
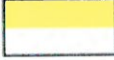

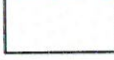


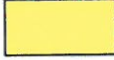


Sc 42 1.033m	Sc 43 3.891h	Sc 44 2.442d	Sc 45 100	Sc 46 83.79d	Sc 47 3.349d	Sc 48 1.82d	Sc 49 57.18m
Ca 41 1.02e+05y	Ca 42 0.647	Ca 43 0.135	Ca 44 2.086	Ca 45 162.6d	Ca 46 0.004	Ca 47 4.536d	
K 40 0.0117	K 41 6.7302	K 42 12.36h	K 43 22.3h	K 44 22.13m	K 45 17.81m		
Ar 39 269y	Ar 40 99.6003	Ar 41 1.827h			Ar 44 11.87m		
Cl 38 37.23m	Cl 39 55.6m						
S 37 5.05m	S 38 2.838h						

Chart of the Nuclides 2010



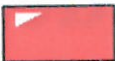









						V 47 32.0m	
					Ti 44 58.9y	Ti 45 3.08h	Ti 46 8.25
					Sc 43 3.891h	Sc 44 2.442d	Sc 45 100
			Ca 40 96.941	Ca 41 1.02e+05y	Ca 42 0.647	Ca 43 0.135	Ca 44 2.086
			K 39 93.2581	K 40 0.0117	K 41 6.7302	K 42 12.36h	K 43 22.3h
Ar 36 0.3365	Ar 37 35.04d	Ar 38 0.0632	Ar 39 269y	Ar 40 99.6003	Ar 41 1.827h	Ar 42 32.9y	

Half-life

	Half-life $> 5.0 \times 10^8$ y		Half-life not yet measured
	$30 \text{ d} < \text{Half-life} < 5.0 \times 10^8$ y		Nuclide not yet synthesized
	$10 \text{ m} < \text{Half-life} < 30 \text{ d}$		Isomer with longest half-life Small rectangle: GS half-life
	Half-life $< 10 \text{ m}$		

Note: For the nuclides which have not yet measured or not yet synthesized, estimated half-lives are shown.

Decay Mode

	$99.9\% < E+B$		$10\% < A < 90\%$ $10\% < SF < 90\%$
	$90\% < E+B < 99.9\%$ $0.1\% < A < 10\%$		$0.1\% < A < 10\%$ $90\% < SF < 99.9\%$
	$10\% < E+B < 90\%$ $10\% < A < 90\%$		$99.9\% < SF$
	$0.1\% < E+B < 10\%$ $90\% < A < 99.9\%$		$10\% < SF < 90\%$ $10\% < E+B+A < 90\%$
	$99.9\% < A$		$99.9\% < P$
	$90\% < A < 99.9\%$ $0.1\% < SF < 10\%$		$10\% < P < 90\%$ $10\% < E+B < 90\%$

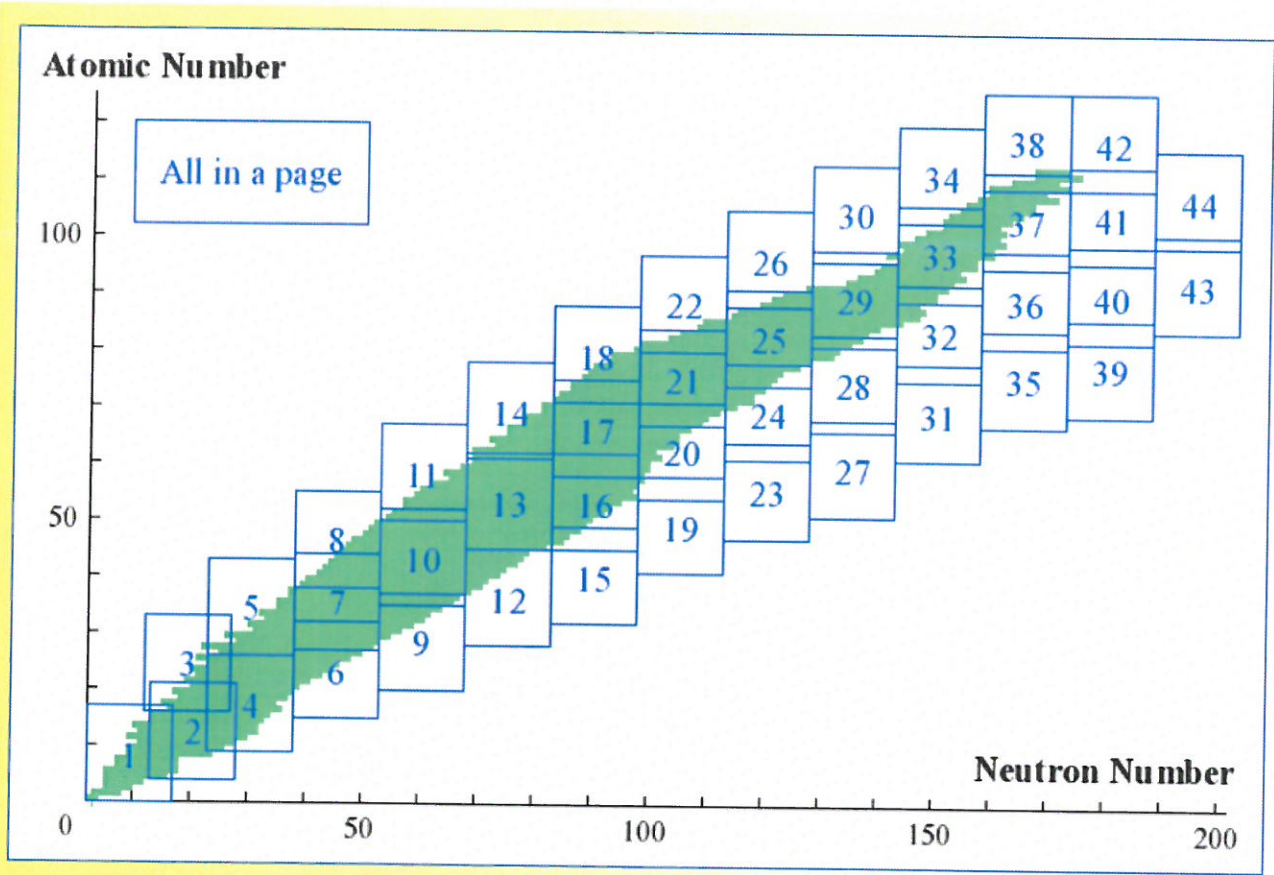


Chart of the Nuclides 2010 (No. 2)

20	Ca 34 0.0108s	Ca 35 0.05s	Ca 36 0.1s	Ca 37 0.175s	Ca 38 0.44s	Ca 39 0.8596s	Ca 40 96.941	Ca 41 1.02e+05y	Ca 42 0.647	Ca 43 0.135	Ca 44 2.086	Ca 45 162.6d
19	K 33 0.0386s	K 34 0.0702s	K 35 0.19s	K 36 0.342s	K 37 1.226s	K 38 7.636m	K 39 93.2581	K 40 0.0117	K 41 6.7302	K 42 12.36h	K 43 22.3h	K 44 22.13m
18	Ar 30 0.0104s	Ar 33 0.173s	Ar 34 0.8445s	Ar 35 1.775s	Ar 36 0.3365	Ar 37 35.04d	Ar 38 0.0632	Ar 39 2.69y	Ar 40 99.6003	Ar 41 1.827h	Ar 42 32.9y	Ar 43 5.37m
17	Cl 29 0.024s	Cl 32 0.298s	Cl 33 2.511s	Cl 34 3.2m	Cl 35 75.78	Cl 36 3.01e+05y	Cl 37 24.22	Cl 38 37.23m	Cl 39 55.6m	Cl 40 1.35m	Cl 41 38.4s	Cl 42 6.9s
16	S 27 0.021s	S 29 0.187s	S 32 94.93	S 33 0.76	S 34 4.29	S 35 87.51d	S 36 0.02	S 37 5.05m	S 38 2.838h	S 39 11.5s	S 40 8.8s	S 41 1.99s
15	P 26 0.0437s	P 28 0.2703s	P 30 2.498m	P 31 100	P 32 14.26d	P 33 25.34d	P 34 12.43s	P 35 47.3s	P 36 5.6s	P 37 2.31s	P 38 0.64s	P 39 0.28s
14	Si 25 0.22s	Si 26 2.234s	Si 29 4.6832	Si 30 3.0872	Si 31 2.622h	Si 32 1.53y	Si 33 6.18s	Si 34 2.77s	Si 35 0.78s	Si 36 0.45s	Si 37 0.09s	Si 38 0.102s
13	Al 24 2.053s	Al 25 7.183s	Al 28 2.241m	Al 29 6.56m	Al 30 3.6s	Al 31 0.644s	Al 32 0.033s	Al 33 0.0417s	Al 34 0.0563s	Al 35 0.15s	Al 36 0.09s	Al 37 0.0107s
12	Mg 23 11.32s	Mg 24 78.99	Mg 25 11.01	Mg 27 9.458m	Mg 28 20.92h	Mg 29 1.3s	Mg 30 0.335s	Mg 31 0.23s	Mg 32 0.086s	Mg 33 0.0905s	Mg 34 0.02s	Mg 35 0.07s
11	Na 22 2.603y	Na 23 100	Na 24 15h	Na 25 59.1s	Na 26 1.077s	Na 27 0.301s	Na 28 0.0305s	Na 29 0.0449s	Na 30 0.048s	Na 31 0.017s	Na 32 0.0132s	Na 33 0.008s
10	Ne 21 0.27	Ne 22 9.25	Ne 23 37.24s	Ne 24 3.38m	Ne 25 0.602s	Ne 26 0.197s	Ne 27 0.032s	Ne 28 0.019s	Ne 29 0.0148s	Ne 30 0.0073s	Ne 31 0.0034s	Ne 32 0.0035s
9	F 20 11.16s	F 21 4.158s	F 22 4.23s	F 23 2.23s	F 24 0.39s	F 25 0.05s	F 26 0.0096s	F 27 0.0052s	F 29 0.0024s			
8	O 19 26.88s	O 20 13.51s	O 21 3.42s	O 22 2.25s	O 23 0.097s	O 24 0.061s						
7	N 18 0.619s	N 19 0.271s	N 20 0.13s	N 21 0.095s	N 22 0.024s	N 23 0.0141s						
6	C 17 0.193s	C 18 0.092s	C 19 0.049s	C 20 0.014s	C 22 0.0061s							
5	B 17 0.00508s		B 19 0.00292s									
4					O 26 0.00535s							

Chart of the Nuclides 2010 (No. 7)

43		Tc 80 0.00465s	Tc 81 0.0063s	Tc 82 0.00715s	Tc 83 0.0106s	Tc 84 0.0108s	Tc 85 0.0731s	Tc 86 0.054s	Tc 87 2.18s	Tc 88 6.4s	Tc 89 12.9s	Tc 90 49.2s	Tc 91 3.3m	Tc 92 4.25m	Tc 93 2.75h
42	Mo 78 0.00571s	Mo 79 0.00656s	Mo 80 0.00916s	Mo 81 0.0106s	Mo 82 0.0229s	Mo 83 0.023s	Mo 84 0.0038s	Mo 85 3.2s	Mo 86 19.6s	Mo 87 13.4s	Mo 88 8m	Mo 89 2.11m	Mo 90 5.67h	Mo 91 15.49m	Mo 92 14.84
41	Nb 77 0.00754s	Nb 78 0.00854s	Nb 79 0.0126s	Nb 80 0.0124s	Nb 81 0.0932s	Nb 82 0.05s	Nb 83 4.1s	Nb 84 9.5s	Nb 85 20.9s	Nb 86 1.467m	Nb 87 3.75m	Nb 88 14.55m	Nb 89 2.03h	Nb 90 14.6h	Nb 91 680y
40	Zr 76 0.011s	Zr 77 0.013s	Zr 78 0.0272s	Zr 79 0.056s	Zr 80 4.6s	Zr 81 5.5s	Zr 82 32s	Zr 83 41.6s	Zr 84 25.9m	Zr 85 7.86m	Zr 86 16.5h	Zr 87 1.68h	Zr 88 83.4d	Zr 89 3.267d	Zr 90 51.4s
39	Y 75 0.0153s	Y 76 0.016s	Y 77 0.063s	Y 78 5.7s	Y 79 14.8s	Y 80 30.1s	Y 81 1.173m	Y 82 8.3s	Y 83 7.08m	Y 84 40m	Y 85 4.86h	Y 86 14.74h	Y 87 3.325d	Y 88 106.6d	Y 89 100
38	Sr 74 0.0355s	Sr 75 0.088s	Sr 76 8.9s	Sr 77 9s	Sr 78 2.5m	Sr 79 2.25m	Sr 80 1.772h	Sr 81 22.3m	Sr 82 25.55d	Sr 83 1.35d	Sr 84 0.56	Sr 85 64.84d	Sr 86 9.86	Sr 87 7	Sr 88 82.58
37	Rb 73 0.15s	Rb 74 0.06478s	Rb 75 19s	Rb 76 36.5s	Rb 77 3.77m	Rb 78 17.66m	Rb 79 22.9m	Rb 80 34s	Rb 81 4.572h	Rb 82 6.472h	Rb 83 86.2d	Rb 84 32.77d	Rb 85 72.17	Rb 86 18.63d	Rb 87 27.83
36	Kr 72 17.2s	Kr 73 27.3s	Kr 74 11.5m	Kr 75 4.29m	Kr 76 14.8h	Kr 77 1.24h	Kr 78 0.35	Kr 79 1.46d	Kr 80 2.28	Kr 81 2.29e+05y	Kr 82 11.58	Kr 83 11.49	Kr 84 57	Kr 85 10.76y	Kr 86 17.3
35	Br 71 21.4s	Br 72 1.31m	Br 73 3.4m	Br 74 46m	Br 75 1.612h	Br 76 16.2h	Br 77 2.376d	Br 78 6.46m	Br 79 50.69	Br 80 4.42h	Br 81 49.31	Br 82 1.47d	Br 83 2.4h	Br 84 31.8m	Br 85 2.9m
34	Se 70 41.1m	Se 71 4.74m	Se 72 8.4d	Se 73 7.15h	Se 74 0.89	Se 75 119.8d	Se 76 9.37	Se 77 7.63	Se 78 23.77	Se 79 2.95e+05y	Se 80 49.61	Se 81 57.28m	Se 82 8.73	Se 83 22.3m	Se 84 3.1m
33	As 69 15.23m	As 70 52.6m	As 71 2.72d	As 72 1.083d	As 73 80.3d	As 74 17.77d	As 75 100	As 76 1.093d	As 77 1.618d	As 78 1.512h	As 79 9.01m	As 80 15.2s	As 81 33.3s	As 82 19.1s	As 83 13.4s
32	Ge 68 271d	Ge 69 1.627d	Ge 70 20.84	Ge 71 11.43d	Ge 72 27.54	Ge 73 7.73	Ge 74 36.28	Ge 75 1.38h	Ge 76 7.61	Ge 77 11.3h	Ge 78 1.467h	Ge 79 39s	Ge 80 29.5s	Ge 81 7.6s	Ge 82 4.55s
31	Ga 67 3.262d	Ga 68 1.128h	Ga 69 60.108	Ga 70 21.14m	Ga 71 39.892	Ga 72 14.1h	Ga 73 4.86h	Ga 74 8.12m	Ga 75 2.1m	Ga 76 32.6s	Ga 77 13.2s	Ga 78 5.09s	Ga 79 2.847s	Ga 80 1.697s	Ga 81 1.217s
30	Zn 66 27.9	Zn 67 4.1	Zn 68 18.7s	Zn 69 13.76h	Zn 70 0.62	Zn 71 3.96h	Zn 72 1.938d	Zn 73 23.5s	Zn 74 1.593m	Zn 75 10.2s	Zn 76 5.7s	Zn 77 2.08s	Zn 78 1.47s	Zn 79 0.995s	Zn 80 0.545s
29	Cu 65 30.83	Cu 66 5.12m	Cu 67 2.576d	Cu 68 3.75m	Cu 69 2.85m	Cu 70 44.5s	Cu 71 19.5s	Cu 72 6.63s	Cu 73 4.2s	Cu 74 1.63s	Cu 75 1.224s	Cu 76 1.27s	Cu 77 0.469s	Cu 78 0.342s	Cu 79 0.188s
28	Ni 64 0.0256	Ni 65 2.517h	Ni 66 2.275d	Ni 67 21s	Ni 68 29s	Ni 69 11.4s	Ni 70 6s	Ni 71 2.56s	Ni 72 1.57s	Ni 73 0.84s	Ni 74 0.68s	Ni 75 0.344s	Ni 76 0.238s	Ni 77 0.128s	Ni 78 0.11s
27	Co 63 27.4s	Co 64 0.3s	Co 65 1.2s	Co 66 0.233s	Co 67 0.425s	Co 68 1.6s	Co 69 0.216s	Co 70 0.5s	Co 71 0.079s	Co 72 0.09s	Co 73 0.041s	Co 74 0.0367s	Co 75 0.0247s	Co 76 0.0175s	Co 77 0.0114s

