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Searching for Periodic Variations in Nuclear Decay Rates using the NEMO-3 Detector

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The NEMO-3 experiment searched for neutrinoless ββ decay over the course of more than seven years utilizing various different candidate isotopes. Due to its multi-observable design it was able to distinguish, with high fidelity, a number of auxilary processes including single β decays, α decays and more. Using this rich data set and capitalizing on its long observation period, a search for time-dependent periodic variations in NEMO-3 nuclear decay rates is presented.

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