

## POSTERS

(alphabetically by first name)

### **Monday 15<sup>th</sup> April**

Aarynn Carter

*The transmission spectrum of WASP-6b: a detection of H<sub>2</sub>O and the effect of stellar activity*

Alexander Chaushev

*Detecting Exoplanets with Convolutional Neural Networks: Application to the Next Generation Transit Survey*

Angelos Tsiaras

*The legacy of HST/WFC3: a prototype for future population studies of exoplanets*

Annelies Mortier

*Filling the mass-radius diagram with HARPS-N*

Antranik A. Sefilian

*a) Trans-Neptunian Disc: An Alternative to "Planet Nine"*

*b) Formation of Gaps in Debris Discs*

Ares Osborn

*The Planet-Metallicity Correlation for Hot Jupiters*

Benjamin Cooke

*TESS monotransits: predicted yield and early results*

Christopher Manser

*Planetesimals in close orbit around white dwarfs*

Craig Duguid

*Tidal dissipation dependence on orbital frequency*

Daniel Cummins

*Spiral Arms in the HD 142527 Outer Disc*

Edward Bryant

*Ultra-High Precision Photometry of Bright Exoplanet Hosts With NGTS*

Emma Foxell

*The NITES M Dwarf Exoplanet Survey*

Eva-Maria Ahrer

*Comprehensive Modelling of Radial Velocity Data with PolyChord*

Florian Lienhard

*Global analysis of the TRAPPIST Ultra-Cool Dwarf survey*

Francesco Lovascio

*Implementations of one fluid dust-gas models; the limitations and benefits*

George King

*The XUV irradiation and likely atmospheric escape of the super-Earth Pi Men c*

Hugh Osborn

*Rapid Classification of TESS Planet Candidates with Convolutional Neural Networks*

Jack Humphries

*Core feedback disruption of gravitational instability planets: explaining the ALMA dust gaps*

Jake Taylor

*The implications of an inhomogeneous horizontal temperature structure in the analysis of JWST observations*

James Doherty

*Chromospheric activity of close-in transiting planet hosts: probing mass-loss and star-planet interactions*

James Rogers

*A Bayesian Hierarchical Model for Planetary Properties at Formation*

Jean Costes

*Investigation in the long-term variations of the activity of the stars*

Jeff Jennings

*When and how the TTV mass-eccentricity degeneracy can bias recovered planet masses*

John Harrison

*Polluted White Dwarfs: insights regarding the origin and geology of exo-planetary material*

John Young

*INT, Robot: Implementing Service Mode Observing for HARPS3*

Joshua Briegal

*Extracting Stellar Variability with NGTS and the Generalised Autocorrelation Function*

Kai Hou (Gordon) Yip

*Integrating light-curve and atmospheric modelling of transiting exoplanets*

Katy Chubb (& Sergey Yurchenko, Jonathan Tennyson, Ingo Waldmann)

*Acetylene and other exoplanet molecules*

## **Tuesday 16<sup>th</sup> April**

Ken Rice

*The binarity of systems with close-in, massive planetary and brown dwarf companions*

Kristine Lam

*Two mini-Neptunes in a near 3:2 mean motion resonance and TTV measurements from K2*

Luis Welbanks & Nikku Madhusudhan

*On degeneracies in retrievals of exoplanetary transmission spectra*

Luke Jonathan Johnson

*Simulating magnetically driven stellar variability on faculae-dominated stars*

Maire Gorman

*a) ZeemanMol: Calculation of Zeeman effect spectra for diatomic molecules using ExoMol line lists*

*b) An updated ExoMol line list for SH for the A--X transition*

Matteo Brogi

*Retrieving Temperature and Abundances of Exoplanet Atmospheres with High-resolution Cross-correlation Spectroscopy*

Matthew Hooton

*Storms or systematics? The search for atmospheric variability in hot Jupiters*

Mark Phillips

*Atmosphere and Evolutionary models for Brown Dwarfs and Giant Exoplanets*

Maximilian N. Guenther

*Early Science from the Transiting Exoplanet Survey Satellite (TESS)*

Mihkel Kama

*An observational foundation for disk-planet chemical connections*

Nora Eisner

*TESS: the Search for planets using Citizen Science*

Norbert Zicher

*Radial velocity analysis of AU Microscopii*

Patrick Cronin-Coltsmann

*ALMA Observations of the Fomalhaut C Debris Disk its Insights on the History of the Fomalhaut System*

Paul Hallam

*Constraining the masses of planets in protoplanetary discs from the presence or absence of vortices  
- Comparison with ALMA observations*

Quentin Changeat

*Complex chemical profiles in the JWST and ARIEL era*

Rachel Drummond

*The ARIEL mission*

Richard Hall

*Measuring the Effective Pixel Positions of the HARPS3 CCD*

Ryan MacDonald et al.

*a) A Metal-Rich Exo-Neptune Atmosphere*

*b) The 3D atmosphere of the ultra-hot Jupiter HAT-P-7b: clouds, chemistry, and spectral predictions*

Sahl Rowther

*Survivability of Giant Planets in Self-gravitating Discs with a Variable Cooling Rate*

Samantha Thompson  
*HARPS3 and the Terra Hunting Experiment*

Samuel Gill  
*GPU-accelerated fitting of NGTS light-curves*

Sanson Poon  
*Formation of Kepler compact multi-systems by dynamical instabilities and giant impacts*

Simon Ebo  
*MOSES: MHT Optical Star and Exoplanet Survey*

Sophie Dubber  
*Spectra of Brown Dwarfs from the W-band Survey*

Stephanie Merritt  
*The enigmatic absence of metal oxides in WASP-121b*

Timmy Delage  
*Atmospheric escape from disintegrating ultra-short period rocky planets*

Vedad Hodzic  
*WASP-128b: a transiting brown dwarf in the dynamical-tide regime*