## ESA Space Science Faculty Workshop, SSW#15

30 November – 02 December 2022, Akersloot, The Netherlands

## Wednesday, 30 November 2022

11:30 Bus ESTEC – Akersloot 12:00 Bus Schiphol – Akersloot

12:00 – 14:30 <u>Arrival, Lunch</u> (room keys available as of 14:00) 14:30 – 14:45 Welcome (Markus Kissler-Patig), Introduction (Chair), Start of program

14:45 – 15:45 Science Talks, Chairing: In-room: Oliver Hall, Online: Jack Wright

14:45 – 15:00 Solar Jet Hunter, a citizen project to study jets in the solar corona, Sophie Musset

15:00 – 15:15 Bursts and bombs in the solar atmosphere - a magnetic reconnection story, Chris Nelson

15:15 – 15:30 Solar flare X-ray observations of time-variability with Solar Orbiter STIX, Laura Hayes

15:30 – 15:45 Solar System Objects as Observed by Euclid, Aurélien Verdier

15:45 – 16:15 <u>Coffee break</u>

16:15 – 17:35 Science Talks, Chairing: In-room: Jack Wright, Online: Oliver Hall

16:15 – 16:30 A Martian investigation: Where did the water go and where is it now? Lucie Riu

16:30 – 16:45 Understanding Recent River Flows on Mars, Rickbir Bahia

16:45 – 17:00 What lurks beneath the polar ice caps of Mars? Colin Wilson

17:00 – 17:15 The power of combining science and visualisations, Tineke Roegiers

17:15 – 17:35 Invited: JWST: New science results, Chris Evans

17:35 – 18:35 <u>Poster session</u> (in person & online, poster pitch talks), Chairing: In-room: Ricci Bahia, Online: Chris Nelson &

Introduction of new Research Fellows, Chairing: Yannis Zouganelis

18:35 – 20:00 Welcome Cocktail/Snacks/Posters (@ venue)/Socializing

20:00 <u>Dinner</u>

## Thursday, 01 December 2022

07:30 – 08:20 Special event: Yoga class at venue, Miho Janvier, Sophie Musset

09:30 – 10:30 Science Talks, Chairing: In-room: Eleni Bohacek, Online: Katja Fahrion

09:30 – 09:45 Comparative (icy) planetology using photometry, Ines Belgacem

09:45 – 10:00 *The 3.1* μm NIR feature is not due to surface water ice on asteroids, Laurence O'Rourke

10:00 – 10:15 What can impact ejecta from the Caloris basin tell us about Mercury's interior and formation? Jack Wright

10:15 – 10:30 Yes, Hollows on Mercury are made of sulfides and it drives their spatial distribution! Sebastien Besse

10:30 – 11:00 <u>Coffee break</u>

- 11:00 12:30 <u>Science Talks</u>, Chairing: In-room: Katja Fahrion, Online: Eleni Bohacek
- 11:00 11:15 Solar Orbiter and the solar/heliospheric fleet coordinated observations of a filament eruption: a test bed for a global eruptive flare model, Miho Janvier
- 11:15 11:30 Is AD Leo featuring a polarity reversal of the large-scale magnetic field? Long-term monitoring across near-infrared and optical domains with SPIRou, ESPaDONS and NARVAL, Stefano Bellotti
- 11:30 11:45 Probing small exoplanets' evolution with the ESA-powered Antarctic telescope and HST, Maximilian Guenther
- 11:45 12:00 Precise Dynamical Masses of New Directly Imaged Companions from Combining Relative Astrometry, Radial Velocities, and Hipparcos-Gaia eDR3 Accelerations, Emily Rickman
- 12:00 12:15 Towards population studies of exoplanet atmospheres, Quentin Changeat
- 12:15 12:30 Data Science: The Good, the Bad and the Ugly, Jan Reerink
- 12:30 14:00 <u>Lunch</u>
- 14:00 15:30 Science Talks, Chairing: In-room: Emily Rickman, Online: Ines Belgacem
- 14:00 14:15 So, was I right or was I wrong? Guido De Marchi
- 14:15 14:30 A glimpse into the internal kinematics of globular clusters with HST, Mattia Libralato
- 14:30 14:45 Characterising the asteroseismic Red Clump standard candle in Gaia magnitude, colour, metallicity and alpha abundance, Oliver Hall
- 14:45 15:00 White dwarfs, dust, discs and debris, Nicola Gentile Fusillo
- 15:00 15:15 Fast & Furious: The time-domain richness of X-ray transient phenomena, Alicia Rouco Escorial
- 15:15 15:30 Looking for observational signatures of feedback from accreting supermassive black Holes, Chiara Circosta
- 15:30 16:00 <u>Coffee break</u>
- 16:00 17:00 Science Talks, Chairing: In-room: Ines Belgacem, Online: Emily Rickman
- 16:00 16:15 Scientific landing site analysis for ESA's PROSPECT instrument, Sarah Boazman
- 16:15 16:30 Individual dust particle analysis in the sourroundings of 67P, Julia Marin-Yaseli de la Parra
- 16:30 16:45 Are spacecraft engineering data useful for science purposes? Olivier Witasse
- 16:45 17:00 Unraveling ion acceleration in solar energetic particle events with Solar Orbiter, Nils Janitzek
- 17:00 17:20 <u>Poster session</u> (in person & online, poster pitch talks), Chairing: In-room: Lucie Riu, Online: Maximilian Guenther
- 17:20 17:35 Short coffee break
- 17:35 18:35 Faculty Matters
- 18:35 20:00 Posters (@ venue), Free time, Socializing

20:00 Dinner buffet

Before 09:00 Check-out from hotel

- 09:00 09:40 <u>Science Talk</u>, EDI, Chairing: In room: Gaitee Hussain, Online: Lucie Riu 09:00 09:40 *Diversity & Inclusion: Well-being in Astronomy*, Natalie Webb
- 09:40 10:40 Science Talks, Chairing: In room: Chiara Circosta, Online: Lucie Riu
- 09:40 09:55 From the center of the Milky Way to the most distant objects in the Universe, Alice Young
- 09:55 10:10 How do nuclear star clusters form? Katja Fahrion
- 10:10 10:30 JWST: New science results, Chris Evans
- 10:30 10:45 Preparing for JWST with HST/COS spectroscopy of Pox 186: a local analogue of z > 6 Galaxies, Nimisha Kumari
- 10:45 11:10 Coffee break (final opportunity for check-out)
- 11:10 12:05 Science Talks, Chairing: In room: Oliver Jennrich, Online: Ricci Bahia
- 11:10 11:50 How observing the Earth from Space supports our quest to tackle climate Change, Susanne Mecklenburg, ESA Climate Office
- 11:50 12:05 The Cosmological Likelihood for Observables in Euclid, Guadalupe Canas Herrera
- 12:05 12:10 Thanks (Chair) and
- 12:10 12:30 Closing Remarks: Guenther Hasinger

12:30 – 13:30 Lunch

13:30 Bus for Schiphol leaving 14:00 Bus for ESTEC leaving