

# Special Issue

## Oscillations and Instabilities of Solar Filaments

### Message from the Guest Editors

Solar filaments or prominences are prominent magnetic structures in the solar corona whose dynamics are central to our understanding of solar activity. The study of oscillations within these magnetic structures has emerged as a cornerstone of modern solar physics. These oscillations not only serve as a powerful diagnostic tool for probing local plasma and magnetic field conditions (i.e., solar coronal seismology) but are also intimately linked to the catastrophic loss of equilibrium that leads to solar eruptions, the primary drivers of space weather. Understanding how wave modes are excited, how they propagate, and how they may grow into eruptive instabilities is a key challenge that this Special Issue will address.

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### Guest Editors

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# Universe

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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.

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### Editor-in-Chief

Prof. Dr. Lorenzo Iorio  
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