



















Standard Model of Elementary Particles

Fermions						Bosons			
1st generation		2nd generation		3rd generation		Gauge bosons		Scalar bosons	Tensor bosons
QUARKS	mass charge spin 2.2 MeV/c ² 2/3 1/2 <div></div> up	1.28 GeV/c ² 2/3 1/2 <div></div> charm	173.1 GeV/c ² 2/3 1/2 <div></div> top					124.97 GeV/c ² 0 0 0 <div></div> higgs	0 0 0 2 <div></div> graviton*
	4.7 MeV/c ² -1/3 1/2 <div></div> down	96 MeV/c ² -1/3 1/2 <div></div> strange	4.18 GeV/c ² -1/3 1/2 <div></div> bottom			0 0 1 <div></div> gluon			
	2.2 MeV/c ² 2/3 1/2 <div></div> electron	1.28 GeV/c ² 2/3 1/2 <div></div> muon	173.1 GeV/c ² 2/3 1/2 <div></div> tau			0 0 1 <div></div> photon			
LEPTONS	4.7 MeV/c ² -1/3 1/2 <div></div> electron neutrino	96 MeV/c ² -1/3 1/2 <div></div> muon neutrino	4.18 GeV/c ² -1/3 1/2 <div></div> tau neutrino			80.39 MeV/c ² ±1 1 <div></div> W boson	91.19 GeV/c ² 0 1 <div></div> Z boson		

strong nuclear force (color)

electromagnetic force (charge)

weak nuclear force (weak isospin)

gravitational force (mass)

*hypothetical

*hypothetical