

Quarks

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

I

II

III

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

0	0 MeV
$\gamma$	
Photon (EM)	

0	126.07 GeV
$H^0$	
Higgs boson	

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

$\pm 1$	80.4 GeV
$W^\pm$	
W boson (Weak)	

Leptons

-1	0.511 MeV	-1	105.7 MeV	-1	1.777 GeV
$e$		$\mu$		$\tau$	
Electron		Muon		Tau	

0	91.2 GeV
$Z$	
Z boson (Weak)	

0	< 2.2 eV	0	< 0.17 MeV	0	15.5 MeV
$\nu_e$		$\nu_\mu$		$\nu_\tau$	
Electron Neutrino		Muon Neutrino		Tau Neutrino	

0	0 MeV
$g$	
Gluon (Strong)	

<b>q</b>	mass
<b>symbol</b>	
name (force)	