

Up Plume



$m = 0,002 \text{ GeV}$ $q = +2/3$
stable

Up Plume



$m = 0,002 \text{ GeV}$ $q = +2/3$
stable

Up Plume



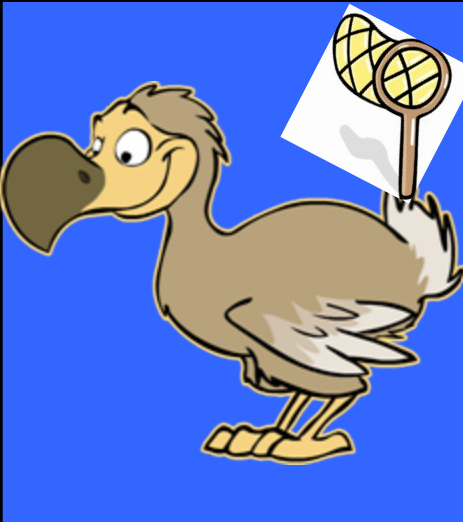
$m = 0,002 \text{ GeV}$ $q = +2/3$
stable

Électron Plume



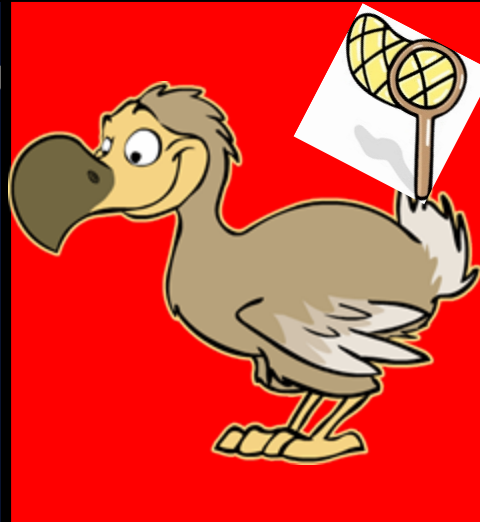
$m = 0,000548579909 \text{ GeV}$ $q = -1$
stable

Down Plume



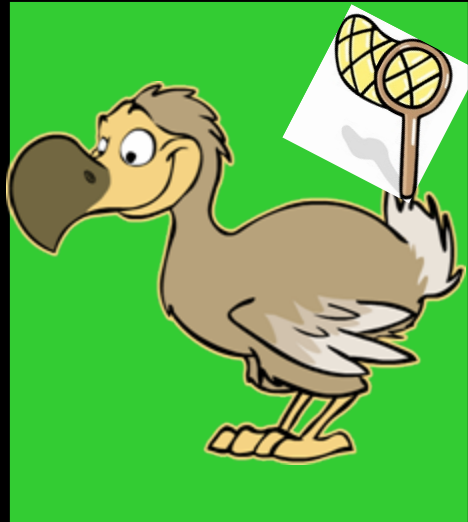
$m = 0,005 \text{ GeV}$ $q = -1/3$
 $\tau \sim 10 \text{ mn}$

Down Plume



$m = 0,005 \text{ GeV}$ $q = -1/3$
 $\tau \sim 10 \text{ mn}$

Down Plume



$m = 0,005 \text{ GeV}$ $q = -1/3$
 $\tau \sim 10 \text{ mn}$

ν_e Plume



$0 < m < 2 \cdot 10^{-10} \text{ GeV}$ $q = 0$
stable(?)

Charm Adams



$m = 1,3 \text{ GeV}$ $q = +2/3$
 $\tau \sim 1 \text{ ps}$

Charm Adams



$m = 1,3 \text{ GeV}$ $q = +2/3$
 $\tau \sim 1 \text{ ps}$

Charm Adams



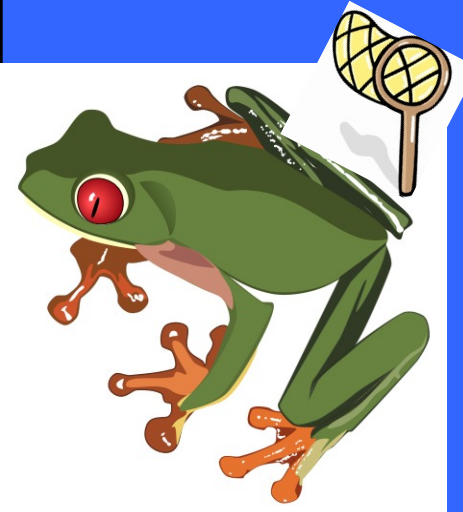
$m = 1,3 \text{ GeV}$ $q = +2/3$
 $\tau \sim 1 \text{ ps}$

