1 Half-life, Q-value and Decay mode

$T_{1/2}$	:	432.6	(6)	y
Q_α	:	5637.82	(12)	keV
α	:	100		%

2 α Emissions

	Energy keV	Probability × 100
$\alpha_{0,36}$	4757.58 (13)	0.00004 (3)
$\alpha_{0,34}$	4800.99 (13)	0.000086
$\alpha_{0,33}$	4834.15 (13)	0.0007
$\alpha_{0,32}$	4888.98 (15)	
$\alpha_{0,30}$	4956.06 (15)	
$\alpha_{0,29}$	4961.63 (14)	
$\alpha_{0,28}$	4963.83 (13)	
$\alpha_{0,27}$	5007.07 (14)	0.0001
$\alpha_{0,25}$	5055.36 (13)	
$\alpha_{0,24}$	5065.97 (15)	0.00011
$\alpha_{0,23}$	5092.06 (13)	∼0.0004
$\alpha_{0,22}$	5099.08 (13)	∼0.0004
$\alpha_{0,21}$	5106.72 (16)	
$\alpha_{0,20}$	5117.21 (13)	0.0004
$\alpha_{0,19}$	5132.8 (2)	
$\alpha_{0,18}$	5155.12 (13)	0.0007
$\alpha_{0,17}$	5179.35 (13)	0.0003
$\alpha_{0,16}$	5181.63 (13)	0.0009
$\alpha_{0,15}$	5190.17 (23)	0.0006
$\alpha_{0,14}$	5217.26 (13)	
$\alpha_{0,13}$	5225.08 (13)	0.0013
$\alpha_{0,12}$	5232.6 (3)	
$\alpha_{0,11}$	5244.13 (13)	0.0022 (3)
$\alpha_{0,9}$	5280.99 (13)	0.0005
$\alpha_{0,8}$	5321.87 (13)	0.014 (3)
$\alpha_{0,6}$	5388.25 (13)	1.66 (3)
$\alpha_{0,5}$	5416.28 (13)	∼0.01
$\alpha_{0,4}$	5442.86 (12)	13.23 (10)
$\alpha_{0,3}$	5469.47 (12)	<0.04
$\alpha_{0,2}$	5485.56 (12)	84.45 (10)
$\alpha_{0,1}$	5511.46 (12)	0.23 (1)
$\alpha_{0,0}$	5544.11 (12)	0.38 (1)

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3 Electron Emissions

		Energy keV	Electrons per 100 disint.
e_{AL}	(Np)	6.04 - 13.52	33.4 (17)
e_{AK}	(Np)		0.000114 (16)
	KLL	73.50 - 83.13	}
	KLX	90.36 - 97.28	}
	KXY	107.10 - 114.58	}
$ec_{2,1}$ L	(Np)	3.92 - 8.73	14 (5)
$ec_{1,0}$ L	(Np)	10.769 - 15.590	15.9 (21)
$ec_{3,1}$ L	(Np)	20.28 - 25.09	0.31 (7)
$ec_{2,1}$ M	(Np)	20.606 - 22.681	3.7 (5)
$ec_{4,2}$ L	(Np)	20.99 - 25.81	8.8 (12)
$ec_{1,0}$ M	(Np)	27.46 - 29.53	4.0 (6)
$ec_{1,0}$ N	(Np)	31.70 - 32.79	1.08 (16)
$ec_{6,4}$ L	(Np)	33.13 - 37.95	0.87 (11)
$ec_{3,1}$ M	(Np)	36.97 - 39.04	0.076 (17)
$ec_{2,0}$ L	(Np)	37.114 - 41.930	30.2 (22)
$ec_{4,2}$ M	(Np)	37.68 - 39.76	2.3 (4)
$ec_{3,1}$ N	(Np)	41.2 - 42.3	0.021 (5)
$ec_{4,2}$ N	(Np)	41.92 - 43.02	0.65 (9)
$ec_{6,4}$ M	(Np)	49.82 - 51.90	0.228 (30)
$ec_{3,0}$ L	(Np)	53.5 - 58.3	0.0232 (4)
$ec_{2,0}$ M	(Np)	53.802 - 55.877	8.12 (25)
$ec_{6,4}$ N	(Np)	54.06 - 55.16	0.062 (8)
$ec_{6,2}$ L	(Np)	76.54 - 81.36	0.225 (5)
$ec_{6,2}$ M	(Np)	93.23 - 95.31	0.0625 (16)
$ec_{6,2}$ N	(Np)	97.47 - 98.57	0.0171 (4)

