

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

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

\bar{u}

\bar{u}

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

\bar{c}

$\bar{\text{charm}}$

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

\bar{t}

$\bar{\text{top}}$

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

\bar{d}

$\bar{\text{down}}$

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

\bar{s}

$\bar{\text{strange}}$

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

\bar{b}

$\bar{\text{bottom}}$

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

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

\bar{e}

$\bar{\text{electron}}$

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

$\bar{\mu}$

$\bar{\text{muon}}$

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

$\bar{\tau}$

$\bar{\text{tau}}$

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