

Fermions ($s = \frac{1}{2}$)Bosons ($s = 1$)Higgs ($s = 0$)

I

II

III

Quarks

$+\frac{2}{3}$	2.3 MeV	$+\frac{2}{3}$	1.275 GeV	$+\frac{2}{3}$	173.07 GeV
u		c		t	
Up		Charm		Top	

$-\frac{1}{3}$	4.8 MeV	$-\frac{1}{3}$	95 MeV	$-\frac{1}{3}$	4.18 GeV
d		s		b	
Down		Strange		Bottom	

-1	0.511 MeV	-1	105.7 MeV	-1	1.777 GeV
e		μ		τ	
Electron		Muon		Tau	

0	< 2.2 eV	0	< 0.17 MeV	0	15.5 MeV
ν_e		ν_μ		ν_τ	
Electron Neutrino		Muon Neutrino		Tau Neutrino	

0	0 MeV
γ	
Photon (EM)	

± 1	80.4 GeV
W^\pm	
W boson (Weak)	

0	91.2 GeV
Z^0	
Z boson (Weak)	

0	0 MeV
g	
Gluon (Strong)	

0	126.07 GeV
H^0	
Higgs boson	

Leptons

q	mass
symbol	
name (force)	