

FERMION

ANTIQUARK

up antiquark



$\bar{u}$

 ICECUBE SOUTH POLE NEUTRINO OBSERVATORY

FERMION

ANTIQUARK

down antiquark



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 ICECUBE SOUTH POLE NEUTRINO OBSERVATORY

FERMION

ANTIQUARK

charm antiquark



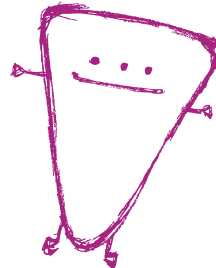
$\bar{c}$

 ICECUBE SOUTH POLE NEUTRINO OBSERVATORY

FERMION

ANTIQUARK

strange antiquark



$\bar{s}$

 ICECUBE SOUTH POLE NEUTRINO OBSERVATORY

FERMION

ANTIQUARK

top antiquark



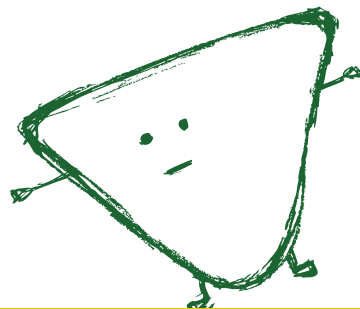
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 ICECUBE SOUTH POLE NEUTRINO OBSERVATORY

FERMION

ANTIQUARK

bottom antiquark



$\bar{b}$

 ICECUBE SOUTH POLE NEUTRINO OBSERVATORY

SPIN = 1/2

## Properties

mass= 4.8 MeV  
charge= +1/3  
flavor = yes  
color = yes

interaction?

SPIN = 1/2

## Properties

mass= 2.3 MeV  
charge= - 2/3  
flavor = yes  
color = yes

interaction?

SPIN = 1/2

## Properties

mass= 95 MeV  
charge= +1/3  
flavor = yes  
color = yes

interaction?

SPIN = 1/2

## Properties

mass= 1.29 GeV  
charge= -2/3  
flavor = yes  
color = yes

interaction?

SPIN = 1/2

## Properties

mass= 4.18 GeV  
charge= +1/3  
flavor = yes  
color =yes

interaction?

SPIN = 1/2

## Properties

mass= 173.34 GeV  
charge= -2/3  
flavor = yes  
color = yes

interaction?