
Stream Overview

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

- i ... Flashlights (10 min)
- k ... Keynotes (25 min, incl. discussion)
- o ... Contributions (15 min, incl. discussion)

Monday Morning Part 1

<https://youtu.be/jqdNxigoTtc>

Minute	Title	Speaker	
00:00	The space photometry revolution	<i>Franz Kerschbaum</i>	1i01 (Mo 09:30)
11:00	The demystification of classical Be stars through space photometry	<i>Dietrich Baade</i>	1i02 (Mo 09:40)
20:00	Listening to the Heartbeat: Tidal Asteroseismology in Action	<i>Zhao Guo</i>	1i03 (Mo 09:50)
31:00	From no-go to highlights: Red Giants	<i>Thomas Kallinger</i>	1i04 (Mo 10:00)
42:00	An innovative distance determination technique	<i>Pierre Kervella</i>	1i05 (Mo 10:10)
51:00	Nova Carinae 2018 - a first in many respects	<i>Elias Aydi</i>	1i06 Mo 10:20)

Monday Morning Part 2<https://youtu.be/Gy4wu1HKdMo>

Minute	Title	Speaker	
02:30	GAIA's revolution in stellar variability	<i>Laurent Eyer</i>	2k01 (Mo 11:00)
25:30	What we can learn from constant stars, and what means constant?	<i>Ernst Paunzen</i>	2k02 (Mo 11:25)
50:00	Obscured Long Period Variables from the NIR VMC survey	<i>Martin Groenewegen</i>	2o01 (Mo 11:50)
1:07:00	A zoology of high-mass pulsators with the TESS and K2 space missions	<i>Siemen Burssens</i>	2o02 (Mo 12:05)
1:20:00	Break		Break

Monday Afternoon: chairman Gregg Wade – Monday Afternoon<https://youtu.be/jnoJKNloj2g>

Minute	Title	Speaker	
00:00	Potential and challenges of pre-main sequence asteroseismology	<i>Konstanze Zwintz</i>	3k01 (Mo 13:50)
23:30	Observations of internal structures of low-mass main-sequence stars and red giants	<i>Saskia Hekker</i>	3k02 (Mo 14:15)
46:30	The inner structure of intermediate-mass stars revealed	<i>Rhita-Maria Ouazzani</i>	3k03 (Mo 14:40)
1:12:30	Some thorny problems in pre-main sequence models: accretion, convection, rotation, and lithium	<i>Thomas Constantino</i>	3k04 (Mo 15:05)
1:38:30	Asteroseismology of hot subdwarf and white dwarf stars	<i>Valerie van Grootel</i>	3k05 (Mo 15:30)
2:06:30	Break		
2:35:15	What physics is missing in theoretical models of high-mass stars: new insights from asteroseismology	<i>Dominic Bowman</i>	3k06 (Mo 16:25)
3:01:00	Cepheids under the magnifying glass - not so simple, after all!	<i>Richard I. Anderson</i>	3k07 (Mo 16:50)
3:27:30	Asteroseismology of rapidly rotating stars with acoustic modes	<i>Daniel Reese</i>	3k08 (Mo 17:15)
3:53:00	The BRITE SONG of Aldebaran	<i>Paul Beck</i>	3o01 (Mo 17:40)
4:08:00	Complex asteroseismology of SX Phoenicis	<i>Jadwiga Daszynska-Daszkiewicz</i>	3o02 (Mo 17:55)

4:24:00	Modelling Long-Period Variables in the Gaia Era	<i>Michele Trabucchi</i>	3o03 (Mo 18:10)
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Tuesday Morning