4 Photon Emissions

4.1 X-Ray Emissions

		Energy keV		Photons per 100 disint.	
XL	(Np)	11.89 — 22.2		37.66 (17)	
$XK\alpha_2$	(Np)	97.069		0.001134 (30)	} Kα
$XK\alpha_1$	(Np)	101.059		0.00181 (5)	}
$XK\beta_3$	(Np)	113.303	}		
$XK\beta_1$	(Np)	114.234	}	0.000658 (21)	$K\beta_1'$
$XK\beta_5''$	(Np)	114.912	}		
$XK\beta_2$	(Np)	117.463	}		
$XK\beta_4$	(Np)	117.876	}	0.000226 (8)	$K\beta_2'$
$XKO_{2,3}$	(Np)	118.429	}		

4.2 Gamma Transitions and Emissions

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_T	P_γ × 100
$\gamma_{2,1}$(Np)	26.3446 (2)	21 (5)	E1 anomalous	8 (2)	2.31 (8)
$\gamma_{-1,1}$(Np)	32.183	0.0174 (4)			0.0174 (4)
$\gamma_{1,0}$(Np)	33.1963 (3)	21.3 (30)	M1+1.66%E2	175 (24)	0.1215 (28)
$\gamma_{3,1}$(Np)	42.704 (5)	0.42 (9)	(M1+≈1.7%E2)	≈75 (7)	0.0055 (11)
$\gamma_{4,2}$(Np)	43.420 (3)	12.1 (16)	M1+16.6%E2	180 (23)	0.0669 (29)
$\gamma_{14,10}$(Np)	51.01 (3)	0.000046 (21)	E1	0.753 (11)	0.000026 (12)
$\gamma_{6,4}$(Np)	55.56 (2)	1.19 (16)	M1+17.5%E2	65 (6)	0.0181 (18)
$\gamma_{-1,2}$(Np)	57.85 (5)				0.0052 (15)
$\gamma_{2,0}$(Np)	59.5409 (1)	77.6 (25)	E1 anomalous	1.16 (7)	35.92 (17)
$\gamma_{14,9}$(Np)	64.83 (2)	0.000196 (28)	E1	0.400 (8)	0.00014 (2)
$\gamma_{8,6}$(Np)	67.50 (2)	0.013 (4)	(M1+17%E2)	29 (6)	0.00042 (10)
$\gamma_{4,1}$(Np)	69.76 (3)	0.0039 (5)	(E1)	0.330 (7)	0.0029 (4)
$\gamma_{3,0}$(Np)	75.90 (1)	0.032	(E2)	53.1 (11)	0.0006
$\gamma_{5,1}$(Np)	96.79 (3)	0.000047 (16)			0.000047 (16)
$\gamma_{6,2}$(Np)	98.97 (2)	0.329 (10)	E2	15.2 (3)	0.0203 (4)
$\gamma_{4,0}$(Np)	102.98 (2)	0.0218 (5)	E1	0.1189 (24)	0.0195 (4)
$\gamma_{-1,3}$(Np)	106.42 (5)				0.000015
$\gamma_{20,13}$(Np)	109.70 (7)	0.000051	[E2]	9.44 (19)	0.0000049
$\gamma_{21,13}$(Np)	120.36 (8)				0.0000045
$\gamma_{8,4}$(Np)	123.05 (1)	0.00675 (30)	E2	5.75 (12)	0.00100 (4)
$\gamma_{6,1}$(Np)	125.30 (2)	0.00533 (26)	(E1)	0.299 (6)	0.0041 (2)
