205Tl]	CFBLS	93ScZW loPconf132 221 (93)	9/7/97	
	335	15.6 s	(9/2-)	(+)3.79(2)		[205Tl]	CFBLS	93ScZW loPconf132 221 (93)	9/7/97	
					-2.43(5)		CFBLS	93ScZW loPconf132 221 (93)	9/7/97	
81 Tl 188	0 + x	71 s	7+	+0.483(8)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					+0.129(4)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
81 Tl 190	0 + x	2.6 m	2-	+0.254(2)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					-0.329(9)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
	0 + y	3.7 m	7+	+0.487(8)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					+0.285(14)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
81 Tl 191	0	2.2 m	1/2+	+1.588(4)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					299	5.2 m	9/2-	+3.880(7)		
	-2.23(2)									
81 Tl 192	0 + x	9.6 m	2-	+0.200(3)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					-0.328(11)					
	0 + y	10.8 m	7+	+0.502(8)	+0.464(20)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
81 Tl 194	0	34 m	2-	+0.140(3)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					-0.282(7)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
	0 + y	32.8 m	7+	+0.530(8)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					+0.607(16)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
81 Tl 196	0	1.84 h	2-	+0.072(3)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					-0.178(14)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	

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	394	1.41 h	7+	+0.549(8)		[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
					+0.763(21)	[203,205Tl]	CFBLS	92Me07 ZP A341 475 (92)	21/7/97	
81 Tl 208	0	3.05 m	5(+)	+0.292(13)		[205Tl]	RADRS	92La03 PRL 68 1675 (92)	21/7/97	
82 Pb 191	138	2.18 m	13/2+	-1.172(7)		[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	
					+0.085(5)	[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	
82 Pb 193	100	5.8 m	13/2+	-1.150(7)		[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	
					+0.195(10)	[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	Calc efg
82 Pb 195	203	15.0 m	13/2+	-1.128(7)		[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	
					+0.306(15)	[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	Calc efg
82 Pb 197	319	43 m	13/2+	-1.098(11)		[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	
					+0.378(19)	[207Pb]	CFBLS	91Du07 ZP A341 39 (91)	4/10/97	Calc efg
83 Bi 199	0	11.8 h	9/2-	4.55(40)			NO/S	88Wo12 HFI 43 401 (88)	1/9/97	
							NO/S	88Wo12 HFI 43 401 (88)	1/9/97	Calc efg
83 Bi 201	0	108 m	9/2-	4.76(30)			NO/S	88Wo12 HFI 43 401 (88)	1/9/97	
83 Bi 202	0	1.72 h	5+	4.90(30)			NO/S	88Wo12 HFI 43 401 (88)	1/9/97	
			[5+]	+4.259(14)		[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
			[5+]		-0.72(8)	[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
			[6+]	+4.325(13)		[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
			[6+]		-0.87(9)	[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
83 Bi 203	0	11.8 h	9/2-	+4.017(13)		[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
					-0.67(7)	[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
83 Bi 204	0	11.22 h	6+	4.48(22)			NO/S	88Wo12 HFI 43 401 (88)	1/9/97	
				4.322(15)		[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
					-0.49(15)	[209Bi]	LRFS	96Ca02 NP A598 61 (96)	11/7/97	
	806	13.0 ms	10-		0.0630(12)	[202 Bi 615]	LEMS	91Sc14 PR C43 2560 (91)	4/2/97	90Ha30
83 Bi 206	1045	0.89 ms	(10-)		0.049(9)	[202 Bi 615]	LEMS	91Sc14 PR C43 2560 (91)	4/2/97	90Ha30
83 Bi 207	2101	182 μs	21/2+		0.044(8)	[202 Bi 615]	LEMS	91Sc14 PR C43 2560 (91)	4/2/97	90Ha30
83 Bi 212	0	60.6 m	1(-)	0.406(45)			NO/S	92Li25 HFI 75 109 (92)	21/7/97	
83 Bi 213	0	45.6 m	9/2-	3.89(9)			NO/S	92Li25 HFI 75 109 (92)	21/7/97	

