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# **Tidal Effects in General Relativity**

Guest Editor:

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Deadline for manuscript submissions: closed (15 February 2023)

#### Message from the Guest Editor

Dear Colleagues,

Tidal effects are ubiquitous in nature. A classic example of tidal effects is the periodic rise and fall of the sea levels on Earth due to the gravitational interaction between the moon and the Earth. The new era of gravitational-wave astronomy allows for novel ways to test tidal effects in the strong-field regime, thereby boosting the possibility to deepen our understanding of tidal effects in general relativity. These tests include measurements of Love numbers of neutron stars and black holes, tidal heating, and tidal resonances in Extreme Mass Ration Inspirals and tidal locking in white dwarf binaries.

This Special Issue is dedicated to all tidal effects in general relativity and aims to bring together new theoretical developments and forecasts on their measurability.

I look forward to reading your contributions.

Dr. B.P. Bonga (Béatrice) *Guest Editor* 









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# **Editor-in-Chief**

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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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