Chart of the Nuclides 2010 (No. 10)

51	Sb102 0.0878s	Sb103 0.235s	Sb104 0.44s	Sb105 1.3s	Sb106 0.6s	Sb107 4s	Sb108 7.4s	Sb109 17s	Sb110 23s	Sb111 1.25m	Sb112 51.4s	Sb113 6.67m	Sb114 3.49m	Sb115 32.1m	Sb116 1.005h
50	Sn101 1.7s	Sn102 4.5s	Sn103 7s	Sn104 20.8s	Sn105 34s	Sn106 1.917m	Sn107 2.9m	Sn108 10.3m	Sn109 18m	Sn110 4.173h	Sn111 35.3m	Sn112 0.97	Sn113 115.1d	Sn114 0.66	Sn115 0.34
49	In100 6.1s	In101 16s	In102 22s	In103 1m	In104 1.8m	In105 5.07m	In106 6.2m	In107 32.4m	In108 58m	In109 4.167h	In110 4.9h	In111 2.805d	In112 20.56m	In113 4.29	In114 49.51d
48	Cd99 16s	Cd100 49.1s	Cd101 1.36m	Cd102 5.5m	Cd103 7.3m	Cd104 57.7m	Cd105 55.5m	Cd106 1.25	Cd107 6.5h	Cd108 0.89	Cd109 1.263y	Cd110 12.49	Cd111 12.8	Cd112 24.13	Cd113 12.22
47	Ag98 46.7s	Ag99 2.067m	Ag100 2.24m	Ag101 11.1m	Ag102 12.9m	Ag103 1.095h	Ag104 1.153h	Ag105 41.29d	Ag106 8.28d	Ag107 51.83o	Ag108 438y	Ag109 48.161	Ag110 249.8d	Ag111 7.45d	Ag112 3.13h
46	Pd97 3.1m	Pd98 17.7m	Pd99 21.4m	Pd100 3.63d	Pd101 8.47h	Pd102 1.02	Pd103 16.99d	Pd104 11.14	Pd105 22.33	Pd106 27.33	Pd107 6.5e+06y	Pd108 26.46	Pd109 13.7h	Pd110 11.72	Pd111 5.5h
45	Rh96 9.9m	Rh97 46.2m	Rh98 8.72m	Rh99 16.1d	Rh100 20.8h	Rh101 3.3y	Rh102 3.742y	Rh103 100	Rh104 4.34m	Rh105 1.473d	Rh106 2.183h	Rh107 21.7m	Rh108 6m	Rh109 1.333m	Rh110 28.5s
44	Ru95 1.643h	Ru96 5.54	Ru97 2.9d	Ru98 1.87	Ru99 12.76	Ru100 12.6	Ru101 17.06	Ru102 31.55	Ru103 39.26d	Ru104 18.62	Ru105 4.44h	Ru106 1.018y	Ru107 3.75m	Ru108 4.55m	Ru109 34.5s
43	Tc94 4.883h	Tc95 61d	Tc96 4.28d	Tc97 2.6e+06y	Tc98 4.2e+06y	Tc99 2.11e+05y	Tc100 15.46s	Tc101 14.2m	Tc102 4.35m	Tc103 54.2s	Tc104 18.3m	Tc105 7.6m	Tc106 35.6s	Tc107 21.2s	Tc108 5.17s
42	Mo93 4000y	Mo94 9.25	Mo95 15.92	Mo96 16.68	Mo97 9.55	Mo98 24.13	Mo99 2.747d	Mo100 9.63	Mo101 14.61m	Mo102 11.3m	Mo103 1.125m	Mo104 1m	Mo105 35.6s	Mo106 8.73s	Mo107 3.5s
41	Nb92 3.47e+07y	Nb93 100	Nb94 2.03e+04y	Nb95 34.99d	Nb96 23.35h	Nb97 1.202h	Nb98 51.3m	Nb99 2.6m	Nb100 2.99s	Nb101 7.1s	Nb102 4.3s	Nb103 1.5s	Nb104 4.8s	Nb105 2.95s	Nb106 0.93s
40	Zr91 11.22	Zr92 17.15	Zr93 1.53e+06y	Zr94 17.38	Zr95 64.03d	Zr96 2.8	Zr97 16.74h	Zr98 30.7s	Zr99 2.1s	Zr100 7.1s	Zr101 2.3s	Zr102 2.9s	Zr103 1.3s	Zr104 1.2s	Zr105 0.6s
39	Y90 2.667d	Y91 58.51d	Y92 3.54h	Y93 10.18h	Y94 18.7m	Y95 10.3m	Y96 9.6s	Y97 3.75s	Y98 2s	Y99 1.478s	Y100 0.94s	Y101 0.45s	Y102 0.36s	Y103 0.23s	Y104 0.18s
38	Sr89 50.53d	Sr90 28.79y	Sr91 9.63h	Sr92 2.71h	Sr93 7.423m	Sr94 1.255m	Sr95 23.9s	Sr96 1.07s	Sr97 0.426s	Sr98 0.653s	Sr99 0.269s	Sr100 0.202s	Sr101 0.118s	Sr102 0.069s	Sr103 0.0845s
37	Rb88 17.77m	Rb89 15.15m	Rb90 4.3m	Rb91 58.4s	Rb92 4.492s	Rb93 5.84s	Rb94 2.702s	Rb95 0.3775s	Rb96 0.2013s	Rb97 0.1699s	Rb98 0.114s	Rb99 0.0503s	Rb100 0.051s	Rb101 0.032s	Rb102 0.037s
36	Kr87 1.272h	Kr88 2.84h	Kr89 3.15m	Kr90 32.32s	Kr91 8.57s	Kr92 1.84s	Kr93 1.286s	Kr94 0.2s	Kr95 0.78s	Kr96 0.08s	Kr97 0.063s	Kr98 0.046s	Kr99 0.04s	Kr100 0.0316s	Kr101 0.0243s
35	Br86 55s	Br87 55.6s	Br88 16.5s	Br89 4.4s	Br90 1.92s	Br91 0.541s	Br92 0.343s	Br93 0.102s	Br94 0.07s	Br95 0.0635s	Br96 0.0492s	Br97 0.0323s	Br98 0.0236s	Br99 0.0151s	Br100 0.0115s

Chart of the Nuclides 2010 (No. 13)

61	Pm127 0.893s	Pm128 1s	Pm129 2.4s	Pm130 2.6s	Pm131 6.3s	Pm132 6.2s	Pm133 15s	Pm134 22s	Pm135 49s	Pm136 1.783m	Pm137 2.4m	Pm138 3.24m	Pm139 4.15m	Pm140 5.95m	Pm141 20.9m
60	Nd126 2.06s	Nd127 1.8s	Nd128 6.37s	Nd129 4.9s	Nd130 13s	Nd131 27s	Nd132 1.567m	Nd133 1.167m	Nd134 8.5m	Nd135 12.4m	Nd136 50.65m	Nd137 38.5m	Nd138 5.04h	Nd139 5.5h	Nd140 3.37d
59	Pr125 3.3s	Pr126 3.14s	Pr127 4.2s	Pr128 2.85s	Pr129 30s	Pr130 40s	Pr131 1.51m	Pr132 1.6m	Pr133 6.5m	Pr134 17m	Pr135 24m	Pr136 13.1m	Pr137 1.28h	Pr138 2.12h	Pr139 4.41h
58	Ce124 6s	Ce125 10.2s	Ce126 51s	Ce127 34s	Ce128 3.93m	Ce129 3.5m	Ce130 22.9m	Ce131 10.3m	Ce132 3.51h	Ce133 4.9h	Ce134 3.16d	Ce135 17.7h	Ce136 0.185	Ce137 1.433d	Ce138 0.251
57	La123 17s	La124 29.21s	La125 1.08m	La126 54s	La127 5.1m	La128 5.23m	La129 11.6m	La130 8.7m	La131 59m	La132 4.8h	La133 3.912h	La134 6.45m	La135 19.5h	La136 9.87m	La137 6e+04y
56	Ba122 1.95m	Ba123 2.7m	Ba124 11m	Ba125 3.5m	Ba126 1.667h	Ba127 12.7m	Ba128 2.43d	Ba129 2.23h	Ba130 0.106	Ba131 11.5d	Ba132 0.101	Ba133 10.52y	Ba134 2.417	Ba135 6.592	Ba136 7.85d
55	Cs121 2.583m	Cs122 3.7m	Cs123 5.88m	Cs124 30.8s	Cs125 46.7m	Cs126 1.64m	Cs127 6.25h	Cs128 3.62m	Cs129 1.336d	Cs130 29.21m	Cs131 9.689d	Cs132 6.48d	Cs133 100	Cs134 2.065y	Cs135 2.3e+06y
54	Xe120 46m	Xe121 40.1m	Xe122 20.1h	Xe123 2.08h	Xe124 0.09	Xe125 16.9h	Xe126 0.09	Xe127 36.4d	Xe128 1.92	Xe129 26.4d	Xe130 4.08	Xe131 21.18	Xe132 26.89	Xe133 5.243d	Xe134 10.4d
53	I119 19.1m	I120 1.36h	I121 2.12h	I122 3.63m	I123 13.22h	I124 4.176d	I125 59.4d	I126 12.93d	I127 100	I128 24.99m	I129 1.57e+07y	I130 12.36h	I131 8.025d	I132 2.295h	I133 20.8h
52	Te118 6d	Te119 4.7d	Te120 0.09	Te121 154d	Te122 2.55	Te123 0.89	Te124 4.7d	Te125 7.07	Te126 18.8d	Te127 109d	Te128 31.7d	Te129 33.6d	Te130 34.08	Te131 1.385d	Te132 3.204d
51	Sb117 2.8h	Sb118 5h	Sb119 1.591d	Sb120 5.76d	Sb121 57.21	Sb122 2.724d	Sb123 42.79	Sb124 60.2d	Sb125 2.759y	Sb126 12.35d	Sb127 3.85d	Sb128 9.01h	Sb129 4.4h	Sb130 39.5m	Sb131 23.03m
50	Sn116 14.5d	Sn117 7.68	Sn118 24.22	Sn119 8.59	Sn120 32.58	Sn121 43.9y	Sn122 4.63	Sn123 129.2d	Sn124 5.79	Sn125 9.64d	Sn126 2.3e+05y	Sn127 2.1h	Sn128 59.07m	Sn129 6.9m	Sn130 3.72m
49	In115 95.71	In116 54.41m	In117 1.937h	In118 4.45m	In119 18m	In120 47.3s	In121 3.88m	In122 10.8s	In123 47.4s	In124 3.7s	In125 12.2s	In126 1.64s	In127 3.67s	In128 0.84s	In129 1.23s
48	Cd114 28.73	Cd115 44.56d	Cd116 7.49	Cd117 3.36h	Cd118 50.3m	Cd119 2.69m	Cd120 50.8s	Cd121 13.5s	Cd122 5.24s	Cd123 2.1s	Cd124 1.25h	Cd125 0.65s	Cd126 0.515s	Cd127 0.43s	Cd128 0.34s
47	Ag113 5.37h	Ag114 4.6s	Ag115 20m	Ag116 2.68m	Ag117 1.213m	Ag118 3.76s	Ag119 6s	Ag120 1.23s	Ag121 0.78s	Ag122 0.529s	Ag123 0.296s	Ag124 0.172s	Ag125 0.166s	Ag126 0.107s	Ag127 0.109s
46	Pd112 21.03h	Pd113 1.55m	Pd114 2.42m	Pd115 50s	Pd116 11.8s	Pd117 4.3s	Pd118 1.9s	Pd119 0.92s	Pd120 0.5s	Pd121 1.44s	Pd122 0.519s	Pd123 0.23s	Pd124 0.0993s	Pd125 0.0861s	Pd126 0.0646s
45	Rh111 11s	Rh112 6.8s	Rh113 2.8s	Rh114 1.85s	Rh115 0.99s	Rh116 0.68s	Rh117 0.44s	Rh118 0.266s	Rh119 0.467s	Rh120 0.202s	Rh121 0.101s	Rh122 0.0678s	Rh123 0.0517s	Rh124 0.0451s	Rh125 0.035s

