

Netherlands Astronomers' Conference 2024

Monday, May 13, 2024

Check-in and registration - Lounge (10:00 AM – 11:30 AM)

Lunch - Lounge (11:30 AM - 1:00 PM)

Plenary session – Lamoraal-room (1:00 PM - 2:30 PM)

Opening by Nathalie Degenaar, Mitchel Stoop & Peter Barthel (1:00 PM, 15 minutes)

Invited “meet-new-staff”: Internal fractionation of atmospheric volatiles on molten exoplanets (1:15 PM, 15 minutes)

Presenter: Tim Lichtenberg (University of Groningen)

Tidal disruption events' constraints on the origin of massive black holes (1:30 PM, 15 minutes)

Presenter: Anna Balardo (Leiden University)

A NICER View of the Nearest and Brightest Millisecond Pulsar: PSR J0437–4715 (1:45 PM, 15 minutes)

Presenter: Devarshi Choudhury (University of Amsterdam)

Perceptions of the societal responsibility of astronomers in the context of the Africa Millimeter Telescope (2:00 PM, 15 minutes)

Presenter: Maaïke Pierik (Radboud University)

Euclid in space! (2:15 PM, 15 minutes)

Presenter: Koen Kuijken (Leiden University)

Coffee + Poster Session - Lounge (2:30 PM - 3:00 PM)

Plenary session – Lamoraal-room (3:00 PM - 4:30 PM)

Invited “meet-new-staff”: Radio detection of high energy cosmic particles (3:00 PM, 15 minutes)

Presenter: Katharine Mulrey (Radboud University)

Mass loss from massive stars as function of metallicity (3:15 PM, 15 minutes)

Presenter: Frank Backs (KU Leuven)

Dutch astronomy during the climate crisis (3:30 PM, 15 minutes)

Presenter: Violette Impelizzeri (Leiden University)

Spectral Stacking of MHONGOOSE Data - Searching for Neutral Hydrogen Clouds in the Cosmic Web (3:45 PM, 15 minutes)

Presenter: Simone Veronese (ASTRON / University of Groningen)

The MeerKAT single-pulse census of the pulsar population: What do 1.6 million pulsar pulses tell us? (4:00 PM, 15 minutes)

Presenter: Xiaoxi Song (ASTRON)

Invited "meet-new-staff": Teaching astronomy (4:15 PM, 15 minutes)

Presenter: Marcel van Daalen

KNA/RNAS Kees de Jager Prize Ceremony – Lamoraal-room (4:30 PM - 5:00 PM)

Conference Photo - TBD (5:00 PM – 5:30 PM)

Free Time (5:30 PM – 6:00 PM)

Dinner – Restaurant (6:00 PM - 8:00 PM)

Evening Lecture - Lamoraal-room (8:00 PM - 9:00 PM)

**Katrien Keune - A multi-analytical research approach on Rembrandt's masterpiece
The Night Watch**

Free time - Bar open - Pub O'Donnell's (9:00 PM - 12:00 AM)

Tuesday, May 14, 2024

Breakfast – Restaurant (07:30 AM – 09:00 AM)

Network Parallel Sessions (9:00 AM - 10:15 AM)

Network 1 – Lamoraal-room (9:00 AM - 10:15 AM)

Disruptions in galactic nuclei from chaotic orbits (9:00 AM, 15 minutes)

Presenter: Zephyr Penoyre (Leiden University)

Hypervelocity star observations constrain the Galactic Centre (9:15 AM, 15 minutes)

Presenter: Sill Verberne (Leiden University)

Identifying the most metal-poor stars in the APOGEE survey (9:30 AM, 15 minutes)

Presenter: Martin Montelius (University of Groningen)

NGC 5253: Peering into the massive star formation chemical enrichment at pc scales. (9:45 AM, 15 minutes)

Presenter: Brigitte Pruijt (Leiden University)

Dust: using simulations to understand the evolution in observations (10:00 AM, 15 minutes)

Presenter: Stefan van der Giessen (Ghent University / Universidad de Granada)

Network 2 – Room 558 (9:00 AM - 10:15 AM)

Recalibrating our search for diverse exo-worlds (9:00 AM, 15 minutes)

