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Neutrinoless double beta decay in the type-I seesaw model

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We discuss the contribution of right-handed neutrinos (RHNs) to the neutrinoless double beta decay within the minimal type-I seesaw model by virtue of the intrinsic seesaw relation of neutrino mass and mixing parameters, and the mass dependence of the nuclear matrix elements from different nuclear models. In the viable parameter space, we find the possibilities of both the enhancement and cancellation to the effective neutrino mass from RHNs. The bounds on the parameter space of the RHNs can be obtained from the latest neutrinoless double beta decay experiments, and can be compared with other experimental probes.

This work is based on the preprint 2112.12779 and a new work in preparation.

In-person participation

No

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