Chart of the Nuclides 2010 (No. 16)

61	Pm142 40.5s	Pm144 3.63d	Pm145 17.7y	Pm146 5.53y	Pm147 2.623y	Pm148 41.29d	Pm149 2.212d	Pm150 2.68h	Pm151 1.183d	Pm152 13.8m	Pm153 5.25m	Pm154 2.68m	Pm155 41.5s	Pm156 26.7s
60	Nd141 2.49h	Nd143 12.2	Nd144 23.8	Nd145 8.3	Nd146 17.2	Nd147 10.98d	Nd148 5.7	Nd149 1.728h	Nd150 5.6	Nd151 12.44m	Nd152 11.4m	Nd153 31.6s	Nd154 25.9s	Nd155 8.9s
59	Pr140 3.39m	Pr142 19.12h	Pr143 13.57d	Pr144 17.28m	Pr145 5.984h	Pr146 24.15m	Pr147 13.4m	Pr148 2.29m	Pr149 2.20m	Pr150 6.19s	Pr151 18.9s	Pr152 3.63s	Pr153 4.28s	Pr154 2.3s
58	Ce139 137.6d	Ce140 88.4s	Ce141 32.51d	Ce143 1.377d	Ce144 284.9d	Ce145 3.01m	Ce146 13.52m	Ce147 56.4s	Ce148 56s	Ce149 5.3s	Ce150 4s	Ce151 1.76s	Ce152 1.4s	Ce153 2.36s
57	La138 0.09	La139 99.91	La140 1.679d	La142 1.518h	La143 14.2m	La144 40.8s	La145 24.8s	La146 10s	La147 4.015s	La148 1.26s	La149 1.05s	La150 0.51s	La151 0.982s	La152 0.39s
56	Ba137 11.232	Ba138 71.698	Ba139 1.384h	Ba141 18.27m	Ba142 10.6m	Ba143 14.5s	Ba144 11.5s	Ba145 4.31s	Ba146 2.22s	Ba147 0.893s	Ba148 0.612s	Ba149 0.344s	Ba150 0.3s	Ba151 0.179s
55	Cs136 13.16d	Cs137 30.08y	Cs138 33.41m	Cs140 1.062m	Cs141 24.84s	Cs142 1.684s	Cs143 1.791s	Cs144 0.994s	Cs145 0.587s	Cs146 0.321s	Cs147 0.235s	Cs148 0.146s	Cs149 0.0942s	Cs150 0.085s
54	Xe135 9.14h	Xe136 3.818m	Xe137 3.818m	Xe138 14.08m	Xe140 13.6s	Xe141 1.73s	Xe142 1.22s	Xe143 0.3s	Xe144 0.388s	Xe145 0.188s	Xe146 0.146s	Xe147 0.1s	Xe148 0.0588s	Xe149 0.0573s
53	I134 52.5m	I135 6.58h	I136 1.39m	I138 6.41s	I139 2.28s	I140 0.86s	I141 0.43s	I142 0.2s	I143 0.107s	I144 0.084s	I145 0.0564s	I146 0.0464s	I147 0.0313s	I148 0.0297s
52	Te133 55.4m	Te134 41.8m	Te135 19s	Te137 2.49s	Te138 1.4s	Te139 0.311s	Te140 0.149s	Te141 0.115s	Te142 0.075s	Te143 0.0638s	Te144 0.0436s	Te145 0.0379s	Te146 0.0261s	Te147 0.0217s
51	Sb132 4.1m	Sb133 2.5m	Sb134 10.07s	Sb136 0.923s	Sb137 0.169s	Sb138 0.126s	Sb139 0.0887s	Sb140 0.0702s	Sb141 0.0478s	Sb142 0.0399s	Sb143 0.0274s	Sb144 0.0217s	Sb145 0.0148s	Sb146 0.013s
50	Sn131 58.4s	Sn132 39.7s	Sn133 1.45s	Sn135 0.53s	Sn136 0.25s	Sn137 0.19s	Sn138 0.0669s	Sn139 0.0584s	Sn140 0.0416s	Sn141 0.0329s	Sn142 0.0208s	Sn143 0.0177s	Sn144 0.013s	Sn145 0.0122s
49	In130 0.542s	In131 0.35s	In132 0.207s	In134 0.14s	In135 0.092s	In136 0.0162s	In137 0.0122s	In138 0.0104s	In139 0.00739s	In140 0.00638s	In141 0.00517s	In142 0.00502s	In143 0.00412s	In144 0.00396s
48	Cd129 0.27s	Cd130 0.162s	Cd131 0.068s	Cd133 0.0184s	Cd134 0.0143s	Cd135 0.0128s	Cd136 0.00925s	Cd137 0.00811s	Cd138 0.00617s	Cd139 0.00592s	Cd140 0.00472s	Cd141 0.00456s	Cd142 0.00363s	Cd143 0.00349s
47	Ag128 0.058s	Ag129 0.044s	Ag130 0.05s	Ag132 0.0114s	Ag133 0.00865s	Ag134 0.0076s	Ag135 0.00578s	Ag136 0.00553s	Ag137 0.00443s	Ag138 0.00442s	Ag139 0.00351s	Ag140 0.00337s	Ag141 0.00272s	Ag142 0.00275s
46	Pd127 0.0625s	Pd128 0.0449s	Pd129 0.0127s	Pd131 0.0089s	Pd132 0.00663s	Pd133 0.00617s	Pd134 0.00472s	Pd135 0.00476s	Pd136 0.00363s	Pd137 0.00367s	Pd138 0.00284s	Pd139 0.00283s	Pd140 0.00234s	Pd141 0.00239s
45	Rh126 0.0328s	Rh127 0.0245s	Rh128 0.00783s	Rh130 0.00581s	Rh131 0.00445s	Rh132 0.00424s	Rh133 0.00331s	Rh134 0.00327s	Rh135 0.00247s	Rh136 0.00256s	Rh137 0.002s	Rh138 0.00206s	Rh139 0.0016s	Rh140 0.00166s

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74	W 155 0.0961s	W 156 0.707s	W 157 0.868s	W 158 0.00125s	W 159 0.0082s	W 160 0.091s	W 161 0.41s	W 162 1.36s	W 163 2.8s	W 164 6s	W 165 5.1s	W 166 19.2s	W 167 19.9s	W 168 53s	W 169 1.233m
73	Ta154 0.142s	Ta155 1.2e-05s	Ta156 0.36s	Ta157 0.0101s	Ta158 0.055s	Ta159 0.83s	Ta160 1.7s	Ta161 2.89s	Ta162 3.57s	Ta163 10.6s	Ta164 14.2s	Ta165 31s	Ta166 34.4s	Ta167 1.333m	Ta168 2m
72	Hf153 0.246s	Hf154 2s	Hf155 0.89s	Hf156 0.023s	Hf157 0.11s	Hf158 2.85s	Hf159 5.2s	Hf160 13.6s	Hf161 18.2s	Hf162 39.4s	Hf163 40s	Hf164 1.85m	Hf165 1.267m	Hf166 6.77m	Hf167 2.05m
71	Lu152 0.7s	Lu153 0.9s	Lu154 1.12s	Lu155 0.138s	Lu156 0.494s	Lu157 6.8s	Lu158 10.4s	Lu159 12.1s	Lu160 40s	Lu161 1.283m	Lu162 1.9m	Lu163 3.97m	Lu164 3.14m	Lu165 1.2m	Lu166 2.65m
70	Yb151 1.6s	Yb152 3.04s	Yb153 4.2s	Yb154 0.409s	Yb155 1.793s	Yb156 26s	Yb157 38.6s	Yb158 1.49m	Yb159 1.67m	Yb160 4.8m	Yb161 4.2m	Yb162 18.87m	Yb163 11.05m	Yb164 1.263h	Yb165 9.9m
69	Tm150 2.2s	Tm151 6.6s	Tm152 8s	Tm153 2.5s	Tm154 8.1s	Tm155 45s	Tm156 1.397m	Tm157 3.63m	Tm158 3.98m	Tm159 9.13m	Tm160 9.4m	Tm161 30.2m	Tm162 21.7m	Tm163 1.81h	Tm164 5.1m
68	Er149 8.9s	Er150 18.5s	Er151 23.5s	Er152 10.3s	Er153 37.1s	Er154 3.7m	Er155 5.3m	Er156 19.5m	Er157 18.65m	Er158 2.29h	Er159 3.6m	Er160 1.191d	Er161 3.21h	Er162 0.14	Er163 1.25h
67	Ho148 9.59s	Ho149 56s	Ho150 1.2m	Ho151 47.2s	Ho152 2.697m	Ho153 9.3m	Ho154 11.76m	Ho155 48m	Ho156 56m	Ho157 12.6m	Ho158 28m	Ho159 33.05m	Ho160 5.02h	Ho161 2.48h	Ho162 1.117h
66	Dy147 55s	Dy148 3.3m	Dy149 4.2m	Dy150 7.17m	Dy151 17.9m	Dy152 2.38h	Dy153 6.4h	Dy154 3e+06y	Dy155 9.9h	Dy156 0.06	Dy157 8.14h	Dy158 0.1	Dy159 144.4d	Dy160 2.34	Dy161 18.91
65	Tb146 23s	Tb147 1.7h	Tb148 1h	Tb149 4.118h	Tb150 3.48h	Tb151 17.61h	Tb152 17.5h	Tb153 2.34d	Tb154 22.7h	Tb155 5.32d	Tb156 5.35d	Tb157 71y	Tb158 180y	Tb159 100	Tb160 72.3d
64	Gd145 23m	Gd146 48.27d	Gd147 1.587d	Gd148 74.6y	Gd149 9.28d	Gd150 1.79e+06y	Gd151 1.24d	Gd152 0.2	Gd153 240.4d	Gd154 2.18	Gd155 14.8	Gd156 20.47	Gd157 15.65	Gd158 24.84	Gd159 18.48h
63	Eu144 10.2s	Eu145 5.93d	Eu146 4.59d	Eu147 24.1d	Eu148 54.5d	Eu149 93.1d	Eu150 36.9y	Eu151 47.81	Eu152 13.54y	Eu153 52.19	Eu154 8.593y	Eu155 4.753y	Eu156 15.19d	Eu157 15.18h	Eu158 45.9m
62	Sm143 8.75m	Sm144 3.07	Sm145 3.40d	Sm146 1.03e+08y	Sm147 14.99	Sm148 11.24	Sm149 13.82	Sm150 7.38	Sm151 90y	Sm152 26.75	Sm153 1.928d	Sm154 22.75	Sm155 22.3m	Sm156 9.4h	Sm157 8.033m
61	Pm142 40.5s	Pm143 265d	Pm144 3.63d	Pm145 17.7y	Pm146 5.53y	Pm147 2.623y	Pm148 41.29d	Pm149 2.212d	Pm150 2.68h	Pm151 1.183d	Pm152 13.8m	Pm153 5.25m	Pm154 2.68m	Pm155 41.5s	Pm156 26.7s
60	Nd141 2.49h	Nd142 27.2	Nd143 12.2	Nd144 23.8	Nd145 8.3	Nd146 17.2	Nd147 10.98d	Nd148 5.7	Nd149 1.728h	Nd150 5.6	Nd151 12.44m	Nd152 11.4m	Nd153 31.6s	Nd154 25.9s	Nd155 8.9s
59	Pr140 3.39m	Pr141 100	Pr142 19.12h	Pr143 13.57d	Pr144 17.28m	Pr145 5.984h	Pr146 24.15m	Pr147 13.4m	Pr148 2.29m	Pr149 2.26m	Pr150 6.19s	Pr151 18.9s	Pr152 3.63s	Pr153 4.28s	Pr154 2.3s
58	Ce139 137.6d	Ce140 88.45	Ce141 32.51d	Ce142 11.114	Ce143 1.377d	Ce144 284.9d	Ce145 3.01m	Ce146 13.52m	Ce147 56.4s	Ce148 56s	Ce149 5.3s	Ce150 4s	Ce151 1.76s	Ce152 1.4s	Ce153 2.36s

