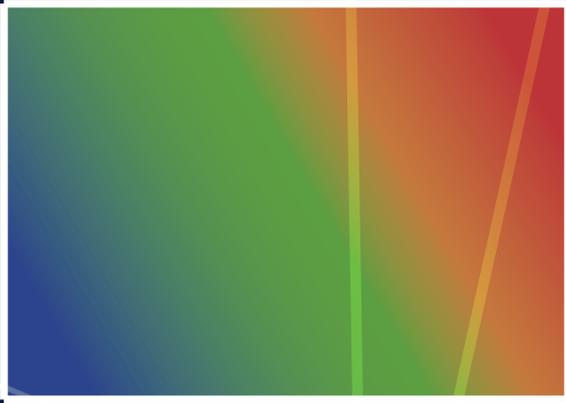


## Neutral Pion (8 Points)



A Neutral Pion can be composed of either a down/anti-down or an up/anti-up pair.

**Electric Charge: 0**

**Spin: 0**

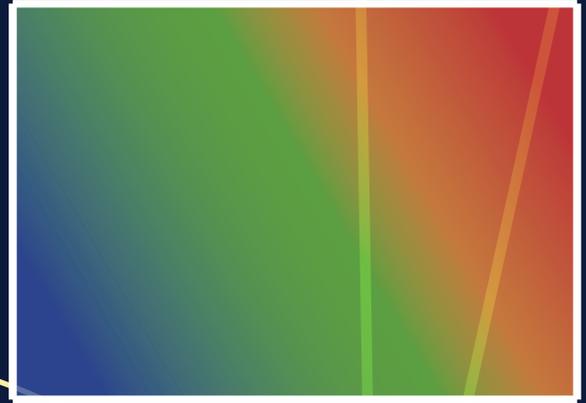
**Mass: 134.98 MeV**

**Mean Lifetime:  $8.4 \times 10^{-17}$  sec**

Pions are the lightest mesons. Neutral pions were proposed theoretically in 1935 but were not discovered until 1950.

Virtual pions are exchanged between protons and neutrons as carriers of the (residual) strong force.

## Neutral Pion (8 Points)



A Neutral Pion can be composed of either a down/anti-down or an up/anti-up pair.

**Electric Charge: 0**

**Spin: 0**

**Mass: 134.98 MeV**

**Mean Lifetime:  $8.4 \times 10^{-17}$  sec**

Pions are the lightest mesons. Neutral pions were proposed theoretically in 1935 but were not discovered until 1950.

Virtual pions are exchanged between protons and neutrons as carriers of the (residual) strong force.

# Particle Builder

Target Card

# Particle Builder

Target Card