

Standard Model of Elementary Particles

Type	Particle	Symbol	Mass	Charge	Spin
Quarks	Up	u	2.16 MeV/c ²	+2/3	1/2
	Charm	c	1.27 GeV/c ²	+2/3	1/2
	Top	t	173 GeV/c ²	+2/3	1/2
	Down	d	4.7 MeV/c ²	-1/3	1/2
	Strange	s	96 MeV/c ²	-1/3	1/2
	Bottom	b	4.18 GeV/c ²	-1/3	1/2
Leptons	Electron	e	0.511 MeV/c ²	-1	1/2
	Muon	μ	105.7 MeV/c ²	-1	1/2
	Tau	τ	1777 MeV/c ²	-1	1/2
	Electron Neutrino	ν _e	< 2.2 eV/c ²	0	1/2
	Muon Neutrino	ν _μ	< 0.17 MeV/c ²	0	1/2
	Tau Neutrino	ν _τ	< 15.5 MeV/c ²	0	1/2
Bosons	Photon	γ	0	0	1
	W Boson	W	80.38 GeV/c ²	±1	1
	Z Boson	Z	91.19 GeV/c ²	0	1
	Gluon	g	0	0	1
	Higgs Boson	H	125.1 GeV/c ²	0	0