

Table 1: Master list of nuclides (click on T_z to open link)

Nuclide	Decay Mode(s)	T_z
⁴ Li	p	-1 odd Z
⁷ B	p	-3/2 odd Z
⁸ B	β -2 α	-1 odd Z
⁹ C	β -p, β - α	-3/2 even Z
¹⁰ N	p	-2 odd Z
¹¹ N	p	-3/2 odd Z
¹² N	β - α	-1 odd Z
¹¹ O	2p	-5/2 even Z
¹² O	p	-2 even Z
¹³ O	β -p	-3/2 even Z
¹³ F	3p	-5/2 odd Z
¹⁴ F	p	-2 odd Z
¹⁵ F	p	-3/2 odd Z
¹⁶ F	p	-1 odd Z
¹⁵ Ne	2p	-5/2 even Z
¹⁷ Ne	β -p, β - α	-3/2 even Z
¹⁷ Na	3p	-5/2 odd Z
¹⁸ Na	p	-2 odd Z
¹⁹ Na	p	-3/2 odd Z

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^{20}Na	β - α	-1 odd Z
^{19}Mg	2p	-5/2 even Z
^{20}Mg	β -p	-2 even Z
^{21}Mg	β -p, β - α	-3/2 even Z
^{21}Al	p	-5/2 odd Z
^{22}Al	β -p, β -2p	-2 odd Z
^{23}Al	β -p	-3/2 odd Z
^{24}Al	β -p, β - α	-1 odd Z
^{22}Si	β -p, β -2p	-3 even Z
^{23}Si	β -p, β -2p	-5/2 even Z
^{24}Si	β -p	-2 even Z
^{25}Si	β -p	-3/2 even Z
^{25}P	p	-5/2 odd Z
^{26}P	β -p, β -2p	-2 odd Z
^{27}P	β -p	-3/2 odd Z
^{28}P	β -p, β - α	-1 odd Z
^{27}S	β -p, β -2p, β -3p	-5/2 even Z
^{28}S	β -p	-2 even Z
^{29}S	β -p	-3/2 even Z
^{29}Cl	p	-5/2 odd Z
^{31}Cl	β -p	-3/2 odd Z
^{32}Cl	β -p, β - α	-1 odd Z

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^{30}Ar	2p	-3 even Z
^{31}Ar	β -p, β -2p, β -3p	-5/2 even Z
^{32}Ar	β -p	-2 even Z
^{33}Ar	β -p	-3/2 even Z
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^{35}K	β -p	-3/2 odd Z
^{36}K	β -p, β - α	-1 odd Z
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^{35}Ca	β -p, β -2p	-5/2 even Z
^{36}Ca	β -p	-2 even Z
^{37}Ca	β -p	-3/2 even Z
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^{40}Sc	β -p, β - α	-1 odd Z
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^{39}Ti	β -p, β -2p	-5/2 even Z
^{40}Ti	β -p	-2 even Z
^{41}Ti	β -p	-3/2 even Z
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^{44}V	β - α	-1 odd Z
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^{42}Cr	β -p	-3 even Z
^{43}Cr	β -p, β -2p, β -3p	-5/2 even Z
^{44}Cr	β -p	-2 even Z
^{45}Cr	β -p	-3/2 even Z
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^{46}Mn	β -p	-2 odd Z
^{47}Mn	β -p	-3/2 odd Z

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^{48}Mn	β -p	-1 odd Z
^{45}Fe	β -p, 2p	-7/2
^{46}Fe	β -p, β -2p	-3 even Z
^{47}Fe	β -p	-5/2 even Z
^{48}Fe	β -p	-2 even Z
^{49}Fe	β -p	-3/2 even Z
^{50}Co	β -p	-2 odd Z
^{53m}Co	p	-1/2 odd Z
^{48}Ni	β -p, 2p	-4
^{49}Ni	β -p	-7/2
^{50}Ni	β -p, β -2p	-3 even Z
^{51}Ni	β -p, β -2p	-5/2 even Z
^{52}Ni	β -p	-2 even Z
^{53}Ni	β -p	-3/2 even Z
^{54m}Ni	p	-1 even Z
^{56}Cu	β -p	-1 odd Z
^{54}Zn	2p	-3 even Z
^{55}Zn	β -p, β -2p	-5/2 even Z
^{56}Zn	β -p	-2 even Z
^{57}Zn	β -p	-3/2 even Z
^{58}Zn	β -p	-1 even Z
^{60}Ga	β -p	-1 odd Z