<https://youtu.be/c4QVZaqeagc>

Minute	Title	Speaker	
Not on stream	Early-type magnetic stars: the rotation challenge	<i>Gautier Mathys</i>	4k01 (Tu 09:00)
01:30	<i>Be</i> star variability as seen from ground-based and space photometry	<i>Alex C. Carciofi & Jonathan Labadie-Bartz</i>	4k02 (Tu 09:25)
27:00	BRITeSS variations of the BRITest hot stars	<i>Anthony Moffat</i>	4k03 (Tu 09:50)
52:00	Shine BRITeSS: shedding light on the variability of stars through advanced modeling	Damian Fabbian 4o02 (Tu 11:00)	4o01 (Tu 10:15)
1:05:00			Break
1:32:50	Magnetic OB[A] Stars with TESS: probing their Evolutionary and Rotational properties - The MOBSTER Collaboration	<i>Alexandre David-Uraz</i>	9o04 (Tu 11:00)
1:48:00	Stellar convection and pulsation mode physics	<i>Günter Houdek</i>	5k01 (Tu 11:15)
2:13:00	3D Hydrodynamical Simulations of Stellar Convection for Helio- and Asteroseismology	<i>Friedrich Kupka</i>	5k02 (Tu 11:40)
2:36:00	Low-mass stars: where observations and theoretical modeling don't agree	<i>Anne Thoul</i>	5k03 (Tu 12:05)
3:01:30	Break		

Tuesday Afternoon

<https://youtu.be/pYuOqjBmc5A>

Minute	Title	Speaker	
00:00	Challenges to modelling from groundbreaking new data of present/future space and ground facilities	<i>Gisella Clementini</i>	5k04 (Tu 14:00)
26:00	Open problems in high-mass stellar evolution	<i>Sylvia Ekström</i>	5k05 (Tu 14:25)
51:30	Stellar magnetic fields: internal magnetic fields	<i>Jim Fuller</i>	5k06 (Tu 14:50)
1:20:00	Search for quiet stellar-mass	<i>Hiramoto</i>	5k07 (Tu 15:15)

	black holes by asteroseismology from space	<i>Shibahashi</i>	
1:46:00	Accretion Simulations of Eta Carinae and Implications to Evolution of Massive Binaries	<i>Amit Kashi</i>	5o01 (Tu 15:40)
2:00:00			Break
2:19:30	From the Sun to solar-like stars: how does the solar modelling problem affect our studies of solar-like oscillators?	<i>Gaël Buldgen</i>	5o02 (Tu 16:25)
2:34:00	Asteroseismic Binaries as non-Solar Mixing Length Calibrators	<i>Meridith Joyce</i>	5o03 (Tu 16:40)
2:52:30	Unbiased seismic model fitting	<i>Thomas Kallinger</i>	5o04 (Tu 16:55)
3:08:00	The relevance of partial ionization in the outer layers of F-stars	<i>Ana Brito</i>	5o05 (Tu 17:10)
3:23:00	KIC 11971405 - the SPB star with the four asymptotic sequences of g modes	<i>Wojciech Szewczuk</i>	5o06 (Tu 17:25)
3:39:30	An entropy-based calibration of the mixing-length parameter using 3D numerical simulations of convection	<i>Federico Spada</i>	5o07 (Tu 17:40)
3:53:30	The slowly pulsating B-star 18 Peg: A testbed for upper main sequence stellar evolution	<i>Andreas Irrgang</i>	5o08 (Tu 17:55)
4:06:00	Determination of precise stellar parameters of Kepler LEGACY targets using the WhoSGLAd method	<i>Martin Farnir</i>	5o09 (Tu 18:10)

Wednesday Morning

<https://youtu.be/gjrWBxzt-6Y>

Minute	Title	Speaker	
<i>Not on stream</i>	Improving stellar evolution models with atomic diffusion from asteroseismology of intermediate-mass stars	<i>Joey Mombarg</i>	5o10 (We 09:00)
0:00	Interactions of waves with convection	<i>Jesper Schou</i>	5o11 (We 09:15)
16:30	Is it time to retire the Sun as the reference star for determining red giant stellar parameters	<i>Nathalie Themeßl</i>	5o12 (We 09:30)
32:00	Can gravity modes unravel near-core mixing profiles inside stars?	<i>Mathias Michielsen</i>	5o13 (We 09:45)

