

# Introduction

Editorial board \*

NAS RA V. Ambartsumian Byurakan Astrophysical Observatory (BAO)

*"The Connection of Astronomy with Other Sciences, Culture, and Society"* conference is dedicated to the 25th anniversary of the Armenian Astronomical Society. The current trend in scientific development emphasizes interdisciplinary and multidisciplinary approaches, with astronomy playing a pivotal role. Astronomy can be considered a leader in inter-branch and multi-branch sciences, particularly within the natural sciences. Fields such as astrophysics, astrochemistry, astrobiology, astromedicine, astrogeology (planetary science), astroinformatics, and historical astronomy have all emerged and continue to develop through interdisciplinary connections. Astronomy significantly contributes to advancements in space research, the study of extraterrestrial civilizations, artificial intelligence, global warming, and other multidisciplinary sciences.



Since the early 2000s, elements of interdisciplinary sciences have been present in numerous scientific conferences organized at the Byurakan Astrophysical Observatory (BAO). Notably, in 2014, an interdisciplinary conference titled "The Connection of Astronomy with Other Sciences, Culture, and Society" was held at BAO, with the proceedings published by the National Academy of Sciences of the Republic of Armenia. In 2021, BAO hosted another international conference, "Astronomy at the Crossroads of Interdisciplinary and Multidisciplinary Sciences," with the collected materials published in ComBAO.

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The topics of "*The Connection of Astronomy with Other Sciences, Culture, and Society*" conference cover a wide range of scientific directions:

- Sun and the Solar System
- Stars and Nebulae
- Active Galaxies, Galaxy Systems
- High Energy Astrophysics and Cosmology
- Theoretical Astrophysics
- Astronomical Surveys
- Astrochemistry, Astrobiology, and Exoplanets
- Planetary Science and Asteroseismology
- Astroinformatics and Virtual Observatories, Big Data in Astronomy
- Astronomical Heritage, Historical Astronomy, and Cultural Astronomy
- Astronomy Education, Astrotourism, and Astro-journalism

Active scientific discussion of the presented tasks will undoubtedly serve as a guarantee for further fruitful cooperation.

This issue of Communications of BAO includes the proceedings from the conference "*The Connection of Astronomy with Other Sciences, Culture, and Society*". All the papers have undergone a thorough peer review.