$\gamma_{29,22}$(Np)	139.44 (8)	0.000023 (5)	[E2]	3.37 (7)	0.0000053 (11)
$\gamma_{11,6}$(Np)	146.55 (3)	0.00172 (5)	E2	2.73 (6)	0.00046 (1)
$\gamma_{8,3}$(Np)	150.04 (3)	0.000087 (6)	[E1]	0.197 (4)	0.000073 (5)
$\gamma_{26,15}$(Np)	154.27 (20)	0.000004	[M1]	7.06 (14)	0.0000005
$\gamma_{29,20}$(Np)	159.26 (20)	0.0000016 (6)	[E1]	0.171 (4)	0.0000014 (5)
$\gamma_{24,13}$(Np)	161.54 (10)	0.000011	[M1]	6.20 (12)	0.0000015
$\gamma_{9,4}$(Np)	164.61 (2)	0.000178 (9)	E2	1.70 (4)	0.000066 (3)
$\gamma_{13,6}$(Np)	165.81 (6)	0.00011 (5)	[M1+E2]	3.7 (22)	0.000023 (1)
$\gamma_{18,8}$(Np)	169.56 (3)	0.000427 (26)	E2	1.51 (3)	0.00017 (1)
$\gamma_{11,5}$(Np)	175.07 (4)	0.000021 (3)	[E1]	0.137 (3)	0.000018 (3)
$\gamma_{-1,7}$(Np)	190.4				0.0000022 (5)
$\gamma_{25,11}$(Np)	191.96 (4)	0.0000415 (20)	[E2]	0.932 (19)	0.0000215 (10)
$\gamma_{29,18}$(Np)	196.76 (8)	0.00000054	[E1]	0.1045 (21)	0.00000049
$\gamma_{-1,8}$(Np)	201.70 (14)	0.0000008			0.0000008
$\gamma_{18,7}$(Np)	204.06 (6)	0.00000226 (7)	[E1]	0.0960 (19)	0.00000206 (6)
$\gamma_{9,2}$(Np)	208.005 (23)	0.00313 (6)	M1+2.38%E2	2.98 (6)	0.000786 (9)
$\gamma_{13,4}$(Np)	221.46 (3)	0.00011 (5)	[M1+E2]	1.5 (10)	0.0000434 (8)
$\gamma_{26,10}$(Np)	232.81 (5)	0.0000155 (4)	[M1]	2.22 (5)	0.00000482 (9)
$\gamma_{9,1}$(Np)	234.40 (4)	0.0000080 (8)	M2	8.24 (17)	0.00000087 (8)
$\gamma_{26,9}$(Np)	246.73 (10)	0.00000703 (22)	[M1]	1.88 (4)	0.00000244 (7)
$\gamma_{13,3}$(Np)	248.52 (3)	0.00000155 (3)	[E1]	0.0612 (12)	0.00000146 (3)
$\gamma_{22,7}$(Np)	261.00 (7)	0.00000169 (8)	[E2]	0.312 (6)	0.00000129 (6)
$\gamma_{13,2}$(Np)	264.88 (3)	0.000018 (7)	[M1+E2]	0.9 (7)	0.00000943 (12)
$\gamma_{9,0}$(Np)	267.54 (4)	0.000055 (2)	E1+19.4%M2	1.06 (6)	0.0000268 (6)
$\gamma_{-1,9}$(Np)	270.63 (15)				0.0000005 (2)
$\gamma_{-1,10}$(Np)	271.54				0.00000144 (5)

