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## **Current topics in weak interaction processes**

We briefly review the investigation of some current topics in weak interaction processes. First, we present some methods used to get the electrons'wave functions emitted in these processes. Next, we use these wave functions to compute relevant kinematic quantities such as Fermi functions, phase space factors, electron spectra and angular correlation between the emitted electrons. Further, we present applications of these calculations to the experimental data analysis related to the search of the Lorentz invariance violation in twoneutrino double-beta decay and description of the decay rates and decay rate ratios for allowed and unique forbidden electron capture (EC) processes.

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