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⁵⁹ Ge	β -p	-5/2 even Z
⁶⁰ Ge	β -p	-2 even Z
⁶¹ Ge	β -p	-3/2 even Z
⁶⁵ Ge	β -p	+1/2 even Z
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⁶³ Se	β -p	-5/2 even Z
⁶⁵ Se	β -p	-3/2 even Z
⁶⁷ Se	β -p	-1/2 even Z
⁶⁹ Se	β -p	+1/2 even Z
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⁶⁸ Br	p	-1 odd Z
⁶⁹ Br	p	-1/2 odd Z
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⁶⁷ Kr	β -p, 2p	-5/2 even Z
⁶⁸ Kr	β -p	-2 even Z
⁶⁹ Kr	β -p	-3/2 even Z
⁷¹ Kr	β -p	-1/2 even Z
⁷³ Kr	β -p	+1/2 even Z
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⁷² Rb	p	-1 odd Z
⁷³ Rb	p	-1/2 odd Z
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⁷³ Sr	β -p	-3/2 even Z
⁷⁵ Sr	β -p	-1/2 even Z
⁷⁶ Sr	β -p	0 even Z
⁷⁷ Sr	β -p	+1/2 even Z
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⁸¹ Zr	β -p	+1/2 even Z

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^{83}Zr	β -p	+3/2 even Z
^{81}Nb	p	-1/2 odd Z
^{85}Mo	β -p	+1/2 even Z
^{87}Mo	β -p	+3/2 even Z
^{85}Tc	p	-1/2 odd Z
^{89}Ru	β -p	+1/2 even Z
^{89}Rh	p	-1/2 odd Z
^{90m}Rh	β -p	0 odd Z
^{91}Rh	β -p	+1/2 odd Z
^{92}Rh	β -p	+1 odd Z
^{94}Rh	β -p	+2 odd Z
^{91}Pd	β -p	-1/2 even Z
^{92}Pd	β -p	0 even Z
^{93}Pd	β -p	+1/2 even Z
^{95}Pd	β -p	+3/2 even Z
^{93}Ag	p	-1/2 odd Z
^{94}Ag	β -p, p, 2p	0 odd Z
^{95}Ag	β -p	+1/2 odd Z
^{96}Ag	β -p	+1 odd Z
^{98}Ag	β -p	+2 odd Z

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⁹⁵ Cd	β -p	-1/2 even Z
⁹⁶ Cd	β -p	0 even Z
⁹⁷ Cd	β -p	+1/2 even Z
⁹⁹ Cd	β -p	+3/2 even Z
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⁹⁷ In	β -p	-1/2 odd Z
⁹⁸ In	β -p	0 odd Z
⁹⁹ In	β -p	+1/2 odd Z
¹⁰⁰ In	β -p	+1 odd Z
¹⁰² In	β -p	+2 odd Z
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⁹⁹ Sn	β -p	-1/2 even Z
¹⁰¹ Sn	β -p	+1/2 even Z
¹⁰³ Sn	β -p	+3/2 even Z
¹⁰⁵ Sn	β -p	+5/2 even Z
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¹⁰³ Sb	p	+1/2 odd Z
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¹⁰⁵ Te	α	+1/2 even Z
¹⁰⁶ Te	α	+1 even Z
¹⁰⁷ Te	α	+3/2 even Z
¹⁰⁸ Te	β -p, α	+2 even Z
¹⁰⁹ Te	β -p, α	+5/2 even Z
¹¹⁰ Te	α	+3 even Z
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¹⁰⁴ Tc	α	0 even Z
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¹⁰⁸ I	α	+1 odd Z

