

## **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<sub>2</sub>

#### 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 SiC<sub>2</sub> in Carbon Star Envelopes

**Speaker**

Ms Sarah Massalkhi

**Reverberation Mapping the Hot Dust Emission in AGN from VEILS****Speaker**

Bella Boulderstone

**An extensive grid of DARWIN models for M-type AGB stars****Speaker**

Sofie Liljegren

10:50

17:00

**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**Constraining dust grain porosity via debris disk observations****Speaker**

Robert Brunngräber

**Dust charge distribution in the Interstellar Medium****Speaker**

Juan C. Ibañez Mejía

**Systematics in dust emission modeling in nearby galaxies****Speaker**

Jeremy Chastenet

**Dust and gas properties in nearby galaxies****Speaker**

Dr Monica Relano Pastor

**DustPedia: Multiwavelength Photometry & Imagery of 875 Nearby Galaxies in 42 Ultraviolet-Microwave Bands****Speaker**

Christopher Clark

**UV Dust Extinction and Attenuation Curves in the Local Volume****Speaker**

Dr Lea Hagen

**A systematic study of dust and star formation in early-type galaxies with AKARI****Speaker**

Dr Takuma Kokusho

**Transfer of ionizing radiation through gas and dust****Speaker**

Martin Glatzle

**DustKING: revealing the dust attenuation in NGC628****Speaker**

Ms Marjorie Declair

**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 Kirchschrager

#### 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 Boutéraon

#### 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

14:45



## 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 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 programmed 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