


















QUARKS	mass → $\approx 2.3 \text{ MeV}/c^2$ charge → $2/3$ spin → $1/2$  up	mass → $\approx 1.275 \text{ GeV}/c^2$ charge → $2/3$ spin → $1/2$  charm	mass → $\approx 173.07 \text{ GeV}/c^2$ charge → $2/3$ spin → $1/2$  top	0 0 1  gluon	mass → $\approx 126 \text{ GeV}/c^2$ 0 0 0  Higgs boson
	mass → $\approx 4.8 \text{ MeV}/c^2$ charge → $-1/3$ spin → $1/2$  down	mass → $\approx 95 \text{ MeV}/c^2$ charge → $-1/3$ spin → $1/2$  strange	mass → $\approx 4.18 \text{ GeV}/c^2$ charge → $-1/3$ spin → $1/2$  bottom	0 0 1  photon	
	mass → $0.511 \text{ MeV}/c^2$ charge → $-1$ spin → $1/2$  electron	mass → $105.7 \text{ MeV}/c^2$ charge → $-1$ spin → $1/2$  muon	mass → $1.777 \text{ GeV}/c^2$ charge → $-1$ spin → $1/2$  tau	mass → $91.2 \text{ GeV}/c^2$ 0 1  Z boson	GAUGE BOSONS
	mass → $< 2.2 \text{ eV}/c^2$ 0 $1/2$  electron neutrino	mass → $< 0.17 \text{ MeV}/c^2$ 0 $1/2$  muon neutrino	mass → $< 15.5 \text{ MeV}/c^2$ 0 $1/2$  tau neutrino	mass → $80.4 \text{ GeV}/c^2$ $\pm 1$ 1  W boson	