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70	Yb160 2.362d	Yb167 17.5m	Yb168 0.13	Yb169 32.02d	Yb170 3.04	Yb171 14.28	Yb172 21.83	Yb173 16.13	Yb174 31.83	Yb175 4.185d	Yb176 12.76	Yb177 1.911h	Yb178 1.233h	Yb179 8m	Yb180 2.4m
69	Tm165 1.253d	Tm166 7.7h	Tm167 9.25d	Tm168 95.1d	Tm169 100	Tm170 128.6d	Tm171 1.92y	Tm172 2.65d	Tm173 8.24h	Tm174 5.4m	Tm175 15.2m	Tm176 1.9m	Tm177 1.5m	Tm178 6.95s	Tm179 6.31s
68	Er164 1.61	Er165 10.36h	Er166 33.61	Er167 22.93	Er168 26.78	Er169 9.392d	Er170 14.91	Er171 7.516h	Er172 2.054d	Er173 1.4m	Er174 3.2m	Er175 1.2m	Er176 20.4s	Er177 6.8s	Er178 4.42s
67	Ho163 4570y	Ho164 37.5m	Ho165 100	Ho166 1200y	Ho167 3.1h	Ho168 2.99m	Ho169 4.72m	Ho170 2.76m	Ho171 53s	Ho172 25s	Ho173 11.1s	Ho174 3.42s	Ho175 3.04s	Ho176 1.25s	Ho177 1.08s
66	Dy162 25.51	Dy163 24.9	Dy164 28.18	Dy165 2.334h	Dy166 3.4d	Dy167 6.2m	Dy168 8.7m	Dy169 39s	Dy170 41.2s	Dy171 12.4s	Dy172 8.11s	Dy173 3.23s	Dy174 2s	Dy175 1.02s	Dy176 0.705s
65	Tb161 6.906d	Tb162 7.6m	Tb163 19.5m	Tb164 3m	Tb165 2.11m	Tb166 25.1s	Tb167 19.4s	Tb168 8.2s	Tb169 4.43s	Tb170 2s	Tb171 1.53s	Tb172 0.69s	Tb173 0.531s	Tb174 0.301s	Tb175 0.233s
64	Gd160 21.86	Gd161 3.66m	Gd162 8.4m	Gd163 1.133m	Gd164 45s	Gd165 10.3s	Gd166 4.8s	Gd167 4.58s	Gd168 3.46s	Gd169 1.54s	Gd170 0.966s	Gd171 0.512s	Gd172 0.35s	Gd173 0.235s	Gd174 0.177s
63	Eu159 18.1m	Eu160 38s	Eu161 26s	Eu162 10.6s	Eu163 10.8s	Eu164 3.03s	Eu165 2.76s	Eu166 1.02s	Eu167 0.773s	Eu168 0.365s	Eu169 0.264s	Eu170 0.163s	Eu171 0.135s	Eu172 0.0964s	Eu173 0.0774s
62	Sm158 5.3m	Sm159 11.37s	Sm160 9.6s	Sm161 4.8s	Sm162 2.4s	Sm163 3.07s	Sm164 1.64s	Sm165 0.66s	Sm166 0.456s	Sm167 0.269s	Sm168 0.196s	Sm169 0.134s	Sm170 0.106s	Sm171 0.0797s	Sm172 0.0646s
61	Pm157 10.56s	Pm158 4.8s	Pm159 1.47s	Pm160 2.55s	Pm161 1.33s	Pm162 0.567s	Pm163 0.32s	Pm164 0.192s	Pm165 0.152s	Pm166 0.0986s	Pm167 0.0815s	Pm168 0.0605s	Pm169 0.0489s	Pm170 0.0383s	Pm171 0.0339s
60	Nd156 5.49s	Nd157 5.43s	Nd158 2.72s	Nd159 1.42s	Nd160 0.503s	Nd161 0.306s	Nd162 0.204s	Nd163 0.147s	Nd164 0.108s	Nd165 0.084s	Nd166 0.0655s	Nd167 0.0513s	Nd168 0.0409s	Nd169 0.0331s	Nd170 0.0286s
59	Pr155 2.59s	Pr156 1.22s	Pr157 0.554s	Pr158 0.292s	Pr159 0.175s	Pr160 0.142s	Pr161 0.0879s	Pr162 0.0642s	Pr163 0.0531s	Pr164 0.0404s	Pr165 0.0328s	Pr166 0.0256s	Pr167 0.0218s	Pr168 0.0178s	Pr169 0.0161s
58	Ce154 0.974s	Ce155 0.445s	Ce156 0.226s	Ce157 0.175s	Ce158 0.112s	Ce159 0.0923s	Ce160 0.064s	Ce161 0.0531s	Ce162 0.0439s	Ce163 0.0333s	Ce164 0.0278s	Ce165 0.0221s	Ce166 0.0185s	Ce167 0.0153s	Ce168 0.0136s
57	La153 0.206s	La154 0.137s	La155 0.104s	La156 0.0769s	La157 0.0592s	La158 0.0482s	La159 0.0355s	La160 0.0306s	La161 0.0217s	La162 0.0173s	La163 0.0146s	La164 0.0119s	La165 0.0101s	La166 0.0086s	La167 0.00758s
56	Ba152 0.123s	Ba153 0.097s	Ba154 0.0676s	Ba155 0.0547s	Ba156 0.0403s	Ba157 0.0347s	Ba158 0.0253s	Ba159 0.0227s	Ba160 0.0165s	Ba161 0.0151s	Ba162 0.0126s	Ba163 0.0105s	Ba164 0.00873s	Ba165 0.00756s	Ba166 0.00649s
55	Cs151 0.0562s	Cs152 0.0506s	Cs153 0.0344s	Cs154 0.0307s	Cs155 0.0228s	Cs156 0.0205s	Cs157 0.015s	Cs158 0.0139s	Cs159 0.0105s	Cs160 0.00978s	Cs161 0.00729s	Cs162 0.00613s	Cs163 0.00529s	Cs164 0.00456s	Cs165 0.00393s
54	Xe150 0.0367s	Xe151 0.0353s	Xe152 0.0236s	Xe153 0.0223s	Xe154 0.0159s	Xe155 0.0147s	Xe156 0.011s	Xe157 0.0105s	Xe158 0.00787s	Xe159 0.00742s	Xe160 0.00568s	Xe161 0.00526s	Xe162 0.00454s	Xe163 0.00385s	Xe164 0.0033s

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83	Bi179 2.51e-06s	Bi180 4.18e-05s	Bi181 3.71e-05s	Bi182 0.000539s	Bi183 0.000352s	Bi184 0.013s	Bi185 5.8e-05s	Bi186 0.0148s	Bi187 0.032s	Bi188 0.265s	Bi189 0.674s	Bi190 6.3s	Bi191 12.3s	Bi192 39.6s	Bi193 1.117m
82	Pb178 0.00023s	Pb179 1.12s	Pb180 0.0044s	Pb181 0.045s	Pb182 0.055s	Pb183 0.535s	Pb184 0.49s	Pb185 6.3s	Pb186 4.83s	Pb187 18.3s	Pb188 25.1s	Pb189 51s	Pb190 1.183m	Pb191 2.18m	Pb192 3.5m
81	Tl177 0.018s	Tl178 0.254s	Tl179 0.23s	Tl180 1.5s	Tl181 3.2s	Tl182 3.1s	Tl183 6.9s	Tl184 11s	Tl185 19.5s	Tl186 27.5s	Tl187 51s	Tl188 1.183m	Tl189 2.3m	Tl190 3.7m	Tl191 5.22m
80	Hg176 0.018s	Hg177 0.1273s	Hg178 0.266s	Hg179 1.05s	Hg180 2.58s	Hg181 3.6s	Hg182 10.83s	Hg183 10.7s	Hg184 30.75s	Hg185 49.1s	Hg186 1.38m	Hg187 2.4m	Hg188 3.25m	Hg189 8.6m	Hg190 20m
79	Au175 0.16s	Au176 1.08s	Au177 1.462s	Au178 2.6s	Au179 7.1s	Au180 8.1s	Au181 13.7s	Au182 15.6s	Au183 42s	Au184 53s	Au185 6.8m	Au186 10.7m	Au187 8.4m	Au188 8.84m	Au189 28.7m
78	Pt174 0.876s	Pt175 2.54s	Pt176 6.3s	Pt177 11s	Pt178 21.1s	Pt179 21.1s	Pt180 56s	Pt181 52s	Pt182 2.6m	Pt183 6.5m	Pt184 17.3m	Pt185 1.182h	Pt186 2.08h	Pt187 2.35h	Pt188 10.2d
77	Ir173 9s	Ir174 7.9s	Ir175 9s	Ir176 8.3s	Ir177 30s	Ir178 12s	Ir179 1.317m	Ir180 1.5m	Ir181 4.9m	Ir182 1.5m	Ir183 58m	Ir184 3.09h	Ir185 14.4h	Ir186 16.64h	Ir187 10.5h
76	Os172 19.2s	Os173 22.4s	Os174 44s	Os175 1.4m	Os176 3.6m	Os177 3m	Os178 5m	Os179 6.5m	Os180 21.5m	Os181 1.75h	Os182 22.1h	Os183 13h	Os184 0.02	Os185 93.6d	Os186 1.5y
75	Re171 15.2s	Re172 55s	Re173 1.98m	Re174 2.4m	Re175 5.89m	Re176 5.3m	Re177 14m	Re178 13.2m	Re179 19.7m	Re180 2.44m	Re181 19.9h	Re182 2.667d	Re183 70d	Re184 169d	Re185 37.4
74	W170 2.42m	W171 2.38m	W172 6.6m	W173 7.5m	W174 33.2m	W175 35.2m	W176 2.5h	W177 2.2h	W178 21.6d	W179 37.05m	W180 0.12	W181 121.2d	W182 26.5	W183 14.31	W184 30.6d
73	Ta169 4.9m	Ta170 6.76m	Ta171 23.3m	Ta172 36.8m	Ta173 3.14h	Ta174 1.14h	Ta175 10.5h	Ta176 8.09h	Ta177 2.357d	Ta178 2.36h	Ta179 1.82y	Ta180 0.012	Ta181 99.988	Ta182 114.4d	Ta183 5.1d
72	Hf168 25.95m	Hf169 3.24m	Hf170 16.01h	Hf171 12.1h	Hf172 1.87y	Hf173 23.6h	Hf174 0.16	Hf175 70d	Hf176 5.26	Hf177 18.6	Hf178 27.28	Hf179 13.62	Hf180 35.08	Hf181 42.39d	Hf182 8.9e+06y
71	Lu167 51.5m	Lu168 6.7m	Lu169 1.419d	Lu170 2.012d	Lu171 8.24d	Lu172 6.7d	Lu173 1.37y	Lu174 3.31y	Lu175 97.41	Lu176 3.5y	Lu177 160.4d	Lu178 28.4m	Lu179 4.59h	Lu180 5.7m	Lu181 3.5m
70	Yb166 2.362d	Yb167 17.5m	Yb168 0.13	Yb169 32.02d	Yb170 3.04	Yb171 14.28	Yb172 21.83	Yb173 16.13	Yb174 31.83	Yb175 4.185d	Yb176 12.76	Yb177 1.911h	Yb178 1.233h	Yb179 8m	Yb180 2.4m
69	Tm165 1.253d	Tm166 7.7h	Tm167 9.25d	Tm168 93.1d	Tm169 100	Tm170 128.6d	Tm171 1.92y	Tm172 2.65d	Tm173 8.24h	Tm174 5.4m	Tm175 15.2m	Tm176 1.9m	Tm177 1.5m	Tm178 6.95s	Tm179 6.31s
68	Er164 1.61	Er165 10.36h	Er166 33.61	Er167 22.93	Er168 26.78	Er169 9.392d	Er170 14.93	Er171 7.516h	Er172 2.054d	Er173 1.4m	Er174 3.2m	Er175 1.2m	Er176 20.4s	Er177 6.8s	Er178 4.42s
67	Ho163 4570y	Ho164 37.5m	Ho165 100	Ho166 1200y	Ho167 3.1h	Ho168 2.99m	Ho169 4.72m	Ho170 2.76m	Ho171 53s	Ho172 25s	Ho173 11.1s	Ho174 3.42s	Ho175 3.04s	Ho176 1.25s	Ho177 1.08s

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77	Ir188 1.729d	Ir189 13.2d	Ir190 11.78d	Ir191 37.3	Ir192 241y	Ir193 62.7	Ir194 171d	Ir195 3.8h	Ir196 1.4h	Ir197 8.9m	Ir198 8s	Ir199 3.62m	Ir200 24.7s	Ir201 45s	Ir202 9.92s
76	Os187 1.96	Os188 13.24	Os189 16.15	Os190 26.26	Os191 15.4d	Os192 40.78	Os193 1.255d	Os194 6y	Os195 6.5m	Os196 34.9m	Os197 1.27m	Os198 2.8m	Os199 35.1s	Os200 38s	Os201 10.6s
75	Re186 2e+105y	Re187 62.6	Re188 17h	Re189 1.013d	Re190 3.2h	Re191 9.8m	Re192 16s	Re193 1.57m	Re194 14.8s	Re195 19.5s	Re196 5.47s	Re197 11.4s	Re198 3.79s	Re199 3.73s	Re200 1.42s
74	W185 75.1d	W186 28.43	W187 23.72h	W188 69.78d	W189 10.7m	W190 30m	W191 1.55m	W192 1.02m	W193 16.1s	W194 13.4s	W195 5.86s	W196 7.98s	W197 3.55s	W198 2.26s	W199 1.3s
73	Ta184 8.7h	Ta185 49.4m	Ta186 10.5m	Ta187 2.64m	Ta188 15.6s	Ta189 24.6s	Ta190 6.04s	Ta191 6.12s	Ta192 2.36s	Ta193 2.55s	Ta194 1.21s	Ta195 1.51s	Ta196 0.758s	Ta197 0.597s	Ta198 0.401s
72	Hf183 1.018h	Hf184 4.12h	Hf185 3.5m	Hf186 2.6m	Hf187 17.7s	Hf188 16.5s	Hf189 6.42s	Hf190 4.98s	Hf191 2.19s	Hf192 1.76s	Hf193 1.01s	Hf194 1.05s	Hf195 0.657s	Hf196 0.471s	Hf197 0.351s
71	Lu182 2m	Lu183 58s	Lu184 20s	Lu185 5.56s	Lu186 2.39s	Lu187 2.76s	Lu188 1.18s	Lu189 1.16s	Lu190 0.524s	Lu191 0.467s	Lu192 0.338s	Lu193 0.358s	Lu194 0.235s	Lu195 0.186s	Lu196 0.14s
70	Yb181 19.6s	Yb182 10.9s	Yb183 4.32s	Yb184 3.88s	Yb185 2.19s	Yb186 1.88s	Yb187 0.876s	Yb188 0.803s	Yb189 0.425s	Yb190 0.384s	Yb191 0.338s	Yb192 0.288s	Yb193 0.208s	Yb194 0.151s	Yb195 0.121s
69	Tm180 2.36s	Tm181 1.98s	Tm182 0.992s	Tm183 0.933s	Tm184 0.522s	Tm185 0.489s	Tm186 0.279s	Tm187 0.261s	Tm188 0.166s	Tm189 0.175s	Tm190 0.148s	Tm191 0.123s	Tm192 0.0909s	Tm193 0.0704s	Tm194 0.0571s
68	Er179 2.2s	Er180 1.56s	Er181 0.869s	Er182 0.625s	Er183 0.432s	Er184 0.375s	Er185 0.263s	Er186 0.242s	Er187 0.183s	Er188 0.161s	Er189 0.131s	Er190 0.102s	Er191 0.0797s	Er192 0.0596s	Er193 0.0502s
67	Ho178 0.548s	Ho179 0.44s	Ho180 0.271s	Ho181 0.227s	Ho182 0.169s	Ho183 0.156s	Ho184 0.12s	Ho185 0.11s	Ho186 0.0806s	Ho187 0.0743s	Ho188 0.0618s	Ho189 0.05s	Ho190 0.0399s	Ho191 0.0318s	Ho192 0.0265s
66	Dy177 0.414s	Dy178 0.321s	Dy179 0.232s	Dy180 0.187s	Dy181 0.147s	Dy182 0.131s	Dy183 0.105s	Dy184 0.0942s	Dy185 0.0721s	Dy186 0.063s	Dy187 0.0553s	Dy188 0.043s	Dy189 0.0352s	Dy190 0.0273s	Dy191 0.0233s
65	Tb176 0.156s	Tb177 0.132s	Tb178 0.101s	Tb179 0.0863s	Tb180 0.0641s	Tb181 0.0623s	Tb182 0.0508s	Tb183 0.0463s	Tb184 0.0369s	Tb185 0.033s	Tb186 0.0288s	Tb187 0.0231s	Tb188 0.0192s	Tb189 0.0156s	Tb190 0.0136s
64	Gd175 0.134s	Gd176 0.111s	Gd177 0.0905s	Gd178 0.0727s	Gd179 0.0559s	Gd180 0.0548s	Gd181 0.0448s	Gd182 0.0398s	Gd183 0.0338s	Gd184 0.0289s	Gd185 0.0257s	Gd186 0.0203s	Gd187 0.0172s	Gd188 0.0137s	Gd189 0.0121s
63	Eu174 0.0607s	Eu175 0.0531s	Eu176 0.0433s	Eu177 0.0373s	Eu178 0.0292s	Eu179 0.0287s	Eu180 0.0236s	Eu181 0.0213s	Eu182 0.019s	Eu183 0.0166s	Eu184 0.0145s	Eu185 0.0118s	Eu186 0.01s	Eu187 0.00828s	Eu188 0.00714s
62	Sm173 0.0542s	Sm174 0.0466s	Sm175 0.0379s	Sm176 0.0328s	Sm177 0.0264s	Sm178 0.0244s	Sm179 0.0209s	Sm180 0.0191s	Sm181 0.0176s	Sm182 0.0148s	Sm183 0.0128s	Sm184 0.0104s	Sm185 0.0088s	Sm186 0.00714s	Sm187 0.00616s
61	Pm172 0.028s	Pm173 0.0247s	Pm174 0.0198s	Pm175 0.0178s	Pm176 0.0149s	Pm177 0.0135s	Pm178 0.0119s	Pm179 0.0114s	Pm180 0.0103s	Pm181 0.00871s	Pm182 0.00744s	Pm183 0.00626s	Pm184 0.0053s	Pm185 0.00445s	Pm186 0.00394s

