

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
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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
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⁵⁰ Co	β -p	-2 odd Z
^{53m} Co	p	-1/2 odd Z
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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
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⁵⁶ Cu	β -p	-1 odd Z
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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
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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
^{174}Hf	α	+15 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

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^{159}Ta	α	+13/2 odd Z
^{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
^{180}W	α	+16 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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^{160}Os	α	+4 even 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
^{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
^{184}Os	α	+16 even Z
^{186}Os	α	+17 even Z
^{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
^{165}Pt	α	+9/2 even Z

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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
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¹⁷⁰ Pt	α	+7 even Z
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
¹⁸⁶ Pt	α	+15 even Z
¹⁹⁰ Pt	α	+17 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

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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
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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
¹⁹⁰ Hg	α	+15 even Z
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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

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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
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
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
¹⁹⁴ Pb	α	+15 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

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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
¹⁹⁶ Bi	α	+15 odd Z
¹⁹⁷ Bi	α	+31/2 odd Z
²⁰⁹ Bi	α	+43/2 odd Z

¹⁸⁶ Po	α	+9 even Z
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
¹⁹⁸ Po	α	+15 even Z
¹⁹⁹ Po	α	+31/2 even Z
²⁰⁰ Po	α	+16 even Z
²⁰¹ Po	α	+33/2 even Z
²⁰² Po	α	+17 even Z
²⁰³ Po	α	+35/2 even Z
²⁰⁴ Po	α	+18 even Z
²⁰⁵ Po	α	+37/2 even Z
²⁰⁶ Po	α	+19 even Z
²⁰⁷ Po	α	+39/2 even Z
²⁰⁸ Po	α	+20 even Z
²⁰⁹ Po	α	+41/2 even Z
²¹⁰ Po	α	+21 even Z

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

²¹¹ Po	α	+43/2 even Z
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¹⁹¹ At	α	+21/2 odd Z
¹⁹² At	α, β -F	+11 odd Z
¹⁹³ At	α	+23/2 odd Z
¹⁹⁴ At	α, β -F	+12 odd Z
¹⁹⁵ At	α	+25/2 odd Z
¹⁹⁶ At	α, β -F	+13 odd Z
¹⁹⁷ At	α	+27/2 odd Z
¹⁹⁸ At	α	+14 odd Z
¹⁹⁹ At	α	+29/2 odd Z
²⁰⁰ At	α	+15 odd Z
²⁰¹ At	α	+31/2 odd Z
²⁰² At	α	+16 odd Z
²⁰³ At	α	+33/2 odd Z
²⁰⁴ At	α	+17 odd Z
²⁰⁵ At	α	+35/2 odd Z
²⁰⁶ At	α	+18 odd Z
²⁰⁷ At	α	+37/2 odd Z
²⁰⁸ At	α	+19 odd Z
²⁰⁹ At	α	+39/2 odd Z
²¹⁰ At	α	+20 odd Z
²¹¹ At	α	+41/2 odd Z
²¹² At	α	+21 odd Z
²¹³ At	α	+43/2 odd Z
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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

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

^{200}Rn	α	+14 even Z
^{201}Rn	α	+29/2 even Z
^{202}Rn	α	+15 even Z
^{203}Rn	α	+31/2 even Z
^{204}Rn	α	+16 even Z
^{205}Rn	α	+33/2 even Z
^{206}Rn	α	+17 even Z
^{207}Rn	α	+35/2 even Z
^{208}Rn	α	+18 even Z
^{209}Rn	α	+37/2 even Z
^{210}Rn	α	+19 even Z
^{211}Rn	α	+37/2 even Z
^{212}Rn	α	+20 even Z
^{213}Rn	α	+41/2 even Z
^{214}Rn	α	+21 even Z
^{215}Rn	α	+43/2 even Z

^{197}Fr	α	+23/2 odd Z
^{198}Fr	α	+11 odd Z
^{199}Fr	α	+25/2 odd Z
^{200}Fr	$\alpha, \beta\text{-F}$	+13 odd Z
^{201}Fr	α	+27/2 odd Z
^{202}Fr	α	+14 odd Z
^{203}Fr	α	+29/2 odd Z
^{204}Fr	α	+15 odd Z
^{205}Fr	α	+31/2 odd Z
^{206}Fr	α	+16 odd Z
^{207}Fr	α	+33/2 odd Z
^{208}Fr	α	+17 odd Z
^{209}Fr	α	+35/2 odd Z
^{210}Fr	α	+18 odd Z
^{211}Fr	α	+37/2 odd Z
^{212}Fr	α	+19 odd Z
^{213}Fr	α	+39/2 odd Z
^{214}Fr	α	+20 odd Z

