

## **Session Program**

**11-15 Jun 2018**



# **Cosmic Dust: origin, applications & implications**

## ***Poster Presentations***

Geological Museum, University of Copenhagen, Main Auditorium  
Øster Voldgade 5 - 7, 1350 København K, Denmark

## Monday 11 June

10:35

### Poster Presentations: Poster Presentations

**Poster Session** |

**Location:** Geological Museum, University of Copenhagen, Main Auditorium, Øster Voldgade 5 - 7, 1350 København K, Denmark |

**Convener:** Christa Gall

#### **Polycyclic aromatic hydrocarbon emission toward the Galactic bulge**

**Speaker**

Prof. Els Peeters

#### **Spatial variations in dust extinction properties and 3D structure in the Small Magellanic Cloud with SMIDGE**

**Speaker**

Mrs Petia Yanchulova Merica-Jones

#### **Dust Reverberation Mapping in AGN**

**Speaker**

Bella Boulderstone

#### **The Spatially Resolved Dust-to-Metals Ratio in M101**

**Speaker**

Mr I-Da Chiang

#### **Resolved spectral attenuation curves in dusty ETGs**

**Speaker**

Sébastien Viaene

#### **PAH photodissociation and the formation of H\$\_2\$S**

**Speaker**

Alessandra Candian

#### **Mid-IR spectroscopic observations of the dustiest AGB stars in the Galaxy**

**Speaker**

Steve Goldman

#### **The ESO Diffuse Interstellar Band Large Exploration Survey: First Results.**

**Speaker**

Prof. Jan Cami

#### **Temperature-Dependent Laboratory Measurements of the Far-Infrared to Millimeter Opacity of Carbonaceous Dust-Analogues**

**Speaker**

Jonas Greif

#### **Infrared emission and dust dynamics in expanding HII regions**

**Speaker**

Dr Maria Kirsanova

#### **The abundance of SiC2 in Carbon Star Envelopes**

<p><b>Speaker</b> Ms Sarah Massalkhi</p>
<p><b>Reverberation Mapping the Hot Dust Emission in AGN from VEILS</b></p> <p><b>Speaker</b> Bella Boulderstone</p>
<p><b>An extensive grid of DARWIN models for M-type AGB stars</b></p> <p><b>Speaker</b> Sofie Liljegren</p>
<p>10:50</p>
<p>17:00</p> <p><b>Poster Presentations: Poster Presentations</b></p> <p><b>Poster Session</b>  </p> <p><b>Location:</b> Geological Museum, University of Copenhagen, Main Auditorium, Øster Voldgade 5 - 7, 1350 København K, Denmark  </p> <p><b>Convener:</b> Christa Gall</p> <p><b>Constraining dust grain porosity via debris disk observations</b></p> <p><b>Speaker</b> Robert Brunngräber</p> <p><b>Dust charge distribution in the Interstellar Medium</b></p> <p><b>Speaker</b> Juan C. Ibañez Mejia</p> <p><b>Systematics in dust emission modeling in nearby galaxies</b></p> <p><b>Speaker</b> Jeremy Chastenet</p> <p><b>Dust and gas properties in nearby galaxies</b></p> <p><b>Speaker</b> Dr Monica Relano Pastor</p> <p><b>DustPedia: Multiwavelength Photometry &amp; Imagery of 875 Nearby Galaxies in 42 Ultraviolet-Microwave Bands</b></p> <p><b>Speaker</b> Christopher Clark</p> <p><b>UV Dust Extinction and Attenuation Curves in the Local Volume</b></p> <p><b>Speaker</b> Dr Lea Hagen</p> <p><b>A systematic study of dust and star formation in early-type galaxies with AKARI</b></p> <p><b>Speaker</b> Dr Takuma Kokusho</p> <p><b>Transfer of ionizing radiation through gas and dust</b></p> <p><b>Speaker</b> Martin Glatzle</p> <p><b>DustKING: revealing the dust attenuation in NGC628</b></p> <p><b>Speaker</b> Ms Marjorie Decleir</p>

