$^{106}_{45}\mathrm{Rh}_{61}$

1 Decay Scheme

Rh-106 disintegrates by beta minus emission to the ground state and excited levels of Pd-106.

Le rhodium 106 se désintègre par émission bêta principalement vers le niveau fondamental et les niveaux excités du palladium 106.

2 Nuclear Data

$T_{1/2}(^{106}\mathrm{Rh}\ )$: 30,1 (3) s

$Q^{-}(^{106}\mathrm{Rh}\ )$: 3546 (5) keV

2.1 β^{-} Transitions

	Energy (keV)	Probability (%)	Nature	lg ft
$\beta^{-}_{0,37}$	144 (5)	0,0000125 (19)		
$\beta^{-}_{0,36}$	169 (5)	0,000025 (9)		
$\beta^{-}_{0,35}$	226 (5)	0,00087 (8)	Allowed	5,71
$\beta^{-}_{0,34}$	247 (5)	0,000082 (21)		
$\beta^{-}_{0,33}$	272 (5)	0,000049 (14)		
$\beta^{-}_{0,32}$	294 (5)	0,00021 (4)	Allowed	6,7
$\beta^{-}_{0,31}$	296 (5)	0,000086 (16)	Allowed	7,09
$\beta^{-}_{0,30}$	325 (5)	0,00402 (13)	Allowed	5,56
$\beta^{-}_{0,29}$	382 (5)	0,00070 (5)	(Allowed)	6,55
$\beta^{-}_{0,28}$	462 (5)	0,00278 (13)		
$\beta^{-}_{0,27}$	491 (5)	0,0101 (5)	Allowed	5,76
$\beta^{-}_{0,26}$	509 (5)	0,0022 (3)		
$\beta^{-}_{0,25}$	577 (5)	0,00022 (4)	Unique 1st Forbidden	7,82
$\beta^{-}_{0,24}$	628 (5)	0,0183 (7)	Allowed	5,87
$\beta^{-}_{0,23}$	644 (5)	0,00760 (18)	Allowed	6,29
$\beta^{-}_{0,22}$	668 (5)	0,0262 (9)	Allowed	5,81
$\beta^{-}_{0,21}$	718 (5)	0,00731 (19)	Allowed	6,47
$\beta^{-}_{0,20}$	725 (5)	0,0090 (3)	Allowed	6,4

	Energy (keV)	Probability (%)	Nature	lg ft
$\beta^-_{0,19}$	762 (5)	0,00117 (8)	Allowed	7,36
$\beta^-_{0,18}$	828 (5)	0,00023 (12)		
$\beta^-_{0,17}$	841 (5)	0,0106 (4)	(Allowed)	6,56
$\beta^-_{0,16}$	922 (5)	0,090 (3)	Allowed	5,78
$\beta^-_{0,15}$	1046 (5)	0,0284 (6)	1st Forbidden	6,48
$\beta^-_{0,14}$	1061 (5)	0,00093 (15)	(1st Forbidden)	7,99
$\beta^-_{0,13}$	1107 (5)	0,0208 (5)	Allowed	6,71
$\beta^-_{0,12}$	1237 (5)	0,0430 (7)	Allowed	6,57
$\beta^-_{0,11}$	1268 (5)	0,043 (5)	Allowed	6,62
$\beta^-_{0,10}$	1304 (5)	0,0372 (8)	Allowed	6,72
$\beta^-_{0,9}$	1545 (5)	0,448 (9)	Allowed	5,93
$\beta^-_{0,8}$	1637 (5)	0,00277 (21)	(Allowed)	8,24
$\beta^-_{0,7}$	1840 (5)	0,0664 (10)	Allowed	7,06
$\beta^-_{0,6}$	1984 (5)	1,67 (3)	Allowed	5,79
$\beta^-_{0,4}$	2317 (5)	0,0051 (5)	Unique 2nd Forbidden	11
$\beta^-_{0,3}$	2412 (5)	9,82 (15)	Allowed	5,37
$\beta^-_{0,2}$	2418 (5)	0,608 (21)	Allowed	6,58
$\beta^-_{0,1}$	3034 (5)	8,2 (3)	Allowed	5,87
$\beta^-_{0,0}$	3546 (5)	78,80 (24)	Allowed	5,18