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^{109}I	α, p	+3/2 odd Z
^{110}I	$\beta\text{-p}, \alpha$	+2 odd Z
^{111}I	α	+5/2 odd Z
^{112}I	$\beta\text{-p}, \alpha$	+3 odd Z
^{113}I	p	+7/2 odd Z
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^{108}Xe	α	0 even Z
^{109}Xe	α	+1/2 even Z
^{110}Xe	α	+1 even Z
^{111}Xe	α	+3/2 even Z
^{112}Xe	α	+2 even Z
^{113}Xe	$\beta\text{-p}, \beta\text{-}\alpha, \alpha$	+5/2 even Z
^{117}Xe	$\beta\text{-p}$	+9/2 even Z
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^{112}Cs	p	+1 odd Z
^{113}Cs	p	+3/2 odd Z
^{114}Cs	$\beta\text{-p}, \alpha$	+2 odd Z
^{116}Cs	$\beta\text{-p}, \alpha$	+3 odd Z
^{118}Cs	$\beta\text{-p}$	+4 odd Z
^{120}Cs	$\beta\text{-p}$	+5 odd Z
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^{114}Ba	$\beta\text{-p}, \alpha$	+1 even Z
^{116}Ba	$\beta\text{-p}$	+2 even Z
^{117}Ba	$\beta\text{-p}, \beta\text{-}\alpha$	+5/2 even Z
^{121}Ba	$\beta\text{-p}$	+9/2 even Z
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^{117}La	p	+3/2 odd Z
^{120}La	$\beta\text{-p}$	+3 odd Z
^{122}La	$\beta\text{-p}$	+4 odd Z
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^{121}Ce	β -p	+5/2 even Z
^{125}Ce	β -p	+9/2 even Z
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^{121}Pr	p	+3/2 odd Z
^{124}Pr	β -p	+3 odd Z
^{126}Pr	β -p	+4 odd Z
^{128}Pr	β -p	+5 odd Z
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^{125}Nd	β -p	+5/2 even Z
^{128}Nd	β -p	+4 even Z
^{129}Nd	β -p	+9/2 even Z
^{131}Nd	β -p	+11/2 even Z
^{144}Nd	α	+12 even Z
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^{128}Pm	β -p	+3 odd Z
^{130}Pm	β -p	+4 odd Z
^{132}Pm	β -p	+5 odd Z
^{145}Pm	α	+23/2 odd Z
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^{129}Sm	β -p	+5/2 even Z
^{133}Sm	β -p	+9/2 even Z
^{135}Sm	β -p	+11/2 even Z
^{146}Sm	α	+11 even Z
^{147}Sm	α	+23/2 even Z
^{148}Sm	α	+12 even Z
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^{130}Eu	p	+2 odd Z
^{131}Eu	p	+5/2 odd Z
^{136}Eu	β -p	+5 odd Z
^{147}Eu	α	+21/2 odd Z

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^{148}Eu	α	+11 odd Z
^{151}Eu	α	+25/2 odd Z
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^{137}Gd	β -p	+9/2 even Z
^{139}Gd	β -p	+11/2 even Z
^{141}Gd	β -p	+13/2 even Z
^{148}Gd	α	+10 even Z
^{149}Gd	α	+21/2 even Z
^{150}Gd	α	+11 even Z
^{151}Gd	α	+23/2 even Z
^{152}Gd	α	+12 even Z
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^{135}Tb	p	+5/2 odd Z
^{140}Tb	β -p	+5 odd Z
^{142}Tb	β -p	+6 odd Z
^{149}Tb	α	+19/2 odd Z
^{151}Tb	α	+21/2 odd Z
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^{141}Dy	β -p	+9/2 even Z
^{142}Dy	β -p	+5 even Z
^{143}Dy	β -p	+11/2 even Z
^{144}Dy	β -p	+6 even Z
^{145}Dy	β -p	+13/2 even Z
^{147}Dy	β -p	+15/2 even Z
^{150}Dy	α	+9 even Z
^{151}Dy	α	+19/2 even Z
^{152}Dy	α	+10 even Z
^{153}Dy	α	+21/2 even Z
^{154}Dy	α	+11 even Z
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^{140}Ho	p	+3 odd Z