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_T	P_γ × 100
$\gamma_{20,6}$(Np)	275.77 (8)	0.000011 (4)	[M1+E2]	0.8 (6)	0.00000632 (10)
$\gamma_{27,9}$(Np)	278.04 (15)	0.00000270 (8)	[M1]	1.35 (3)	0.00000115 (3)
$\gamma_{13,1}$(Np)	291.3 (2)	0.00000318 (8)	[E1]	0.0430 (9)	0.00000305 (8)
$\gamma_{16,3}$(Np)	292.77 (6)	0.0000173 (4)	[E2]	0.215 (4)	0.0000142 (3)
$\gamma_{20,5}$(Np)	304.21 (20)	0.000000966 (21)	[E1]	0.0391 (8)	0.00000093 (2)
$\gamma_{16,2}$(Np)	309.1 (3)	0.00000210 (31)	[E1]	0.0377 (8)	0.0000020 (3)
$\gamma_{22,5}$(Np)	322.56 (3)	0.000257 (7)	(M1+26.5%E2)	0.702 (12)	0.000151 (4)
$\gamma_{-1,11}$(Np)	324.69	0.0000018 (3)			0.0000018 (3)
$\gamma_{-1,12}$(Np)	329.69	0.0000011 (2)			0.0000011 (2)
$\gamma_{14,0}$(Np)	332.35 (3)	0.000172 (5)	E2	0.147 (3)	0.000150 (4)
$\gamma_{16,1}$(Np)	335.37 (3)	0.00084 (4)	M1+17.3%E2	0.69 (8)	0.000496 (7)
$\gamma_{17,1}$(Np)	337.7 (2)	0.00000556 (10)	(E2)	0.140 (3)	0.00000488 (9)
$\gamma_{-1,13}$(Np)	350.71	0.00000139 (5)			0.00000139 (5)
$\gamma_{20,3}$(Np)	358.25 (20)	0.00000133 (5)	[E1]	0.0275 (6)	0.00000129 (5)
$\gamma_{16,0}$(Np)	368.62 (3)	0.000347 (9)	(M1)	0.622 (12)	0.000214 (5)
$\gamma_{17,0}$(Np)	370.94 (3)	0.000080 (4)	M1+16%E2	0.53 (7)	0.0000520 (8)
$\gamma_{-1,14}$(Np)	374.83	0.00000313 (5)			0.00000313 (6)
$\gamma_{22,3}$(Np)	376.65 (3)	0.000225 (9)	(M1)	0.586 (12)	0.000137 (3)
$\gamma_{23,3}$(Np)	383.81 (3)	0.000037 (7)	[M1+E2]	0.33 (23)	0.0000281 (6)
$\gamma_{-1,15}$(Np)	389.0 (3)	0.0000005			0.00000049
$\gamma_{-1,16}$(Np)	390.61 (5)	0.00000573 (8)			0.00000573 (10)
$\gamma_{29,7}$(Np)	400.78 (10)	0.00000018 (5)	[M1+E2]	0.29 (21)	0.00000014 (3)
$\gamma_{30,7}$(Np)	406.35 (15)	0.00000175 (28)	[M1+E2]	0.28 (20)	0.00000137 (5)
