

Positronium - Singlet State (12 Points)

Electron

Electric Charge: -1
Spin: 1/2
Mass: 0.511 MeV
Mean Lifetime: Stable

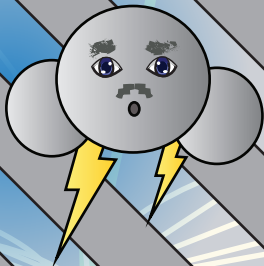
Colour Charge: No
Lepton Number (e): 1
1st generation (1 point)



Positron (Anti-Electron)

Electric Charge: +1
Spin: 1/2
Mass: 0.511 MeV
Mean Lifetime: Stable

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



Positronium - Triplet State (12 Points)

Electron

Electric Charge: -1
Spin: 1/2
Mass: 0.511 MeV
Mean Lifetime: Stable

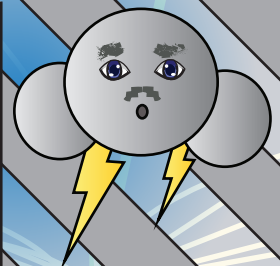
Colour Charge: No
Lepton Number (e): 1
1st generation (1 point)



Positron (Anti-Electron)

Electric Charge: +1
Spin: 1/2
Mass: 0.511 MeV
Mean Lifetime: Stable

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



Electric Charge: 0

Spin: 0

Mass: 1.022 MeV

Mean Lifetime: $1.25 \times 10^{-10} \text{s}$

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

Mean Lifetime: $1.4 \times 10^{-7} \text{s}$

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Particle Builder

Target Card

Particle Builder

Target Card