2.2 Gamma Transitions and Internal Conversion Coefficients

	Energy (keV)	$P_{\gamma+ce}$ (%)	Multipolarity	α_K (10^{-3})	α_L (10^{-4})	α_M (10^{-5})	α_T (10^{-3})	α_π (10^{-4})
$\gamma_{6,3}$(Pd)	428,49 (5)	0,0711 (24)	E2	8,17 (12)	10,63 (15)	20,0 (3)	9,47 (14)	
$\gamma_{6,2}$(Pd)	434,23 (4)	0,020 (4)	E2	7,85 (11)	10,19 (15)	19,2 (3)	9,09 (13)	
$\gamma_{9,6}$(Pd)	439,23 (6)	0,0111 (16)						
$\gamma_{1,0}$(Pd)	511,8547 (23)	20,63 (23)	E2	4,84 (7)	6,12 (9)	11,53 (17)	5,59 (8)	
$\gamma_{7,2}$(Pd)	578,42 (6)	0,0090 (6)	E2	3,43 (5)	4,27 (6)	8,04 (12)	3,95 (6)	
$\gamma_{2,1}$(Pd)	616,17 (3)	0,733 (17)	M1+98%E2	2,89 (4)	3,57 (5)	6,71 (10)	3,33 (5)	
$\gamma_{3,1}$(Pd)	621,91 (4)	9,90 (15)	E2	2,82 (4)	3,48 (5)	6,54 (10)	3,24 (5)	
$\gamma_{10,6}$(Pd)	680,23 (6)	0,0103 (6)	E1+14%M2	2,34 (4)	2,74 (4)	5,15 (8)	2,68 (4)	
$\gamma_{10,5}$(Pd)	684,80 (6)	0,00552 (21)						
$\gamma_{17,9}$(Pd)	702,8 (10)	0,00029 (18)						
$\gamma_{11,6}$(Pd)	715,86 (9)	0,0099 (4)						
$\gamma_{4,1}$(Pd)	717,45 (4)	0,0067 (4)	E2	1,94 (3)	2,36 (4)	4,43 (7)	2,23 (4)	
$\gamma_{12,5}$(Pd)	751,26 (20)	0,00121 (23)						
$\gamma_{9,2}$(Pd)	873,46 (6)	0,436 (8)	E2	1,201 (17)	1,432 (20)	2,69 (4)	1,375 (20)	
$\gamma_{15,5}$(Pd)	942,63 (9)	0,00060 (18)						
$\gamma_{5,1}$(Pd)	1045,83 (4)	0,0131 (16)	M1+94%E2	0,803 (12)	0,942 (14)	1,766 (25)	0,918 (13)	
$\gamma_{6,1}$(Pd)	1050,40 (3)	1,492 (25)	M1+5,4%E2	0,883 (13)	1,018 (15)	1,91 (3)	1,007 (15)	
$\gamma_{16,6}$(Pd)	1062,15 (6)	0,0304 (19)						
$\gamma_{10,3}$(Pd)	1108,72 (6)	0,0056 (3)						
$\gamma_{10,2}$(Pd)	1114,46 (6)	0,0117 (3)	M1+69%E2	0,720 (12)	0,838 (14)	1,570 (25)	0,823 (14)	0,00830 (17)
$\gamma_{2,0}$(Pd)	1128,02 (3)	0,398 (8)	E2	0,675 (10)	0,790 (11)	1,479 (21)	0,773 (11)	0,01341 (19)
$\gamma_{3,0}$(Pd)	1133,76 (4)		E0					
$\gamma_{11,2}$(Pd)	1150,09 (9)	0,00287 (17)	E2	0,648 (9)	0,757 (11)	1,417 (20)	0,742 (11)	0,0248 (4)
$\gamma_{18,5}$(Pd)	1159,91 (21)	0,00023 (12)						
$\gamma_{12,2}$(Pd)	1180,80 (6)	0,0144 (3)	M1+0,4%E2	0,689 (10)	0,792 (12)	1,482 (22)	0,790 (12)	0,0421 (7)
$\gamma_{7,1}$(Pd)	1194,59 (5)	0,0573 (8)	E2	0,597 (9)	0,696 (10)	1,304 (19)	0,689 (10)	0,0664 (10)
$\gamma_{13,4}$(Pd)	1209,80 (8)	0,00039 (8)						
$\gamma_{20,6}$(Pd)	1258,72 (9)	0,00066 (8)						

