



## Scientific Program for Unique 2024 (as of 2024-07-28)

Time slots Tuesday	<b>Tuesday (2024-07-30): Exoplanets</b>	Time slots Wednesday	<b>Wednesday (2024-07-31): Disks &amp; pre-biology</b>	Time slots Thursday	<b>Thursday (2024-08-01): Terrestrial contra alien biology</b>	Time slots Friday	<b>Friday (2024-08-02): Future of life and humanity</b>
08:30 - 09:00	Arrival for morning snacks / coffee	08:30 - 09:00	Morning snacks / coffee	08:30 - 09:00	Morning snacks / coffee	08:30 - 09:00	Morning snacks / coffee
09:00 - 09:10	Formal Welcome by Uffe Graae Jørgensen						
09:10 - 09:55	i1, Anne-Marie Lagrange: Exoplanet discovery and evolution.	09:00 - 09:45	i5, Bengt Gustafsson: Is the Sun an oddball and if so, why? Interpretations and implications.	09:00 - 09:45	i9, Kate Adamala: Synthetic life.	09:00 - 09:45	i14, Steven Dick: Transforming our worldviews in a biological (or post-biological) Universe.
09:55 - 10:40	i2, Nikku Madhusudhan: Chemical diversity of temperate exoplanets and implications for life elsewhere.	09:45 - 10:05	c5, Åke Nordlund: Disk outflows and abundance differences.	09:45 - 10:30	i10, David Catling: The rise of oxygen and its importance for complex life.	09:45 - 10:20	c15, Hans Zinnecker: What if the Moon did not exist?
		10:05 - 10:50	i6, Michiel Lambrechts: Understanding the formation of our Solar System in an exoplanet context.				
10:40 - 11:15	Coffee break	10:50 - 11:25	Coffee break	10:30 - 11:00	Coffee break	10:20 - 11:00	Coffee break
11:15 - 12:00	i3, Lena Noack: Planetary interior and habitability.	11:25 - 12:10	i7, Paola Caselli: Chemistry from ISM to disks to pre-biology to planets.	11:00 - 11:45	i11, Dirk Schulze-Makuch & Ian Crawford: Expectations about Alien Life Forms and their Existence	11:00 - 11:20	c16, Hans Rickman: The fate of giant planets in embedded clusters - consequences for life?
12:00 - 12:20	c1, Haiyang Wang: Cosmochemically constrained M-R diagrams for rocky worlds.	12:10 - 12:30	c6, Jan Hendrik Bredehöft: The Universality of Prebiotic Chemistry.	11:45 - 12:05	c11, Felix Leo Arens: The hyperarid Atacama desert as a standard for terrestrial desert planets.	11:20 - 12:05	i16, Edward Schwieterman: Challenges for advanced life in the habitable zone - and implications for the search for life in the Universe.
12:20 - 12:40	c2, Marrick Braam: Habitable environments and 3D atmospheric chemistry on rocky exoplanets in spin-orbit resonances.			12:05 - 12:25	c12, Miguel Á. Salinas-García: Extreme smells: Compounds from Greenlandic bacteria as biomarker.	12:05 - 12:25	c17, Katrien Kolenberg: Bridging science results to society through art and education.
12:40 - 14:05	Lunch break (Gumle Canteen)	12:30 - 13:55	Lunch break (Gumle Canteen) <b>incl. group photo</b>	12:25 - 13:50	Lunch break (Gumle Canteen)	12:25 - 14:00	Lunch break (Gumle Canteen)
14:05 - 14:50	i4, Helmut Lammer: The evolution of Earth-like habitats.	13:55 - 14:15	c7, Inga Kamp: The chemical composition of planet-forming disks with JWST: a new view into terrestrial planet composition.	13:50 - 14:35	i12, Kai Finster: The interaction between micro-organisms and cloud formation.	14:00 - 14:20	c18, Ian Crawford: Who speaks for Earth? - Some political implications of a human future in space.
14:50 - 15:10	c3, Gergely Friss & Paul I. Palmer: How good are rocky exoplanets as cradles of life?	14:15 - 14:35	c8, Peter Woitke: The chemistry in the inner disk of T-Tauri stars.	14:35 - 14:55	c13, Helena Lecoq-Molinis: Quantum chemical insights into metal oxide nucleation in substellar environments.	14:20 - 15:05	i17, Robert Zubrin: The future of humanity in the colonization of space.
15:10 - 15:30	c4, Sven Kiefer: The cloudy climate of warm Saturns around M-dwarfs: A synergistic modeling approach and observational implications.	14:35 - 14:55	c9, Pooneh Nazari: ALMA, Disk-Planet connection.				
		14:55 - 15:15	c10, Helene Rousseau: Advancing exo-zodiacal dust research through improved thermal background subtraction.				
15:30 - 16:00	Coffee break	15:15 - 15:45	Coffee break	14:55 - 15:25	Coffee break	15:05 - 15:45	Coffee break
16:00 - 16:30	Pop-up poster presentations of 30 posters	15:45 - 16:30	i8, Pascale Ehrenfreund: Prebiotic reservoirs available to the early Earth and Mars.	15:25 - 16:10	i13, Donald Canfield: The evolution of Eukaryote ecosystems.	15:45 - 16:30	Panel discussion 4 and Scientific Outlook, Presentation of poster prizes and Farewell
				16:10 - 16:30	c14, Johan Rahnberg-Andersen: Identification and characterization of the chlorophyll c synthase and the evolutionary implications for marine algae	16:30 - 20:00	After day-4 sandwich & wine
16:30 - 17:00	Panel discussion 1	16:30 - 17:00	Panel discussion 2	16:30 - 17:00	Panel discussion 3		
17:00 - 20:00	After day-1 sandwich & wine	17:00 - 20:00	After day-2 sandwich & wine	17:00 - 20:00	After day-3 sandwich & wine		
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		18:30 - 22:00	<i>18:30-19:00 - Welcome drink</i> <i>19:00-22:00 - Conference dinner</i> <hr style="width: 50%; margin: 0 auto;"/> Venue: The Ceremonial Hall "Festsalen" in the old part of University of Copenhagen, Frue Plads 4, 1168 København K.				