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84 Po 199	310	4.2 m	13/2+	0.987(73)			NO/S	91Wo04 JPhysG 17 1673 (91)	4/2/97	
84 Po 201	0	15.3 m	3/2-	0.941(84)			NO/S	91Wo04 JPhysG 17 1673 (91)	4/2/97	
	425	8.9 m	13/2+	0.996(75)			NO/S	91Wo04 JPhysG 17 1673 (91)	4/2/97	
84 Po 203	0	36.7 m	5/2-	0.739(56)			NO/S	91Wo04 JPhysG 17 1673 (91)	4/2/97	
84 Po 210	2849	20.1 ns	11-	-0.86(11)	[210Po 1557]		DPAD	91Be03 NP A522 483 (91)	4/1/97	
	4372	51 ns	13-	-0.90(7)	[210Po 1557]		DPAD	91Be03 NP A522 483 (91)	4/1/97	
	5058	265 ns	16+	-1.297(20)	[210Po 1557]		DPAD	91Be03 NP A522 483 (91)	4/1/97	
85 At 208	2276	1.5μs	16-	1.69(25)	[g calc]		LEMS	91Sc15 PR C43 2566 (91)	4/2/97	90Ha30
85 At 209	2429	890 ns	29/2+	1.50(15)	[211At 2641]		LEMS	91Sc15 PR C43 2566 (91)	4/2/97	90Ha30
85 At 210	2550	480 ns	15-	1.22(12)	[211At 2641]		LEMS	91Sc15 PR C43 2566 (91)	4/2/97	90Ha30
	4028	5.9 μs	19+	2.20(25)	[211At 2641]		LEMS	91Sc15 PR C43 2566 (91)	4/2/97	90Ha30
85 At 211	1417	35.1 ns	21/2-	0.524(10)			[B(E2)]			
	2641	50.8 ns	29/2+	1.00(5)			re-evaluation	95Ba66 NP A591 104	11/7/97	
	4816	4.2 μs	39/2-	1.91(25)	[211At 2641]		LEMS	91Sc15 PR C43 2566 (91)	4/2/97	
85 At 212	888	19.4 ns	11+	5.94(11)			TDPAD	94By01 NP A567 445 (94)	10/7/79	
	1616	37 ns	15-	9.46(8)			TDPAD	94By01 NP A567 445 (94)	10/7/79	
85 At 217	0	32 ms	9/2-	3.81(18)			NO/S	92Li26 HFI 75 323 (92)	21/7/97	
87 Fr 211	2423	146 ns	29/2+	-1.07(18)	[213Fr 2538]		LEMS	91 Ha 02 PR C43 514 (91)	4/1/97	90Ha30
	4657	123 ns	45/2-	-1.98(56)	[213Fr 2538]		LEMS	91 Ha 02 PR C43 514 (91)	4/1/97	90Ha30
87 Fr 212	2492	604 ns	(15-)	+15.65(12)			TDPAD	89By01 P.Lett B217 38 (89)	1/10/97	
				0.84(13)	[213Fr 2538]		TDPAD	90By03 NP A516 145 (90)	2/3/97	
				-0.80(12)	[213Fr 2538]		LEMS	91Ha02 PR C43 514 (91)	4/1/97	90Ha30
	5854	312 ns	(27-)	1.74(33)	[213Fr 2538]		TDPAD	90By03 NP A516 145 (90)	2/3/97	
				-1.52(31)	[213Fr 2538]		LEMS	91Ha02 PR C43 514 (91)	4/1/97	90Ha30
87 Fr 213	2538	243 ns	29/2+	+15.30(7)			TDPAD	89By01 P.Lett B217 38 (89)	1/10/97	
	8095	3.1 μs	65/2-	+22.59(23)			TDPAD	89By01 P.Lett B217 38 (89)	1/10/97	
				-2.19(53)	[213Fr 2538]		LEMS	91Ha02 PR C43 514 (91)	4/1/97	90Ha30
87 Fr 214	640	148 ns	11+	+5.621(66) kd			TDPAD	94By01 NP A567 445 (94)	10/7/97	kd: Kt shift, diam. corr

