

SDOB7 — PROGRAMME

Date of Last Update: 2015 July 18<sup>th</sup>

July 19<sup>th</sup> – Sunday

L. O'Donnell 18:00-20:00 RECEPTION - DENYS WILKINSON BUILDING (Use steps opposite the junction between Keble Road and Blackhall Road.)

July 20<sup>th</sup> – Monday

D. Kilkenny	09:20-09:35	A Tribute to Darragh O'Donoghue
S. Balbus	09:35-09:40	Welcoming Remarks
SESSION 1		INTERPRETATION OF OBSERVATIONS
A. Baran	09:40-10:00	A Circumbinary Planet in 2M1938+4603
S. Dreizler	10:00-10:20	Planets in Post Common Envelope Binaries
M. Vučković	10:20-10:40	Testing the Planetary Hypothesis of the Post-Common-Envelope Binary HW Virginis
	10:40-11:10	COFFEE
J.J. Hermes	11:10-11:30	Confronting the “Extreme Planetary Systems” Claimed Around sdBVs
M. Kilic	11:30-11:50	Planetary Remnants Around White Dwarfs
D. Hoyer	11:50-12:10	On the Nature of the Secondary Star in AA Dor
S. Dhawan	12:10-12:30	Measuring the Orbital Decay of the Close sdB+WD Binary CD $-30^{\circ}11223$ Caused by Gravitational Wave Emission
	12:30-14:00	LUNCH
B. Barlow	14:00-14:20	Now You See It, Now You Do Not: The Disappearing Pulsations of CS 1246
U. Heber	14:20-14:40	Hot Subdwarf Stars from the Hamburg Surveys Revisited
P. Németh	14:40-15:00	Hot Subdwarfs in the Sloan Digital Sky Survey
S. Kreuzer	15:00-15:20	Spectral Decomposition of sdB Binaries
	15:20-15:50	TEA
T. Kupfer	15:50-16:10	The Observational Short-Period Population of Hot Subdwarf Binaries
S. Moehler	16:10-16:30	Hot UV Bright Stars in Globular Clusters – The Sequel
Ph. Podsiadlowski	16:30-17:30	DISCUSSION PERIOD #1



July 22<sup>nd</sup> – Wednesday

H. Ghasemi	09:00-09:20	Forward Modelling of the Gravity-Mode sdB Pulsator KIC 10553698A
D. Bossini	09:20-09:40	Uncertainties on Near-Core Mixing in Red-Clump Stars: Effects on the Period Spacing and on the Luminosity of the AGB Bump
I. Lopes	09:40-10:00	Nearby Stars as Gravity Detectors
C. Koen	10:00-10:20	The Reliability of Period Detections in Regularly-Spaced Time Series.
S. Bebb	10:20-10:30	Conference Photograph
	10:30-11:02	Poster Adverts
	11:02-11:30	COFFEE + POSTER SESSION
C. Aerts	11:30-12:30	DISCUSSION PERIOD #3
	12:30-14:00	LUNCH
L. O'Donnell	14:00-17:00	Blenheim Palace Tour
Ph. Podsiadlowski	19:00-23:00	Conference Dinner (St. Edmund's Hall)

July 23<sup>rd</sup> – Thursday

SESSION 3

EVOLUTION - CONNECTION BETWEEN RED GIANTS, HOT SUBDWARFS AND WHITE DWARFS

R.-M. Ouazzani	09:00-09:20	The Puzzle of Angular Momentum Distribution in Red Giant Stars
A. Istrate	09:20-09:40	Element Diffusion and Rotational Mixing: Their Effect on the Evolution of Proto-Helium White Dwarfs
Y. Li	09:40-10:00	Overshooting Mixing in RGB and Horizontal Branch Stars
J.-T. Schindler	10:00-10:20	MESA Stellar Evolution Models of sdB Stars
J. Vos	10:20-10:40	Testing Eccentricity Pumping Processes in Wide sdB Binaries with MESA
	10:40-11:10	COFFEE
A. Romero	11:10-11:30	Exploring the Dependence of Hot Subdwarf Star Evolution on Metallicity
V. Schaffenroth	11:30-11:50	The EREBOS project - Studying the Influence of Substellar Objects on the Late Stages of Stellar Evolution
M. Schindewolf	11:50-12:10	A New HW Vir Binary From the Palomar Transient Factory: PTF1 J072455.75+125300.3 - An Eclipsing Subdwarf-B Binary with a M-Star
N. Reindl	12:10-12:30	Recent Progress on our Understanding of He-Dominated Stellar Evolution
	12:30-14:00	LUNCH
Z. Han	14:00-14:20	Common-Envelope Evolution for the Formation of sdB Binaries
N. Ivanona	14:20-14:40	Common Envelope Evolution with Low-Mass Giants
J.W. Schwab	14:40-15:00	The Long-Term Outcomes of White Dwarf Mergers: sdBs and RCBs
S.O. Kepler	15:00-15:20	Low Mass White Dwarf Stars
	15:20-15:50	TEA
A. Gianninas	15:50-16:10	The Search for the Shortest Period Binary White Dwarfs: The Latest Results from the ELM Survey
W. Brown	16:10-16:30	Merger Rate of Low Mass White Dwarf Binaries
S. Geier	16:30-17:30	DISCUSSION PERIOD #4
A.E. Lynas-Gray	20:00-24:00	ROYAL OAK RECEPTION

July 24<sup>th</sup> – Friday

M. Latour 09:40-10:00 Spectral Analysis of HD 188112: a Metal-Poor Pre-Helium Core White Dwarf  
T.R. Marsh 10:00-10:20 The Coolest Extremely Low-Mass White Dwarf and an Astrophysical Conundrum  
P. Maxted 10:20-10:40 Stripped Red Giant Stars

10:40-11:10 COFFEE

C. Heuser 11:10-11:30 Quantitative Spectral Analysis of the Stripped Red-Giant Star 1SWASP J024743.37-251549.2B  
X. Chen 11:30-11:50 The Formation of EL CV<sub>n</sub>-Type Binaries  
X. Meng 11:50-12:10 Do all SNe Ia Have the Same Explosion Mechanism?  
B. Wang 12:10-12:30 The Hybrid CONeWD + He star Binaries as the Progenitors of Type Ia Supernovae

12:30-14:00 LUNCH

SESSION 4

FUTURE PROSPECTS

M. Altmann 14:00-14:30 GAIA - the Bright and Near Future for Galactic and Stellar Science  
S. Bloemen 14:30-14:50 The BlackGEM and MeerLICHT Telescopes: Future Facilities Ideally Suited to Search for Variable Subdwarf Stars  
C.S. Jeffery 14:50-15:10 Dynamical Model Atmospheres and Emergent Spectra for Pulsating Proto-Subdwarfs

15:10-15:40 TEA

U. Heber 15:40-16:40 DISCUSSION PERIOD #5

C.S. Jeffery 16:40-17:00 Conference Summary

July 25<sup>th</sup> – Saturday

A.E. Lynas-Gray 10:00-19:00 Tour of Stonehenge and Salisbury Cathedral (Bus departs from Keble Road at 10:00 and returns by 19:00)