46:00	The rotation profile of gamma Dor stars: inference from Rossby modes	<i>Steven Christophe</i>	5o14 (We 10:00)
1:04:00	A Novel Modeling of Magneto-Rotating Stellar Evolution	<i>Koh Takahashi</i>	5o15 (We 10:15)
1:23:30	Organisation Information and Break		
1:26:30	Binaries as key laboratories for stellar physics	<i>John Southworth</i>	6k01 (We 11:00)
1:55:00	Pulsating Stars in Binary Systems	<i>Simon Murphy</i>	6k02 (We 11:25)
2:23:00	R-mode oscillations in eclipsing binaries	<i>Hideyuki Saio</i>	6o01 (We 11:50)
2:38:30	Inclination Surveys in Open Clusters Using Be Stars	<i>Aaron Sigut</i>	6o02 (We 12:05)
2:55:30	On the amount and origin of the mass discrepancy in binaries	<i>Andrew Tkachenko</i>	6o03 (We 12:20)
3:23:00	UVSat- A concept of ultraviolet / optical photometric microsatellite	<i>Andrzej Pigulski</i>	Brite Meeting

Wednesday Afternoon

<https://youtu.be/7Aan9yORXIU>

Minute	Title	Speaker	
<i>Kein Stream</i>	Calibrating asteroseismology for red giants with eclipsing binaries	<i>Mansour Benbakoura</i>	6o04 (We 14:00)
0:00	The Massive Heartbeat Project: Mapping the Upper HR Diagram	<i>Bert Pablo</i>	6o05 (We 14:15)
15:00	Protostellar accretion bursts and their effect on the pre-main-sequencestellar evolution	<i>Eduard Vorobyov</i>	7o01 (We 14:30)
32:00	Recent advances in numerical models that include atomic pre-main-sequencestellar evolution	<i>Georges Alecian</i>	7o02 (We 14:45)
49:00	High-resolution view of hot-star magnetic fields: current status and future challenges	<i>Oleg Kochukhov</i>	7o03 (We 15:00)
1:06:00	Modelling the polarimetric signatures of magnetic massive stars with ADM	<i>Melissa Munoz</i>	7o04 (We 15:15)
1:20:00	Putting Stars into Boxes	<i>Elizabeth Griffin</i>	7o05 (We 15:30)

