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Study of the neutrino nature through cross sections in the Left-Right Symmetric Model.

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Neutrinos are elementary particles with spin $\frac{1}{2}$. If neutrinos are different from their antiparticles, they would be Dirac particles, allowing process where the lepton number is conserved. Otherwise neutrinos would be Majorana particles, and some Non Standard processes, like the neutrinoless double beta decay, could occur. The nature of neutrinos is still to be determined and, in this study, the cross sections between neutrinos and antineutrinos is calculated, to see if there are differences for Majorana and Dirac neutrinos, in the framework of the Left-Right Symmetric Model (LRSM).

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