Presenter: Mariam Haidar (KU Leuven)

Milli-arcsecond imaging with VLT/Asgard (9:15 AM, 15 minutes)

Presenter: Denis Defrere (KU Leuven)

Radiative Window in Jupiter's Atmosphere? (9:30 AM, 15 minutes)

Presenter: Louis Siebenaler (Leiden University)

Retrieving the Sulfur Chemistry of Irradiated Exoplanets (9:45 AM, 15 minutes)

Presenter: Wiebe de Gruitjer (University of Amsterdam)

Forming equal-mass planetary binaries via pebble accretion (10:00 AM, 15 minutes)

Presenter: Tom Konijn (TU Delft)

Network 3 – Room 559 (9:00 AM - 10:15 AM)

The Event Horizon Telescope and Africa Millimetre Telescope: Current status and future plans (9:00 AM, 15 minutes)

Presenter: Michael Janssen (Radboud University)

Prospects for measuring high-energy cosmic rays at SKA-Low (9:15 AM, 15 minutes)

Presenter: Arthur Corstanje (Vrije Universiteit Brussel)

Evolution of AGN feedback in the galaxy group Nest 200047 over cosmic time (9:30 AM, 15 minutes)

Presenter: Anwesh Majumder (SRON / University of Amsterdam)

Tidal Disruption Events: energy dissipation from spaghettified stars (9:45 AM, 15 minutes)

Presenter: Paola Martire (Leiden University)

[Pulsar J1906+0746 at FAST: a unique exploration of radio-pulsar beam maps \(10:00 AM, 15 minutes\)](#)

Presenter: Yuyang Wang (University of Amsterdam)

[Coffee + Poster Session - Lounge \(10:15 AM - 10:45 AM\)](#)

[Network Parallel Sessions \(10:45 AM – 12:00 PM\)](#)

[Network 1 – Lamoraal-room \(10:45 AM - 12:00 PM\)](#)

[The remarkable NGC 4781 MHONGOOSE triplet \(10:45 AM, 15 minutes\)](#)

Presenter: Dane Kleiner (ASTRON)

[Complex organic molecules in the turbulent circumnuclear disc of a young radio galaxy \(11:00 AM, 15 minutes\)](#)

Presenter: Suma Murthy (JIVE)

[JWST/MIRI imaging in the CEERS and MEGA surveys \(11:15 AM, 15 minutes\)](#)

Presenter: Guang Yang (University of Groningen)

[Unraveling the formation and evolution of massive quiescent galaxies at \$z = 1-3\$ with JWST \(11:30 AM, 15 minutes\)](#)

Presenter: Martje Slob (Leiden University)

[The large-scale structure around the Fornax-Eridanus Complex \(11:45 AM, 15 minutes\)](#)

Presenter: Maria Angela Raj (University of Groningen)

[Network 2 – Room 558 \(10:45 AM - 12:00 PM\)](#)

[The MIRI mid-Infrared Disk Survey \(10:45 AM, 15 minutes\)](#)

Presenter: Inga Kamp (University of Groningen)

[A planetary nebula with "freckles". The case of NGC 4361 as dissected with MUSE. \(11:00 AM, 15 minutes\)](#)

Presenter: Ana Monreal Ibero (Leiden University)

[The wind properties of low metallicity massive stars \(11:15 AM, 15 minutes\)](#)

Presenter: Ciaran Furey (University of Amsterdam)

[Understanding cold dense gas ratios in the outer galaxy with SHAP \(11:30 AM, 15 minutes\)](#)

Presenter: Gijs Vermariën (Leiden University)

[The WISCI project: Exploring dust properties in the nearby diffuse interstellar medium \(11:45 AM, 15 minutes\)](#)

Presenter: Sascha Zeegers (European Space Agency, ESTEC)

[Network 3 – Room 559 \(10:45 AM - 12:00 PM\)](#)

[Exploring the nature of unusual GRB 210704A \(10:45 AM, 15 minutes\)](#)

Presenter: Danielle Pieterse (Radboud University)

[The unique white dwarf pulsar J1912-4410 \(11:00 AM, 15 minutes\)](#)

Presenter: Patrick Woudt (University of Cape Town)