	Energy (keV)	$P_{\gamma+ce}$ (%)	Multipolarity	α_K (10^{-3})	α_L (10^{-4})	α_M (10^{-5})	α_T (10^{-3})	α_π (10^{-4})
$\gamma_{21,6}$(Pd)	1266,04 (9)	0,00109 (10)						
$\gamma_{13,3}$(Pd)	1305,34 (8)	0,00109 (12)						
$\gamma_{22,6}$(Pd)	1315,67 (8)	0,0030 (5)	E2	0,489 (7)	0,567 (8)	1,061 (15)	0,586 (9)	0,280 (4)
$\gamma_{24,6}$(Pd)	1355,61 (9)	0,00060 (25)						
$\gamma_{24,5}$(Pd)	1360,18 (9)	0,0018 (4)						
$\gamma_{15,2}$(Pd)	1372,29 (9)	0,00199 (15)						
$\gamma_{8,1}$(Pd)	1397,52 (16)	0,00277 (21)						
$\gamma_{9,1}$(Pd)	1489,63 (5)	0,0018 (3)						
$\gamma_{16,2}$(Pd)	1496,38 (6)	0,0240 (17)						
$\gamma_{27,5}$(Pd)	1498,74 (16)	0,0068 (4)						
$\gamma_{6,0}$(Pd)	1562,25 (3)	0,156 (8)						
$\gamma_{17,3}$(Pd)	1572,48 (20)	0,00185 (19)						
$\gamma_{17,2}$(Pd)	1577,28 (9)	0,00105 (16)						
$\gamma_{20,3}$(Pd)	1687,21 (10)	0,00055 (16)						
$\gamma_{20,2}$(Pd)	1693,2 (3)	0,00082 (14)						
$\gamma_{10,1}$(Pd)	1730,46 (20)	0,00209 (13)						
$\gamma_{11,1}$(Pd)	1766,26 (9)	0,030 (5)	E2	0,274 (4)	0,314 (5)	0,586 (9)	0,506 (7)	1,93 (3)
$\gamma_{23,2}$(Pd)	1774,46 (10)	0,00094 (8)						
$\gamma_{24,3}$(Pd)	1784,10 (9)	0,00043 (12)						
$\gamma_{12,1}$(Pd)	1796,97 (5)	0,0274 (5)	M1+5,9%E2	0,287 (4)	0,327 (5)	0,611 (9)	0,516 (8)	1,89 (3)
$\gamma_{28,4}$(Pd)	1854,91 (20)	0,00125 (10)						
$\gamma_{26,2}$(Pd)	1909,30 (17)	0,00107 (25)						
$\gamma_{13,1}$(Pd)	1927,25 (7)	0,0147 (4)	M1+0,5%E2	0,250 (4)	0,285 (4)	0,533 (8)	0,532 (8)	2,47 (4)
$\gamma_{28,2}$(Pd)	1954,9 (4)	0,00020 (4)						
$\gamma_{14,1}$(Pd)	1973,4 (8)	0,00017 (4)						
$\gamma_{15,1}$(Pd)	1988,46 (8)	0,0258 (5)	E1+0,25%M2	0,1173 (22)	0,1318 (25)	0,246 (5)	0,735 (11)	6,02 (9)
$\gamma_{30,2}$(Pd)	2093,35 (25)	0,00029 (6)	E2	0,200 (3)	0,228 (4)	0,426 (6)	0,576 (8)	3,48 (5)
$\gamma_{16,1}$(Pd)	2112,55 (5)	0,0351 (7)	E2	0,197 (3)	0,224 (4)	0,419 (6)	0,581 (9)	3,57 (5)
$\gamma_{35,3}$(Pd)	2185,7 (5)	0,00025 (6)						
$\gamma_{17,1}$(Pd)	2193,19 (10)	0,00495 (21)	M1+2,8%E2	0,194 (3)	0,220 (3)	0,412 (6)	0,594 (9)	3,73 (6)
$\gamma_{10,0}$(Pd)	2242,48 (5)	0,00195 (8)						
$\gamma_{19,1}$(Pd)	2271,89 (21)	0,00117 (8)						
$\gamma_{20,1}$(Pd)	2309,12 (9)	0,00575 (16)						
$\gamma_{21,1}$(Pd)	2316,44 (9)	0,00622 (16)	E2	0,1670 (24)	0,189 (3)	0,354 (5)	0,646 (9)	4,56 (7)
$\gamma_{22,1}$(Pd)	2366,07 (7)	0,0232 (7)	E2	0,1608 (23)	0,182 (3)	0,341 (5)	0,663 (10)	4,80 (7)
$\gamma_{23,1}$(Pd)	2390,63 (10)	0,00660 (16)	M1+1,0%E2	0,1645 (24)	0,186 (3)	0,349 (5)	0,654 (10)	4,67 (7)
$\gamma_{24,1}$(Pd)	2406,01 (8)	0,0145 (4)	M1+0,25%E2	0,1626 (23)	0,184 (3)	0,344 (5)	0,659 (10)	4,74 (7)
$\gamma_{13,0}$(Pd)	2439,10 (7)	0,00464 (13)	E2	0,1525 (22)	0,1727 (25)	0,323 (5)	0,689 (10)	5,15 (8)
$\gamma_{25,1}$(Pd)	2456,83 (21)	0,00022 (4)						
$\gamma_{14,0}$(Pd)	2484,66 (20)	0,00076 (14)						
$\gamma_{26,1}$(Pd)	2525,47 (17)	0,00011 (3)						
$\gamma_{27,1}$(Pd)	2542,82 (10)	0,00289 (9)	M1+0,5%E2	0,1464 (21)	0,1657 (24)	0,310 (5)	0,705 (10)	5,39 (8)
$\gamma_{28,1}$(Pd)	2571,19 (20)	0,00133 (6)						
$\gamma_{29,1}$(Pd)	2651,43 (20)	0,00068 (4)						
$\gamma_{17,0}$(Pd)	2705,30 (8)	0,00248 (13)						
$\gamma_{30,1}$(Pd)	2709,52 (25)	0,00373 (11)	E2	0,1271 (18)	0,1436 (21)	0,268 (4)	0,785 (11)	6,41 (9)
$\gamma_{32,1}$(Pd)	2740,2 (4)	0,00021 (4)						
$\gamma_{34,1}$(Pd)	2788,2 (5)	0,000082 (21)						
$\gamma_{35,1}$(Pd)	2809,1 (3)	0,00062 (4)	E2	0,1195 (17)	0,1349 (19)	0,252 (4)	0,822 (12)	6,86 (10)
$\gamma_{20,0}$(Pd)	2821,2 (3)	0,00120 (4)						
$\gamma_{36,1}$(Pd)	2865 (1)	0,000014 (8)						
$\gamma_{23,0}$(Pd)	2902,6 (5)	0,000066 (21)						
$\gamma_{24,0}$(Pd)	2917,6 (3)	0,00094 (4)						
$\gamma_{26,0}$(Pd)	3037,4 (3)	0,00105 (4)						
$\gamma_{27,0}$(Pd)	3055,1 (3)	0,00036 (4)						
$\gamma_{29,0}$(Pd)	3164,7 (10)	0,000023 (12)						
$\gamma_{31,0}$(Pd)	3249,9 (5)	0,000086 (16)						
$\gamma_{33,0}$(Pd)	3273,5 (7)	0,000049 (14)						
$\gamma_{36,0}$(Pd)	3376,0 (14)	0,0000113 (21)						
$\gamma_{37,0}$(Pd)	3401,9 (9)	0,0000125 (19)						

3 Atomic Data

3.1 Pd

ω_K : 0,820 (4)
$\bar{\omega}_L$: 0,0536 (13)
n_{KL} : 0,975 (4)

