

Neutrino masses in the Standard Model effective field theory

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We compute the leading-logarithm correction to the neutrino mass matrix in the Standard Model effective field theory to dimension seven. In the limit of negligible Yukawa couplings, the neutrino mass matrix receives contributions from the Weinberg operator as well as from ten dimension-six and four dimension-seven independent interactions. We discuss the conditions under which the derived correction plays an important role.

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