

Planet Formation and Evolution 2017

Jena 25th-27th September



Preliminary Program (as of 19 Sep)

SUNDAY, 24 Sep

17:00 Registration, welcome drinks
20:00 End

MONDAY, 25 Sep

08:00 Registration
09:00 Introduction

Invited talks I

(Chair: Blum)

09:15 Güttler Carsten Comet 67P: The most primitive body in our Solar System?
09:45 Pascucci Ilaria The Evolution and Dispersal of Planet-forming Disks

10:15 Poster blitz (Posters A01-A15)
10:30 Coffee break

11:15 Leinhardt Zoë Collisions and Compositional Evolution during Rocky Planet Accretion
11:45 Raymond Sean Terrestrial planet formation: the Solar System in context

12:15 Poster blitz (Posters A16-A30)
12:30 Lunch break

Invited talks II

(Chair: M. Booth)

14:00 Nettelmann Nadine Linking planet formation to planet internal structure
14:30 Snellen Ignas Probing Exoplanet Atmospheres

15:00 Poster blitz (Posters A31-A45)
15:15 Coffee break

16:00 Boccaletti Anthony Direct imaging of exoplanetary systems with current and future facilities
16:30 Kennedy Grant Debris disks

17:00 Poster session
18:30 End

TUESDAY, 26 Sep

Disk processes

(Chair: Dullemond)

08:30 Simon Jake What Drives Accretion in Protoplanetary Disks?
08:45 Nicholson Rhana Photoevaporation of protoplanetary discs in sub-structured environments
09:00 Rosotti Giovanni The evolution of photo-evaporating viscous discs in binaries
09:15 Coleman Gavin Migration of low-mass planets through resonant pulling
09:30 Booth Richard The chemical evolution of discs and planets driven by radial drift.
09:45 Pinilla Paola Effect of different snow lines on the dust evolution in protoplanetary disks.

10:00 Poster blitz (Posters B01-B15)
10:15 Coffee break

11:00 Szulagyi Judit Circumplanetary disk simulations and observational efforts
11:15 Nagahara Hiroko Chemical evolution of protoplanetary disks and its consequence on water and organics contents in planetesimals and comets

Planet formation in-situ & in-vitro

(Chair: Wurm)

11:30 Blum Jürgen Yet more evidence that comet 67P formed by gravitational instability of a pebble cloud
11:45 Capelo Holly Dust-drag induced fluid instability: experimental investigations
12:00 Steinpilz Tobias Growing pebbles by charged aggregation

12:15 Poster blitz (Posters B16-B30)

12:30 *Lunch break (and poster swap)*

Planet formation theory

(Chair: Klahr)

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|-------|------------|---------|--|
| 14:00 | Schreiber | Andreas | The 'Missing Link' in Planet Formation Theory and Why the Size Distribution of Asteroids and Kuiper Belt Objects is so Similar |
| 14:15 | Drazkowska | Joanna | Planetesimal formation follows the snow line |
| 14:30 | Kobayashi | Hiroshi | From planetesimals to planets in a turbulent disk |
| 14:45 | Bitsch | Bertram | On pebble isolation mass and its influence on planet growth |

15:00 *Poster blitz (Posters B31-B45)*

15:15 *Coffee break*

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|-------|----------|---------------|--|
| 16:00 | Brügger | Natacha | Metallicity effect on planet formation by pebble accretion |
| 16:15 | Gonzalez | Jean-François | Self-induced dust traps: overcoming planet formation barriers |
| 16:30 | Meru | Farzana | The spiralling signatures of planet formation |
| 16:45 | Parker | Richard | Two Suns in the sky: the effects of stellar binarity on planet formation |

17:00 *Poster session*

19:00 *Banquet*

WEDNESDAY, 27 Sep

Protoplanetary disk observations

(Chair: Kley)

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|-------|-----------|------------|--|
| 08:30 | Avenhaus | Henning | T-Tauri disks with SPHERE Polarimetric Differential Imaging |
| 08:45 | Garufi | Antonio | The evolution of protoplanetary disks from their taxonomy in scattered light |
| 09:00 | Brauer | Robert | Magnetic fields in circumstellar disks: The potential of Zeeman observations |
| 09:15 | Bertrang | Gesa H.-M. | HD169142 seen with new eyes |
| 09:30 | Facchini | Stefano | Dust vs gas outer radii of disks: what's the difference? |
| 09:45 | Molyarova | Tamara | Gas mass tracers in protoplanetary disks: CO is still the best |
| 10:00 | Ertel | Steve | First imaging of the AR Pup post-AGB binary disk |

10:15 *Coffee break*

Characterization of exoplanets

(Chair: Dreizler)