Chart of the Nuclides 2010 (No. 25)

90	Th201	Th202	Th203	Th204	Th205	Th206	Th207	Th208	Th209	Th210	Th211	Th212	Th213	Th214	Th215
	0.000386s	0.00364s	0.0221s	0.00561s	0.0369s	0.0117s	0.0472s	0.00927s	0.0038s	0.009s	0.037s	0.03s	0.14s	0.1s	1.2s
89	Ac200	Ac201	Ac202	Ac203	Ac204	Ac205	Ac206	Ac207	Ac208	Ac209	Ac210	Ac211	Ac212	Ac213	Ac214
	0.0123s	0.0481s	0.322s	0.101s	0.778s	0.455s	0.033s	0.027s	0.095s	0.098s	0.35s	0.25s	0.93s	0.8s	8.2s
88	Ra199	Ra200	Ra201	Ra202	Ra203	Ra204	Ra205	Ra206	Ra207	Ra208	Ra209	Ra210	Ra211	Ra212	Ra213
	0.00973s	0.0211s	0.0016s	0.0007s	0.031s	0.057s	0.21s	0.24s	1.2s	1.3s	4.7s	3.7s	13s	13s	2.74m
87	Fr198	Fr199	Fr200	Fr201	Fr202	Fr203	Fr204	Fr205	Fr206	Fr207	Fr208	Fr209	Fr210	Fr211	Fr212
	0.655s	0.012s	0.57s	0.067s	0.3s	0.549s	1.7s	3.92s	16s	14.8s	59.1s	50s	3.18m	3.1m	20m
86	Rn197	Rn198	Rn199	Rn200	Rn201	Rn202	Rn203	Rn204	Rn205	Rn206	Rn207	Rn208	Rn209	Rn210	Rn211
	0.066s	0.065s	0.59s	0.96s	7.1s	10s	44s	1.23m	2.833m	5.67m	9.25m	24.35m	28.8m	2.4h	14.6h
85	At196	At197	At198	At199	At200	At201	At202	At203	At204	At205	At206	At207	At208	At209	At210
	0.253s	2s	4.1s	7.03s	47s	1.383m	3.067m	7.4m	9.22m	26.9m	30.6m	1.8h	1.63h	5.41h	8.1h
84	Po195	Po196	Po197	Po198	Po199	Po200	Po201	Po202	Po203	Po204	Po205	Po206	Po207	Po208	Po209
	4.64s	5.73s	53.6s	1.77m	5.47m	11.5m	15.3m	44.7m	36.7m	3.53h	1.74h	8.8d	5.8h	2.898y	102y
83	Bi194	Bi195	Bi196	Bi197	Bi198	Bi199	Bi200	Bi201	Bi202	Bi203	Bi204	Bi205	Bi206	Bi207	Bi208
	2.083m	3.05m	5.13m	9.33m	11.6m	27m	36.4m	1.717h	1.71h	11.76h	11.22h	15.31d	6.243d	32.9y	3.68e+05y
82	Pb193	Pb194	Pb195	Pb196	Pb197	Pb198	Pb199	Pb200	Pb201	Pb202	Pb203	Pb204	Pb205	Pb206	Pb207
	5.8m	12m	15m	37m	43m	2.4h	1.5h	21.5h	9.33h	5.25e+04y	2.163d	1.4	1.73e+07y	24.1	22.1
81	Tl192	Tl193	Tl194	Tl195	Tl196	Tl197	Tl198	Tl199	Tl200	Tl201	Tl202	Tl203	Tl204	Tl205	Tl206
	10.8m	21.6m	33m	1.16h	1.84h	2.84h	5.3h	7.42h	1.087d	3.042d	12.31d	29.52d	3.78y	70.476	4.202m
80	Hg191	Hg192	Hg193	Hg194	Hg195	Hg196	Hg197	Hg198	Hg199	Hg200	Hg201	Hg202	Hg203	Hg204	Hg205
	50.8m	4.85h	11.8h	444y	1.733d	0.15	2.672d	9.97	16.87	23.1	13.18	29.86	46.59d	6.87	5.14m
79	Au190	Au191	Au192	Au193	Au194	Au195	Au196	Au197	Au198	Au199	Au200	Au201	Au202	Au203	Au204
	42.8m	3.18h	4.94h	17.65h	1.584d	186.1d	6.167d	100	2.695d	3.139d	18.7h	26m	28.4s	1m	39.8s
78	Pt189	Pt190	Pt191	Pt192	Pt193	Pt194	Pt195	Pt196	Pt197	Pt198	Pt199	Pt200	Pt201	Pt202	Pt203
	10.87h	0.014	2.802d	0.782	50y	32.967	33.832	25.242	19.89h	7.163	30.8m	12.6h	2.5m	1.833d	2.96m
77	Ir188	Ir189	Ir190	Ir191	Ir192	Ir193	Ir194	Ir195	Ir196	Ir197	Ir198	Ir199	Ir200	Ir201	Ir202
	1.729d	13.2d	11.78d	37.3	241y	62.7	171d	3.8h	1.4h	8.9m	8s	3.62m	24.7s	45s	9.92s
76	Os187	Os188	Os189	Os190	Os191	Os192	Os193	Os194	Os195	Os196	Os197	Os198	Os199	Os200	Os201
	1.96	13.2d	16.15	26.26	15.4d	40.78	1.255d	6y	6.5m	34.9m	1.27m	2.8m	35.1s	38s	10.6s
75	Re180	Re187	Re188	Re189	Re190	Re191	Re192	Re193	Re194	Re195	Re196	Re197	Re198	Re199	Re200
	2e+05y	62.6	17h	1.013d	3.2h	9.8m	16s	1.57m	14.8s	19.5s	5.47s	11.4s	3.79s	3.73s	1.42s
74	W185	W186	W187	W188	W189	W190	W191	W192	W193	W194	W195	W196	W197	W198	W199
	75.1d	28.43	23.72h	69.78d	10.7m	30m	1.55m	1.02m	16.1s	13.4s	5.86s	7.98s	3.55s	2.26s	1.3s

Chart of the Nuclides 2010 (No. 28)

82	Pb208 52.4	Pb209 3.253h	Pb210 22.2y	Pb211 36.1m	Pb212 10.64h	Pb213 10.2m	Pb214 26.8m	Pb215 36s	Pb216 1.27m	Pb217 24s	Pb218 16.7s	Pb219 5.1s	Pb220 2.68s	Pb221 1.24s	Pb222 1.11s
81	Tl207 4.77m	Tl208 3.053m	Tl209 2.2m	Tl210 1.3m	Tl211 5.38s	Tl212 2.38s	Tl213 2.33s	Tl214 1.21s	Tl215 1.15s	Tl216 0.689s	Tl217 0.629s	Tl218 0.406s	Tl219 0.407s	Tl220 0.351s	Tl221 0.361s
80	Hg206 8.32m	Hg207 2.9m	Hg208 41m	Hg209 3.5s	Hg210 3.47s	Hg211 2.16s	Hg212 1.8s	Hg213 1.28s	Hg214 1.02s	Hg215 0.728s	Hg216 0.58s	Hg217 0.403s	Hg218 0.389s	Hg219 0.332s	Hg220 0.277s
79	Au205 31s	Au206 1.45s	Au207 1.6s	Au208 0.92s	Au209 0.886s	Au210 0.623s	Au211 0.602s	Au212 0.376s	Au213 0.33s	Au214 0.244s	Au215 0.208s	Au216 0.16s	Au217 0.161s	Au218 0.133s	Au219 0.116s
78	Pt204 1.54m	Pt205 1.39s	Pt206 1.23s	Pt207 0.841s	Pt208 0.706s	Pt209 0.51s	Pt210 0.383s	Pt211 0.286s	Pt212 0.249s	Pt213 0.19s	Pt214 0.162s	Pt215 0.135s	Pt216 0.122s	Pt217 0.112s	Pt218 0.0921s
77	Ir203 8.7s	Ir204 0.435s	Ir205 0.399s	Ir206 0.266s	Ir207 0.234s	Ir208 0.162s	Ir209 0.15s	Ir210 0.119s	Ir211 0.104s	Ir212 0.087s	Ir213 0.0762s	Ir214 0.061s	Ir215 0.0579s	Ir216 0.0525s	Ir217 0.0444s
76	Os202 6.28s	Os203 0.333s	Os204 0.273s	Os205 0.208s	Os206 0.181s	Os207 0.142s	Os208 0.124s	Os209 0.101s	Os210 0.0863s	Os211 0.0675s	Os212 0.0545s	Os213 0.0494s	Os214 0.0476s	Os215 0.043s	Os216 0.0362s
75	Re201 1.09s	Re202 0.116s	Re203 0.111s	Re204 0.091s	Re205 0.0821s	Re206 0.0658s	Re207 0.0583s	Re208 0.0477s	Re209 0.0422s	Re210 0.0345s	Re211 0.0319s	Re212 0.0281s	Re213 0.0256s	Re214 0.0218s	Re215 0.0188s
74	W200 0.801s	W201 0.105s	W202 0.0919s	W203 0.0795s	W204 0.0676s	W205 0.0577s	W206 0.0489s	W207 0.0418s	W208 0.0364s	W209 0.0307s	W210 0.0268s	W211 0.0231s	W212 0.0207s	W213 0.018s	W214 0.016s
73	Ta199 0.295s	Ta200 0.0504s	Ta201 0.0458s	Ta202 0.0396s	Ta203 0.0353s	Ta204 0.0305s	Ta205 0.0265s	Ta206 0.023s	Ta207 0.0201s	Ta208 0.017s	Ta209 0.0154s	Ta210 0.0137s	Ta211 0.0125s	Ta212 0.0115s	Ta213 0.0107s
72	Hf198 0.239s	Hf199 0.0443s	Hf200 0.0399s	Hf201 0.035s	Hf202 0.0307s	Hf203 0.0262s	Hf204 0.0232s	Hf205 0.0205s	Hf206 0.0178s	Hf207 0.0159s	Hf208 0.0142s	Hf209 0.0127s	Hf210 0.0114s	Hf211 0.011s	Hf212 0.00988s
71	Lu197 0.105s	Lu198 0.0238s	Lu199 0.0219s	Lu200 0.0197s	Lu201 0.0167s	Lu202 0.0147s	Lu203 0.0141s	Lu204 0.0122s	Lu205 0.0104s	Lu206 0.00968s	Lu207 0.00856s	Lu208 0.00803s	Lu209 0.00744s	Lu210 0.00694s	Lu211 0.00604s
70	Yb196 0.0891s	Yb197 0.0214s	Yb198 0.0196s	Yb199 0.0183s	Yb200 0.0156s	Yb201 0.0142s	Yb202 0.0135s	Yb203 0.0119s	Yb204 0.01s	Yb205 0.00969s	Yb206 0.00842s	Yb207 0.00807s	Yb208 0.00718s	Yb209 0.00649s	Yb210 0.00562s
69	Tm195 0.0449s	Tm196 0.0125s	Tm197 0.0116s	Tm198 0.0108s	Tm199 0.00949s	Tm200 0.00833s	Tm201 0.00844s	Tm202 0.00747s	Tm203 0.00646s	Tm204 0.00631s	Tm205 0.00544s	Tm206 0.0051s	Tm207 0.00452s	Tm208 0.00407s	Tm209 0.00363s
68	Er194 0.0393s	Er195 0.0114s	Er196 0.0104s	Er197 0.00988s	Er198 0.00865s	Er199 0.0075s	Er200 0.00782s	Er201 0.00705s	Er202 0.00596s	Er203 0.00566s	Er204 0.00478s	Er205 0.0046s	Er206 0.00404s	Er207 0.00367s	Er208 0.0033s
67	Ho193 0.0214s	Ho194 0.007s	Ho195 0.00654s	Ho196 0.00628s	Ho197 0.00544s	Ho198 0.00478s	Ho199 0.00511s	Ho200 0.00447s	Ho201 0.00382s	Ho202 0.00365s	Ho203 0.00319s	Ho204 0.00299s	Ho205 0.00268s	Ho206 0.00246s	Ho207 0.00223s
66	Dy192 0.0191s	Dy193 0.00657s	Dy194 0.00596s	Dy195 0.00577s	Dy196 0.00497s	Dy197 0.00484s	Dy198 0.0046s	Dy199 0.004s	Dy200 0.00352s	Dy201 0.00327s	Dy202 0.00291s	Dy203 0.00271s	Dy204 0.00248s	Dy205 0.00226s	Dy206 0.00203s