$\gamma_{-1,17}$(Np)	411.27	0.00000018 (4)			0.00000018 (4)
$\gamma_{22,1}$(Np)	419.33 (4)	0.000036 (5)	[M1+E2]	0.26 (18)	0.0000284 (4)
$\gamma_{23,1}$(Np)	426.47 (4)	0.000039 (9)	[M1+E2]	0.25 (18)	0.000031 (6)
$\gamma_{-1,18}$(Np)	429.9 (1)	0.00000109 (5)			0.00000109 (5)
$\gamma_{-1,19}$(Np)	440.63	0.00000056 (3)			0.00000056 (3)
$\gamma_{-1,20}$(Np)	442.81 (7)	0.00000331 (7)			0.00000331 (8)
$\gamma_{35,13}$(Np)	446.15 (6)	0.00000011 (2)			0.00000011 (2)
$\gamma_{22,0}$(Np)	452.6 (2)	0.00000251 (7)	[E2]	0.0635 (13)	0.00000236 (7)
$\gamma_{26,2}$(Np)	454.66 (8)	0.0000129 (2)	[M1]	0.351 (7)	0.00000953 (12)
$\gamma_{23,0}$(Np)	459.68 (10)	0.0000043 (5)	[M1+E2]	0.20 (14)	0.00000355 (7)
$\gamma_{29,5}$(Np)	462.34 (8)	0.0000012	[M1+E2]	0.20 (14)	0.000001
$\gamma_{30,5}$(Np)	468.12 (15)	0.0000032 (4)	[M1+E2]	0.19 (14)	0.00000269 (6)
$\gamma_{-1,21}$(Np)	486.05	0.00000105 (6)			0.00000105 (6)
$\gamma_{28,4}$(Np)	487.13 (4)	0.00000080 (6)	[M1]	0.291 (6)	0.00000062 (5)
$\gamma_{-1,22}$(Np)	494.39	0.00000010 (2)			0.00000010 (2)
$\gamma_{-1,23}$(Np)	501.39	0.00000014 (2)			0.00000014 (2)
$\gamma_{27,1}$(Np)	512.5 (3)	0.00000210 (41)	[E1]	0.0133 (3)	0.0000021 (4)
$\gamma_{26,0}$(Np)	514.0 (5)	0.0000039 (2)	[E1]	0.0132	0.0000038 (2)
$\gamma_{30,3}$(Np)	522.06 (15)	0.00000113 (11)	[M1+E2]	0.14 (10)	0.00000099 (5)
$\gamma_{-1,24}$(Np)	525.14	0.00000016 (3)			0.00000016 (3)
$\gamma_{38,13}$(Np)	529.17 (20)	0.00000072 (5)	[E2]	0.0437 (9)	0.00000069 (5)
$\gamma_{-1,25}$(Np)	532.44	0.00000008 (2)			0.00000008 (2)
$\gamma_{27,0}$(Np)	546.12 (6)	0.00000025 (3)	[E1]	0.0117 (2)	0.00000025 (3)
$\gamma_{-1,26}$(Np)	548.15	0.00000005 (2)			0.00000005 (2)
$\gamma_{-1,27}$(Np)	555.25	0.00000009 (2)			0.00000009 (2)