Muon Adams



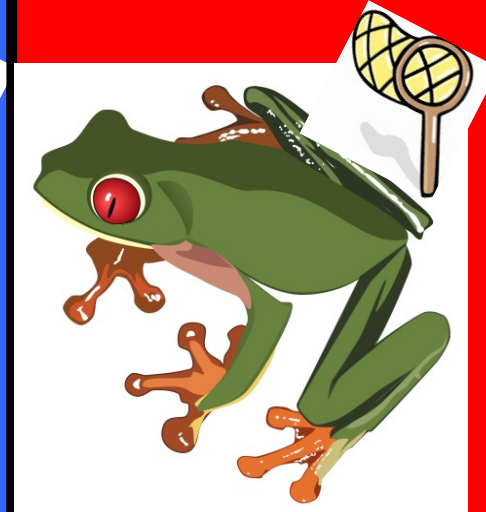
$m = 0,10565837 \text{ GeV}$ $q = -1$
 $\tau \sim 2,1970 \cdot 10^3 \text{ ns}$

Étrange Adams



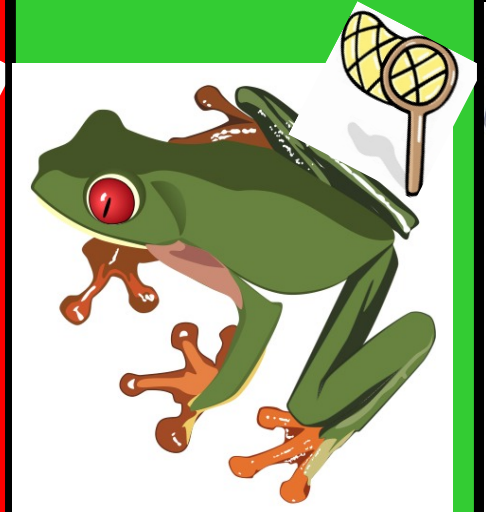
$m = 0,1 \text{ GeV}$ $q = -1/3$
 $\tau \sim 0,1 \text{ ns}$

Étrange Adams



$m = 0,1 \text{ GeV}$ $q = -1/3$
 $\tau \sim 0,1 \text{ ns}$

Étrange Adams



$m = 0,1 \text{ GeV}$ $q = -1/3$
 $\tau \sim 0,1 \text{ ns}$

ν_μ Adams



$0 < m < 2 \cdot 10^{-10} \text{ GeV}$ $q = 0$
stable(?)

Top Sumo



Top Sumo



Top Sumo



Tau Sumo



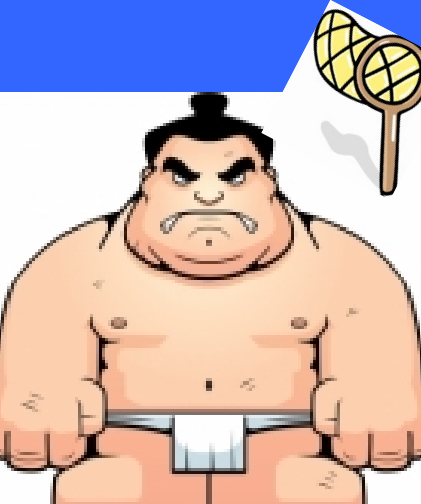
$m = 171 \text{ GeV}$ $q = +2/3$
 $\tau \sim 10^{-10} \text{ ps}$

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 $\tau \sim 10^{-10} \text{ ps}$


$m = 171 \text{ GeV}$ $q = +2/3$
 $\tau \sim 10^{-10} \text{ ps}$

$m = 1,7768 \text{ GeV}$ $q = -1$
 $\tau \sim 0,3 \cdot 10^{-3} \text{ ns}$

Beauté Sumo



Beauté Sumo



Beauté Sumo



ν_τ Sumo



$m = 4,2 \text{ GeV}$ $q = -1/3$
 $\tau \sim 1,5 \text{ ps}$

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 $\tau \sim 1,5 \text{ ps}$

$m = 4,2 \text{ GeV}$ $q = -1/3$
 $\tau \sim 1,5 \text{ ps}$

$0 < m < 2 \cdot 10^{-10} \text{ GeV}$ $q = 0$
 stable(?)

