

## SESSIONS:

1. Flashlights as Introduction
2. Parameter Space & Pattern
3. Pulsation
4. Variability Other than Pulsation
5. Modelling
6. Binaries & Clusters
7. Other & More Challenges
8. Stellar Spheres of Influence
9. Lessons Learned
10. Future

## ORAL CONTRIBUTIONS:

i ... *Flashlight* / k ... *Keynote* / o ... *Contribution*

- |                 |   |
|-----------------|---|
| 1i01 (Mo 09:30) | The space photometry revolution<br><i>Franz Kerschbaum</i>  |
| 1i02 (Mo 09:40) | The demystification of classical Be stars through space photometry<br><i>Dietrich Baade</i>                                 |
| 1i03 (Mo 09:50) | Listening to the Heartbeat: Tidal Asteroseismology in Action<br><i>Zhao Guo</i>   |
| 1i04 (Mo 10:00) | From no-go to highlights: Red Giants<br><i>Thomas Kallinger</i>   |
| 1i05 (Mo 10:10) | An innovative distance determination technique<br><i>Pierre Kervella</i>  |
| 1i06 (Mo 10:20) | Nova Carinae 2018 - a first in many respects<br><i>Elias Aydi</i>   |
| 2k01 (Mo 11:00) | GAIA's revolution in stellar variability<br><i>Laurent Eyer</i>   |
| 2k02 (Mo 11:25) | What we can learn from constant stars, and what means constant?<br><i>Ernst Paunzen</i>                                     |
| 2o01 (Mo 11:50) | Obscured Long Period Variables from the NIR VMC survey<br><i>Martin Groenewegen</i>   |
| 2o02 (Mo 12:05) | A zoology of high-mass pulsators with the TESS and K2 space missions.<br><i>Siemen Burssens</i>                             |
| 3k01 (Mo 13:50) | Potential and challenges of pre-main sequence asteroseismology<br><i>Konstanze Zwintz</i>                                   |
| 3k02 (Mo 14:15) | Observations of internal structures of low-mass main-sequence stars and red giants<br><i>Saskia Hekker</i>                  |
| 3k03 (Mo 14:40) | The inner structure of intermediate-mass stars revealed<br><i>Rhita-Maria Ouazzani</i>                                      |
| 3k04 (Mo 15:05) | Some thorny problems in pre-main sequence models: accretion, convection, rotation, and lithium<br><i>Thomas Constantino</i> |
| 3k05 (Mo 15:30) | Asteroseismology of hot subdwarf and white dwarf stars<br><i>Valerie van Grootel</i>  |

- 3k06 (Mo 16:25) What physics is missing in theoretical models of high-mass stars: new insights from asteroseismology  
*Dominic Bowman*
- 3k07 (Mo 16:50) Cepheids under the magnifying glass - not so simple, after all!  
*Richard I. Anderson*
- 3k08 (Mo 17:15) Asteroseismology of rapidly rotating stars with acoustic modes  
*Daniel Reese*
- 3o01 (Mo 17:40) The BRITE SONG of Aldebaran  
*Paul Beck*
- 3o02 (Mo 17:55) Complex asteroseismology of SX Phoenicis  
*Jadwiga Daszynska-Daszkiewicz*
- 3o03 (Mo 18:10) Modelling Long-Period Variables in the Gaia Era  
*Michele Trabucchi*
- 4k01 (Tu 09:00) Early-type magnetic stars: the rotation challenge  
*Gautier Mathys*
- 4k02 (Tu 09:25) Be star variability as seen from ground-based and space photometry  
*Alex C. Carciofi & Jonathan Labadie-Bartz*
- 4k03 (Tu 09:50) BRITENess variations of the BRITEst hot stars  
*Anthony Moffat*
- 4o01 (Tu 10:15) Shine BRITE: shedding light on the variability of stars through advanced modeling  
*Damian Fabbian*
- 4o02 (Tu 11:00) Insights Into Stellar Magnetism With Kepler: Are magnetic A-type stars far more common than previously believed?  
*James Sikora*
- 5k01 (Tu 11:15) Stellar convection and pulsation mode physics  
*Günter Houdek*
- 5k02 (Tu 11:40) 3D Hydrodynamical Simulations of Stellar Convection for Helio- and Asteroseismology  
*Friedrich Kupka*
- 5k03 (Tu 12:05) Low-mass stars: where observations and theoretical modeling don't agree  
*Anne Thoul*
- 5k04 (Tu 14:00) Challenges to modelling from groundbreaking new data of present/future space and ground facilities  
*Gisella Clementini*
- 5k05 (Tu 14:25) Open problems in high-mass stellar evolution  
*Sylvia Ekström*
- 5k06 (Tu 14:50) Stellar magnetic fields: internal magnetic fields  
*Jim Fuller*
- 5k07 (Tu 15:15) Search for quiet stellar-mass black holes by asteroseismology from space  
*Hiromoto Shibahashi*
- 5o01 (Tu 15:40) Accretion Simulations of Eta Carinae and Implications to Evolution of Massive Binaries  
*Amit Kashi*
- 5o02 (Tu 16:25) From the Sun to solar-like stars: how does the solar modelling problem affect our studies of solar-like oscillators?  
*Gaël Buldgen*

