

ASTRONOMICAL INSTITUTE  
SLOVAK ACADEMY OF SCIENCES

CONTRIBUTIONS  
OF THE ASTRONOMICAL OBSERVATORY  
SKALNATÉ PLESO

• VOLUME LI •

Number 1



January 2021

## **Editorial Board**

### **Editor-in-Chief**

Augustín Skopal, *Tatranská Lomnica, The Slovak Republic*

### **Managing Editor**

Richard Komžík, *Tatranská Lomnica, The Slovak Republic*

### **Editors**

Drahomír Chochol, *Tatranská Lomnica, The Slovak Republic*  
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*  
Tanya Ryabchikova, *Moscow, Russia*  
Giovanni B. Valsecchi, *Rome, Italy*  
Jan Vondrák, *Prague, The Czech Republic*

©

Astronomical Institute of the Slovak Academy of Sciences  
2021

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: <b>Editorial</b> . . . . .	5
--	---

## STARS

M.Yu. Skulskyy: <b>Formation of magnetized spatial structures in the Beta Lyrae system. III. Reflection of magnetically controlled matter in circumbinary structures in helium lines, in particular arising from metastable levels</b> . . . . .	7
--	---

## THE GATE SUMMER SCHOOL Brno, Czech Republic, August, 2020

M. Skarka, J. Janík, E. Paunzen, V. Glos: <b>The GATE summer school</b> . . . . .	41
J. Merc, Cs. Kalup, R.S. Rathour, J.P. SánchezArias, P.G. Beck: <b>Asteroseismology of the heartbeat star KIC 5006817</b> . . . . .	45
J. Korth, A. Moharana, M. Pešta, D.R. Czavalinga, K.E. Conroy: <b>Consequences of parameterization choice on eclipsing binary light curve solutions</b> . . . . .	58
P. Gajdoš, A. Maliuk, M. Vítková, H. Parviainen: <b>Improving light curve parameters of exoplanets based on TESS data</b> . . . . .	68
O. Maryeva, K. Bicz, C. Xia, M. Baratella, P. Čechvala, K. Vida: <b>Flare stars in nearby Galactic open clusters based on TESS data</b> . . . . .	78

The Contributions of the Astronomical Observatory Skalnaté Pleso  
are available in a 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 web-site 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:

**Thomson Reuters services (ISI)**  
Science Citation Index Expanded (also known as SciSearch<sup>®</sup>)  
Journal Citation Reports/Science Edition

**SCOPUS**