

Three Generations of Matter (Fermions) spin $\frac{1}{2}$

	I	II	III
mass →	2.4 MeV	1.27 GeV	171.2 GeV
charge →	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$
name →	Left u Right up	Left c Right charm	Left t Right top
Quarks	4.8 MeV $-\frac{1}{3}$ Left d Right down	104 MeV $-\frac{1}{3}$ Left s Right strange	4.2 GeV $-\frac{1}{3}$ Left b Right bottom
	0 ν_e N_1 Left electron neutrino Right sterile neutrino	0 ν_μ N_2 Left muon neutrino Right sterile neutrino	0 ν_τ N_3 Left tau neutrino Right sterile neutrino
	0.511 MeV -1 Left e Right electron	105.7 MeV -1 Left μ Right muon	1.777 GeV -1 Left τ Right tau
Leptons			

Bosons (Forces) spin 1

0 0 g gluon
0 0 γ photon
91.2 GeV 0 Z^0 weak force
80.4 GeV ± 1 W^\pm weak force

$> 114 \text{ GeV}$ 0 0 H Higgs boson
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spin 0