**Dust formation and survival in Quasars****Speaker**

Dr Arkaprabha Sarangi

**A Unified Model of the Emission, Extinction, and Polarization of Interstellar Dust****Speaker**

Brandon Hensley

**Constraining dust parameters through observations of eccentric debris disks****Speaker**

Mr Minjae Kim

**Dust models compatible with Planck and starlight polarization data****Speaker**

Vincent Guillet

**Cosmological simulation with dust evolution****Speaker**

kuan-chou Hou

17:15

## Tuesday 12 June

14:00

### Poster Presentations

**Poster Session** |

**Location:** Geological Museum, University of Copenhagen, Main Auditorium, Øster Voldgade 5 - 7, 1350 København K, Denmark |

**Convener:** Christa Gall

#### **Investigating the Properties of Nearby Galaxies**

**Speaker**

Angelos Nersesian

#### **PAHs and star formation in the HII regions of M83 and M33**

**Speaker**

Alexandros Maragkoudakis

#### **Constraints on the structure of hot exozodiacal dust belts and their observability in the MIR**

**Speaker**

Florian Kirchschlager

#### **Hydrodynamic Simulations of Dust Destruction in Supernova Remnants**

**Speaker**

Ms Franziska Schmidt

#### **Dust emission from the Cassiopeia A supernova remnant**

**Speaker**

Felix Priestley

#### **Mapping the extinction parameters of dust in the IC63 photodissociation region**

**Speaker**

Dries Van De Putte

#### **Probing the interstellar dust with X-rays: The Fe L and O K edges**

**Speaker**

Ioanna Psaradaki

#### **Relative sputtering rates of FeS, MgS, and Mg silicates: implications for ISM gas phase depletions of rock-forming elements**

**Speaker**

Lindsay Keller

#### **A Closer Look at Some Gas-Phase Depletions in the ISM: Trends for O, Ge and Kr vs. F\*, f(H\$-\$2\$) and Starlight Intensity**

**Speaker**

Edward Jenkins

#### **VUV photoprocessing of large PAH cations: an experimental study**

**Speaker**

Ms Gabi Wenzel

**Constraint on properties of dust grains created by Population III supernovae**

**Speaker**

Gen Chiaki

**Dust Attenuation of Star-Forming Galaxies in the first 2 Gyr of the Universe**

**Speaker**

Mr Yoshinobu Fudamoto

**(Sub-)millimeter optical constants of silicates and water ice**

**Speaker**

Dr Harald Mutschke

**Large Interstellar Polarisation Survey**

**Speaker**

Ralf Siebenmorgen

14:15

## Wednesday 13 June

14:25

### Poster Presentations

**Poster Session** |

**Location:** Geological Museum, University of Copenhagen, Main Auditorium, Øster Voldgade 5 - 7, 1350 København K, Denmark |

**Convener:** Francesco Valentino

#### **Crystalline silicates in external galaxies**

**Speaker**

Ciska Kemper

#### **Probing the Size Distribution of PAHs in Reflection Nebulae**

**Speaker**

Mr Collin Knight

#### **Distributions of metallicity and gas-to-dust ratio in the Magellanic system**

**Speaker**

Kengo Tachihara

#### **Effect of dust porosity on scattered light images of protoplanetary disks**

**Speaker**

Ryo Tazaki

#### **Constraining the presence of large dust grains in post-AGB disc systems using FIR and sub-mm photometry**

**Speaker**

Peter Scicluna

#### **Observability of Dusty Debris Disks around M-stars**

**Speaker**

Patricia Luppe

#### **Spatially resolved carbonaceous dust infrared emission in proto-planetary disks around Herbig Ae/Be stars**

**Speaker**

Thomas Bouteaon

#### **Dust production in the Solar Neighborhood**

**Speaker**

Ciska Kemper

#### **Modelling dust in the Nearby Evolved Star Survey (NESS) targets**

**Speaker**

Dr Sundar Srinivasan

#### **Co-accretion of carbon molecules and silicate precursors at cryogenic temperatures**

**Speaker**

Dr Gaël Rouillé

**Attempt to catch the C/O transition in dust formation in cold plasma experiments****Speaker**

Rémi Bérard

**The 30 micron sources in galaxies with different metallicities****Speaker**

Mr Marcin Gladkowski

**Studying the Amorphous Material Physics of the Cosmic Dust Grains by Fitting the Observed Intensity and Polarization SEDs in Millimeter, Submillimeter and Far-infrared Wavebands****Speaker**

