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Neutrino oscillations and non standard interactions

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Abstract content

There is an increasing evidence for a non zero neutrino mass coming from an large number of neutrino experiments. Moreover, the new generation of experimental setups promise to improve the current measurements of the neutrino parameters and to address new problems such as CP violation in the neutrino sector.
A strong effort to build models containing the neutrino mass pattern observed in recent experiments is one of the most active subjects on the field. Most of this models implies nonstandard interactions that can be parametrized in terms of effective four-fermion operators in the low-energy limit. After reviewing the current status of the standard oscillation scenario, I will show the status of the constraints to the non standard parameters obtained from different neutrino experimental data. I will also discuss the perspectives of some experimental proposals to improve these bounds.

Summary

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