3.1.1 X Radiations

	Energy (keV)	Relative probability
X_K		
$K\alpha_2$	21,0203	52,93
$K\alpha_1$	21,1774	100
$K\beta_3$	23,7914	27,44
$K\beta_1$	23,819	
$K\beta_5''$	24,013	
$K\beta_2$	24,2994	4,66
$K\beta_4$	24,344	
X_L		
$L\ell$	2,5045	
$L\alpha$	2,8337 - 2,839	
$L\eta$	2,6611	
$L\beta$	2,9904 - 3,1715	
$L\gamma$	3,2464 - 3,5545	

3.1.2 Auger Electrons

	Energy (keV)	Relative probability
Auger K		
KLL	17,032 - 17,884	100
KLX	20,032 - 21,176	42
KXY	23,011 - 24,347	4,4
Auger L	1,83 - 3,60	

4 Electron Emissions

		Energy (keV)	Electrons (per 100 disint.)
e_{AL}	(Pd)	1,83 - 3,60	0,1377 (8)
e_{AK}	(Pd)		0,0238 (7)
	KLL	17,032 - 17,884	
	KLX	20,032 - 21,176	
	KXY	23,011 - 24,347	
$\beta^-_{0,37}$	max:	144 (5)	0,0000125 (19)
	avg:		
$\beta^-_{0,36}$	max:	169 (5)	0,000025 (9)
	avg:		
$\beta^-_{0,35}$	max:	226 (5)	0,00087 (8)
	avg:	62,9 (16)	
$\beta^-_{0,34}$	max:	247 (5)	0,000082 (21)
	avg:		
$\beta^-_{0,33}$	max:	272 (5)	0,000049 (14)
	avg:		
$\beta^-_{0,32}$	max:	294 (5)	0,00021 (4)
	avg:	84,5 (17)	
$\beta^-_{0,31}$	max:	296 (5)	0,000086 (16)
	avg:	85,2 (17)	
$\beta^-_{0,30}$	max:	325 (5)	0,00402 (13)
	avg:	94,5 (17)	
$\beta^-_{0,29}$	max:	382 (5)	0,00070 (5)
	avg:	113,8 (17)	
$\beta^-_{0,28}$	max:	462 (5)	0,00278 (13)
	avg:		
$\beta^-_{0,27}$	max:	491 (5)	0,0101 (5)
	avg:	151,8 (18)	
$\beta^-_{0,26}$	max:	509 (5)	0,0022 (3)
	avg:		
$\beta^-_{0,25}$	max:	577 (5)	0,00022 (4)
	avg:	202,8 (19)	
$\beta^-_{0,24}$	max:	628 (5)	0,0183 (7)
	avg:	202,3 (19)	
$\beta^-_{0,23}$	max:	644 (5)	0,00760 (18)
	avg:	208,1 (19)	
$\beta^-_{0,22}$	max:	668 (5)	0,0262 (9)
	avg:	217,5 (20)	
$\beta^-_{0,21}$	max:	718 (5)	0,00731 (19)
	avg:	236,6 (20)	
$\beta^-_{0,20}$	max:	725 (5)	0,0090 (3)
	avg:	239,4 (20)	

		Energy (keV)		Electrons (per 100 disint.)
$\beta^-_{0,19}$	max:	762	(5)	0,00117 (8)
	avg:	254	(2)	
$\beta^-_{0,18}$	max:	828	(5)	0,00023 (12)
	avg:			
$\beta^-_{0,17}$	max:	841	(5)	0,0106 (4)
	avg:	285,1	(20)	
$\beta^-_{0,16}$	max:	922	(5)	0,090 (3)
	avg:	317,8	(21)	
$\beta^-_{0,15}$	max:	1046	(5)	0,0284 (6)
	avg:	369,0	(21)	
$\beta^-_{0,14}$	max:	1061	(5)	0,00093 (15)
	avg:	375,6	(21)	
$\beta^-_{0,13}$	max:	1107	(5)	0,0208 (5)
	avg:	394,7	(21)	
$\beta^-_{0,12}$	max:	1237	(5)	0,0430 (7)
	avg:	450,1	(22)	
$\beta^-_{0,11}$	max:	1268	(5)	0,043 (5)
	avg:	463,3	(22)	
$\beta^-_{0,10}$	max:	1304	(5)	0,0372 (8)
	avg:	478,7	(22)	
$\beta^-_{0,9}$	max:	1545	(5)	0,448 (9)
	avg:	584,3	(23)	
$\beta^-_{0,8}$	max:	1637	(5)	0,00277 (21)
	avg:	625,2	(23)	
$\beta^-_{0,7}$	max:	1840	(5)	0,0664 (10)
	avg:	716,4	(23)	
$\beta^-_{0,6}$	max:	1984	(5)	1,67 (3)
	avg:	781,9	(23)	
$\beta^-_{0,4}$	max:	2317	(5)	0,0051 (5)
	avg:	951,8	(23)	
$\beta^-_{0,3}$	max:	2412	(5)	9,82 (15)
	avg:	978,9	(24)	
$\beta^-_{0,2}$	max:	2418	(5)	0,608 (21)
	avg:	981,6	(24)	
$\beta^-_{0,1}$	max:	3034	(5)	8,2 (3)
	avg:	1269,5	(24)	
$\beta^-_{0,0}$	max:	3546	(5)	78,80 (24)
	avg:	1511,1	(24)	

5 Photon Emissions

5.1 X-Ray Emissions

		Energy (keV)	Photons (per 100 disint.)	
XL	(Pd)	2,5045 - 3,5545	0,00785 (14)	
XKα_2	(Pd)	21,0203	0,0310 (5)	Kα
XKα_1	(Pd)	21,1774	0,0586 (9)	Kα
XKβ_3	(Pd)	23,7914	0,01608 (29)	K$'\beta_1$
XKβ_1	(Pd)	23,819	0,01608 (29)	K$'\beta_1$
XKβ_5''	(Pd)	24,013	0,01608 (29)	K$'\beta_1$
XKβ_2	(Pd)	24,2994	0,00273 (10)	K$'\beta_2$
XKβ_4	(Pd)	24,344	0,00273 (10)	K$'\beta_2$