Masashi Nashimoto

**Whipping IC63/IC59****Speaker**

Prof. Els Peeters

**Carbon, sulfur and rare elements in the interstellar dust: an X-ray view****Speaker**

Elisa Costantini

**High-temperature infrared spectroscopy of large aromatic molecules****Speaker**

Dr Shubhadip CHAKRABORTY

**Investigating the interstellar dust through the Fe K-edge****Speaker**

Daniele Rogantini

**The evolution of dust formation in SN2005ip from optical line profile models****Speaker**

Antonia Bevan

**The AGN torus as a dynamical dusty wind****Speaker**

David Williamson

**Steep extinction curves in GRBs and quasars****Speaker**

Mr Kasper Heintz

## Thursday 14 June

10:20

### Poster Presentations: Poster Presentations

**Poster Session** |

**Location:** Geological Museum, University of Copenhagen, Main Auditorium, Øster Voldgade 5 - 7, 1350 København K, Denmark |

**Convener:** Francesco Valentino

#### PDRs with JWST: Probes of dust formation and evolution

**Speaker**

Karl Misselt

#### Probing the solar accretion disk using the properties of dust filtering at gaps in the early Solar System

**Speaker**

Troels Haugbølle

#### The Benchmark Dust Mass Function of the Nearby Universe

**Speaker**

Rosie Beeston

#### ALMA's View of Dust in SN 1987A

**Speaker**

Dr Phil Cigan

#### Mineralogical Studies of Silicate Stardust in the Laboratory

**Speaker**

Lindsay Keller

#### Near- and Mid-Infrared Interstellar Dust Extinction Observations

**Speaker**

Dr Karl Gordon

#### Aliphatic Features in Mid-Infrared Polycyclic Aromatic Hydrocarbon Spectra

**Speaker**

Prof. Els Peeters

#### Revealing the dust grain sizes in the envelope of Per-emb-50

**Speaker**

Carolina Agurto

#### Comparison of the extraplanar H $\alpha$ and UV emissions in the halos of nearby edge-on spiral galaxies

**Speaker**

Young-Soo Jo

#### High-resolution, 3D radiative transfer modeling of barred galaxies M83 and NGC1365

**Speaker**

Mr Angelos Nersesian

**Temperature programed desorption of water ice mixed with amorphous carbon and silicate grains**

**Speaker**

Alexey Potapov

**Evidence of pyroxene magic nanoclusters in protoplanetary disks around Herbig Ae stars from first principles calculations**

**Speaker**

Prof. Stefan Bromley

**From grain growth to astromineralogy: Studying dust with X-ray imaging and spectroscopy**

**Speaker**

Lia Corrales

**Spectroscopic Characterization of Interstellar Ice Analogues**

**Speaker**

Birgitta Mueller

10:40

12:20

**Poster Presentations: Poster Presentations**

**Poster Session** |

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**Convener:** Francesco Valentino

**PAHs trace the molecular gas in star-forming galaxies**

**Speaker**

Isabella Cortzen

**Realistic modelling of nano-aggregated magnesium silicate dust particles using atomistic simulations.**

**Speaker**

Mr Antoni Macià

**The JWST-ERS program ID 1288: Radiative Feedback from Massive Stars as Traced by Multiband Imaging and Spectroscopic Mosaics**

**Speaker**

Prof. Els Peeters

**Polycyclic Aromatic Hydrocarbon fraction at ~10 pc scale in the Magellanic Clouds**

**Speaker**

Jeremy Chastenet

**Investigation of the hydrogenation of pentacene**

**Speaker**

Rijutha Jaganathan

**Interstellar Catalysis of Molecular Hydrogen through Superhydrogenation of Polycyclic Aromatic Hydrocarbons**

**Speaker**

Mr Frederik Doktor S. Simonsen

**Superhydrogenation of PAHs through interaction with hydrogenated grain surfaces**

12:27

**Speaker**  
John Thrower