W⁺ Boson

$m = 80,4 \text{ GeV}$ $q = +1$
 $\tau \sim 2 \times 10^{-15} \text{ ns}$

W⁻ Boson

$m = 80,4 \text{ GeV}$ $q = -1$
 $\tau \sim 2 \times 10^{-15} \text{ ns}$

Z⁰ Boson

$m = 91,188 \text{ GeV}$ $q = 0$
 $\tau \sim 2 \times 10^{-15} \text{ ns}$

Z⁰ Boson

$m = 91,188 \text{ GeV}$ $q = 0$
 $\tau \sim 2 \times 10^{-15} \text{ ns}$

γ Boson

$m = 0$ $q = 0$
stable

γ Boson

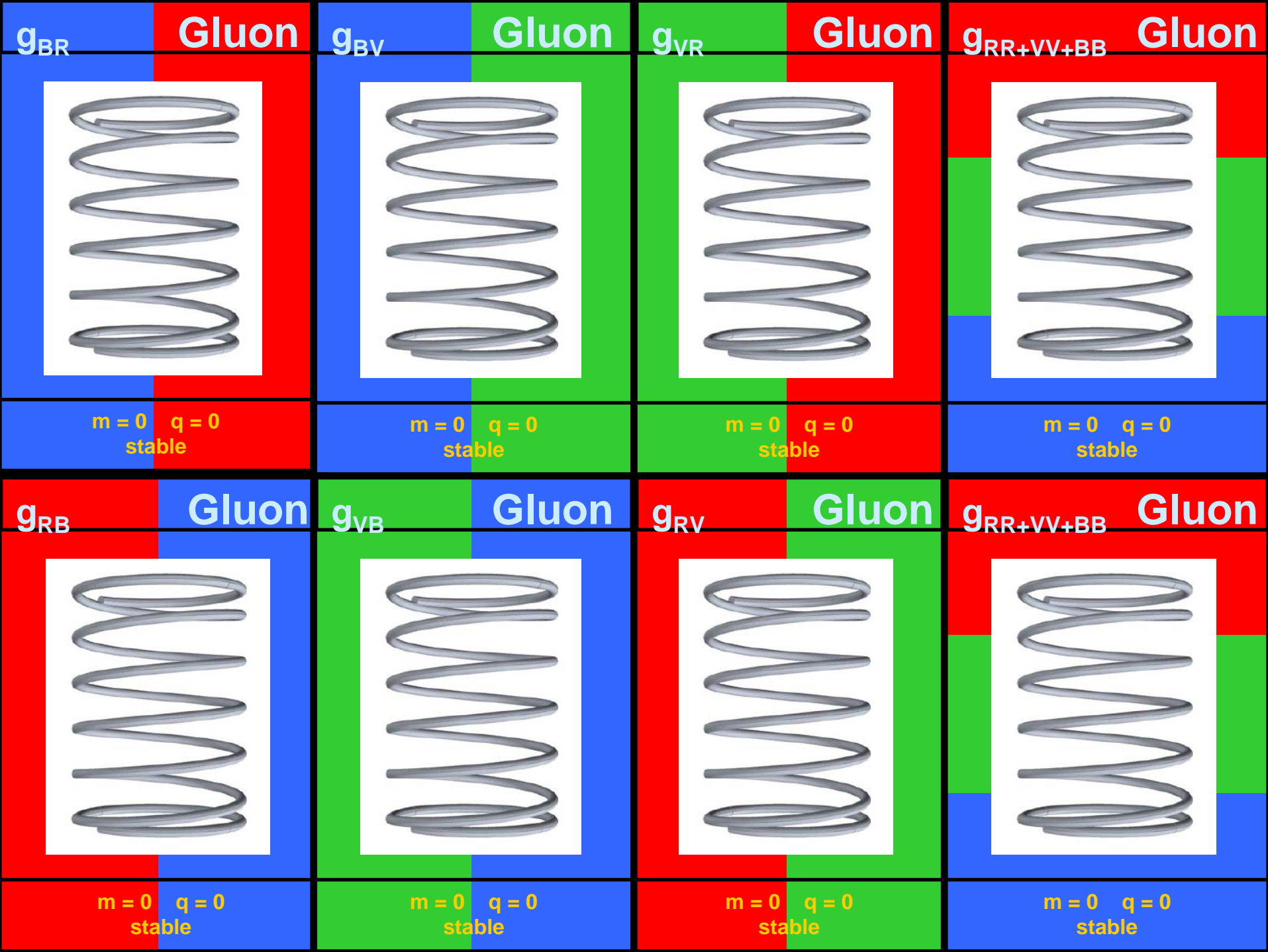
$m = 0$ $q = 0$
stable

γ Boson

$m = 0$ $q = 0$
stable

H⁰ Boson

$m = 200(?) \text{ GeV}$ $q = 0$
instable



Anti-up Meplu



$m = 0,002 \text{ GeV}$ $q = -2/3$
stable

Anti-up Meplu



$m = 0,002 \text{ GeV}$ $q = -2/3$
stable

Anti-up Meplu



$m = 0,002 \text{ GeV}$ $q = -2/3$
stable

Anti-électron Meplu



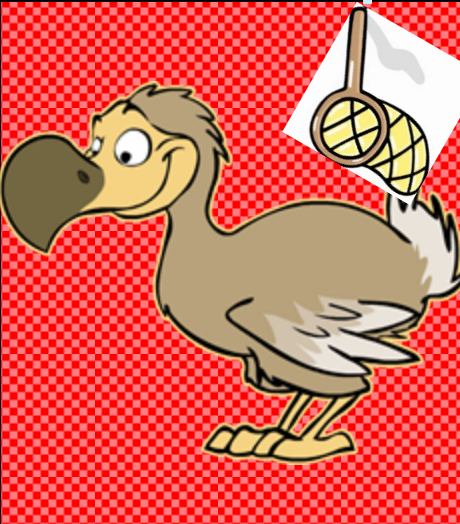
$m = 0,000548579909 \text{ GeV}$ $q = +1$
stable

Anti-down Meplu



$m = 0,005 \text{ GeV}$ $q = +1/3$
 $\tau \sim 10 \text{ mn}$

Anti-down Meplu



$m = 0,005 \text{ GeV}$ $q = +1/3$
 $\tau \sim 10 \text{ mn}$

Anti-down Meplu



$m = 0,005 \text{ GeV}$ $q = +1/3$
 $\tau \sim 10 \text{ mn}$

Anti- ν_e Meplu



$0 < m < 2 \cdot 10^{-10} \text{ GeV}$ $q = 0$
stable(?)

Anti-charm Smada



$m = 1,3 \text{ GeV}$ $q = -2/3$
 $\tau \sim 1 \text{ ps}$

