

QUARKS

$+\frac{2}{3}$

u

up

c

charm

t

top

$-\frac{1}{3}$

d

down

s

strange

b

bottom

-1

e

electron

μ

muon

τ

tau

0

ν_e

electron
neutrino

ν_μ

muon
neutrino

ν_τ

tau
neutrino

LEPTONS

0

g

gluon

0

H

Higgs
boson

0

γ

photon

0

Z

Z boson

GAUGE BOSONS

± 1

W

W boson