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97	Bk223 0.0229s	Bk224 3.97e-06s	Bk225 1.99e-09s	Bk226 1.49s	Bk227 1.83s	Bk228 5.88e-08s	Bk229 2.08e-08s	Bk230 1.76e-08s	Bk231 4.48e-07s	Bk232 0.000137s	Bk233 0.000873s	Bk234 0.0807s	Bk235 0.479s	Bk236 15.5s	Bk237 32.4s
96	Cm222 0.0103s	Cm223 1.46e-06s	Cm224 3.02s	Cm225 2.86e-08s	Cm226 4.05s	Cm227 7.21e-06s	Cm228 4.62e-08s	Cm229 2.31e-05s	Cm230 6.34e-08s	Cm231 0.00368s	Cm232 2.55e-05s	Cm233 3.04s	Cm234 51s	Cm235 1.13m	Cm236 56.6s
95	Am221 0.109s	Am222 1.03e-05s	Am223 3.9e-09s	Am224 1.91e-07s	Am225 1.01e-06s	Am226 7.23e-05s	Am227 0.000286s	Am228 0.0149s	Am229 0.0741s	Am230 2.03s	Am231 3.24s	Am232 1.32m	Am233 3.2m	Am234 2.32m	Am235 9.9m
94	Pu220 0.0685s	Pu221 5.94e-06s	Pu222 1.37e-09s	Pu223 1.27e-07s	Pu224 5.33e-07s	Pu225 3.59e-05s	Pu226 0.000134s	Pu227 0.0117s	Pu228 1.1s	Pu229 2m	Pu230 1.7m	Pu231 8.6m	Pu232 34.1m	Pu233 20.9m	Pu234 8.8h
93	Np219 4.38s	Np220 0.000123s	Np221 1.81e-08s	Np222 9.57e-07s	Np223 3.78e-06s	Np224 0.000333s	Np225 0.000817s	Np226 0.035s	Np227 0.51s	Np228 1.923m	Np229 4m	Np230 4.6m	Np231 48.8m	Np232 14.7m	Np233 36.2m
92	U218 0.00051s	U219 8e-05s	U220 8.75e-09s	U221 4.63e-07s	U222 1e-06s	U223 1.8e-05s	U224 0.0007s	U225 0.061s	U226 0.35s	U227 1.1m	U228 9.1m	U229 58m	U230 20.8d	U231 4.2d	U232 68.9y
91	Pa217 0.0036s	Pa218 0.000113s	Pa219 5.3e-08s	Pa220 7.8e-07s	Pa221 5.9e-06s	Pa222 0.0029s	Pa223 0.0051s	Pa224 0.79s	Pa225 1.7s	Pa226 1.8m	Pa227 38.3m	Pa228 22h	Pa229 1.5d	Pa230 17.4d	Pa231 3.28e+04y
90	Th216 0.026s	Th217 0.000251s	Th218 1.17e-07s	Th219 1.05e-06s	Th220 9.7e-06s	Th221 0.00173s	Th222 0.002237s	Th223 0.6s	Th224 1.05s	Th225 8.72m	Th226 30.57m	Th227 18.68d	Th228 1.912y	Th229 7340y	Th230 7.54e+04y
89	Ac215 0.17s	Ac216 0.000441s	Ac217 6.9e-08s	Ac218 1.08e-06s	Ac219 1.18e-05s	Ac220 0.0264s	Ac221 0.052s	Ac222 1.05m	Ac223 2.1m	Ac224 2.78h	Ac225 10d	Ac226 1.224d	Ac227 21.77y	Ac228 6.15h	Ac229 1.045h
88	Ra214 2.46s	Ra215 0.00155s	Ra216 1.82e-07s	Ra217 1.6e-06s	Ra218 2.52e-05s	Ra219 0.01s	Ra220 0.018s	Ra221 28s	Ra222 36.17s	Ra223 11.44d	Ra224 3.66d	Ra225 14.9d	Ra226 1600y	Ra227 42.2m	Ra228 5.75y
87	Fr213 34.6s	Fr214 0.005s	Fr215 8.6e-08s	Fr216 7e-07s	Fr217 1.9e-05s	Fr218 0.022s	Fr219 0.02s	Fr220 27.4s	Fr221 4.9m	Fr222 14.2m	Fr223 22m	Fr224 3.33m	Fr225 4m	Fr226 49s	Fr227 2.47m
86	Rn212 23.9m	Rn213 0.025s	Rn214 2.7e-07s	Rn215 2.3e-06s	Rn216 4.5e-05s	Rn217 0.00054s	Rn218 0.035s	Rn219 3.96s	Rn220 55.6s	Rn221 25.7m	Rn222 3.824d	Rn223 24.3m	Rn224 1.783h	Rn225 4.66m	Rn226 7.4m
85	At211 7.214h	At212 0.314s	At213 1.25e-07s	At214 5.58e-07s	At215 0.0001s	At216 0.0003s	At217 0.0323s	At218 1.5s	At219 56s	At220 3.71m	At221 2.3m	At222 54s	At223 50s	At224 8.58s	At225 11.7s
84	Po210 138.4d	Po211 25.2s	Po212 45.1s	Po213 4.2e-06s	Po214 0.0001643s	Po215 0.001781s	Po216 0.145s	Po217 1.46s	Po218 3.098m	Po219 1.89m	Po220 1.51m	Po221 26.2s	Po222 28.6s	Po223 9.62s	Po224 8.23s
83	Bi209 100	Bi210 3.04e+06y	Bi211 2.14m	Bi212 1.009h	Bi213 45.59m	Bi214 19.9m	Bi215 7.7m	Bi216 2.25m	Bi217 1.55m	Bi218 33s	Bi219 7.49s	Bi220 3.12s	Bi221 3.75s	Bi222 1.49s	Bi223 1.53s
82	Pb208 52.4	Pb209 3.253h	Pb210 22.2y	Pb211 36.1m	Pb212 10.64h	Pb213 10.2m	Pb214 26.8m	Pb215 36s	Pb216 1.27m	Pb217 24s	Pb218 16.7s	Pb219 5.1s	Pb220 2.68s	Pb221 1.24s	Pb222 1.11s
81	Tl207 4.77m	Tl208 3.053m	Tl209 2.2m	Tl210 1.3m	Tl211 5.38s	Tl212 2.38s	Tl213 2.33s	Tl214 1.21s	Tl215 1.15s	Tl216 0.689s	Tl217 0.629s	Tl218 0.406s	Tl219 0.407s	Tl220 0.351s	Tl221 0.361s

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91	Pa232 1.32d	Pa233 26.98d	Pa234 6.7h	Pa235 24.1m	Pa236 9.1m	Pa237 8.7m	Pa238 2.3m	Pa239 1.8h	Pa240 20.1s	Pa241 32.3s	Pa242 6.77s	Pa243 7.18s	Pa244 2.59s	Pa245 2.77s	Pa246 1.18s
90	Th231 1.063d	Th232 1.00	Th233 22.3m	Th234 24.1d	Th235 7.1m	Th236 37.3m	Th237 4.7m	Th238 9.4m	Th239 35.4s	Th240 33s	Th241 7.08s	Th242 5.76s	Th243 2.81s	Th244 2.49s	Th245 1.3s
89	Ac230 2.033m	Ac231 7.5m	Ac232 1.983m	Ac233 2.417m	Ac234 44s	Ac235 49s	Ac236 7.51s	Ac237 10.5s	Ac238 2.87s	Ac239 3.05s	Ac240 1.13s	Ac241 1.34s	Ac242 0.684s	Ac243 0.704s	Ac244 0.396s
88	Ra229 4m	Ra230 1.53h	Ra231 1.717m	Ra232 4.167m	Ra233 30s	Ra234 30s	Ra235 9.25s	Ra236 8.63s	Ra237 3.09s	Ra238 2.93s	Ra239 1.28s	Ra240 1.34s	Ra241 0.742s	Ra242 0.695s	Ra243 0.413s
87	Fr228 38s	Fr229 50.2s	Fr230 19.1s	Fr231 17.6s	Fr232 5.5s	Fr233 3.54s	Fr234 1.35s	Fr235 1.48s	Fr236 0.701s	Fr237 0.699s	Fr238 0.355s	Fr239 0.406s	Fr240 0.223s	Fr241 0.238s	Fr242 0.147s
86	Rn227 20.8s	Rn228 1.083m	Rn229 13.2s	Rn230 8.57s	Rn231 3.52s	Rn232 2.84s	Rn233 1.52s	Rn234 1.28s	Rn235 0.732s	Rn236 0.628s	Rn237 0.374s	Rn238 0.394s	Rn239 0.23s	Rn240 0.231s	Rn241 0.147s
85	At226 4.17s	At227 3.83s	At228 1.82s	At229 1.44s	At230 0.715s	At231 0.642s	At232 0.397s	At233 0.362s	At234 0.228s	At235 0.206s	At236 0.138s	At237 0.14s	At238 0.089s	At239 0.0902s	At240 0.0613s
84	Po225 3.63s	Po226 2.61s	Po227 1.6s	Po228 1.14s	Po229 0.812s	Po230 0.643s	Po231 0.411s	Po232 0.341s	Po233 0.225s	Po234 0.195s	Po235 0.139s	Po236 0.129s	Po237 0.0882s	Po238 0.0853s	Po239 0.0603s
83	Bi224 0.767s	Bi225 0.743s	Bi226 0.461s	Bi227 0.411s	Bi228 0.28s	Bi229 0.235s	Bi230 0.142s	Bi231 0.134s	Bi232 0.0885s	Bi233 0.0848s	Bi234 0.0617s	Bi235 0.0588s	Bi236 0.0428s	Bi237 0.0415s	Bi238 0.0305s
82	Pb223 0.663s	Pb224 0.588s	Pb225 0.398s	Pb226 0.33s	Pb227 0.232s	Pb228 0.195s	Pb229 0.142s	Pb230 0.131s	Pb231 0.0894s	Pb232 0.087s	Pb233 0.0627s	Pb234 0.0582s	Pb235 0.0421s	Pb236 0.0401s	Pb237 0.0304s
81	Tl222 0.238s	Tl223 0.221s	Tl224 0.151s	Tl225 0.137s	Tl226 0.1s	Tl227 0.0894s	Tl228 0.0649s	Tl229 0.0589s	Tl230 0.0398s	Tl231 0.0389s	Tl232 0.029s	Tl233 0.0276s	Tl234 0.0209s	Tl235 0.0198s	Tl236 0.0148s
80	Hg221 0.204s	Hg222 0.174s	Hg223 0.132s	Hg224 0.112s	Hg225 0.0858s	Hg226 0.0717s	Hg227 0.0579s	Hg228 0.0478s	Hg229 0.04s	Hg230 0.0364s	Hg231 0.027s	Hg232 0.0249s	Hg233 0.0184s	Hg234 0.0172s	Hg235 0.0133s
79	Au220 0.0899s	Au221 0.785s	Au222 0.0616s	Au223 0.0528s	Au224 0.0421s	Au225 0.0365s	Au226 0.0301s	Au227 0.0249s	Au228 0.0214s	Au229 0.0181s	Au230 0.0135s	Au231 0.0128s	Au232 0.00969s	Au233 0.00927s	Au234 0.00729s
78	Pt219 0.0766s	Pt220 0.0629s	Pt221 0.0521s	Pt222 0.0433s	Pt223 0.0364s	Pt224 0.0305s	Pt225 0.0252s	Pt226 0.0208s	Pt227 0.0181s	Pt228 0.0155s	Pt229 0.013s	Pt230 0.0119s	Pt231 0.00922s	Pt232 0.00881s	Pt233 0.00713s
77	Ir218 0.0374s	Ir219 0.0319s	Ir220 0.027s	Ir221 0.0232s	Ir222 0.0197s	Ir223 0.0167s	Ir224 0.014s	Ir225 0.0123s	Ir226 0.0107s	Ir227 0.00904s	Ir228 0.00783s	Ir229 0.00667s	Ir230 0.00539s	Ir231 0.00515s	Ir232 0.0042s
76	Os217 0.0311s	Os218 0.0266s	Os219 0.023s	Os220 0.0192s	Os221 0.017s	Os222 0.0142s	Os223 0.0126s	Os224 0.0107s	Os225 0.00928s	Os226 0.00772s	Os227 0.00696s	Os228 0.00588s	Os229 0.0053s	Os230 0.00482s	Os231 0.00403s
75	Re216 0.0165s	Re217 0.0146s	Re218 0.0128s	Re219 0.0111s	Re220 0.00987s	Re221 0.0084s	Re222 0.0074s	Re223 0.00636s	Re224 0.00566s	Re225 0.00487s	Re226 0.00437s	Re227 0.00373s	Re228 0.00336s	Re229 0.00291s	Re230 0.0025s

