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## ELECTROMAGNETIC PROPERTIES OF THE "GHOST PARTICLE".

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Neutrinos are very interesting fundamental particles, interact very weakly and their masses are very small. In many extensions of the Standard Model neutrinos acquire electromagnetic properties through quantum loops effects, hence the study of neutrino electromagnetic interactions is a tool in the search of the fundamentals of particle physics. Neutrino electromagnetic properties can be used to distinguish Dirac and Majorana neutrinos and also gives a path to new physics beyond the standard model. The consequences of these properties affect the fields of science, such as astrophysics, since in certain circumstances, such as the core-collapse supernovae the influence of the electromagnetic properties of the neutrino must be considered.

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