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¹⁴¹ Ho	p	+7/2 odd Z
¹⁴⁴ Ho	β -p	+5 odd Z
¹⁴⁶ Ho	β -p	+6 odd Z
¹⁴⁸ Ho	β -p	+7 odd Z
¹⁵¹ Ho	α	+17/2 odd Z
¹⁵² Ho	α	+9 odd Z
¹⁵³ Ho	α	+19/2 odd Z
¹⁵⁴ Ho	α	+10 odd Z
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¹⁴⁵ Er	β -p	+9/2 even Z
¹⁴⁷ Er	β -p	+11/2 even Z
¹⁴⁸ Er	β -p	+6 even Z
¹⁴⁹ Er	β -p	+13/2 even Z
¹⁵² Er	α	+8 even Z
¹⁵³ Er	α	+17/2 even Z
¹⁵⁴ Er	α	+9 even Z
¹⁵⁵ Er	α	+19/2 even Z
¹⁵⁶ Er	α	+10 even Z
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¹⁴⁴ Tm	p	+3 odd Z
¹⁴⁵ Tm	p	+7/2 odd Z
¹⁴⁶ Tm	p	+4 odd Z
¹⁴⁷ Tm	p	+9/2 odd Z
¹⁴⁹ Tm	β -p	+11/2 odd Z
¹⁵⁰ Tm	β -p	+6 odd Z
¹⁵³ Tm	α	+15/2 odd Z
¹⁵⁴ Tm	α	+8 odd Z
¹⁵⁵ Tm	α	+17/2 odd Z
¹⁵⁶ Tm	α	+9 odd Z
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¹⁴⁹ Yb	β -p	+9/2 even Z
¹⁵¹ Yb	β -p	+11/2 even Z

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^{153}Yb	β -p	+13/2 even Z
^{154}Yb	α	+7 even Z
^{155}Yb	α	+15/2 even Z
^{156}Yb	α	+8 even Z
^{157}Yb	α	+17/2 even Z
^{158}Yb	α	+9 even Z
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^{149}Lu	p	+7/2 odd Z
^{150}Lu	p	+4 odd Z
^{151}Lu	p	+9/2 odd Z
^{152}Lu	β -p	+5 odd Z
^{154}Lu	β -p	+6 odd Z
^{155}Lu	α	+13/2 odd Z
^{156}Lu	α	+7 odd Z
^{157}Lu	α	+15/2 odd Z
^{158}Lu	α	+8 odd Z
^{159}Lu	α	+17/2 odd Z
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^{155}Hf	α	+11/2 even Z
^{156}Hf	α	+6 even Z
^{157}Hf	α	+13/2 even Z
^{158}Hf	α	+7 even Z
^{159}Hf	β -p	+15/2 even Z
^{160}Hf	α	+8 even Z
^{161}Hf	α	+17/2 even Z
^{162}Hf	α	+9 even Z
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^{155}Ta	p	+9/2 odd Z
^{156}Ta	β -p, p	+5 odd Z
^{157}Ta	α , p	+11/2 odd Z
^{158}Ta	α	+6 odd Z
^{159}Ta	α	+13/2 odd Z

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¹⁶⁰ Ta	α	+7 odd Z
¹⁶¹ Ta	α	+15/2 odd Z
¹⁶² Ta	α	+8 odd Z
¹⁶³ Ta	α	+17/2 odd Z
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¹⁵⁸ W	α	+5 even Z
¹⁵⁹ W	α	+11/2 even Z
¹⁶⁰ W	α	+6 even Z
¹⁶¹ W	α	+13/2 even Z
¹⁶² W	α	+7 even Z
¹⁶³ W	α	+15/2 even Z
¹⁶⁴ W	α	+8 even Z
¹⁶⁵ W	α	+17/2 even Z
¹⁶⁶ W	α	+9 even Z
¹⁶⁷ W	α	+19/2 even Z
¹⁶⁸ W	α	+10 even Z
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¹⁵⁹ Re	α, p	+9/2 odd Z
¹⁶⁰ Re	α, p	+5 odd Z
¹⁶¹ Re	α, p	+11/2 odd Z
¹⁶² Re	α	+6 odd Z
¹⁶³ Re	α	+13/2 odd Z
¹⁶⁴ Re	α	+7 odd Z
¹⁶⁵ Re	α	+15/2 odd Z
¹⁶⁶ Re	α	+8 odd Z
¹⁶⁷ Re	α	+17/2 odd Z
¹⁶⁸ Re	α	+9 odd Z
¹⁶⁹ Re	α	+19/2 odd Z
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¹⁶¹ Os	α	+9/2 even Z
¹⁶² Os	α	+5 even Z
¹⁶³ Os	α	+11/2 even Z

