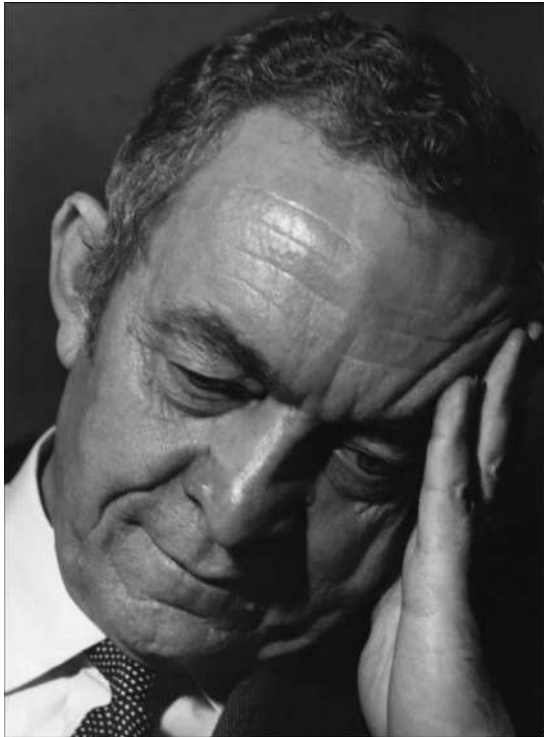


Introduction

Editorial board *

NAS RA V. Ambartsumian Byurakan Astrophysical Observatory (BAO)



Ludwik MIRZOYAN (1923-1999)

Ludwik V. Mirzoyan is one of the benefactors of the Armenian astronomy whose whole life and scientific activity were devoted to the Byurakan Observatory and to the development of Armenian astronomy. His scientific, pedagogical, editorial, scientific-organizational and scientific-administrative works are colossal and invaluable. Mirzoyan has always been beside V. A. Ambartsumian and played one of the main roles in the formation and prosperity of the Byurakan Observatory, in the acquisition of the great scientific fame.

L. Mirzoyan's main scientific results are the proposing of a new method of determination of interstellar selective absorption, the working out of the method of "synthetic" stellar association and the demonstration of the expansion of OB-association, the determination of the value of A constant of the Galactic rotation, the investigation of the problem of K effect, the discovery and the investigations of hundreds of flare stars in Orion, Pleiades, and in other systems, as well as in Solar neighborhood, the spectrophotometric investigation of unusual objects, such as V1057 Cyg, FG Sge, RW Aur and SS Cyg, the investigation of Shahbazian compact groups of compact galaxies, etc. Altogether, *L. Mirzoyan* has 271 scientific publications, including 171 scientific

papers (128 of them in scientific journals and 43 of them in proceedings of conferences), 15 books and booklets, 65 popular scientific articles and information materials. If we add the organization of a number of conferences, the editing of the journal "Astrofizika", 20 books and the proceedings of conferences, the teaching at the Yerevan State University, the training of a dozen of academic personnel (including foreign scientists) to all above mentioned, *L. Mirzoyan's* great merit in Armenian astronomy becomes clear.



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The scientific collaboration and friendship between the Armenian and Georgian astronomers were established since 1930s due to *V. Ambartsumian's* (1908-1996) and *E. Kharadze's* (1907-2001) efforts. Many Armenian and Georgian astronomers collaborated and published joint papers. Among them, it is necessary to note the articles of *L. Mirzoyan* and *G. Salukvadze*, who jointly worked on stellar associations, T Tau and flare stars, etc. It was this topic that was devoted to a whole series of PhD and Doctoral theses of researchers from both Byurakan and Abastumani observatories. Such close cooperation was largely facilitated by regular joint Byurakan-Abastumani colloquiums, which began in 1974. Taking into account the significant contribution of *L. Mirzoyan* to the Armenian-Georgian cooperation several colloquia (1998, 2003, 2013) were dedicated to Lyudwik Mirzoyan's anniversaries.

On May 1-5, 2023, the **XV Joint Byurakan-Abastuman colloquium** was organized in Byurakan. It is also dedicated to *Lyudwik Mirzoyan's* anniversary (100th). 27 Armenian and 11 Georgian astronomers were participating. Works covering a wide range of astrophysical problems were presented at the colloquium. 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 presented on the XV Joint Byurakan-Abastumani Colloquium. All the papers passed relevant peer-review.