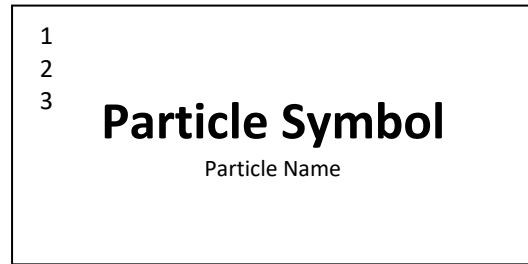


STANDARD MODEL OF ELEMENTARY PARTICLES (D4)

Elementary Fermions			Elementary Antifermions		
Quarks			Leptons		
I	II	III	I	II	III
$\approx 2.2 \text{ MeV}/c^2$ $\frac{2}{3}$ $-\frac{1}{2}$ u Up	$\approx 1.28 \text{ GeV}/c^2$ $\frac{2}{3}$ $-\frac{1}{2}$ c Charm	$\approx 173.1 \text{ GeV}/c^2$ $\frac{2}{3}$ $-\frac{1}{2}$ t Top	$\approx 2.2 \text{ MeV}/c^2$ $-\frac{2}{3}$ $\frac{1}{2}$ \bar{u} Antiup	$\approx 1.28 \text{ GeV}/c^2$ $-\frac{2}{3}$ $\frac{1}{2}$ \bar{c} Anticharm	$\approx 173.1 \text{ GeV}/c^2$ $-\frac{2}{3}$ $\frac{1}{2}$ \bar{t} Antitop
$\approx 4.7 \text{ MeV}/c^2$ $-\frac{1}{3}$ $\frac{1}{2}$ d Down	$\approx 96 \text{ MeV}/c^2$ $-\frac{1}{3}$ $\frac{1}{2}$ s Strange	$\approx 4.18 \text{ GeV}/c^2$ $-\frac{1}{3}$ $\frac{1}{2}$ b Bottom	$\approx 4.7 \text{ MeV}/c^2$ $\frac{1}{3}$ $\frac{1}{2}$ \bar{d} Antidown	$\approx 96 \text{ MeV}/c^2$ $\frac{1}{3}$ $\frac{1}{2}$ \bar{s} Antistrange	$\approx 4.18 \text{ GeV}/c^2$ $\frac{1}{3}$ $\frac{1}{2}$ \bar{b} Antibottom

Elementary Bosons			Scalar Bosons		
Gauge Bosons			Bosons		
0 0 0 1	g Gluon	0 0 0 1	$\approx 124.97 \text{ GeV}/c^2$ 0 0 0 0	H Higgs	
0 0 0 1	γ Photon	0 0 0 1	$\approx 91.19 \text{ GeV}/c^2$ 0 0 0 1	Z Z ⁰ Boson	
1 1 1 1	W⁺ W ⁺ Boson	1 1 1 1	$\approx 80.39 \text{ GeV}/c^2$ 1 1 1 1	W⁻ W ⁻ Boson	
0 0 0 1		0 0 0 1	$\approx 80.39 \text{ GeV}/c^2$ 0 0 0 1		

Key:*Elementary Particle Representation:*

- 1** Invariant Mass
- 2** Electric Charge
- 3** Spin

Sources:

- Invariant Mass, **1**^[citation needed]
- Electric Charge, **2**^[citation needed]
- Spin, **3**^[citation needed]
- Particle Symbol^[citation needed]
- Particle Name^[citation needed]