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_T	P_γ × 100
$\gamma_{33,6}$(Np)	563.46 (2)	0.000000460 (21)	[E2]	0.0378 (8)	0.00000044 (2)
$\gamma_{36,8}$(Np)	573.94 (20)	0.00000142 (12)	[M1+E2]	0.11 (8)	0.00000128 (5)
$\gamma_{-1,28}$(Np)	582.89	0.00000101 (6)			0.00000101 (6)
$\gamma_{31,2}$(Np)	586.59 (20)	0.00000128 (5)	[E2]	0.0346 (7)	0.00000124 (5)
$\gamma_{28,0}$(Np)	590.09 (4)	0.00000283 (6)	[E1]	0.0101 (2)	0.00000280 (6)
$\gamma_{34,6}$(Np)	597.19 (2)	0.0000080 (5)	[M1+E2]	0.10 (7)	0.00000729 (11)
$\gamma_{-1,29}$(Np)	600.26	0.00000022 (3)			0.00000022 (3)
$\gamma_{33,4}$(Np)	619.01 (2)	0.000065 (5)	[M1+E2]	0.09 (7)	0.000060 (2)
$\gamma_{38,8}$(Np)	627.18 (20)	0.00000056 (4)	[M1+E2]	0.09 (6)	0.00000051 (2)
$\gamma_{32,1}$(Np)	632.93 (15)	0.00000124 (5)			0.00000124 (5)
$\gamma_{-1,30}$(Np)	636.9	0.00000021 (3)			0.00000021 (3)
$\gamma_{36,6}$(Np)	641.32 (4)	0.0000076 (5)	[M1+E2]	0.08 (6)	0.00000704 (10)
$\gamma_{34,4}$(Np)	652.73 (2)	0.0000410 (25)	[M1+E2]	0.08 (6)	0.0000376 (9)
$\gamma_{33,2}$(Np)	662.40 (2)	0.00045 (10)	(E0+M1+E2)	0.23 (5)	0.000367 (6)
$\gamma_{32,0}$(Np)	666.2 (2)	0.00000095 (7)			0.00000095 (7)
$\gamma_{36,5}$(Np)	669.83 (2)	0.00000051 (7)	[E1]	0.0080 (2)	0.00000051 (7)
$\gamma_{37,5}$(Np)	675.78 (13)	0.00000091 (7)	[E2,M1]	0.07 (5)	0.00000085 (5)
$\gamma_{34,3}$(Np)	679.79 (2)	0.00000334 (8)	[E1]	0.00776 (16)	0.00000331 (8)
$\gamma_{33,1}$(Np)	688.72 (4)	0.0000325 (6)	[E1]	0.00758 (16)	0.0000323 (6)
$\gamma_{-1,31}$(Np)	693.46	0.00000354 (7)			0.00000354 (8)
$\gamma_{34,2}$(Np)	696.14 (2)	0.0000055 (3)	[M1+E2]	0.07 (5)	0.00000517 (8)
$\gamma_{-1,32}$(Np)	709.42 (5)	0.00000641 (18)			0.00000641 (19)
$\gamma_{-1,33}$(Np)	712.5	0.00000020 (3)			0.00000020 (3)
$\gamma_{33,0}$(Np)	721.96 (2)	0.000197 (5)	[E1]	0.0070 (2)	0.000196 (5)
$\gamma_{37,3}$(Np)	729.72 (15)	0.00000151 (6)	[M1]	0.099 (2)	0.00000137 (5)
$\gamma_{-1,34}$(Np)	731.44	0.00000046 (4)			0.00000046 (4)
$\gamma_{-1,35}$(Np)	736.68	0.00000128 (5)			0.00000128 (5)
$\gamma_{35,1}$(Np)	737.34 (5)	0.00000794 (8)			0.00000794 (11)
$\gamma_{-1,36}$(Np)	740.51	0.00000019 (3)			0.00000019 (3)
$\gamma_{-1,37}$(Np)	742.9 (3)	0.00000035			0.00000035
$\gamma_{-1,38}$(Np)	745.02	0.00000009 (2)			0.00000009 (2)
$\gamma_{-1,39}$(Np)	750.39	0.00000006 (2)			0.00000006 (2)
$\gamma_{34,0}$(Np)	755.68 (2)	0.00000789 (11)	[E1]	0.0064 (1)	0.00000784 (11)
$\gamma_{-1,40}$(Np)	759.5 (1)	0.00000181 (5)			0.00000181 (5)
$\gamma_{-1,41}$(Np)	763.31	0.00000023 (2)			0.00000023 (2)
$\gamma_{36,1}$(Np)	766.62 (4)	0.00000504 (6)	[E1]	0.00623 (12)	0.00000501 (6)
$\gamma_{35,0}$(Np)	770.57 (10)	0.00000481 (5)			0.00000481 (7)
$\gamma_{37,1}$(Np)	772.57 (12)	0.00000303 (5)	[M1]	0.0847 (17)	0.00000279 (4)
$\gamma_{-1,42}$(Np)	774.67	0.00000011 (2)			0.00000011 (2)
$\gamma_{-1,43}$(Np)	777.39	0.00000015 (2)			0.00000015 (2)
$\gamma_{-1,44}$(Np)	780.53	0.00000031 (2)			0.00000031 (2)
$\gamma_{-1,45}$(Np)	782.2 (5)	0.00000015			0.00000015
$\gamma_{39,3}$(Np)	786.00 (15)	0.00000062 (0)			0.00000062
$\gamma_{-1,46}$(Np)	789.0 (3)	0.00000042 (6)			0.00000042 (6)
$\gamma_{-1,47}$(Np)	792.6	0.00000003 (1)			0.00000003 (1)
$\gamma_{-1,48}$(Np)	794.92 (20)	0.00000094			0.00000094
$\gamma_{39,2}$(Np)	801.94 (20)	0.00000123 (7)			0.00000123 (7)
$\gamma_{-1,49}$(Np)	803.19	0.00000016 (3)			0.00000016 (3)

