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Disentangling effects of mechanisms that could contribute to the neutrinoless double beta decay[1] MIHAI HOROI, ANDREI NEACSU, Department of Physics, Central Michigan University, Mount Pleasant, MI 48859, USA — Neutrinoless double-beta decay, if observed, would signal physics beyond the Standard Model that could be discovered at energies significantly lower than those at which the relevant degrees of freedom could be excited. Therefore, it could be challenging to further use the neutrinoless double-beta decay observations to distinguish between many beyond Standard Model competing mechanisms to this process. Accurate nuclear structure calculation of the nuclear matrix elements necessary to analyze the decay rates could be helpful to narrow down the list of competing mechanisms, and to better identify the more exotic properties of the neutrinos. We will present information that one can get from the angular and energy distribution of the emitted electron assuming that the right-handed currents exist.

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