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^{164}Os	α	+6 even Z
^{165}Os	α	+13/2 even Z
^{166}Os	α	+7 even Z
^{167}Os	α	+15/2 even Z
^{168}Os	α	+8 even Z
^{169}Os	α	+17/2 even Z
^{170}Os	α	+9 even Z
^{171}Os	α	+19/2 even Z
^{172}Os	α	+10 even Z
^{173}Os	α	+21/2 even Z
^{174}Os	α	+11 even Z
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^{164}Ir	α, p	+5 odd Z
^{165}Ir	α, p	+11/2 odd Z
^{166}Ir	α	+6 odd Z
^{167}Ir	α, p	+13/2 odd Z
^{168}Ir	α	+7 odd Z
^{169}Ir	α	+15/2 odd Z
^{170}Ir	α	+8 odd Z
^{171}Ir	α	+17/2 odd Z
^{172}Ir	α	+9 odd Z
^{173}Ir	α	+19/2 odd Z
^{174}Ir	α	+10 odd Z
^{175}Ir	α	+21/2 odd Z
^{176}Ir	α	+11 odd Z
^{177}Ir	α	+23/2 odd Z
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^{165}Pt	α	+9/2 even Z
^{166}Pt	α	+5 even Z
^{167}Pt	α	+11/2 even Z
^{168}Pt	α	+6 even Z
^{169}Pt	α	+13/2 even Z
^{170}Pt	α	+7 even Z

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¹⁷¹ Pt	α	+15/2 even Z
¹⁷² Pt	α	+8 even Z
¹⁷³ Pt	α	+17/2 even Z
¹⁷⁴ Pt	α	+9 even Z
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¹⁷⁵ Pt	α	+19/2 even Z
¹⁷⁶ Pt	α	+10 even Z
¹⁷⁷ Pt	α	+21/2 even Z
¹⁷⁸ Pt	α	+11 even Z
¹⁷⁹ Pt	α	+23/2 even Z
¹⁸⁰ Pt	α	+12 even Z
¹⁸¹ Pt	α	+25/2 even Z
¹⁸² Pt	α	+13 even Z
¹⁸³ Pt	α	+27/2 even Z
¹⁸⁴ Pt	α	+14 even Z
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¹⁶⁹ Au	p	+11/2 odd Z
¹⁷⁰ Au	α	+6 odd Z
¹⁷¹ Au	α, p	+13/2 odd Z
¹⁷² Au	α	+7 odd Z
¹⁷³ Au	α	+15/2 odd Z
¹⁷⁴ Au	α	+8 odd Z
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¹⁷⁵ Au	α	+17/2 odd Z
¹⁷⁶ Au	α	+9 odd Z
¹⁷⁷ Au	α	+19/2 odd Z
¹⁷⁸ Au	α	+10 odd Z
¹⁷⁹ Au	α	+21/2 odd Z
¹⁸⁰ Au	α	+11 odd Z
¹⁸¹ Au	α	+23/2 odd Z
¹⁸² Au	α	+12 odd Z
¹⁸³ Au	α	+25/2 odd Z
¹⁸⁴ Au	α	+13 odd Z
¹⁸⁵ Au	α	+27/2 odd Z
¹⁸⁶ Au	α	+14 odd Z
¹⁸⁷ Au	α	+29/2 odd Z

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^{170}Hg	α	+5 even Z
^{171}Hg	α	+11/2 even Z
^{172}Hg	α	+6 even Z
^{173}Hg	α	+13/2 even Z
^{174}Hg	α	+7 even Z
^{175}Hg	α	+15/2 even Z
^{176}Hg	α	+8 even Z
^{177}Hg	α	+17/2 even Z
^{178}Hg	α	+9 even Z
^{179}Hg	β -p, α	+19/2 even Z
^{180}Hg	α	+10 even Z
^{181}Hg	α , β -p, β - α	+21/2 even Z
^{182}Hg	α	+11 even Z
^{183}Hg	α , β -p	+23/2 even Z
^{184}Hg	α	+12 even Z
^{185}Hg	α	+25/2 even Z
^{186}Hg	α	+13 even Z
^{187}Hg	α	+27/2 even Z
^{188}Hg	α	+14 even Z
^{176}Tl	α	+7 odd Z
^{177}Tl	α	+15/2 odd Z
^{178}Tl	α	+8 odd Z
^{179}Tl	α	+17/2 odd Z
^{180}Tl	α , β -f	+9 odd Z
^{181}Tl	α	+19/2 odd Z
^{182}Tl	α	+10 odd Z
^{183}Tl	α	+21/2 odd Z
^{184}Tl	α	+11 odd Z
^{185}Tl	α	+23/2 odd Z
^{186}Tl	α	+12 odd Z
^{187}Tl	α	+25/2 odd Z

