Abstract

Based on assumption standard model, neutrinos are massless. It was unique inasmuch as fermion was regarded being masses except that be massless is neutrinos. Mainly characterized on neutrinos are chargeless. A particle must have been anti-particle (coupled). Because of it, then its anti-particle (anti-neutrinos) are chargeless too. In other words, it could be namely Majorana particle. That case happened, if neutrinos are massless and chargeless or very neutral. The main form is Weyl equation was derived from Dirac-ultrarelativistic equation ($v \approx c \Rightarrow m = 0$). Then it was correlated with Dirac equation for electron and positron which is violated an electromagnetic field. If electron and positron are chargeless then it was identified as Majorana particle. The differences is focused on helicity component that be correlated with lagrangian. Observation of $0\nu\beta\beta$ stated that massive neutrinos are Majorana particle.

Keyword : Dirac equation, Weyl equation, Majorana neutrino.