	Energy keV	$P_{\gamma+ce}$ × 100	Multipolarity	α_T	P_γ × 100
$\gamma_{37,0}$(Np)	805.77 (12)	0.00000033	[M1,E2]	0.05 (3)	0.00000031
$\gamma_{-1,50}$(Np)	811.9 (3)	0.00000063 (6)			0.00000063 (6)
$\gamma_{-1,51}$(Np)	819.33	0.00000043 (6)			0.00000043 (6)
$\gamma_{-1,52}$(Np)	822.21	0.00000024 (6)			0.00000024 (6)
$\gamma_{39,1}$(Np)	828.60 (12)	0.00000021 (4)			0.00000021 (4)
$\gamma_{-1,53}$(Np)	835.21	0.00000003 (1)			0.00000003 (1)
$\gamma_{-1,54}$(Np)	838.88	0.00000004 (1)			0.00000004 (1)
$\gamma_{-1,55}$(Np)	841.14	0.00000010 (3)			0.00000010 (3)
$\gamma_{-1,56}$(Np)	843.7	0.00000097 (8)			0.00000097 (8)
$\gamma_{-1,57}$(Np)	846.86	0.00000016 (3)			0.00000016 (3)
$\gamma_{-1,58}$(Np)	847.4 (5)	0.0000003			0.00000027 (3)
$\gamma_{-1,59}$(Np)	851.6 (10)	0.00000041 (6)			0.00000041 (6)
$\gamma_{-1,60}$(Np)	854.95	0.00000023 (4)			0.00000023 (4)
$\gamma_{-1,61}$(Np)	856.26	0.00000010 (3)			0.00000010 (3)
$\gamma_{40,2}$(Np)	861.34 (20)	0.00000008			0.00000008 (3)
$\gamma_{39,0}$(Np)	861.80 (12)	0.00000061 (6)			0.00000061 (6)
$\gamma_{-1,62}$(Np)	870.63	0.00000150 (3)			0.00000150 (4)
$\gamma_{-1,63}$(Np)	882	0.00000004 (1)			0.00000004 (1)
$\gamma_{-1,64}$(Np)	886.53	0.00000015 (3)			0.00000015 (3)
$\gamma_{40,1}$(Np)	887.68 (20)	0.00000033 (6)			0.00000033 (6)
$\gamma_{-1,65}$(Np)	890.38	0.00000032 (5)			0.00000032 (5)
$\gamma_{-1,66}$(Np)	894.47	0.00000003 (1)			0.00000003 (1)
$\gamma_{-1,67}$(Np)	898.17	0.00000006 (2)			0.00000006 (2)
$\gamma_{-1,68}$(Np)	902.61	0.00000033 (3)			0.00000033 (3)
$\gamma_{-1,69}$(Np)	909.95	0.00000005 (1)			0.00000005 (1)
$\gamma_{-1,70}$(Np)	912.4	0.00000028 (3)			0.00000028 (3)
$\gamma_{40,0}$(Np)	920.88 (20)	0.00000019 (3)			0.00000019 (3)
$\gamma_{-1,71}$(Np)	928.95	0.00000009 (2)			0.00000009 (2)
$\gamma_{-1,72}$(Np)	939.2	0.00000005 (1)			0.00000005 (1)
$\gamma_{41,0}$(Np)	946.06	0.000000010 (3)			0.000000010 (2)
$\gamma_{-1,73}$(Np)	952.72	0.00000003 (1)			0.00000003 (1)
$\gamma_{-1,74}$(Np)	955.91	0.00000060 (5)			0.00000060 (5)
$\gamma_{42,0}$(Np)	962.19	0.00000004 (1)			0.00000004 (1)
$\gamma_{-1,75}$(Np)	969.09	0.00000003 (1)			0.00000003 (1)
$\gamma_{-1,76}$(Np)	980.84	0.00000003 (1)			0.00000003 (1)
$\gamma_{43,0}$(Np)	1014.33	0.0000010 (2)			0.0000010 (2)

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