- 5o03 (Tu 16:40) Asteroseismic Binaries as non-Solar Mixing Length Calibrators  
*Meridith Joyce*
- 5o04 (Tu 16:55) Unbiased seismic model fitting  
*Thomas Kallinger*
- 5o05 (Tu 17:10) The relevance of partial ionization in the outer layers of F-stars  
*Ana Brito*
- 5o06 (Tu 17:25) KIC 11971405 - the SPB star with the four asymptotic sequences of g modes  
*Wojciech Szewczuk*
- 5o07 (Tu 17:40) An entropy-based calibration of the mixing-length parameter using 3D numerical simulations of convection  
*Federico Spada*
- 5o08 (Tu 17:55) The slowly pulsating B-star 18 Peg: A testbed for upper main sequence stellar evolution  
*Andreas Irgang*
- 5o09 (Tu 18:10) Determination of precise stellar parameters of Kepler LEGACY targets using the WhoSGLAd method  
*Martin Farnir*
- 5o10 (We 09:00) Improving stellar evolution models with atomic diffusion from asteroseismology of intermediate-mass stars  
*Joey Mombarg*
- 5o11 (We 09:15) Interactions of waves with convection  
*Jesper Schou*
- 5o12 (We 09:30) Is it time to retire the Sun as the reference star for determining red giant stellar parameters  
*Nathalie Themeßl*
- 5o13 (We 09:45) Can gravity modes unravel near-core mixing profiles inside stars?  
*Mathias Michielsen*
- 5o14 (We 10:00) The rotation profile of gamma Dor stars: inference from Rossby modes  
*Steven Christophe*
- 5o15 (We 10:15) A Novel Modeling of Magneto-Rotating Stellar Evolution  
*Koh Takahashi*
- 6k01 (We 11:00) Binaries as key laboratories for stellar physics  
*John Southworth*
- 6k02 (We 11:25) Pulsating Stars in Binary Systems  
*Simon Murphy*
- 6o01 (We 11:50) R-mode oscillations in eclipsing binaries  
*Hideyuki Saio*
- 6o02 (We 12:05) Inclination Surveys in Open Clusters Using Be Stars  
*Aaron Sigut*
- 6o03 (We 12:20) On the amount and origin of the mass discrepancy in binaries  
*Andrew Tkachenko*
- 6o04 (We 14:00) Calibrating asteroseismology for red giants with eclipsing binaries  
*Mansour Benbakoura*
- 6o05 (We 14:15) The Massive Heartbeat Project: Mapping the Upper HR Diagram  
*Bert Pablo*
- 7o01 (We 14:30) Protostellar accretion bursts and their effect on the pre-main-sequence stellar evolution  
*Eduard Vorobyov*

