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The dark side of the light fermions

Abstract content

The gauge-singlet fermions, or right-handed neutrinos, are commonly introduced to explain the neutrino masses. If their Majorana mass terms are relatively small, new degrees of freedom appear in the low-energy effective theory as sterile neutrinos. The dark side of the neutrino sector may hold the key to explaining dark matter in the universe and the pulsar kicks, and it may play a role in other astrophysical phenomena. I will review the theoretical motivation, observational clues, and the ongoing search for new physics in on the "dark side" of the light fermions.

Summary

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