5.2 Gamma Emissions

	Energy (keV)	Photons (per 100 disint.)
$\gamma_{6,3}$(Pd)	428,49 (5)	0,0704 (24)
$\gamma_{6,2}$(Pd)	434,23 (4)	0,020 (4)
$\gamma_{9,6}$(Pd)	439,23 (6)	0,0111 (16)
$\gamma_{1,0}$(Pd)	511,8534 (23)	20,52 (23)
$\gamma_{7,2}$(Pd)	578,42 (6)	0,0090 (6)
$\gamma_{2,1}$(Pd)	616,16 (3)	0,731 (17)
$\gamma_{3,1}$(Pd)	621,90 (4)	9,87 (15)
$\gamma_{10,6}$(Pd)	680,23 (6)	0,0103 (6)
$\gamma_{10,5}$(Pd)	684,80 (6)	0,00552 (21)
$\gamma_{17,9}$(Pd)	702,8 (10)	0,00029 (18)
$\gamma_{11,6}$(Pd)	715,86 (9)	0,0099 (4)
$\gamma_{4,1}$(Pd)	717,44 (4)	0,0067 (4)
$\gamma_{12,5}$(Pd)	751,26 (20)	0,00121 (23)
$\gamma_{9,2}$(Pd)	873,46 (6)	0,435 (8)
$\gamma_{15,5}$(Pd)	942,63 (9)	0,00060 (18)
$\gamma_{5,1}$(Pd)	1045,82 (4)	0,0131 (16)
$\gamma_{6,1}$(Pd)	1050,39 (3)	1,490 (25)
$\gamma_{16,6}$(Pd)	1062,14 (6)	0,0304 (19)
$\gamma_{10,3}$(Pd)	1108,71 (6)	0,0056 (3)
$\gamma_{10,2}$(Pd)	1114,45 (6)	0,0117 (3)
$\gamma_{2,0}$(Pd)	1128,01 (3)	0,398 (8)
$\gamma_{11,2}$(Pd)	1150,08 (9)	0,00287 (17)
$\gamma_{18,5}$(Pd)	1159,90 (21)	0,00023 (12)
$\gamma_{12,2}$(Pd)	1180,79 (6)	0,0144 (3)
$\gamma_{7,1}$(Pd)	1194,58 (5)	0,0573 (8)
$\gamma_{13,4}$(Pd)	1209,79 (8)	0,00039 (8)
$\gamma_{20,6}$(Pd)	1258,71 (9)	0,00066 (8)

	Energy (keV)	Photons (per 100 disint.)
$\gamma_{21,6}$(Pd)	1266,03 (9)	0,00109 (10)
$\gamma_{13,3}$(Pd)	1305,33 (8)	0,00109 (12)
$\gamma_{22,6}$(Pd)	1315,66 (8)	0,0030 (5)
$\gamma_{24,6}$(Pd)	1355,60 (9)	0,00060 (25)
$\gamma_{24,5}$(Pd)	1360,17 (9)	0,0018 (4)
$\gamma_{15,2}$(Pd)	1372,28 (9)	0,00199 (15)
$\gamma_{8,1}$(Pd)	1397,51 (16)	0,00277 (21)
$\gamma_{9,1}$(Pd)	1489,61 (5)	0,0018 (3)
$\gamma_{16,2}$(Pd)	1496,37 (6)	0,0240 (17)
$\gamma_{27,5}$(Pd)	1498,73 (16)	0,0068 (4)
$\gamma_{6,0}$(Pd)	1562,24 (3)	0,156 (8)
$\gamma_{17,3}$(Pd)	1572,47 (20)	0,00185 (19)
$\gamma_{17,2}$(Pd)	1577,27 (9)	0,00105 (16)
$\gamma_{20,3}$(Pd)	1687,2 (1)	0,00055 (16)
$\gamma_{20,2}$(Pd)	1693,2 (3)	0,00082 (14)
$\gamma_{10,1}$(Pd)	1730,44 (20)	0,00209 (13)
$\gamma_{11,1}$(Pd)	1766,24 (9)	0,030 (5)
$\gamma_{23,2}$(Pd)	1774,44 (10)	0,00094 (8)
$\gamma_{24,3}$(Pd)	1784,08 (9)	0,00043 (12)
$\gamma_{12,1}$(Pd)	1796,95 (5)	0,0274 (5)
$\gamma_{28,4}$(Pd)	1854,89 (20)	0,00125 (10)
$\gamma_{26,2}$(Pd)	1909,28 (17)	0,00107 (25)
$\gamma_{13,1}$(Pd)	1927,23 (7)	0,0147 (4)
$\gamma_{28,2}$(Pd)	1954,9 (4)	0,00020 (4)
$\gamma_{14,1}$(Pd)	1973,4 (8)	0,00017 (4)
$\gamma_{15,1}$(Pd)	1988,44 (8)	0,0258 (5)
$\gamma_{30,2}$(Pd)	2093,33 (25)	0,00029 (6)
$\gamma_{16,1}$(Pd)	2112,52 (5)	0,0351 (7)
$\gamma_{35,3}$(Pd)	2185,7 (5)	0,00025 (6)
$\gamma_{17,1}$(Pd)	2193,17 (10)	0,00495 (21)
$\gamma_{10,0}$(Pd)	2242,45 (5)	0,00195 (8)
$\gamma_{19,1}$(Pd)	2271,86 (21)	0,00117 (8)
$\gamma_{20,1}$(Pd)	2309,09 (9)	0,00575 (16)
$\gamma_{21,1}$(Pd)	2316,41 (9)	0,00622 (16)
$\gamma_{22,1}$(Pd)	2366,04 (7)	0,0232 (7)
$\gamma_{23,1}$(Pd)	2390,6 (1)	0,00659 (16)
$\gamma_{24,1}$(Pd)	2405,98 (8)	0,0145 (4)
$\gamma_{13,0}$(Pd)	2439,07 (7)	0,00464 (13)
$\gamma_{25,1}$(Pd)	2456,79 (21)	0,00022 (4)
$\gamma_{14,0}$(Pd)	2484,63 (20)	0,00076 (14)
$\gamma_{26,1}$(Pd)	2525,43 (17)	0,00011 (3)
$\gamma_{27,1}$(Pd)	2542,79 (10)	0,00289 (9)
$\gamma_{28,1}$(Pd)	2571,16 (20)	0,00133 (6)
$\gamma_{29,1}$(Pd)	2651,39 (20)	0,00068 (4)
$\gamma_{17,0}$(Pd)	2705,26 (8)	0,00248 (13)
$\gamma_{30,1}$(Pd)	2709,48 (25)	0,00373 (11)
$\gamma_{32,1}$(Pd)	2740,1 (4)	0,00021 (4)
$\gamma_{34,1}$(Pd)	2788,2 (5)	0,000082 (21)

