

Positronium - Singlet State (12 Points)

Electron

Electric Charge: -1
Spin: 1/2
Mass: 0.511 MeV
Half Life: Stable

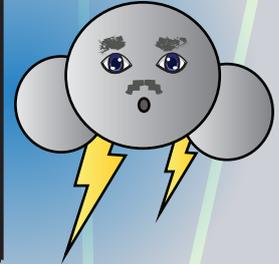
Colour Charge: No
Lepton Number (e): 1
1st generation (1 point)



Electron

Electric Charge: -1
Spin: 1/2
Mass: 0.511 MeV
Half Life: Stable

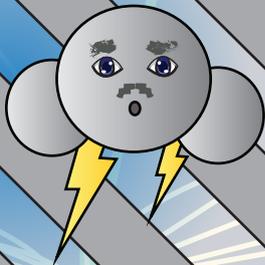
Colour Charge: No
Lepton Number (e): 1
1st generation (1 point)



Positron (Anti-Electron)

Electric Charge: +1
Spin: 1/2
Mass: 0.511 MeV
Half Life: Stable

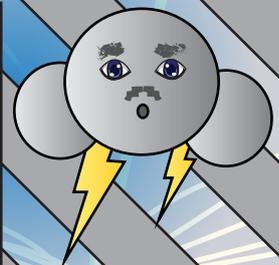
Colour Charge: No
Lepton Number (e): -1
1st generation (1 point)



Positron (Anti-Electron)

Electric Charge: +1
Spin: 1/2
Mass: 0.511 MeV
Half Life: Stable

Colour Charge: No
Lepton Number (e): -1
1st generation (1 point)



Electric Charge: 0
Spin: 0
Mass: 1.022 MeV
Half Life: 1.25×10^{-10} s

Positronium is a particle system consisting of an electron and a positron bound together.

The existence of Positronium was theoretically predicted between 1932-1934 but it was not experimentally discovered until 1951.

Electric Charge: 0
Spin: 1
Mass: 1.022 MeV
Half Life: 1.42×10^{-7} s

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The existence of Positronium was theoretically predicted between 1932-1934 but it was not experimentally discovered until 1951.