

Kaon (K^+) (20 Points)

Strange Quark

Electric Charge: $-1/3$
Spin: $1/2$
Mass: 93.5 MeV
Mean Lifetime: 10 nanoseconds

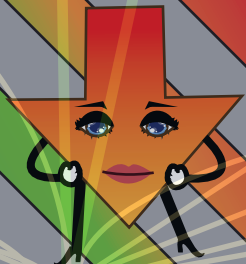
Colour Charge: Yes
Baryon Number: $1/3$
2nd generation (2 points)



Anti-Down Quark

Electric Charge: $+1/3$
Spin: $1/2$
Mass: 4.7 MeV
Mean Lifetime: Stable

Colour Charge: Yes
Baryon Number: $-1/3$
1st generation (1 point)

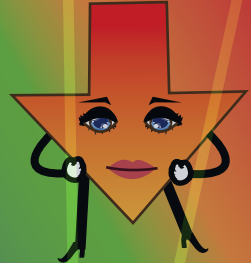


Kaon (K^-) (18 Points)

Down Quark

Electric Charge: $-1/3$
Spin: $1/2$
Mass: 4.7 MeV
Mean Lifetime: Stable

Colour Charge: Yes
Baryon Number: $1/3$
1st generation (1 point)



Anti-Strange Quark

Electric Charge: $+1/3$
Spin: $1/2$
Mass: 93.5 MeV
Mean Lifetime: 10 nanoseconds

Colour Charge: Yes
Baryon Number: $-1/3$
2nd generation (2 points)



Electric Charge: $+1$
Spin: 0
Mass: 494 MeV
Mean Lifetime: 1.24×10^{-8} s

Charged Kaons were discovered in cosmic rays in 1947. Their discovery was essential to the development of the standard model of physics: in particular the quark model and the theory of quark mixing.

Kaons also played a key role in understanding CP violation.

Electric Charge: -1
Spin: 0
Mass: 494 MeV
Mean Lifetime: 1.24×10^{-8} s

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Particle Builder

Target Card

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