UKI Discs Meeting

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Day 1 – Monday 8th September
10:15–10:45 Welcome Tea & Coffee
10:45–12:30 Introduction & Review Talks — Chair: Phil Lucas
10:45–11:00 — Introduction (Welcome, Code of Conduct, Logistics) — Phil Lucas (Herts)
11:00–11:30 — Review Talk: Protoplanetary Discs — John Ilee (Leeds)
11:30-12:00 — Review Talk: Debris Discs — Minjae Kim (MSSL, UCL)
12:00–12:30 — Review Talk: White Dwarf Discs — Amy Bonsor (Cambridge)
12:30-14:00 Lunch
14:00-15:00 Disc Structure and Evolution 1
14:00-14:15 — Insights into early stages of disk evolution — Fabiola Antonietta Gerosa (UCL)
14:15-14:30 — The fate of the 2nd circumbinary disc — post-AGB binaries — Anna Penzlin (LMU
Munich)
14:30-14:45 - \rho Ophiuchi and the hidden mass reservoir — Isaac Radley (Leeds)
14:45–15:00 — Debris-disc masses: first constraints from narrow discs — Tim Pearce (Warwick)
15:00-15:30 Tea Break
15:30–16:30 Disc Structure and Evolution 2
15:30-15:45 — The Secret Lives of Disks: the earliest stages — Maria Jose Maureira (MPE)
15:45–16:00 — (Sub)mm Analysis of HD 32297's Edge-on Debris Disk — Patricia Luppe (Trinity)
16:00–16:15 — The ODISEA Project: Planet Formation in \rho Ophiuchi — Camilo González-Ruilova
(USantiago)
16:15-16:30 — Asymmetric debris disks: how do eccentric rings glow? — Joshua Lovell (CfA Harvard-
Smithsonian)
16:30–17:00 Poster Pop-ups
17:00-18:00 Poster Session
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Day 2 – Tuesday 9th September 09:15–10:30 Disc Structure and Evolution 3 09:15–09:30 — The transition from protoplanetary to debris discs — Benjamin Homewood (Exeter) 09:30–09:45 — VLTI reveals the inner disc of a massive protostar — Maria Koutoulaki (Leeds) 09:45–10:00 — Planetesimals in debris discs and dust grain sizes — Jonathan Marshall (ASIAA) 10:00–10:15 — Spiral Arms in a Nearly Broken Protoplanetary Disc — Sahl Rowther (Leicester) 10:15–10:30 — Planets and Substructure Feedbacks on Disk Thermal Structure — Kan Chen (UCL)

10:30-11:00 Coffee Break

11:00-11:45 Irradiated Discs

- 11:00–11:15 Externally irradiated planet-forming disks Thomas Haworth (QMUL)
- 11:15–11:30 The Lifetimes and Evolution of Discs in Starburst Environments Matt Cusack (Cardiff)
- 11:30–11:45 Role of Cluster Environment on Protoplanetary Disks Saumya Gupta (QMUL)

11:45–12:00 Disc Processes 1

11:45–12:00 — High angular resolution evidence of dust traps from deep ALMA Band 3 observations of LkCa15 — Anibal Sierra (UCL)

12:00-13:30 Lunch

13:30-15:00 Disc Processes 2

- 13:30–13:45 Planet migration in Turbulent Disc Yinhao Wu (Leicester)
- 13:45–14:00 Gone with Wind: CO depletion in MHD-wind driven discs Zuzanna Jonczyk (Leeds)
- 14:00–14:15 MRI and vertical oscillations in distorted disks Loren Held (DAMTP Cambridge)
- **14:15–14:30** Dust dynamics in the inner regions of protoplanetary disks Thomas Jannaud (DAMTP Cambridge)
- 14:30–14:45 Gas Heating & Cooling in Debris Discs: Insights from β Pic Sana Ahmed (Trinity)
- 14:45–15:00 A mechanism to form radially compact protoplanetary discs Simin Tong (Leicester)

15:00–15:30 Tea Break

15:30–16:45 Time Domain Studies of Discs 1

- **15:30–15:45** WD Debris Disks: Variability Incompatible with Canonical Model Hiba Tu Noor (UCL)
- 15:45–16:00 Characterising a WD with transiting debris in the habitable zone Akshay Robert (UCL)
- 16:00–16:15 Temporal variation of warps & shadows in protoplanetary discs Katie Milsom (Exeter)
- **16:15–16:30** Eruptive Variables in Nearby Star-Forming Regions with VVV Hariharan Muthu (Herts)
- 16:30–16:45 Unveiling the variability of massive YSOs with the VVV/X survey Gabriella Zsidi (Herts)

16:45-17:00 Conference Photo

17:00-17:30 Time Domain Studies of Discs 2

- 17:00—17:15 Non-Thermal Radio Variability in YSOs: A VLBA Census of the ONC Eoin O'Kelly (Herts)
- **17:15–17:30** The Missing YSO Outbursts: Mid-IR Selected Eruptive YSOs Calum Morris (Valparaíso)

17:30-18:00 Discussion

Day 3 – Wednesday 10th September

09:15-10:30 Disc Composition

09:15-09:30 — Dust compositions in white dwarf disks — Andrew Swan (Warwick)

09:30–09:45 — Inside the water snowline: connecting disk evolution to JWST spectra — Till Kaefer (Exeter)

09:45–10:00 — ARKS: Resolved 12CO/13CO Ratios in Debris Discs — Sorcha Mac Manamon (Trinity)

10:00–10:15 — Chemical co-evolution of dust and gas in protoplanetary discs — Tamara Molyarova (Leeds)

10:15–10:30 — Chemical Compositions of Disk-instability planets — George Blaylock-Squibbs (UCLan)

10:30–10:45 Formation of Planets & Brown Dwarfs 1

10:30-10:45 — V960 Mon b: a dust-embedded substellar object formed by GI? — Anuroop Dasgupta (ESO)

10:45-11:15 Coffee Break

11:15–12:30 Formation of Planets & Brown Dwarfs 2 & EDI session

11:15–11:30 — Planet formation by disc fragmentation: the impact of dust growth on opacity — Hans Lee (Leicester)

11:30–11:45 — Planet formation sculpted by infall: the importance of multi-scale turbulence — Andrew Winter (QMUL)

11:45–12:15 — Equity and Inclusivity Practices in Academia — Amena Faruqi (Warwick)

12:15—12:30 — Sandwiched planet formation: restricting the mass of a middle planet — Farzana Meru (Warwick)

12:30-14:00 Lunch

14:00–14:45 Formation of Planets & Brown Dwarfs 3

14:00—14:15 — Towards a population synthesis study of increasingly realistic protoplanetary discs — Adam Koval (Edinburgh)

14:15–14:30 — Testing planet formation via GI: FU Ori outbursts and Free-Floating Planets — Sergei Nayakshin (Leicester)

14:30—14:45 — Planet formation in spontaneous dust traps in magnetized disks — Timmy Delage (Imperial)

14:45–15:45 Exoplanet discs & planetesimal signatures

14:45–15:00 — Exocomets Overview — Daniela Iglesias (Leeds)

 $\bf 15:00-15:15$ — The search for Exorings and a Short Period Circumsecondary Disk Candidate — Niamh Mallaghan (QUB)

15:15-15:30 — Discs around planetary-mass objects: new insights from JWST — Belinda Damian (St Andrews)

15:30–15:45 — When Worlds Collide: Imaging post-impact debris in HD172555 — Zoe Roumeliotis (Trinity)

15:45 Closing remarks