Thursday Morning

Part 1 <https://youtu.be/aZWri35b898>

Part 2 <https://youtu.be/i4UAOc1BDtE>

Part 3 <https://youtu.be/zSEH6rxjt80>

Part 4 <https://youtu.be/jv3Jtu6xFsA>

Part 5_1 <https://youtu.be/yaNdfxk1MFQ>

Part 5_2 <https://youtu.be/hVQukpdUkto>

Part 6 <https://youtu.be/-jpxoCG6yL4>

Part 7 <https://youtu.be/EmGIqSioiCQ>

Part 8 <https://youtu.be/R1oXQzPXk7M>

Part 9 <https://youtu.be/PzTYX59c6oE>

Minute	Title	Speaker	Name
Part 1 0:30	Discs around Be stars and complex radiation effects	<i>Nathaniel Dylan Kee</i>	8k01 (Th 09:00)
Part 1 29:00	Tides in star-planet systems and angular momentum exchanges	<i>Stephane Mathis</i>	8k02 (Th 09:25)
Part 2 2:30	Tracing stellar wind variability from space	<i>Jiri Krlicka</i>	8k03 (Th 09:50)
Part 3 (1:30) and Part 4	Cepheid Spheres of Influence	<i>Nancy R. Evans</i>	8o01 (Th 10:15)
Part 5 and Part 5_2	Star-planet magnetic interactions	<i>Antonino Francesco Lanza</i>	8k04 (Th 11:00)
Part 6 3:50	Dynamics of star-disk interaction processes in young, low-mass stars as seen from space	<i>Laura Venuti</i>	8k05 (Th 11:25)
Part 7 2:30	The distance of the Cepheid RS Puppis from its light echoes	<i>Pierre Kervella</i>	8o02 (Th 11:50)
Part 8 1:00	Coronal Cycles: αCen AB, Procyon, and the Sun	<i>Thomas Ayres</i>	8o03 (Th 12:05)
Part 9 1:20	Brite Photometric Variability of the Intriguing Wolf-Rayet Star WR6: Rotational or Binary Modulations	<i>Nicole St-Louis</i>	8o04 (Th 12:20)

Thursday Afternoon

<https://youtu.be/f-NuDhpr244>

Minute	Title	Speaker	
0:00	Do planet systems influence the host star atmospheric abundances	<i>Tatiana Ryabchikova</i>	8o05 (Th 14:00)
16:00	Nanosatellite Technology	<i>Otto Koudelka</i>	9k01 (Th 14:15)
42:30	BRITe-Constellation Operations and Data Collection	<i>Rainer Kuschnig</i>	9k02 (Th 14:40)
1:10:00	Lessons learned from Kepler and TESS	<i>Victoria Antoci</i>	9k03 (Th 15:05)
1:37:00	Solar-Like Oscillations:	<i>Daniel Huber</i>	9k04 (Th 15:30)

	Lessons learned and First Results from TESS		
2:00:00	Break		
2:28:00	TESS RR Lyrae and Cepheid stars: first results	<i>Emese Plachy</i>	9k05 (Th 16:25)
2:53:00	Flares, shocks, and dust in the remarkable nova ASASSN-18fv: a one in a million chance light-curve	<i>Elias Aydi</i>	9o01 (Th 16:50)
3:08:00	Pulsations in massive close binaries: TESS versus BRIT	<i>Andrzej Pigulski</i>	9o02 (Th 17:05)
3:28:00	Progress in the understanding of massive star interiors using	<i>Gerald Handler</i>	9o03 (Th 17:20)
3:45:00	Insights Into Stellar Magnetism With Kepler: Are magnetic A-type stars far more common than previously believed?	<i>James Sikora</i>	Thursday

Friday Morning

<https://youtu.be/zvNxsarLG0M>

Minute	Title	Speaker	
5:30	PLATO mission status	<i>Juan Cabrera</i>	10k01 (Fr 09:00)
34:00	PLATO instrument: end-to-end photometry performance and seismic potentials	<i>Réza Samadi</i>	10k02 (Fr 09:25)
1:01:00	PLATO: Complementary Science	<i>Andrew Tkachenko</i>	10k03 (Fr 09:50)
1:26:00	Pulsating stars in Ultraviolet: GALEX and WSO-UV	<i>Mikhail Sachkov</i>	10o01 (Fr 10:15)
1:43:00	The CHEOPS mission	<i>Willy Benz</i>	10k04 (Fr 11:00)
2:04:30	CHEOPS & stars (& asteroseismology)	<i>Sebastià Barceló Forteza</i>	10k05 (Fr 11:25)
2:19:00	ARIEL – Atmospheric Remote-sensing Infrared Exoplanet Large-survey	<i>Giovanna Tinetti</i>	10k06 (Fr 11:50)
2:47:00	Glorious future	<i>Theresa Lüftinger</i>	10k07 (Fr 12:15)
3:14:00	CONFERENCE SUMMARY	<i>Conny Aerts</i>	(Fr 12:40)
			Pictures and Talk

Friday Conclusion

<https://youtu.be/8LwXvFY8idI>

0:00	CONFERENCE SUMMARY	<i>Conny Aerts</i>	(Fr 12:40)
20:00	Pictures and Thanks		Pictures and Thanks