[Uncovering the diversity of fast radio bursts \(11:15 AM, 15 minutes\)](#)

Presenter: Ziggy Pleunis (University of Amsterdam / ASTRON)

[Stable tertiary mass transfer in hierarchical triple stars \(11:30 AM, 15 minutes\)](#)

Presenter: Floris Kummer (University of Amsterdam)

[X-ray diagnostics of Cassiopeia A's "Green Monster" \(11:45 AM, 15 minutes\)](#)

Presenter: Manan Agarwal (University of Amsterdam)

Lunch – Restaurant (12:00 PM - 1:30 PM)

Plenary session - Lamoraal-room (1:30 PM - 3:00 PM)

[Invited "meet-new-staff": XRISM early results and scientific impacts \(1:30 PM, 15 minutes\)](#)

Presenter: Liyi Gu (SRON)

[Witnessing radiatively-driven ionised outflows in active galactic nuclei \(1:45 PM, 15 minutes\)](#)

Presenter: Anna Juranova (SRON / University of Amsterdam)

[The properties of pre-main sequence stars in the massive Galactic star formation region NGC 3603 with JWST NIRSpec. \(2:00 PM, 15 minutes\)](#)

Presenter: Ciaran Rogers (Leiden University)

[Weighing Herbig disks: Obtaining gas and dust masses of Herbig disks using millimeter interferometer observations \(2:15 PM, 15 minutes\)](#)

Presenter: Lucas Stapper (Leiden University)

[Results and recommendations from the work climate survey \(2:30 PM, 30 minutes\)](#)

Presenter: Ilse van Bemmelen (JIVE / ASTRON)

Coffee + Poster Session - Lounge (3:00 PM - 3:30 PM)

Parallel sessions (3:30 PM – 5:00 PM)

Early Career Researchers Event – Lamoraal-room (3:30 PM - 5:00 PM)

[ECR Speaker: Stefania Giodini \(3:30 PM, 20 minutes\)](#)

[ECR Speaker: Marcel Haas \(3:50 PM, 20 minutes\)](#)

[ECR Speaker: Ilse van Bemmelen \(4:10 PM, 20 minutes\)](#)

[Informal Chat \(4:30 PM, 30 minutes\)](#)

Strategy & Updates Meeting – Room 558 (3:30 PM - 5:00 PM)

NWO Astronomy Round Table Updates (3:30 PM, 30 minutes)

Presenter: Sera Markoff (University of Amsterdam)

SKA Construction and Development of the Regional Centre in the Netherlands (4:00 PM, 15 minutes)

Presenter: Joseph Callingham (ASTRON)

Raad van de Astronomie / NL Astronomy Council; Update (4:30 PM, 30 minutes)

Presenter: Carsten Dominik (University of Amsterdam)

Astronomy Communication Meeting – Room 559 (3:30 PM - 5:00 PM)

Futureproof Astronomy Communication (3:30 PM, 15 minutes)

Presenters: Marieke Baan and Joanna Holt (NOVA Information Center)

Astronomy Communication (3:45 PM, 1h 15m)

KNA/RNAS Business Meeting – Lamoraal-room (5:00 PM - 6:00 PM)

Dinner – The Ritz (6:00 PM - 8:00 PM)

Social events – The Ritz / Bowling / Pub O'Donnell's (8:00 PM - 10:00 PM)

Free time - Bar open - Pub O'Donnell's (10:00 PM - 12:00 AM)

Wednesday, May 15, 2024

Breakfast – Restaurant (07:30 AM – 09:00 AM)

Plenary session - Lamoraal-room (9:00 AM - 10:15 AM)

Invited “meet-new-staff”: The first inroads into the low-frequency gravitational wave spectrum (9:00 AM, 15 minutes)

Presenter: Aditya Parthasarathy (ASTRON)

Unveiling the structure of the Jhelum stream with ant colony-inspired computation (9:15 AM, 15 minutes)

Presenter: Petra Awad (University of Groningen)

Search for a spectral cut-off and periodic signal from a radio brown dwarf binary (9:30 AM, 15 minutes)

Presenter: Timothy Wing Hei Yiu (ASTRON)