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	1663 or 1734 4318+D 6477+D'	16 ns 15 ns 11.5 ns 156 ns	14- 15- 27- 33+ 32+ or 33+	+8.54(42) kd level uncertain +19.7(8) kd +22.4(33)	0.82(22)	[213Fr 2538] [213Fr 2538]	LEMS TDPAD	95Ne06 PR C51 3483 (95) 94By01 NP A567 445 (94)	11/7/97 10/7/97	
					2.15(54)	[213Fr 2538] [213Fr 2538] [213Fr 2538]	TDPAD TDPAD LEMS	94By01 NP A567 445 (94) 94By01 NP A567 445 (94) 95Ne06 PR C51 3483 (95)	10/7/97 10/7/97 11/7/97	
88 Ra 209	0	4.7 s	5/2-		+0.40(4) st	[221,223Ra]	CFBLS	89Ne03 ZP D11 105 (89)	22/7/97	st Sternheimer corr.
88 Ra 211	0	13s	5/2-		+0.48(4) st	[221,223Ra]	CFBLS	89Ne03 ZP D11 105 (89)	22/7/97	st Sternheimer corr.
88 Ra 212	1958	10.9 μs	8+		Q/Q214Ra8+ = 1.50(36)	[214Ra 1864]	LEMS	93Ne04 NP A555 629 (93)	9/7/97	93Ne09
88 Ra 213	1770	2.1 ms	(17/2-)	7.40(43)		[214Ra 1864] [214Ra 1864]	LEMS LEMS	94Ne01 PR C49 645 (94) 93Ne04 NP A555 629 (93)	10/7/97 9/7/97	93Ne09 assumed I, μ
88 Ra 214	2683 3478 4147 6577	295 ns 279 ns 225 ns 128 ns	11- 14+ 17- (25-)	11.98(8) 14.29(6) 17.36(5) 16.50(25)			TDPAD TDPAD TDPAD TDPAD	92St09 NP A548 159 (92) 92St09 NP A548 159 (92) 92St09 NP A548 159 (92) 92St09 NP A548 159 (92)	22/7/97 22/7/97 22/7/97 22/7/97	92StZX 92StZX 92StZX 92StZX
88 Ra 216	1508 1711 2026 2679 3712 5170	0.5 ns 1.1 ns 0.6 ns 0.8 ns 5.3 ns 6.6 ns	6+ 8+ 10+ 13- 19- 25-	+0.6(18) +0.8(24) +1.3(26) -1.3(26) +9.3(10) +17.5(50)			DPAD DPAD DPAD DPAD DPAD DPAD	90Sc29 HFI 59 165 (90) 90Sc29 HFI 59 165 (90) 90Sc29 HFI 59 165 (90) 90Sc29 HFI 59 165 (90) 90Sc29 HFI 59 165 (90) 90Sc29 HFI 59 165 (90)	18/7/97 18/7/97 18/7/97 18/7/97 18/7/97 18/7/97	
88 Ra 221	0	30 s	5/2-		+1.978(106) st		CFBLS	89Ne03 ZP D11 105 (89)	22/7/97	st Sternheimer corr.
88 Ra 223	0	11.435 d	3/2+		+1.254(66) st		CFBLS	89Ne03 ZP D11 105 (89)	22/7/97	st Sternheimer corr.
88 Ra 227	0	42.2 m	3/2+		+1.58(11) st	[221,223Ra]	CFBLS	89Ne03 ZP D11 105 (89)	22/7/97	st Sternheimer corr.
88 Ra 229	0	4.0 m	5/2(+)		+3.09(19) st	[221,223Ra]	CFBLS	89Ne03 ZP D11 105 (89)	22/7/97	st Sternheimer corr.
91 Pa 228	0	22 h	(3+)	3.49(52)			NO/S	89He07 NP A493 83 (89)	1/10/97	
91 Pa 230	0	17.4 d	(2-)	2.00(20)			NO/S	89He07 NP A493 83 (89)	1/10/97	

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92 U 233	0	1.59x105 y	5/2+	$\mu/\mu(235U)$ = 1.5604(14)	[235U]	ABLFS	90Ga28 BAcadSP 54 No5 13 (90)	1/10/97	89GaZN	
					Q/Q(235U) = 0.746(2)	[235U]	ABLFS	90Ga28 BAcadSP 54 No5 13 (90)	1/10/97	89GaZN
95 Am 241	0	432.7 y	5/2-	+1.58(1)						
					+3.8(1.2)	re-evaluation	ABLFS	90Iz01 JRadNuclCh 143 93 (90)	25/7/97	
					+3.14(5)		ABLFS	89De26 ZP D13 181 (89)	22/7/97	
							ABLFS	90Iz01 JRadNuclCh 143 93 (90)	25/7/97	
95 Am 243	0	7370 y	5/2-	$\mu/\mu(241Am)$ = 0.951(7)	[241Am]	ABLFS	89GaZR Conf Tashkent p131 (89)	1/10/97		
				+1.50(1)						
					Q/Q(241Am) = 0.909(2)	[241Am]	ABLFS	90Iz01 JRadNuclCh 143 93 (90)	25/7/97	
					+2.86(3)		ABLFS	89GaZR Conf Tashkent p131 (89)	1/10/97	
							ABLFS	90Iz01 JRadNuclCh 143 93 (90)	25/7/97	

Technique Several abbreviations are used in addition to those to be found in the Raghavan moment table. They are listed below.

Technique	ICS	Inelastic Coulomb Scattering
	IMPAD	Ion-Implantation Perturbed Angular Distribution
	LRDRS	Laser RF Double Resonance Spectroscopy
	LIFS	Laser Induced Fluorescence Spectroscopy
	DFLFS	Doppler Free Laser Fluorescence Spectroscopy
	FBRFS	Fast Beam RF Spectroscopy
	MS	Microwave Spectroscopy
	MAPON	Modulated Adiabatic Passage on Oriented Nuclei