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The Past, Present, and Future of Stellar Spectroscopy

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Deadline for manuscript
submissions:

closed (25 January 2023)

Message from the Guest Editor

Dear Colleagues,

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.



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Special Issue



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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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