	Energy (keV)	Photons (per 100 disint.)
$\gamma_{35,1}$(Pd)	2809,1 (3)	0,00062 (4)
$\gamma_{20,0}$(Pd)	2821,2 (3)	0,00120 (4)
$\gamma_{36,1}$(Pd)	2865 (1)	0,000014 (8)
$\gamma_{23,0}$(Pd)	2902,6 (5)	0,000066 (21)
$\gamma_{24,0}$(Pd)	2917,6 (3)	0,00094 (4)
$\gamma_{26,0}$(Pd)	3037,3 (3)	0,00105 (4)
$\gamma_{27,0}$(Pd)	3055,0 (3)	0,00036 (4)
$\gamma_{29,0}$(Pd)	3164,6 (10)	0,000023 (12)
$\gamma_{31,0}$(Pd)	3249,8 (5)	0,000086 (16)
$\gamma_{33,0}$(Pd)	3273,4 (7)	0,000049 (14)
$\gamma_{36,0}$(Pd)	3375,9 (14)	0,0000113 (21)
$\gamma_{37,0}$(Pd)	3401,8 (9)	0,0000125 (19)

6 Main Production Modes

$^{235}\mathrm{U(n,f)}^{106}\mathrm{Ru}$

$^{106}\mathrm{Ru}(\beta^-)^{106}\mathrm{Rh}$

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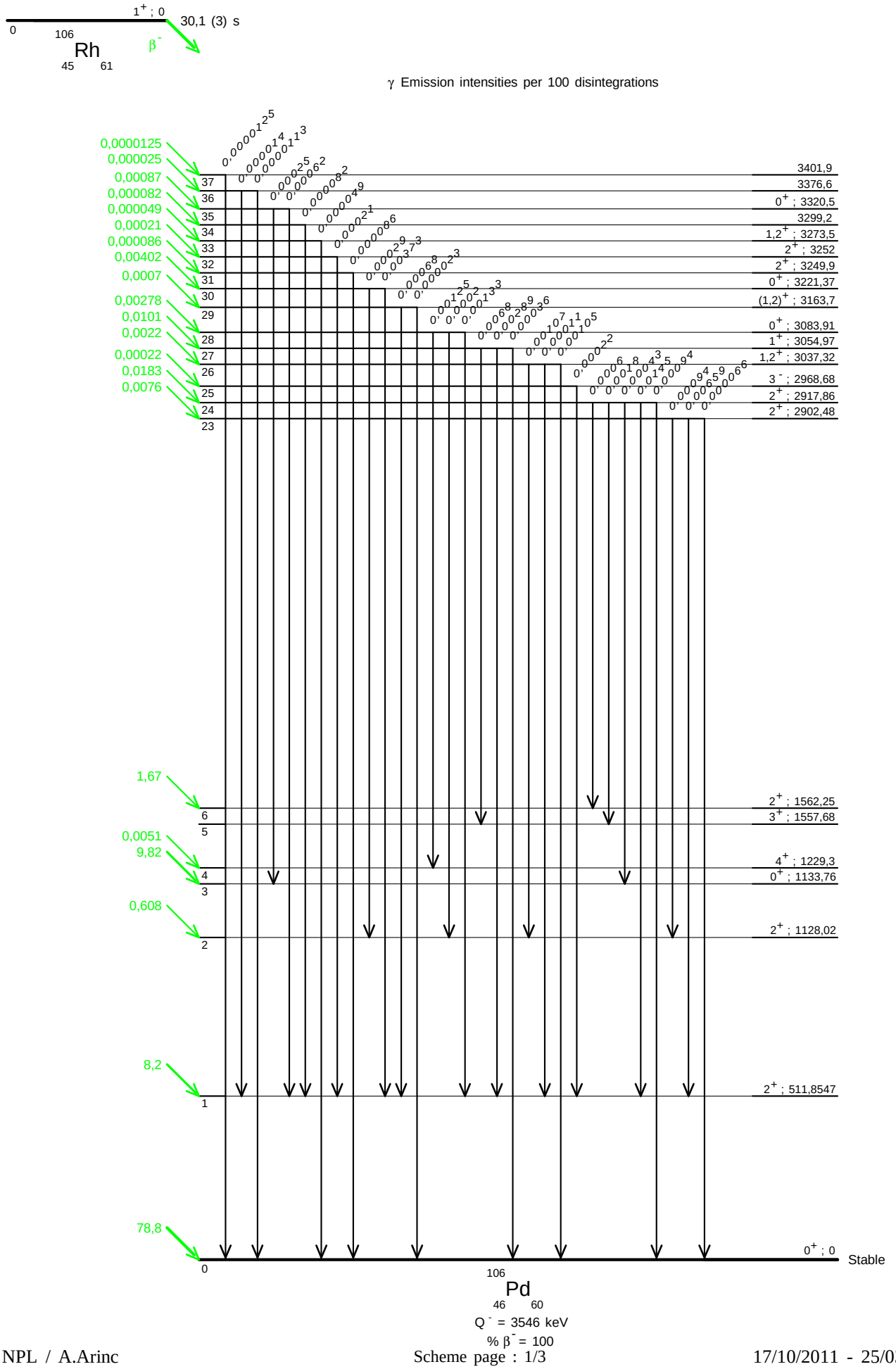
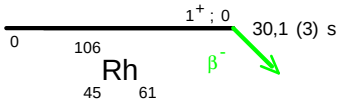
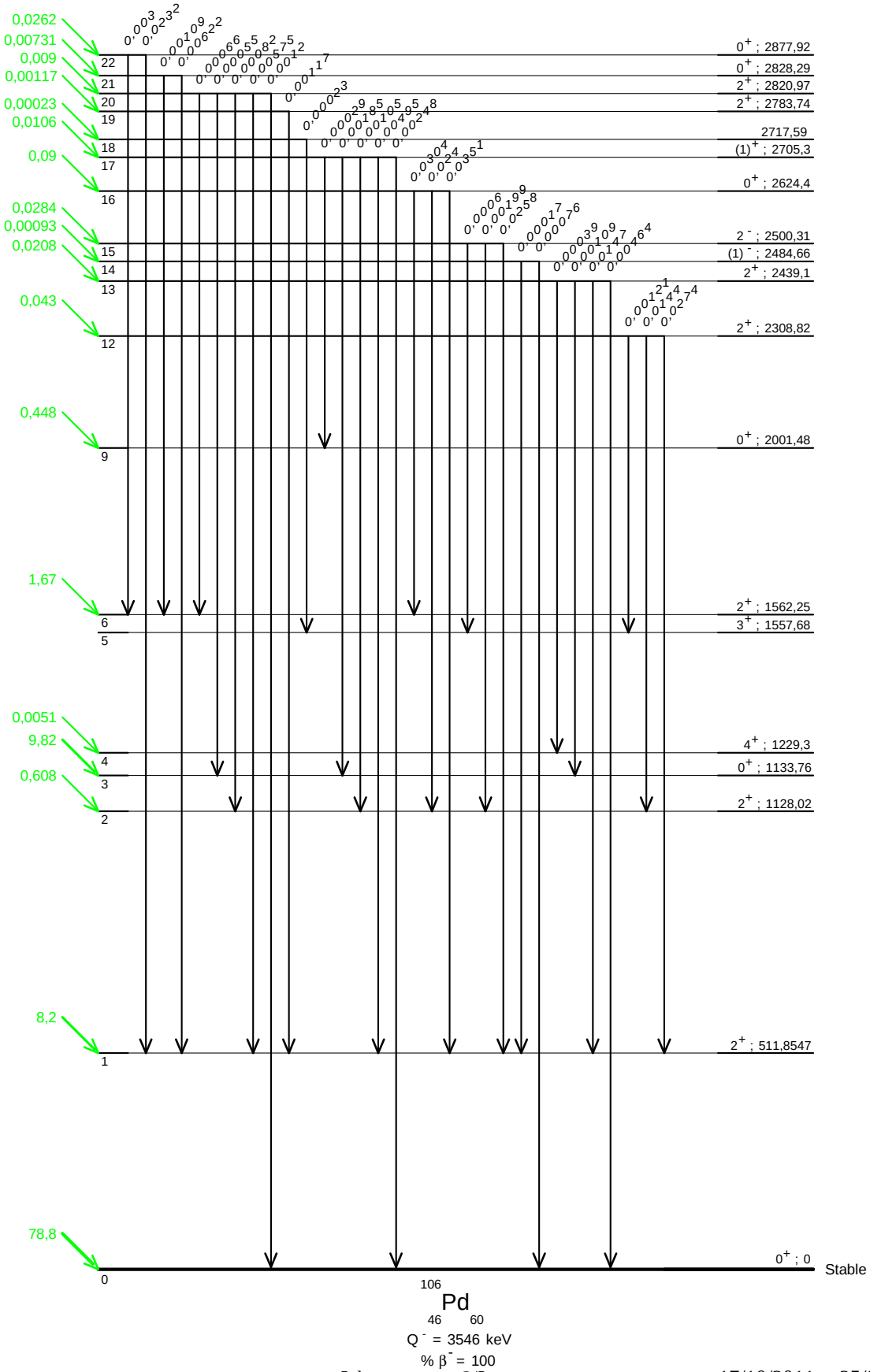
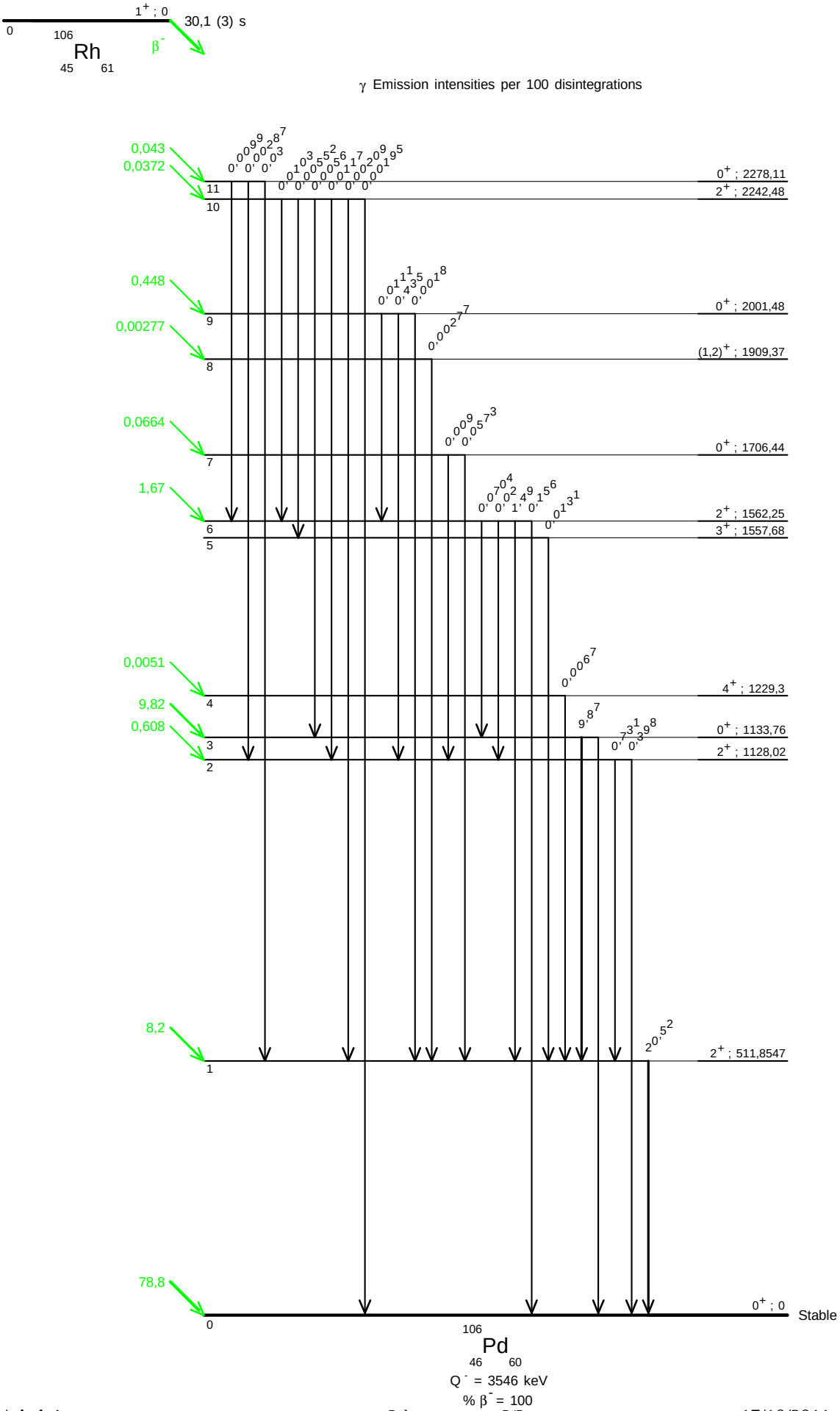

