Special Issue

The Past, Present, and Future of Stellar Spectroscopy

Message from the Guest Editor

In the last two decades, we have seen exponential growth in spectroscopic data thanks to advancements in the multi-object spectrograph. Current ongoing surveys, such as GALAH, LAMOST, APOGEE, RAVE, Gaia-ESO, DESI, and SDSS-V, routinely collect millions of stellar spectra. Future surveys such as 4MOST, Weave, MSE, and MUST will further propel this field. Such massive datasets have been the backbone of the field known as galactic archaeology—using millions of stellar tracers to unravel the evolutionary history of our own galaxy, the Milky Way.

The importance of this advancement in stellar spectroscopy cannot be overstated—not only does it help us to understand our own galaxy but a precise and accurate stellar model is also critical to building reliable stellar population spectral models from which we can understand other galaxies besides our own. Fully characterizing planet host stars is also essential to determining the habitability of exoplanets, one of the major science goals in the recent US decadal survey.

We welcome review articles as well as research articles related to stellar spectroscopy.

Guest Editor

Dr. Yuansen Ting

Astrophysics & Computer Science, The Australian National University, Canberra Bruce, ACT 2617, Australia

Deadline for manuscript submissions

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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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