Quarks

Leptons

Bosons

Photon

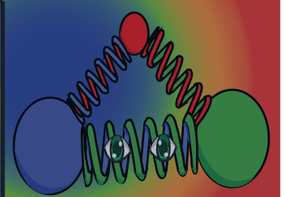
Electric Charge: 0
Spin: 1
Mass: 0.0 eV
Half Life: Stable

Colour Charge: No
Exchange boson (1 point)
Note: the photon is its own antiparticle.

Gluon

Electric Charge: 0
Spin: 1
Mass: 0.0 eV
Half Life: Stable

Colour Charge: Yes
Exchange boson
(1 point)



W^- Boson

Electric Charge: -1
Spin: 1
Mass: 80.4 GeV
Half Life: $3x10^{-25}s$

Colour Charge: No
Exchange boson
(1 points)

W^+ Boson

Electric Charge: +1
Spin: 1
Mass: 80.4 GeV
Half Life: $3x10^{-25}s$

Colour Charge: No
Exchange boson
(1 points)

Z Boson

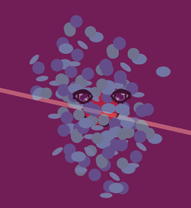
Electric Charge: 0
Spin: 1
Mass: 91.2 GeV
Half Life: $3x10^{-25}s$

Colour Charge: No
Exchange boson (1 points)
Note: the Z boson is its own antiparticle.

Higgs Boson

Electric Charge: 0
Spin: 0
Mass: 126 GeV
Half Life: $\sim 10^{-22}s$

Colour Charge: No
(5 points)
The Higgs Boson is an excitation of the Higg's field which gives particles their mass.



Place Annihilated Cards Here