1+ ; 0
30,1 (3) s
0
106
Rh
45
61
β-
γ Emission intensities per 100 disintegrations
0,0000125
0,000025
0,00087
0,000082
0,000049
0,00021
0,000086
0,00402
0,0007
0,00278
0,0101
0,0022
0,00022
0,0183
0,0076
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
3401,9
3376,6
0+ ; 3320,5
3299,2
1,2+ ; 3273,5
2+ ; 3252
2+ ; 3249,9
0+ ; 3221,37
(1,2)+ ; 3163,7
0+ ; 3083,91
1+ ; 3054,97
1,2+ ; 3037,32
3 - ; 2968,68
2+ ; 2917,86
2+ ; 2902,48
1,67
6
5
0,0051
9,82
4
3
0,608
2
8,2
1
78,8
0
2+ ; 1562,25
3+ ; 1557,68
4+ ; 1229,3
0+ ; 1133,76
2+ ; 1128,02
2+ ; 511,8547
0+ ; 0
Stable
106
Pd
46
60
Q - = 3546 keV
% β- = 100



γ Emission intensities per 100 disintegrations




1+ ; 0
30,1 (3) s
0
106
Rh
45 61
β-
γ Emission intensities per 100 disintegrations
0,043
0,0372
0,448
0,00277
0,0664
1,67
0,0051
9,82
0,608
8,2
78,8
11
10
9
8
7
6
5
4
3
2
1
0
0+ ; 2278,11
2+ ; 2242,48
0+ ; 2001,48
(1,2)+ ; 1909,37
0+ ; 1706,44
2+ ; 1562,25
3+ ; 1557,68
4+ ; 1229,3
0+ ; 1133,76
2+ ; 1128,02
2+ ; 511,8547
0+ ; 0
Stable
106
Pd
46 60
Q - = 3546 keV
% β- = 100