A periodic radio transient found with LOFAR (9:45 AM, 15 minutes)

Presenter: Iris de Ruiter (University of Amsterdam)

Invited “meet-new-staff”: The need for ab initio and laboratory simulations in exoplanet science (10:00 AM, 15 minutes)

Presenter: Kaustubh Hakim (KU Leuven / Royal Observatory of Belgium)

Poster Prize Ceremony - Lamoraal-room (10:15 AM - 10:30 AM)

Coffee + Poster session - Lounge (10:30 AM - 11:00 AM)

Plenary session - Lamoraal-room (11:00 AM - 12:30 PM)

Invited “meet-new-staff”: The polydisperse nature of Planet Formation (11:00 AM, 15 minutes)

Presenter: Sijme-Jan Paardekooper (TU Delft)

GRMHD simulations of accreting neutron stars (11:15 AM, 15 minutes)

Presenter: Pushpita Das (University of Amsterdam)

Dynamics of disk galaxies: what causes the spirals? (11:30 AM, 15 minutes)

Presenter: Sven de Rijcke (Ghent University)

Mg abundance of the globular cluster NGC2419 using WEAVE (11:45 AM, 15 minutes)

Presenter: Mariya Nizovkina (Radboud University)

Dust destruction by supernova blast waves in a turbulent interstellar medium (12:00 PM, 15 minutes)

Presenter: Tassilo Scheffler (University of Ghent)

Invited “meet-new-staff”: Unveiling the photochemical evolution of carbonaceous molecules: experimental and theoretical studies. (12:15 PM, 15 minutes)

Presenter: Alessandra Candian (University of Amsterdam)

Closing remarks by Nathalie Degenaar, Mitchel Stoop & Ralph Wijers - Lamoraal-room
(12:30 PM - 12:40 PM)

Lunch – Restaurant (12:40 PM - 1:30 PM)

Meeting adjourn (1:30 PM - 3:30 PM)

Poster Contributions

Betsey Adams: Full release of first-generation Apertif data products

Andrew Allan: Why hasn't there been more detections of helium escaping from the atmospheres of younger exoplanets?

Hossam Aly: Dust Evolution in Warped Protoplanetary discs

Alessandro Angrilli Muglia: Metal poor stars in APOGEE

Vysakh Anilkumar: Searching for Supermassive Black Hole Binaries with Gaussian Processes

Maria Aslanidou: Expansion rate of the young, oxygen-rich supernova remnant G292.0+1.8

Keith Baka: Escaping Atmospheres - Synthesizing Views

Natacha Barrow: Gamma rays from dark matter spikes in EAGLE simulations

Andrey Baryshev: High Spectral Resolution for FIRSST

Samantha Berry: The impact of radiative processes on electron thermodynamics in accretion disk around M87*

Apoorva Bhatia: Detection of Helium and Water in V1298 Tau c

Sanne Bloot: Catching the wisps: constraining mass-loss rates of cool stars at low frequencies

Erik Bootsma: The potential of X-ray interferometry

Stefanie Brackenhoff: Beyond the Beam Model: Direction-Dependent Calibration Challenges Far from the Phase Center

Caspar William Bruenech: Massive triples on the edge of stability

Alessandra Candain: Origin Interspecial: teaching interdisciplinary skills using astrobiology

Chloe Cheng: New clues to assembly history: Exploring age and metallicity gradients in quiescent galaxies over cosmic time with LEGA-C and JWST

Cristina-Maria Cordun: Hide and seek: Hunting for hot Jupiters at decameter wavelengths

Paula Cáceres Burgos: Merger rates predictions of Black Hole binaries under a JWST scope

Qinyang Dong: ZTFJ222052.10+331451.07: Did the eclipsing WD-RD binary come from a common envelope or stable mass transfer?

Bas Dorsman: Pulse Profile Modeling of Synthetic SAX J1808

Billy Edwards: Towards Meticulous Population Studies of Exoplanetary Atmospheres

Abdissa Tassama Emana: Galaxy morphology as a test of galaxy evolution models.