- 7o02 (We 14:45) Recent advances in numerical models that include atomic diffusion in stars  
*Georges Alecian*
- 7o03 (We 15:00) High-resolution view of hot-star magnetic fields: current status and future challenges  
*Oleg Kochukhov*
- 7o04 (We 15:15) Modelling the polarimetric signatures of magnetic massive stars with ADM  
*Melissa Munoz*
- 7o05 (We 15:30) Putting Stars into Boxes  
*Elizabeth Griffin*
- 8k01 (Th 09:00) Discs around Be stars and complex radiation effects  
*Nathaniel Dylan Kee*
- 8k02 (Th 09:25) Tides in star-planet systems and angular momentum exchanges  
*Stephane Mathis*
- 8k03 (Th 09:50) Tracing stellar wind variability from space  
*Jiri Krlicka*
- 8o01 (Th 10:15) Cepheid Spheres of Influence  
*Nancy R. Evans*
- 8k04 (Th 11:00) Star-planet magnetic interactions  
*Antonino Francesco Lanza*
- 8k05 (Th 11:25) Dynamics of star-disk interaction processes in young, low-mass stars as seen from space  
*Laura Venuti*
- 8o02 (Th 11:50) The distance of the Cepheid RS Puppis from its light echoes  
*Pierre Kervella*
- 8o03 (Th 12:05) Coronal Cycles:  $\alpha$ Cen AB, Procyon, and the Sun  
*Thomas Ayres*
- 8o04 (Th 12:20) Brite Photometric Variability of the Intriguing Wolf-Rayet Star WR6: Rotational or Binary Modulations  
*Nicole St-Louis*
- 8o05 (Th 14:00) Do planet systems influence the host star atmospheric abundances  
*Tatiana Ryabchikova*
- 9k01 (Th 14:15) Nanosatellite Technology  
*Otto Koudelka*
- 9k02 (Th 14:40) BRITE-Constellation Operations and Data Collection  
*Rainer Kuschnig*
- 9k03 (Th 15:05) Lessons learned from Kepler and TESS  
*Victoria Antoci*
- 9k04 (Th 15:30) Solar-Like Oscillations: Lessons learned and First Results from TESS  
*Daniel Huber*
- 9k05 (Th 16:25) TESS RR Lyrae and Cepheid stars: first results  
*Emese Plachy*
- 9o01 (Th 16:50) Flares, shocks, and dust in the remarkable nova ASASSN-18fv: a one in a million chance light-curve  
*Elias Aydi*
- 9o02 (Th 17:05) Pulsations in massive close binaries: TESS versus BRITE  
*Andrzej Pigulski*
- 9o03 (Th 17:20) Progress in the understanding of massive star interiors using BRITE and TESS  
*Gerald Handler*

- 9o04 (Th 17:35) Magnetic OB[A] Stars with TESS: probing their Evolutionary and Rotational properties - The MOBSTER Collaboration  
*Alexandre David-Uraz*
- 10k01 (Fr 09:00) PLATO mission status  
*Juan Cabrera*
- 10k02 (Fr 09:25) PLATO instrument: end-to-end photometry performance and seismic potentials  
*Réza Samadi*
- 10k03 (Fr 09:50) PLATO: Complementary Science  
*Andrew Tkachenko*
- 10o01 (Fr 10:15) Pulsating stars in Ultraviolet: GALEX and WSO-UV  
*Mikhail Sachkov*
- 10k04 (Fr 11:00) The CHEOPS mission  
*Willy Benz*
- 10k05 (Fr 11:25) CHEOPS & stars (& asteroseismology)  
*Sebastià Barceló Forteza*
- 10k06 (Fr 11:50) ARIEL – Atmospheric Remote-sensing Infrared Exoplanet Large-survey  
*Giovanna Tinetti*
- 10k07 (Fr 12:15) Glorious future  
*Theresa Lüftinger*
- (Fr 12:40) **CONFERENCE SUMMARY:**  
*Conny Aerts*

## POSTERS:

- 2p01 Pre-TESS observations of pulsating white dwarf stars at Konkoly Observatory  
*Zsófia Bognár*
- 2p02 Comparison of the results obtained from the stars observing separately by Kepler Satellite and Ground Based Telescopes  
*Ezgi Yoldas*
- 2p03 A pre-main sequence variability classifier for TESS photometry  
*Marco Müllner*
- 2p04 Clumpiness: Time-domain classification of Kepler red giant evolutionary states  
*JamesKuszelewicz*
- 2p05 Classification of variable stars  
*Dóra Tarczay-Nehéz*
- 2p06 LAMOST-II Medium-Resolution Spectroscopic Survey: The stellar parameter pipeline  
*Fang Zuo*
- 3p01 Modeling the Solar-like Radial p-mode Line Profile Asymmetries  
*Jordan Philidet*
- 3p02 planet-host pulsating star HR 8799 as seen by BRITe  
*Ádám Sódor*
- 3p03 The changing non-radial pulsation pattern of the Algol-type star RZ Cas  
*HolgerLehmann*
- 3p04 Asteroseismology of Low-mass Pulsating White Dwarfs  
*Jie SU*
- 3p05 Pre-main sequence g-mode pulsators in K2 and TESS  
*Laura Ketzner*

