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The Cosmological Constant Puzzle

Guest Editor:

Prof. Dr. Steven D. Bass

1. Marian Smoluchowski Institute of Physics, Jagiellonian University, 30-348 Krakow, Poland

2. Kitzbühel Centre for Physics, Kitzbühel, Austria

Deadline for manuscript submissions:

closed (1 October 2019)

Message from the Guest Editor

Dear Colleagues,

This Special Issue concerns the cosmological constant puzzle. What drives the accelerating expansion of the Universe? Possible contributions to the cosmological constant or vacuum energy density perceived by gravitation are the zero-point energies of quantum field theory and vacuum condensates associated with spontaneous symmetry breaking. The vacuum energy density suggested by the classical Higgs potential in the Standard Model of particle physics is 10⁵⁶ times too big and comes with the opposite sign compared to the cosmological constant extracted from astrophysics. [...]

For more information, please visit link.

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Editor-in-Chief

Prof. Dr. Lorenzo Iorio

Ministero dell'Istruzione e del Merito, Viale Unità di Italia 68, 70125 Bari, BA, Italy

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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