Special Issue

Singularities in Spacetime

Message from the Guest Editor

This Special Issue will be focused on singularities in relativistic spacetimes. Papers on the definition, existence, and nature of singularities are welcome. Boundary definitions may be explored together with the location of singularities in relativistic spacetime manifolds. Theorems on the existence of singularities in general and discussions of the various types of singularities (quasiregular, nonscalar curvature, and scalar curvature) would be of interest together with the use of invariants, both scalar polynomial and Cartan, to indicate curvature singularities. The behavior of classical and quantum particles and fields in singular spacetimes could be explored to further our understanding of the singularities present, both in exact solutions to Einstein's equations or alternative theories and within our physical universe. Finally, approaches to quantum gravity and how they can erase classical singularities would be appropriate.

Guest Editor

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Deadline for manuscript submissions

closed (22 March 2022)

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* 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 Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

Prof. Dr. Lorenzo Iorio
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