- 3p06 Asteroseismology of the  $\beta$  Cen system  
*Catherine Lovekin*
- 3p07 Seismic modeling of Epsilon Persei and Epsilon Centauri based on BRITe and ground based photometry plus professional and amateur spectroscopy  
*Elzbieta Zocłonska*
- 3p08 The prototype star gamma Doradus, as viewed by TESS and ground-based telescopes  
*Steven Christophe*
- 3p09 The existence of hot gamma Doradus and A-F type hybrid stars  
*Filiz Kahraman Alicavus*
- 3p11 Delta Scuti stars in the Galactic bulge  
*Henryka Netzel*
- 3p12 Effect of the magnetic field on period spacings of gravity modes in rapidly rotating stars  
*Vincent Prat*
- 3p15 The pulsation spectrum of the mass-accreting component of AS Eri.  
*David Mkrtichian*
- 3p16 Cepheids near and far  
*Dóra Tarczay-Nehéz*
- 3p17 TESS Discovers Tidally Trapped Pulsations in HD 74423  
*Gerald Handler*
- 3p18 Multicolor Photometry of Peculiar Cepheid Stars Observed in the Konkoly Observatory  
*Borbála Cseh*
- 3p19 Science with BRITe-Constellation at the University of Innsbruck  
*Konstanze Zwintz*
- 3p20 Long-term BRITe and SMEI space photometry of gamma Cas (B0.5 IVe)  
*Camilla Torre*
- 4p01 Stellar rotational variability and starspot diagnostics  
*Maxim Khodachenko*
- 4p02 Short-term periodicities in activity of solar-type stars  
*Eka Gurgenchvili*
- 4p03 Measurement of short-period activity cycles of fast rotating stars observed by Kepler mission  
*Maxim Khodachenko*
- 4p04 Superfast spectral variations of OBA stars  
*Alexander Batrakov*
- 4p05 Results of Light Curves Analysis of Eclipsing Dwarf Nova EX Dra  
*Irina Voloshina*
- 4p07 Astronomical Potential of Satellite Star-Tracker Data  
*Andy Pollock*
- 4p08 EM Cep - an Interesting Be Star  
*Nino Kochiashvili*
- 4p09 Old and New observational Data of P Cygni.  
*Sophia Beradze*
- 4p10 The first Ap star in an eclipsing binary system  
*Marek Skarka*
- 4p11 Measuring Rotational Evolution With Space Photometry  
*Matthew Shultz*
- 4p12 Variable stars in the ASAS-SN and APOGEE surveys  
*Michał Pawlak*

- 4p13 The strange case of HD 65987, a magnetic Bp star in the open cluster NGC 2516  
*John Landstreet*
- 4p14 Multi-Instrument Analysis of Gaia, Kepler, ASAS-SN, and ASAS Observations for Long-Period Variables.  
*Erich Hartig*
- 4p15 Superflares on GKM stars  
*Daisaku Nogami*
- 4p16 A new window into massive star variability: 2-min cadence TESS data  
*Jonathan Labadie-Bartz*
- 4p17 STEREO Observations of Be stars  
*Dogus Ozuyar*
- 4p18 Variability in Wolf-Rayet Stars  
*Guillaume Lenoir-Craig*
- 4p20 Five new magnetic stars tipped from their Kepler photometry  
*Iosif Romanyuk*
- 4p21 NUV Variability in the Kepler Field  
*Emanuele Bertone*
- 5p01 New fully evolutionary models for asteroseismology of ultra-massive white dwarf stars  
*Alejandro Hugo Córscico*
- 5p02 2D modelling of Altair  
*Kevin Bouchaud*
- 5p03 Shallow water MHD waves in dynamo layers of solar-type stars  
*Teimuraz Zaqarashvili*
- 5p04 Determining the size of helium cores for two red giant stars by asteroseismic analysis of the individual mixed modes  
*Xinyi Zhang*
- 5p05 Low-Z solar models with overshoot, accretion and mass loss consistent with helioseismic inferences  
*Qian-Sheng Zhang*
- 5p06 The Age of Zero Age Main Sequence Stars as an Analytic Function of Mass  
*Thomas Steindl*
- 5p07 Study of convection in one and multi-dimensional pulsating models  
*Gábor Kovács*
- 5p08 Convective overshooting in low-mass stars  
*Fei Guo*
- 5p09 Probing of stellar deep mixing with Kepler photometry  
*Maxim Khodachenko*
- 5p10 Carbon and nitrogen abundances as probes of material mixing in stars  
*Grazina Tautvaisiene*
- 5p11 Stellar convection: Convective Penetration and Gravito-inertial wave excitation  
*Kyle Augustson*
- 5p12 The s process in rotating low-mass AGB stars: nucleosynthesis calculations in models matching asteroseismic constraints  
*Jacqueline den Hartogh*
- 5p13 Determination of precise stellar parameters via combination of Gaia and AllWISE photometry  
*Volker Perdelwitz*
- 5p14 Stellar Evolution in Real Time: Models Consistent with First Direct Observation of a Thermal Pulse  
*László Molnár*

