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Neutrinoless Double Beta Decay

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Message from the Guest Editors

Neutrinoless Double-Beta Decay (NDBD) is a lepton-number-violating process whose discovery would demonstrate that neutrinos are Majorana particles. This in turn would support the exciting theoretical framework in which leptons played a part in the creation of the matter/antimatter asymmetry in the Universe. The experimental progress in the search for NDBD has been dramatic in recent years; half-lives greater than 10^{25} yr are now probed and new generation experiments are being proposed with unprecedented sensitivity. An exhaustive comprehension of this rare decay goes beyond the experimental challenges. The calculation of the nuclear matrix elements, which are needed for the interpretation of the results, is a subject of intensive theoretical effort.

The aim of this Special Issue is to collect contributions for a discussion on the theoretical and experimental aspects of Neutrinoless Double Beta Decay. [...]

For more information, please visit [here](#).

Prof. Fabio Bellini
Dr. Claudia Tomei
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

The multidisciplinary *Universe* journal is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the editorial board, I extend my welcome to this new journal and look forward to hearing from the interested contributors and learning about their valuable research.

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Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 23.9 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2019).

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