

# Standard Model of Elementary Particles

three generations of matter  
(fermions)

interactions / force carriers  
(bosons)

I

II

III

mass  
charge  
spin

$\approx 2.16 \text{ MeV}/c^2$   
 $\frac{2}{3}$   
 $\frac{1}{2}$   
  
**up**

$\approx 1.273 \text{ GeV}/c^2$   
 $\frac{2}{3}$   
 $\frac{1}{2}$   
  
**charm**

$\approx 172.57 \text{ GeV}/c^2$   
 $\frac{2}{3}$   
 $\frac{1}{2}$   
  
**top**

0  
 0  
 1  
  
**gluon**

$\approx 125.2 \text{ GeV}/c^2$   
 0  
 0  
 0  
  
**higgs**

QUARKS

$\approx 4.7 \text{ MeV}/c^2$   
 $-\frac{1}{3}$   
 $\frac{1}{2}$   
  
**down**

$\approx 93.5 \text{ MeV}/c^2$   
 $-\frac{1}{3}$   
 $\frac{1}{2}$   
  
**strange**

$\approx 4.183 \text{ GeV}/c^2$   
 $-\frac{1}{3}$   
 $\frac{1}{2}$   
  
**bottom**

0  
 0  
 1  
  
**photon**

SCALAR BOSONS

LEPTONS

$\approx 0.511 \text{ MeV}/c^2$   
 $-1$   
 $\frac{1}{2}$   
  
**electron**

$\approx 105.66 \text{ MeV}/c^2$   
 $-1$   
 $\frac{1}{2}$   
  
**muon**

$\approx 1.77693 \text{ GeV}/c^2$   
 $-1$   
 $\frac{1}{2}$   
  
**tau**

$\approx 91.188 \text{ GeV}/c^2$   
 0  
 1  
  
**Z boson**

GAUGE BOSONS  
VECTOR BOSONS

$< 0.9 \text{ eV}/c^2$   
 0  
 $\frac{1}{2}$   
  
**electron neutrino**

$< 0.17 \text{ MeV}/c^2$   
 0  
 $\frac{1}{2}$   
  
**muon neutrino**

$< 18.2 \text{ MeV}/c^2$   
 0  
 $\frac{1}{2}$   
  
**tau neutrino**

$\approx 80.3693 \text{ GeV}/c^2$   
 $\pm 1$   
 1  
  
**W boson**

# Physics Of The Standard Model And Beyond

**Ensheng Dong**



## **Physics Of The Standard Model And Beyond:**

## **Physics Of The Standard Model And Beyond** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Physics Of The Standard Model And Beyond**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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