- 5p15 Detection of Frequency Shifts in Evolved Kepler Stars  
*René Kiefer*
- 5p16 Evolution of the gravity-offset of mixed modes in RGB stars  
*Charly Pinçon*
- 5p17 Insights Into Stellar Magnetism With TESS: Are magnetic A-type stars far more common than previously believed?  
*James Sikora*
- 5p18 Better Physics for Modelling Stars and their Oscillations  
*Regner Trampedach*
- 6p02 Tidal Asteroseismology: Opportunities and Challenges  
*Zhao Guo*
- 6p03 Hot Subdwarf Stars and Binary Evolution  
*David Brown*
- 6p05 Eclipsing binaries with Beta Cephei variables  
*Filiz Kahraman Alicavus*
- 6p06 To be or not to be a binary  
*Nathalie Themeßl*
- 6p08 The  $\beta$  Cep pulsator in the eclipsing binary V381 Car - mode identification and seismic modelling  
*Amadeusz Miszuda*
- 6p09 Evolutionary status of the binary system KIC 10661783 with the  $\delta$  Sct type component  
*Amadeusz Miszuda*
- 6p10 Absolute Properties of the R CMa-type Eclipsing Binary KIC 6206751 with gamma Doradus Pulsations.  
*JaeWoo Lee*
- 6p11 KIC 9163796 – a benchmark binary system for the determination of stellar ages  
*Desmond H. Grossmann*
- 6p12 The spectroscopic multiplicity fraction in a sample of A/F-type (candidate) hybrid stars from the Kepler mission  
*Patricia Lampens*
- 6p14 The variability of the B[e] supergiant binary GG Carinae  
*Augustus Porter*
- 6p15 Possible Connection Between P Cygni and Neighboring Open Clusters  
*Manana Vardosanidze*
- 6p16 Dynamical Mass of a Type II Cepheid and a three-ring disk around its Be companion.  
*Bogumil Pilecki*
- 7p03 From ancestors to offspring: tracing the connection between magnetic fluxes of OB and neutron stars using the population synthesis technique  
*Ekaterina I. Makarenko*
- 7p04 Rotational inversions along the lower part of the red giant branch  
*Felix Ahlborn*
- 7p06 Recognition of M-type stars in the unclassified spectra of LAMOST DR5 using a hash learning method  
*Yanxin Guo*
- 7p08 Analysis of Photometry of Stars from Space and Ground-Based Surveys  
*Dmytro Tvardovskyi*
- 8p01 New powerful outburst of the unusual young star V1318 Cyg S (LkHa 225 S)  
*Hasmik Andreasyan*
- 8p02 Satellite observations as a powerful tool to study flares of you M-stars  
*Eike Guenther*



- 8p04 Ultraviolet variability of evolved B and Be stars  
*Iva Krticková*
- 8p05 Type II Cepheids in the Kepler - K2 mission  
*Monika Jurkovic*
- 8p06 A transiting exocomet detected in broadband light by TESS in the  $\beta$  Pictoris system  
*Sebastian Zieba*
- 8p07 Stellar X-ray and UV irradiation of exoplanets  
*Simon Joyce*
- 8p09 Ondrejov 2-m telescope– ground based support for exoplanetary space  
*Martin Blažek*
- 8p11 Southern Bp-e star HD124448  
*Milan Zboril*
- 9p02 TOSC: an algorithm for the tomography of spotted transit chords  
*Gaetano Scandariato*
- 9p06 Eclipsing binaries hiding in the background: the Kepler Pixel Project  
*Adrienn Forró*
- 9p07 Variability of HADS stars in TESS  
*Krzysztof Kotysz*
- 9p09 Open clusters in TESS data  
*Przemysław Mikołajczyk*
- 9p10 Pulsating Crux: alpha and beta Crucis as seen by BRITE and SMEI  
*Piotr Kolaczek-Szymanski*
- 9p11 Detection threshold relation in Fourier periodograms  
*Piotr Kolaczek-Szymanski*
- 9p12 UVSat mission concept as a future extension of BRITE science  
*Roman Wawrzaszek*
- 9p13 The Warsaw BRITE ground station and its potential for collaboration  
*Grzegorz Woźniak*
- 10p01 The CUTE Small Satellite Mission  
*Luca Fossati*
- 10p02 Multi-Epoch Asteroseismology and Stellar Evolution at the Top of the Main Sequence  
*Derek Buzasi*
- 10p03 Gaia Successor with International Participation  
*Erik Høg*
- 10p04 CHEOPS: CHaracterising ExOPlanet Satellite – Community Access to CHEOPS  
*Kate Isaak*