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105	Db 246 7.5e-11s	Db 247 1.86e-10s	Db 248 4.73e-09s	Db 249 1.03e-08s	Db 250 1.17e-07s	Db 251 8.65e-07s	Db 252 3.77e-05s	Db 253 0.000179s	Db 254 0.0135s	Db 255 1.6s	Db 256 1.6s	Db 257 1.5s	Db 258 20s	Db 259 0.51s	Db 260 1.52s
104	Rf 245 1.41e-09s	Rf 246 1.18e-12s	Rf 247 2.14e-08s	Rf 248 1.61e-10s	Rf 249 1.62e-05s	Rf 250 9.73e-09s	Rf 251 0.00042s	Rf 252 2.14e-05s	Rf 253 0.013s	Rf 254 2.3e-05s	Rf 255 1.68s	Rf 256 0.0064s	Rf 257 4.7s	Rf 258 0.012s	Rf 259 3.2s
103	Lr 244 4.72e-08s	Lr 245 3.3e-07s	Lr 246 1.78e-05s	Lr 247 3.15e-05s	Lr 248 0.0492s	Lr 249 0.0244s	Lr 250 0.191s	Lr 251 0.101s	Lr 252 0.36s	Lr 253 1.49s	Lr 254 13s	Lr 255 22s	Lr 256 27s	Lr 257 0.646s	Lr 258 4.1s
102	No 243 2.97e-06s	No 244 1.01e-08s	No 245 0.00288s	No 246 1.16e-05s	No 247 0.0857s	No 248 0.0172s	No 249 5.4e-05s	No 250 5.6e-06s	No 251 0.93s	No 252 2.27s	No 253 1.62m	No 254 51s	No 255 3.1m	No 256 2.91s	No 257 24.5s
101	Md 242 0.00163s	Md 243 0.00738s	Md 244 0.724s	Md 245 0.35s	Md 246 1s	Md 247 1.12s	Md 248 7s	Md 249 24s	Md 250 52s	Md 251 4m	Md 252 4.8m	Md 253 12m	Md 254 28m	Md 255 27m	Md 256 1.283h
100	Fm 241 0.00073s	Fm 242 0.0008s	Fm 243 0.18s	Fm 244 0.0033s	Fm 245 4.2s	Fm 246 1.1s	Fm 247 29s	Fm 248 36s	Fm 249 1.6m	Fm 250 33m	Fm 251 5.3h	Fm 252 1.058d	Fm 253 3d	Fm 254 3.24h	Fm 255 20.07h
99	Es 240 8.19s	Es 241 8s	Es 242 13.5s	Es 243 21s	Es 244 37s	Es 245 1.1m	Es 246 7.7m	Es 247 4.55m	Es 248 27m	Es 249 1.703h	Es 250 8.6h	Es 251 1.375d	Es 252 1.291y	Es 253 20.47d	Es 254 275.7d
98	Cf 239 39s	Cf 240 57.6s	Cf 241 3.78m	Cf 242 3.49m	Cf 243 10.7m	Cf 244 19.4m	Cf 245 45m	Cf 246 1.487d	Cf 247 3.11h	Cf 248 333.5d	Cf 249 351y	Cf 250 13.08y	Cf 251 898y	Cf 252 2.645y	Cf 253 17.81d
97	Bk 238 2.4m	Bk 239 1.51m	Bk 240 4.8m	Bk 241 4.6m	Bk 242 7m	Bk 243 4.5h	Bk 244 4.35h	Bk 245 4.94d	Bk 246 1.8d	Bk 247 13.80y	Bk 248 9y	Bk 249 320d	Bk 250 3.212h	Bk 251 55.6m	Bk 252 1.8m
96	Cm 237 3.97m	Cm 238 2.4h	Cm 239 2.9h	Cm 240 27d	Cm 241 32.8d	Cm 242 162.9d	Cm 243 29.1y	Cm 244 18.11y	Cm 245 8500y	Cm 246 47.60y	Cm 247 1.56e+07y	Cm 248 3.8e+05y	Cm 249 1.069h	Cm 250 9.760y	Cm 251 16.8m
95	Am 236 3.6m	Am 237 1.227h	Am 238 1.633h	Am 239 11.9h	Am 240 2.117d	Am 241 432.6y	Am 242 141y	Am 243 7370y	Am 244 10.1h	Am 245 2.05h	Am 246 3.9m	Am 247 23m	Am 248 3.133m	Am 249 44.1m	Am 250 43.9s
94	Pu 235 25.3m	Pu 236 2.858y	Pu 237 45.2d	Pu 238 87.7y	Pu 239 2.41e+04y	Pu 240 6561y	Pu 241 14.29y	Pu 242 3.74e+05y	Pu 243 4.956h	Pu 244 8.34e+07y	Pu 245 10.5h	Pu 246 10.84d	Pu 247 2.27d	Pu 248 48.3m	Pu 249 1.58m
93	Np 234 4.4d	Np 235 1.085y	Np 236 1.54e+05y	Np 237 2.14e+06y	Np 238 2.117d	Np 239 2.556d	Np 240 1.032h	Np 241 13.9m	Np 242 5.5m	Np 243 1.85m	Np 244 2.29m	Np 245 2.29m	Np 246 14.5s	Np 247 27.7s	Np 248 6.11s
92	U 233 59e+05y	U 234 0.0055s	U 235 0.72s	U 236 2.34e+07y	U 237 6.75d	U 238 99.2745y	U 239 23.45m	U 240 14.1h	U 241 45.6m	U 242 16.8m	U 243 3.04m	U 244 2.66m	U 245 29.2s	U 246 22.6s	U 247 7.54s
91	Pa 232 1.32d	Pa 233 26.98d	Pa 234 6.7h	Pa 235 24.1m	Pa 236 9.1m	Pa 237 8.7m	Pa 238 2.3m	Pa 239 1.8h	Pa 240 20.1s	Pa 241 32.3s	Pa 242 6.77s	Pa 243 7.18s	Pa 244 2.59s	Pa 245 2.77s	Pa 246 1.18s
90	Th 231 1.063d	Th 232 100	Th 233 22.3m	Th 234 24.1d	Th 235 7.1m	Th 236 37.3m	Th 237 4.7m	Th 238 9.4m	Th 239 35.4s	Th 240 33s	Th 241 7.08s	Th 242 5.76s	Th 243 2.81s	Th 244 2.49s	Th 245 1.3s
89	Ac 230 2.033m	Ac 231 7.5m	Ac 232 1.983m	Ac 233 2.417m	Ac 234 44s	Ac 235 49s	Ac 236 7.51s	Ac 237 10.5s	Ac 238 2.87s	Ac 239 3.05s	Ac 240 1.13s	Ac 241 1.34s	Ac 242 0.684s	Ac 243 0.704s	Ac 244 0.396s

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97	Bk253 1.6d	Bk254 3.69m	Bk255 23.4m	Bk256 39.7s	Bk257 1.63m	Bk258 12.8s	Bk259 20s	Bk260 5.16s	Bk261 7.13s	Bk262 2.63s	Bk263 4.53s	Bk264 2.11s	Bk265 5.37s	Bk266 2.71s	Bk267 3.4s
96	Cm252 32.3y	Cm253 23.5m	Cm254 42.9m	Cm255 1.66m	Cm256 1.94m	Cm257 20.8s	Cm258 21.9s	Cm259 7.43s	Cm260 7.4s	Cm261 3.69s	Cm262 8.01s	Cm263 6.2s	Cm264 10.1s	Cm265 3.51s	Cm266 3.51s
95	Am251 1.44m	Am252 12.6s	Am253 21.1s	Am254 5.43s	Am255 7.01s	Am256 2.51s	Am257 3.01s	Am258 1.2s	Am259 2.19s	Am260 1.68s	Am261 3.45s	Am262 1.49s	Am263 1.69s	Am264 0.759s	Am265 0.696s
94	Pu250 1.8m	Pu251 25.3s	Pu252 25.5s	Pu253 7.82s	Pu254 6.95s	Pu255 3.09s	Pu256 2.8s	Pu257 1.43s	Pu258 7.38s	Pu259 3.78s	Pu260 3.64s	Pu261 1.76s	Pu262 1.47s	Pu263 0.637s	Pu264 0.48s
93	Np249 7.24s	Np250 2.66s	Np251 3.01s	Np252 1.17s	Np253 1.35s	Np254 0.683s	Np255 0.676s	Np256 0.879s	Np257 4.08s	Np258 0.811s	Np259 0.828s	Np260 0.399s	Np261 0.345s	Np262 0.192s	Np263 0.186s
92	U248 7.27s	U249 2.79s	U250 2.79s	U251 1.4s	U252 1.35s	U253 0.695s	U254 1.2s	U255 2.83s	U256 4.38s	U257 0.812s	U258 0.658s	U259 0.362s	U260 0.347s	U261 0.237s	U262 0.236s
91	Pa247 1.2s	Pa248 0.615s	Pa249 0.705s	Pa250 0.386s	Pa251 0.381s	Pa252 0.233s	Pa253 0.575s	Pa254 0.454s	Pa255 0.403s	Pa256 0.129s	Pa257 0.13s	Pa258 0.0926s	Pa259 0.0921s	Pa260 0.06s	Pa261 0.0524s
90	Th246 1.37s	Th247 0.752s	Th248 0.737s	Th249 0.426s	Th250 0.386s	Th251 0.361s	Th252 0.629s	Th253 0.347s	Th254 0.354s	Th255 0.135s	Th256 0.131s	Th257 0.0921s	Th258 0.0898s	Th259 0.054s	Th260 0.0489s
89	Ac245 0.406s	Ac246 0.236s	Ac247 0.239s	Ac248 0.148s	Ac249 0.18s	Ac250 0.169s	Ac251 0.171s	Ac252 0.128s	Ac253 0.132s	Ac254 0.0589s	Ac255 0.0571s	Ac256 0.041s	Ac257 0.0362s	Ac258 0.027s	Ac259 0.0254s
88	Ra244 0.388s	Ra245 0.243s	Ra246 0.232s	Ra247 0.159s	Ra248 0.206s	Ra249 0.161s	Ra250 0.153s	Ra251 0.126s	Ra252 0.127s	Ra253 0.0598s	Ra254 0.0563s	Ra255 0.0418s	Ra256 0.0363s	Ra257 0.0278s	Ra258 0.0257s
87	Fr243 0.146s	Fr244 0.0944s	Fr245 0.0942s	Fr246 0.0753s	Fr247 0.0907s	Fr248 0.0662s	Fr249 0.0651s	Fr250 0.0539s	Fr251 0.0559s	Fr252 0.0293s	Fr253 0.0281s	Fr254 0.0215s	Fr255 0.0191s	Fr256 0.015s	Fr257 0.0141s
86	Rn242 0.141s	Rn243 0.095s	Rn244 0.0912s	Rn245 0.0779s	Rn246 0.0848s	Rn247 0.0689s	Rn248 0.0673s	Rn249 0.0551s	Rn250 0.0548s	Rn251 0.0296s	Rn252 0.0281s	Rn253 0.0218s	Rn254 0.0192s	Rn255 0.0151s	Rn256 0.014s
85	At241 0.0593s	At242 0.0423s	At243 0.0408s	At244 0.0404s	At245 0.0437s	At246 0.0344s	At247 0.0332s	At248 0.0267s	At249 0.0268s	At250 0.0158s	At251 0.0152s	At252 0.0121s	At253 0.0109s	At254 0.00867s	At255 0.00803s
84	Po240 0.0566s	Po241 0.0418s	Po242 0.0451s	Po243 0.0442s	Po244 0.0445s	Po245 0.0346s	Po246 0.0336s	Po247 0.0267s	Po248 0.0264s	Po249 0.016s	Po250 0.0151s	Po251 0.0124s	Po252 0.011s	Po253 0.0086s	Po254 0.00791s
83	Bi239 0.0291s	Bi240 0.0222s	Bi241 0.0242s	Bi242 0.022s	Bi243 0.0226s	Bi244 0.018s	Bi245 0.0178s	Bi246 0.0143s	Bi247 0.0142s	Bi248 0.00913s	Bi249 0.00874s	Bi250 0.00681s	Bi251 0.00611s	Bi252 0.00502s	Bi253 0.0049s
82	Pb238 0.0281s	Pb239 0.022s	Pb240 0.0266s	Pb241 0.0241s	Pb242 0.023s	Pb243 0.0183s	Pb244 0.0172s	Pb245 0.0145s	Pb246 0.0141s	Pb247 0.0088s	Pb248 0.00788s	Pb249 0.00624s	Pb250 0.00602s	Pb251 0.00518s	Pb252 0.00503s
81	Tl237 0.0135s	Tl238 0.0104s	Tl239 0.00956s	Tl240 0.00783s	Tl241 0.00747s	Tl242 0.00619s	Tl243 0.00583s	Tl244 0.0047s	Tl245 0.00433s	Tl246 0.00298s	Tl247 0.00291s	Tl248 0.00257s	Tl249 0.00248s	Tl250 0.00214s	Tl251 0.00201s

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111	Rg267 8.34e-08s	Rg268 1.15e-06s	Rg269 1.82e-06s	Rg270 1.85e-05s	Rg271 3.13e-05s	Rg272 0.0038s	Rg273 0.000312s	Rg274 0.006s	Rg275 0.000179s	Rg276 0.00057s	Rg277 0.00012s	Rg278 0.0042s	Rg279 0.17s	Rg280 3.6s	Rg281 1.42s
110	Ds260 7.3e-10s	Ds267 3e-06s	Ds268 1.15e-08s	Ds269 0.00017s	Ds270 0.006s	Ds271 0.069s	Ds272 0.0086s	Ds273 0.12s	Ds274 3.59e-07s	Ds275 0.00107s	Ds276 5.79e-08s	Ds277 3.08e-05s	Ds278 6.15e-09s	Ds279 0.18s	Ds280 11s
109	Mt265 8.43e-05s	Mt260 0.006s	Mt267 0.000418s	Mt268 0.07s	Mt269 0.00328s	Mt270 0.005s	Mt271 0.0162s	Mt272 0.0304s	Mt273 0.005s	Mt274 0.45s	Mt275 0.01s	Mt276 0.72s	Mt277 6.24e-05s	Mt278 7.14s	Mt279 45.5s
108	Hs264 0.0008s	Hs265 0.002s	Hs266 0.0023s	Hs267 0.8s	Hs268 2.05e-05s	Hs269 13s	Hs270 3.6s	Hs271 0.0378s	Hs272 1.36e-05s	Hs273 0.009s	Hs274 2.09e-06s	Hs275 0.15s	Hs276 1.75e-08s	Hs277 11.4m	Hs278 5.24s
107	Bh263 0.00783s	Bh264 0.44s	Bh265 0.94s	Bh266 10s	Bh267 17s	Bh268 1.07s	Bh269 0.692s	Bh270 1m	Bh271 0.525s	Bh272 10s	Bh273 0.0213s	Bh274 0.00455s	Bh275 0.000538s	Bh276 0.000977s	Bh277 35.3m
106	Sg262 0.0069s	Sg263 0.82s	Sg264 0.027s	Sg265 8s	Sg266 21s	Sg267 0.019s	Sg268 0.000494s	Sg269 22s	Sg270 0.000675s	Sg271 2.4m	Sg272 1.32e-05s	Sg273 0.00317s	Sg274 5.37e-07s	Sg275 0.000637s	Sg276 3.26e-07s
105	Db261 1.8s	Db262 35s	Db263 27s	Db264 14.9s	Db265 7.38s	Db266 1.41m	Db267 1.21h	Db268 19h	Db269 5.13s	Db270 1.91s	Db271 0.374s	Db272 0.0277s	Db273 0.0244s	Db274 0.029s	Db275 0.0097s
104	Rf260 0.0201s	Rf261 1.3m	Rf262 2.1s	Rf263 15m	Rf264 5.94s	Rf265 13h	Rf266 0.257s	Rf267 2.92m	Rf268 0.0305s	Rf269 8.61s	Rf270 0.00109s	Rf271 0.468s	Rf272 0.000144s	Rf273 0.0243s	Rf274 2.98e-07s
103	Lr259 6.2s	Lr260 3m	Lr261 39m	Lr262 3.6h	Lr263 24.8m	Lr264 1.53h	Lr265 2.53h	Lr266 1.12h	Lr267 3.71h	Lr268 17m	Lr269 1.28m	Lr270 27.2s	Lr271 0.373s	Lr272 0.28s	Lr273 0.000837s
102	No258 0.0012s	No259 58m	No260 0.106s	No261 1.8h	No262 0.005s	No263 21h	No264 18.1m	No265 3.67d	No266 47.5s	No267 1.81h	No268 0.0561s	No269 11.6s	No270 0.000457s	No271 0.605s	No272 0.000202s
101	Md257 5.52h	Md258 51.5d	Md259 1.6h	Md260 27.8d	Md261 7.84d	Md262 20.5m	Md263 3.45h	Md264 43.2m	Md265 2.29d	Md266 2.22m	Md267 1.51m	Md268 34.8s	Md269 5.49s	Md270 6.47s	Md271 1.17m
100	Fm256 22.7h	Fm257 300.5d	Fm258 0.00037s	Fm259 1.5s	Fm260 0.004s	Fm261 2.74h	Fm262 29.5m	Fm263 22h	Fm264 40.3s	Fm265 9.83m	Fm266 0.0462s	Fm267 33s	Fm268 0.0288s	Fm269 48.4s	Fm270 4.31m
99	Es255 39.8d	Es250 7.6h	Es257 7.7d	Es258 40.1m	Es259 6.78d	Es260 3.38m	Es261 15.3m	Es262 32.7s	Es263 1.44m	Es264 10.6s	Es265 25.9s	Es266 7.02s	Es267 14.9s	Es268 4.86s	Es269 18.5s
98	Cf254 60.5d	Cf255 1.417h	Cf250 12.3m	Cf257 2.39d	Cf258 5.76d	Cf259 14.8m	Cf260 35m	Cf261 1.56m	Cf262 1.82m	Cf263 19.8s	Cf264 24.8s	Cf265 12.1s	Cf266 20.9s	Cf267 14s	Cf268 29.8s
97	Bk253 1.6d	Bk254 3.69m	Bk255 23.4m	Bk256 39.7s	Bk257 1.63m	Bk258 12.8s	Bk259 20s	Bk260 5.16s	Bk261 7.13s	Bk262 2.63s	Bk263 4.53s	Bk264 2.11s	Bk265 5.37s	Bk266 2.71s	Bk267 3.4s
96	Cm252 32.3y	Cm253 23.5m	Cm254 42.9m	Cm255 1.66m	Cm256 1.94m	Cm257 20.8s	Cm258 21.9s	Cm259 7.43s	Cm260 7.4s	Cm261 3.69s	Cm262 8.01s	Cm263 6.2s	Cm264 10.1s	Cm265 3.51s	Cm266 3.51s
95	Am251 1.44m	Am252 12.6s	Am253 21.1s	Am254 5.43s	Am255 7.01s	Am256 2.51s	Am257 3.01s	Am258 1.2s	Am259 2.19s	Am260 1.68s	Am261 3.45s	Am262 1.49s	Am263 1.69s	Am264 0.759s	Am265 0.696s