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¹⁸⁸ Tl	α	+13 odd Z
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¹⁷⁸ Pb	α	+7 even Z
¹⁷⁹ Pb	α	+15/2 even Z
¹⁸⁰ Pb	α	+8 even Z
¹⁸¹ Pb	α	+17/2 even Z
¹⁸² Pb	α	+9 even Z
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¹⁸³ Pb	α	+19/2 even Z
¹⁸⁴ Pb	α	+10 even Z
¹⁸⁵ Pb	α	+21/2 even Z
¹⁸⁶ Pb	α	+11 even Z
¹⁸⁷ Pb	α	+23/2 even Z
¹⁸⁸ Pb	α	+12 even Z
¹⁸⁹ Pb	α	+25/2 even Z
¹⁹⁰ Pb	α	+13 even Z
¹⁹¹ Pb	α	+27/2 even Z
¹⁹² Pb	α	+14 even Z
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¹⁸⁴ Bi	α	+9 odd Z
¹⁸⁵ Bi	p, α	+17/2 odd Z
¹⁸⁶ Bi	α , β -F	+10 odd Z
¹⁸⁷ Bi	α	+21/2 odd Z
¹⁸⁸ Bi	α , β -F	+11 odd Z
¹⁸⁹ Bi	α	+23/2 odd Z
¹⁹⁰ Bi	α , β -F	+12 odd Z
¹⁹¹ Bi	α	+25/2 odd Z
¹⁹² Bi	α	+13 odd Z
¹⁹³ Bi	α	+27/2 odd Z
¹⁹⁴ Bi	α	+14 odd Z
¹⁹⁵ Bi	α	+29/2 odd Z
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¹⁸⁶ Po	α	+9 even Z

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^{187}Po	α	+19/2 even Z
^{188}Po	α	+10 even Z
^{189}Po	α	+21/2 even Z
^{190}Po	α	+11 even Z
^{191}Po	α	+23/2 even Z
^{192}Po	α	+12 even Z
^{193}Po	α	+25/2 even Z
^{194}Po	α	+13 even Z
^{195}Po	α	+27/2 even Z
^{196}Po	α	+14 even Z
^{197}Po	α	+29/2 even Z

^{191}At	α	+21/2 odd Z
^{192}At	$\alpha, \beta\text{-F}$	+11 odd Z
^{193}At	α	+23/2 odd Z
^{194}At	$\alpha, \beta\text{-F}$	+12 odd Z
^{195}At	α	+25/2 odd Z
^{196}At	$\alpha, \beta\text{-F}$	+13 odd Z
^{197}At	α	+27/2 odd Z
^{198}At	α	+14 odd Z
^{199}At	α	+29/2 odd Z

^{193}Rn	α	+21/2 even Z
^{194}Rn	α	+11 even Z
^{195}Rn	α	+23/2 even Z
^{196}Rn	α	+12 even Z
^{197}Rn	α	+25/2 even Z
^{198}Rn	α	+13 even Z
^{199}Rn	α	+27/2 even Z
^{200}Rn	α	+14 even Z
^{201}Rn	α	+29/2 even Z

Table 1: Master list of nuclides (click on T_z to open link)

¹⁹⁷ Fr	α	+23/2 odd Z
¹⁹⁸ Fr	α	+11 odd Z
¹⁹⁹ Fr	α	+25/2 odd Z
²⁰⁰ Fr	α, β -F	+13 odd Z
²⁰¹ Fr	α	+27/2 odd Z
²⁰² Fr	α	+14 odd Z
²⁰³ Fr	α	+29/2 odd Z
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²⁰¹ Ra	α	+25/2 even Z
²⁰² Ra	α	+13 even Z
²⁰³ Ra	α	+27/2 even Z
²⁰⁴ Ra	α	+14 even Z
²⁰⁵ Ra	α	+29/2 even Z
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²⁰⁴ Ac	α	+13 odd Z
²⁰⁵ Ac	α	+27/2 odd Z
²⁰⁶ Ac	α	+14 odd Z
²⁰⁷ Ac	α	+29/2 odd Z
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²⁰⁷ Th	α	+27/2 even Z
²⁰⁸ Th	α	+14 even Z
²⁰⁹ Th	α	+29/2 even Z
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²¹¹ Pa	α	+29/2 odd Z
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