Krishna Nivedita Gopinath: The Radar Echo Telescope for cosmic rays (RET-CR)

Aniruddh Herle: Understanding the alignment of clusters in the FLAMINGO simulation

Jason Hessels: AstroFlash: exploring fast radio transients

Jason Hessels: LOFAR2.0 - an update on LOFAR's major upgrade

Dante Hewitt: Pinpointing to the lairs of fast radio bursts

Noud Hover: Exploring the winds blown by thermonuclear bursts

Haili Hu: Using the national IT infrastructure at SURF for your research

Jeff Huang: Monitoring Repeating Fast Radio Bursts with Nancay Radio Telescope

Hyerin Jang: Dust analysis of PDS 70 disk observed by JWST-MIRI

Antonios Katechakis: Second Generation Planet Formation Around Double White Dwarf Binaries

David Konijn: Radio search for extrasolar coronal mass ejections.

Elise Koo: ALMA Observations of the Red Rectangle: Searching for Hydrocarbons

Ioannis Koutalios: A cross-power model for power suppression in FLAMINGO

David Krejcik: Improving localization of Fast Radio Bursts using Machine learning

Joeri van Leeuwen: Observations of FRB20201124A with ALERT and GMRT

Isha Loudon: Investigating the Radar Echo Signal

Maeva Louis: Laboratory astrochemistry: electronic photoabsorption of interstellar functionalized PAHs

Benito Marcote: Zooming into your favourite object at milliarcsecond resolution

Jip Matthijsse: Polydisperse Formation of Planetesimals

Casper Moltzer: Understanding post-RGB binaries through stable mass transfer

Monika Moscibrodzka: Radiative Transfer Coefficients for Relativistic Electrons

Mahdi Najafi-Ziyazi: Loopy Face of Sagittarius A*

Tong Pan: The Environment of Radio Galaxies and Quasars in LoTSS Data Release Two

Theodore Pellegrin: Modeling the Behaviour of Oxygenated PAH Molecules in the ISM

Noa Peters: Investigating the flux anomaly of gravitational-lensed object B0128+437 at 15 GHz

Vanesa Ramirez: Probing the inner depths: a study of the interior complexity of the "ice" giants Uranus and Neptune

Princy Ranaivomanana: Towards ensemble asteroseismology of hot subluminescent stars with MeerLICHT and BlackGEM

Benjamin Ricketts: Emulation for x-ray reverberation: faster fitting

Steven Rieder: Simulating stellar winds in binary systems

Jan van Roestel: The BlackGEM telescope array

Karla Rojas-Martinez: The hot accretion disk plasma in the neutron star X-ray binary 4U 1916-053

Lucie Rowland: REBELS with JWST: NIRSpec/IFU observations of metal-rich massive galaxies in the Epoch of Reionisation

Dagmar Rozendal: Multi-messenger follow-up observations using Astro-COLIBRI

Matus Rybak: DESHIMA - a dawn of ultra-wideband spectroscopy at mm-wavelengths

Sophia Schnauck: Gravitational Wave Signals from 3D General Relativistic Magneto-Hydrodynamic simulations of Core-Collapse Supernovae

Biancamaria Sersante: Constraining the Galactic Centre with Hypervelocity Stars

Rahul Silie: Pulse profile property diagnostics as an indicator of mass-radius inference quality

Barbara Siljeg: How lonely are dwarf galaxies?

Benjamin Silk: Dust Size Evolution in Protoplanetary Disks

Rasjied Sloot: Anton Pannekoek Observatory poster

Rob Spaargaren: How rocky planet bulk composition affects atmospheric evolution

Gudmundur Stefansson: An extreme test case for planet formation: a close-in Neptune orbiting a very low mass star

Michael Stroet: Hydrodynamical Simulations of Eccentric Mass Transfer

Katrien Uytterhoeven: Become a programme coordinator at NWO, the Dutch Research Council!

Dany Vohl: Topology of Pulsar Profiles

Beth Westoby: A kinematic study of the ALMA-revealed substructure in dusty star-forming galaxies

Sai Zhai: Extend the extragalactic peaked-spectrum sources to 54 megahertz

Yunhao Zhang: Accurate and Efficient Modeling in Weak Gravitational Lensing Cosmology

Pengpei Zhu: The pair NGC 833/835 as a case study of a gas-rich galaxy interaction