Anti-charm Smada



$m = 1,3 \text{ GeV}$ $q = -2/3$
 $\tau \sim 1 \text{ ps}$

Anti-charm Smada



$m = 1,3 \text{ GeV}$ $q = -2/3$
 $\tau \sim 1 \text{ ps}$

Anti-muon Smada



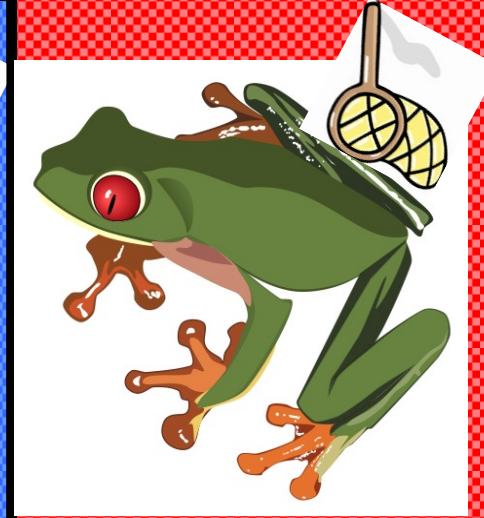
$m = 0,10565837 \text{ GeV}$ $q = +1$
 $\tau \sim 2,1970 \cdot 10^3 \text{ ns}$

Anti-étrange Smada



$m = 0,1 \text{ GeV}$ $q = +1/3$
 $\tau \sim 0,1 \text{ ns}$

Anti-étrange Smada



$m = 0,1 \text{ GeV}$ $q = +1/3$
 $\tau \sim 0,1 \text{ ns}$

Anti-étrange Smada



$m = 0,1 \text{ GeV}$ $q = +1/3$
 $\tau \sim 0,1 \text{ ns}$

Anti-ν Smada



$0 < m < 2 \cdot 10^{-10} \text{ GeV}$ $q = 0$
stable(?)

Anti-top Omus

Anti-top Omus

Anti-top Omus

Anti-tau Omus

$m = 171 \text{ GeV}$ $q = -2/3$
 $\tau \sim 10^{-10} \text{ ps}$

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 $\tau \sim 10^{-10} \text{ ps}$

$m = 171 \text{ GeV}$ $q = -2/3$
 $\tau \sim 10^{-10} \text{ ps}$

$m = 1,7768 \text{ GeV}$ $q = +1$
 $\tau \sim 0,3 \cdot 10^{-3} \text{ ns}$

Anti-beauté Omus

Anti-beauté Omus

Anti-beauté Omus

Anti-ν Omus

$m = 4,2 \text{ GeV}$ $q = +1/3$
 $\tau \sim 1,5 \text{ ps}$

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$0 < m < 2 \cdot 10^{-10} \text{ GeV}$ $q = 0$
 stable(?)