

Special Issue

Magnetic Fields and Activity in Stars: Origins and Evolution

Message from the Guest Editor

Magnetic fields occur everywhere in the Universe. They appear as a characteristic of matter and they accompany the whole life of a star—from birth to death. Recent findings point to their crucial role in stars and their planetary systems. The following topics are of prime interest in stellar physics: magnetic field transformations in the course of stellar evolution when the internal structure of stars changes, the different mechanisms for the generation and enhancement of magnetic fields and activity depending on the structure and rotation of a star, the role of magnetic fields and activity in mass transfer in close binary stars, and star–planet magnetic interactions. This Special Issue is dedicated to publishing original research and review papers on magnetism and activity in stars during their whole life. Scope:

- Stellar magnetic fields and stellar activity;
- Evolution, stellar structure, and magnetic activity;
- Internal magnetic fields;
- Binary stars and magnetic activity;
- Stellar dynamos;
- Star–planet interactions;
- Stellar magnetic cycles.

Guest Editor

Prof. Dr. Renada Konstantinova-Antova
Institute of Astronomy and NAO, Bulgarian Academy of Sciences, 1040 Sofia, Bulgaria

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Universe
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
universe@mdpi.com

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

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