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98	Cf269 6.82s	Cf270 6.75s	Cf271 2.57s	Cf272 2s	Cf273 1.08s	Cf274 0.831s	Cf275 0.447s	Cf276 0.396s	Cf277 0.252s	Cf278 0.227s	Cf279 0.164s	Cf280 0.146s	Cf281 0.096s	Cf282 0.0877s	Cf283 0.0296s
97	Bk268 1.22s	Bk269 1.38s	Bk270 0.607s	Bk271 0.505s	Bk272 0.28s	Bk273 0.237s	Bk274 0.158s	Bk275 0.149s	Bk276 0.101s	Bk277 0.0935s	Bk278 0.0692s	Bk279 0.0643s	Bk280 0.0449s	Bk281 0.042s	Bk282 0.016s
96	Cm267 1.42s	Cm268 1.13s	Cm269 0.5s	Cm270 0.403s	Cm271 0.269s	Cm272 0.244s	Cm273 0.167s	Cm274 0.151s	Cm275 0.106s	Cm276 0.0938s	Cm277 0.0708s	Cm278 0.0654s	Cm279 0.0468s	Cm280 0.0429s	Cm281 0.0166s
95	Am266 0.304s	Am267 0.259s	Am268 0.158s	Am269 0.155s	Am270 0.109s	Am271 0.103s	Am272 0.0698s	Am273 0.0621s	Am274 0.047s	Am275 0.0448s	Am276 0.0348s	Am277 0.0326s	Am278 0.0243s	Am279 0.0227s	Am280 0.00959s
94	Pu265 0.275s	Pu266 0.258s	Pu267 0.176s	Pu268 0.163s	Pu269 0.108s	Pu270 0.0941s	Pu271 0.0668s	Pu272 0.0632s	Pu273 0.05s	Pu274 0.0464s	Pu275 0.0366s	Pu276 0.0334s	Pu277 0.0253s	Pu278 0.0233s	Pu279 0.00987s
93	Np264 0.121s	Np265 0.115s	Np266 0.0743s	Np267 0.064s	Np268 0.0446s	Np269 0.0427s	Np270 0.033s	Np271 0.0324s	Np272 0.0256s	Np273 0.0248s	Np274 0.0196s	Np275 0.0182s	Np276 0.014s	Np277 0.0132s	Np278 0.00603s
92	U263 0.135s	U264 0.109s	U265 0.0697s	U266 0.0635s	U267 0.0485s	U268 0.0457s	U269 0.0357s	U270 0.0345s	U271 0.0277s	U272 0.0266s	U273 0.02s	U274 0.0179s	U275 0.0142s	U276 0.0138s	U277 0.00584s
91	Pa262 0.0336s	Pa263 0.0329s	Pa264 0.0259s	Pa265 0.0253s	Pa266 0.0199s	Pa267 0.0192s	Pa268 0.0152s	Pa269 0.014s	Pa270 0.0106s	Pa271 0.00931s	Pa272 0.00726s	Pa273 0.00699s	Pa274 0.0057s	Pa275 0.00518s	Pa276 0.00249s
90	Th261 0.0356s	Th262 0.0343s	Th263 0.0271s	Th264 0.0264s	Th265 0.0213s	Th266 0.0199s	Th267 0.0154s	Th268 0.0141s	Th269 0.0113s	Th270 0.0103s	Th271 0.00776s	Th272 0.00688s	Th273 0.00549s	Th274 0.00512s	
89	Ac260 0.0201s	Ac261 0.0191s	Ac262 0.0156s	Ac263 0.0148s	Ac264 0.0115s	Ac265 0.0108s	Ac266 0.00889s	Ac267 0.00811s	Ac268 0.00625s	Ac269 0.00538s	Ac270 0.00422s	Ac271 0.0041s	Ac272 0.00351s	Ac273 0.0033s	
88	Ra259 0.0205s	Ra260 0.0189s	Ra261 0.0158s	Ra262 0.0144s	Ra263 0.0119s	Ra264 0.011s	Ra265 0.00828s	Ra266 0.00702s	Ra267 0.00562s	Ra268 0.00513s	Ra269 0.00432s	Ra270 0.00413s	Ra271 0.00357s	Ra272 0.00337s	
87	Fr258 0.0116s	Fr259 0.0108s	Fr260 0.00904s	Fr261 0.00807s	Fr262 0.00646s	Fr263 0.00555s	Fr264 0.00446s	Fr265 0.00418s	Fr266 0.00354s	Fr267 0.00329s	Fr268 0.0028s	Fr269 0.00265s	Fr270 0.00236s	Fr271 0.00224s	
86	Rn257 0.0117s	Rn258 0.0105s	Rn259 0.00795s	Rn260 0.00716s	Rn261 0.0058s	Rn262 0.00521s	Rn263 0.00454s	Rn264 0.00421s	Rn265 0.00351s	Rn266 0.00326s	Rn267 0.00278s	Rn268 0.00263s	Rn269 0.00234s	Rn270 0.00222s	
85	At256 0.00634s	At257 0.00555s	At258 0.00446s	At259 0.00434s	At260 0.00357s	At261 0.00335s	At262 0.00284s	At263 0.00251s	At264 0.00214s	At265 0.00201s	At266 0.00172s	At267 0.00164s	At268 0.00146s	At269 0.00134s	
84	Po255 0.00661s	Po256 0.00603s	Po257 0.00492s	Po258 0.00453s	Po259 0.00371s	Po260 0.00336s	Po261 0.00272s	Po262 0.00246s	Po263 0.00212s	Po264 0.00195s	Po265 0.00167s	Po266 0.00156s	Po267 0.00132s	Po268 0.00115s	
83	Bi254 0.00425s	Bi255 0.00389s	Bi256 0.00322s	Bi257 0.00298s	Bi258 0.00242s	Bi259 0.00217s	Bi260 0.00181s	Bi261 0.00168s	Bi262 0.00144s	Bi263 0.00132s	Bi264 0.00111s	Bi265 0.001s	Bi266 0.000906s	Bi267 0.000785s	
82	Pb253 0.00428s	Pb254 0.00399s	Pb255 0.00318s	Pb256 0.00289s	Pb257 0.00242s	Pb258 0.00227s	Pb259 0.00186s	Pb260 0.00164s	Pb262 0.00127s	Pb264 0.00111s	Pb266 0.00109s	Pb268 0.000906s	Pb270 0.000906s	Pb272 0.000906s	

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112	Cn283 4s	Cn284 0.098s	Cn285 34s	Cn286 22m	Cn287 3.08h	Cn288 2.62h	Cn289 42.9m	Cn290 2.14d	Cn291 5.85d	Cn292 27.4d	Cn293 2.97y	Cn294 3.14d	Cn295 4.14y	Cn296 2.42y	Cn297 1.06h
111	Rg282 13.9s	Rg283 7.91m	Rg284 3.62m	Rg285 2.74h	Rg286 12.6m	Rg287 35.5m	Rg288 32.8m	Rg289 6.18d	Rg290 40.1m	Rg291 2.07y	Rg292 15m	Rg293 2.13h	Rg294 3.83m	Rg295 8.38m	Rg296 18.8s
110	Ds281 9.6s	Ds282 0.00424s	Ds283 33.8m	Ds284 3.17m	Ds285 7.62h	Ds286 1.05d	Ds287 93.4d	Ds288 11.8d	Ds289 1.22y	Ds290 4.04y	Ds291 4.09h	Ds292 1.20y	Ds293 37.7y	Ds294 344y	Ds295 54.5s
109	Mt280 10.5m	Mt281 7.38s	Mt282 26.1m	Mt283 5.09h	Mt284 1.22h	Mt285 2.28y	Mt286 23.6m	Mt287 7.71h	Mt288 5.13m	Mt289 20.6m	Mt290 6.04m	Mt291 1.56h	Mt292 55.6s	Mt293 5.16m	Mt294 3.52s
108	Hs279 2.37h	Hs280 26.9m	Hs281 10.2m	Hs282 21.3s	Hs283 4.59d	Hs284 55.6m	Hs285 14.1h	Hs286 4.24h	Hs287 13.4m	Hs288 5.94h	Hs289 3.71h	Hs290 17.8h	Hs291 5.82m	Hs292 15.1m	Hs293 5.04s
107	Bh278 1.16h	Bh279 1.01s	Bh280 25.7m	Bh281 3.19h	Bh282 9.8m	Bh283 23m	Bh284 8.6m	Bh285 2.6h	Bh286 1.14m	Bh287 12.5m	Bh288 29.5s	Bh289 1.19m	Bh290 8.55s	Bh291 14.3s	Bh292 0.922s
106	Sg277 0.0213s	Sg278 9.23e-05s	Sg279 4.81m	Sg280 1.35s	Sg281 54m	Sg282 1.82s	Sg283 4.4h	Sg284 18.8s	Sg285 7.95m	Sg286 1.25h	Sg287 1.72m	Sg288 1.69m	Sg289 15.8s	Sg290 16.8s	Sg291 1.08s
105	Db276 0.0164s	Db277 0.386s	Db278 2.72m	Db279 49.5s	Db280 2.67m	Db281 15.8m	Db282 33.6s	Db283 1.64m	Db284 10.1s	Db285 23.2s	Db286 5.04s	Db287 6.2s	Db288 1.93s	Db289 2.2s	Db290 0.305s
104	Rf275 0.0482s	Rf276 0.00202s	Rf277 17.9s	Rf278 0.0207s	Rf279 12.1m	Rf280 1.34s	Rf281 2.05m	Rf282 2.38m	Rf283 19.8s	Rf284 25.9s	Rf285 7.85s	Rf286 6.8s	Rf287 2.4s	Rf288 2.25s	Rf289 0.329s
103	Lr274 5.12s	Lr275 24.8m	Lr276 57.3s	Lr277 3.62m	Lr278 20.4s	Lr279 29.2s	Lr280 5.73s	Lr281 7.47s	Lr282 2.23s	Lr283 2.83s	Lr284 1.25s	Lr285 1.23s	Lr286 0.568s	Lr287 0.572s	Lr288 0.123s
102	No273 13.3m	No274 1.48d	No275 4.22m	No276 6.96m	No277 50s	No278 35s	No279 8.97s	No280 8s	No281 2.84s	No282 2.8s	No283 1.49s	No284 1.27s	No285 0.637s	No286 0.582s	No287 0.127s
101	Md272 19.5s	Md273 1.34m	Md274 8.72s	Md275 12.4s	Md276 3.39s	Md277 3.72s	Md278 1.38s	Md279 1.41s	Md280 0.637s	Md281 0.662s	Md282 0.408s	Md283 0.376s	Md284 0.212s	Md285 0.202s	Md286 0.0565s
100	Fm271 1.23m	Fm272 1.76m	Fm273 14.7s	Fm274 13.9s	Fm275 4.5s	Fm276 4.16s	Fm277 1.64s	Fm278 1.37s	Fm279 0.712s	Fm280 0.665s	Fm281 0.442s	Fm282 0.376s	Fm283 0.227s	Fm284 0.209s	Fm285 0.059s
99	Es270 4.74s	Es271 6.45s	Es272 1.98s	Es273 2.06s	Es274 0.894s	Es275 0.885s	Es276 0.428s	Es277 0.397s	Es278 0.237s	Es279 0.224s	Es280 0.157s	Es281 0.145s	Es282 0.0925s	Es283 0.0869s	Es284 0.0289s
98	Cf269 6.82s	Cf270 6.75s	Cf271 2.57s	Cf272 2s	Cf273 1.08s	Cf274 0.831s	Cf275 0.447s	Cf276 0.396s	Cf277 0.252s	Cf278 0.227s	Cf279 0.164s	Cf280 0.146s	Cf281 0.096s	Cf282 0.0877s	Cf283 0.0296s
97	Bk268 1.22s	Bk269 1.38s	Bk270 0.607s	Bk271 0.505s	Bk272 0.28s	Bk273 0.237s	Bk274 0.158s	Bk275 0.149s	Bk276 0.101s	Bk277 0.0935s	Bk278 0.0692s	Bk279 0.0643s	Bk280 0.0449s	Bk281 0.042s	Bk282 0.016s
96	Cm267 1.42s	Cm268 1.13s	Cm269 0.5s	Cm270 0.403s	Cm271 0.269s	Cm272 0.244s	Cm273 0.167s	Cm274 0.151s	Cm275 0.106s	Cm276 0.0938s	Cm277 0.0708s	Cm278 0.0654s	Cm279 0.0468s	Cm280 0.0429s	Cm281 0.0166s