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

^{215}Fr	α	+41/2 odd Z
^{216}Fr	α	+21 odd Z
^{217}Fr	α	+43/2 odd Z

^{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
^{206}Ra	α	+15 even Z
^{207}Ra	α	+31/2 even Z
^{208}Ra	α	+16 even Z
^{209}Ra	α	+33/2 even Z
^{210}Ra	α	+17 even Z
^{211}Ra	α	+35/2 even Z
^{212}Ra	α	+18 even Z
^{213}Ra	α	+37/2 even Z
^{214}Ra	α	+19 even Z
^{215}Ra	α	+37/2 even Z
^{216}Ra	α	+20 even Z
^{217}Ra	α	+41/2 even Z
^{218}Ra	α	+21 even Z
^{219}Ra	α	+43/2 even Z

^{203}Ac	α	+25/2 odd Z
^{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
^{208}Ac	α	+15 odd Z
^{209}Ac	α	+31/2 odd Z
^{210}Ac	α	+16 odd Z
^{211}Ac	α	+33/2 odd Z

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

^{212}Ac	α	+17 odd Z
^{213}Ac	α	+35/2 odd Z
^{214}Ac	α	+18 odd Z
^{215}Ac	α	+37/2 odd Z
^{216}Ac	α	+19 odd Z
^{217}Ac	α	+39/2 odd Z
^{218}Ac	α	+20 odd Z
^{219}Ac	α	+41/2 odd Z
^{220}Ac	α	+21 odd Z
^{221}Ac	α	+43/2 odd Z

^{207}Th	α	+27/2 even Z
^{208}Th	α	+14 even Z
^{209}Th	α	+29/2 even Z
^{210}Th	α	+15 even Z
^{211}Th	α	+31/2 even Z
^{212}Th	α	+16 even Z
^{213}Th	α	+33/2 even Z
^{214}Th	α	+17 even Z
^{215}Th	α	+35/2 even Z
^{216}Th	α	+18 even Z
^{217}Th	α	+37/2 even Z
^{218}Th	α	+19 even Z
^{219}Th	α	+37/2 even Z
^{220}Th	α	+20 even Z
^{221}Th	α	+41/2 even Z
^{222}Th	α	+21 even Z
^{223}Th	α	+43/2 even Z

^{211}Pa	α	+29/2 odd Z
^{212}Pa	α	+15 odd Z
^{213}Pa	α	+31/2 odd Z
^{214}Pa	α	+16 odd Z

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

²¹⁵ Pa	α	+33/2 odd Z
²¹⁶ Pa	α	+17 odd Z
²¹⁷ Pa	α	+35/2 odd Z
²¹⁸ Pa	α	+18 odd Z
²¹⁹ Pa	α	+37/2 odd Z
²²⁰ Pa	α	+19 odd Z
²²¹ Pa	α	+39/2 odd Z
²²² Pa	α	+20 odd Z
²²³ Pa	α	+41/2 odd Z
²²⁴ Pa	α	+21 odd Z
²²⁵ Pa	α	+43/2 odd Z

²¹⁴ U	α	+15 even Z
²¹⁵ U	α	+31/2 even Z
²¹⁶ U	α	+16 even Z
²¹⁷ U	α	+33/2 even Z
²¹⁸ U	α	+17 even Z
²¹⁹ U	α	+35/2 even Z
²²¹ U	α	+37/2 even Z
²²² U	α	+19 even Z
²²³ U	α	+37/2 even Z
²²⁴ U	α	+20 even Z
²²⁵ U	α	+341/2 even Z
²²⁶ U	α	+21 even Z
²²⁷ U	α	+43/2 even Z

²¹⁹ Np	α	+33/2 odd Z
²²⁰ Np	α	+17 odd Z
²²² Np	α	+18 odd Z
²²³ Np	α	+37/2 odd Z
²²⁴ Np	α	+19 odd Z
²²⁵ Np	α	+39/2 odd Z
²²⁶ Np	α	+20 odd Z

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

^{227}Np	α	+41/2 odd Z
^{228}Np	α, β_F	+21 odd Z
^{229}Np	α	+43/2 odd Z
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^{228}Pu	α	+20 even Z
^{229}Pu	α	+41/2 even Z
^{230}Pu	α	+21 even Z
^{231}Pu	α	+43/2 even Z
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^{223}Am	α	+33/2 odd Z
^{229}Am	α	+39/2 odd Z
^{230}Am	β_F, α	+20 odd Z
^{232}Am	β_F	+21 odd Z
^{233}Am	α	+43/2 odd Z
<hr/>		
^{233}Cm	α	+41/2 even Z
^{234}Cm	α, SF	+21 even Z
^{235}Cm	α	+43/2 even Z
<hr/>		
^{233}Bk	α	+39/2 odd Z
^{236}Bk	α, β_F	+21 odd Z
<hr/>		
^{237}Cf	α, SF	+41/2 even Z
^{238}Cf	α, SF	+21 even Z
^{239}Cf	α	+43/2 even Z
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^{240}Es	α, β_F	+21 odd Z
^{241}Es	α	+43/2 odd Z

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

^{241}Fm	SF	+41/2 even Z
^{243}Fm	α , SF	+43/2 even Z
^{244}Md	α	+21 odd Z
^{245}Md	α , SF	+43/2 odd Z