

ASTRONOMICAL INSTITUTE
SLOVAK ACADEMY OF SCIENCES

CONTRIBUTIONS
OF THE ASTRONOMICAL OBSERVATORY
SKALNATÉ PLESO

• VOLUME LV •

Number 1



February 2025

Editorial Board

Editor-in-Chief

Augustín Skopal, *Tatranská Lomnica, The Slovak Republic*

Managing Editor

Richard Komžík, *Tatranská Lomnica, The Slovak Republic*

Editors

Július Koza, *Tatranská Lomnica, The Slovak Republic*

Aleš Kučera, *Tatranská Lomnica, The Slovak Republic*

Luboš Neslušan, *Tatranská Lomnica, The Slovak Republic*

Vladimír Porubčan, *Bratislava, The Slovak Republic*

Theodor Pribulla, *Tatranská Lomnica, The Slovak Republic*

Advisory Board

Bernhard Fleck, *Greenbelt, USA*

Arnold Hanslmeier, *Graz, Austria*

Marian Karlický, *Ondřejov, The Czech Republic*

Jan Vondrák, *Prague, The Czech Republic*



Astronomical Institute of the Slovak Academy of Sciences
2025

ISSN: 1336–0337 (on-line version)

CODEN: CAOPF8

Editorial Office: Astronomical Institute of the Slovak Academy of Sciences
SK - 059 60 Tatranská Lomnica, The Slovak Republic

CONTENTS

EDITORIAL

A. Skopal, R. Komžík: Editorial	5
---	---

INSTRUMENTS

M. Ibrahimov, M. Sachkov, M. Nalivkin, S. Naroenkov, A. Shugarov, O. Pons Rodriguez, Z. Barcena Fonseca, V. Shmagin: The new 50-cm multi-purpose telescope of the Russian-Cuban observatory	7
--	---

STARS

M.A. Hanna, A. Nakhlawy, M. Hayman, M.Y. Amin, H.R. Dwidar, M.A. El-Khamisy, A. Essam: Light curve analysis for the two eclipsing binary stars V869 Car and V2184 Sgr	18
W.H. Elsanhoury: Kinematics of high-velocity stars utilizing LAMOST and Gaia DR3 archives within 100 kpc	38
T. Ramezani, E. Paunzen, A. Gorodilov, O.I. Pintado: Ultraviolet photometry and reddening estimation of 105 galactic open clusters	60

The Contributions of the Astronomical Observatory Skalnaté Pleso
are available in the full version
in the frame of ADS Abstract Service
and can be downloaded in a usual way from the URL address:

<https://ui.adsabs.harvard.edu/>

as well as from the website of
the Astronomical Institute of the Slovak Academy of Sciences
on the URL address:

<https://www.astro.sk/caosp/caosp.php>

The journal is covered/indexed by:

Web of Science (WoS)
WoS Core Collection: Science Citation Index Expanded

SCOPUS

Index Copernicus International