

How to construct self/anti-self charge conjugate states for higher spins? (From neutrino to photon and all that)

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Abstract content

We construct self/anti-self charge conjugate (Majorana-like) states for higher spins within the quantum field theory. The problems of the basis rotations and that of the selection of phases in the Dirac-like and Majorana-like field operators are considered. It seems that in many areas of particle/neutrino physics and astrophysics scalar fields are required. We show that the non-linear realization of the antisymmetric tensor fields of spin 1 and spin 2 may provide such states with $S=0$.

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