

masse → $\approx 2.3 \text{ MeV}/c^2$
 charge → $2/3$
 spin → $1/2$

u
up

masse → $\approx 1.275 \text{ GeV}/c^2$
 charge → $2/3$
 spin → $1/2$

c
charm

masse → $\approx 173.07 \text{ GeV}/c^2$
 charge → $2/3$
 spin → $1/2$

t
top

QUARKS

masse → $\approx 4.8 \text{ MeV}/c^2$
 charge → $-1/3$
 spin → $1/2$

d
down

masse → $\approx 95 \text{ MeV}/c^2$
 charge → $-1/3$
 spin → $1/2$

s
strange

masse → $\approx 4.18 \text{ GeV}/c^2$
 charge → $-1/3$
 spin → $1/2$

b
bottom

masse → $0.511 \text{ MeV}/c^2$
 charge → -1
 spin → $1/2$

e
electron

masse → $105.7 \text{ MeV}/c^2$
 charge → -1
 spin → $1/2$

μ
muon

masse → $1.777 \text{ GeV}/c^2$
 charge → -1
 spin → $1/2$

τ
tau

LEPTONS

masse → $< 2.2 \text{ eV}/c^2$
 charge → 0
 spin → $1/2$

ν_e
electron neutrino

masse → $< 0.17 \text{ MeV}/c^2$
 charge → 0
 spin → $1/2$

ν_μ
muon neutrino

masse → $< 15.5 \text{ MeV}/c^2$
 charge → 0
 spin → $1/2$

ν_τ
tau neutrino

masse → $\approx 2.3 \text{ MeV}/c^2$
 charge → $-2/3$
 spin → $1/2$

ū
ū

masse → $\approx 1.275 \text{ GeV}/c^2$
 charge → $-2/3$
 spin → $1/2$

c̄
c̄

masse → $\approx 173.07 \text{ GeV}/c^2$
 charge → $-2/3$
 spin → $1/2$

t̄
t̄

masse → $\approx 4.8 \text{ MeV}/c^2$
 charge → $+1/3$
 spin → $1/2$

d̄
d̄

masse → $\approx 95 \text{ MeV}/c^2$
 charge → $+1/3$
 spin → $1/2$

s̄
s̄

masse → $\approx 4.18 \text{ GeV}/c^2$
 charge → $+1/3$
 spin → $1/2$

b̄
b̄

masse → $0.511 \text{ MeV}/c^2$
 charge → $+1$
 spin → $1/2$

ē
ē

masse → $105.7 \text{ MeV}/c^2$
 charge → $+1$
 spin → $1/2$

μ̄
μ̄

masse → $1.777 \text{ GeV}/c^2$
 charge → $+1$
 spin → $1/2$

τ̄
τ̄