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|-------|-------------|-------------------|---|
| 11:00 | Schlichting | Hilke | Diversity of Exoplanets |
| 11:15 | Sarkis | Paula | A Low-Mass Planet in the Habitable Zone of the Nearby M-dwarf K2-18 |
| 11:30 | Mordasini | Christoph | A rocky composition for close-in low-mass exoplanets from the location of the valley of evaporation |
| 11:45 | Kuiper | Rolf | Hydrodynamics and Thermodynamics of Embedded Planets' First Atmospheres |
| 12:00 | Marleau | Gabriel-Dominique | The planetary accretion shock and the luminosity of gas giants |
| 12:15 | Bonnefoy | Mickaël | Discovery and characterization of substellar companions observed during the SHINE (SPHERE) exoplanet survey |

12:30 *Lunch break*

Detection of exoplanets

(Chair: Hatzes)

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|-------|-------------|-----------|--|
| 14:00 | Daemgen | Sebastian | Direct imaging of Exoplanets in Binary Stars |
| 14:15 | Jones | Matias | Exoplanets orbiting giant stars |
| 14:30 | Quirrenbach | Andreas | CARMENES |

Debris disks

(Chair: Wolf)

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|-------|--------|-----------|---|
| 14:45 | Booth | Mark | SCUBA-2 Observations of Nearby Stars: The Complete Survey Results |
| 15:00 | Engler | Natalia | Polarimetric observations of debris disks |
| 15:15 | Marino | Sebastian | Double-ring debris disks at 10s of au: probing how far out planets can form |
| 15:30 | Löhne | Torsten | Collisions and drag in debris discs with eccentric parent belts |
| 15:45 | Bonsor | Amy | How does planetary material arrive in the atmospheres of polluted white dwarfs? |

16:00 *End*

List of posters

A01	Abdulmyanov	Tagir	Fragmentation of protostars' dust shells at the Hayashi stage
A02	Abdulmyanov	Tagir	Luminosity variations of protostars at the Hayashi stage
A03	Akimkin	Vitaly	Coagulation of Charged Dust in Protoplanetary Disks
A04	Boden	Lucia	Laboratory experiments on charge separation in collisions of identical grains
A05	Boehler	Yann	Dust asymmetries and spirals around HD 142527 and MWC 758
A06	Bosman	Arthur	Pebble ice mantle sublimation at the ice lines: the case of CO ₂
A07	Braga Camargo	Bárbara Celi	Study of effects of the viscosity in the planetary migration in a binary star system
A08	Burn	Remo	New Determination of the Ice-Line Position: Radial Drift and subsequent Water Depletion of Planetesimals
A09	Cáceres Reátegui	Jessica	Restricting the Orbit of the Hypothetical Planet Nine
A10	Cahuasquí	Juan Andrés	The nature of the near-IR excess in V892 Tau: circumstellar disk or dusty component inside the circumbinary cavity?
A11	Cantalloube	Faustine	Image processing for exoplanet detection
A12	Capuzzo Dolcetta	Roberto	Dynamics of planets around binary stars
A13	de Boer	Jos	Constraining protoplanetary disk geometry with VLT/SPHERE polarimetric imaging.
A14	Demidova	Tatiana	Two-fluid model of a protoplanetary disk of a young star with a low-mass companion
A15	Demidova	Tatiana	Simulation of the dynamics of the debris disk with gas
A16	Demirci	Tunahan	Temperature limit in planet formation at 1000 K
A17	Dencs	Zoltán	Water delivery to the TRAPPIST-1 planets by asteroids
A18	Eigmüller	Philipp	First results of the Next Generation Transit Survey, NGTS
A19	Eiroa	Carlos	A catalogue of solar-type stars with both debris disks and planets
A20	Elbakyan	Vardan	Formation of giant planets at tens-of-AU distances
A21	Faramaz	Virginie	Inner mean-motion resonances with eccentric planets as a source of exocomets and exozodis
A22	Freudenthal	Jantje	Photodynamical Modelling: An Update on Kepler-9
A23	Garcia	Anthony	Growing porous grains in 3D SPH simulations
A24	Ginski	Christian	The HD97048 transition disk as seen by SPHERE and ALMA
A25	Haldemann	Jonas	Predicting rocky exoplanet interiors: The effect of different mineralogical models
A26	Hammer	Michael	Planet-induced vortices: The effects of realistic planet formation timescales
A27	Harrison	John	Polluted White Dwarfs: Insights regarding the Chemistry of Terrestrial Planets
A28	Heese	Stefan	Spread of the dust temperature distribution in circumstellar disks
A29	Hoffmann	Viktor	Almahata Sitta meteorite remains fascinating
A30	Jungmann	Felix	Collisions of charged grains in drop tower experiments: recharging and restitution
A31	Keppler	Miriam	Near-infrared scattered light observations of the pre-transitional disk PDS 70
A32	Kim	Minjae	Impact of collisions on the appearance of debris disks
A33	Klahr	Hubert	Hydro-Dynamic Stability of Radially and Vertically Stratified Disks
A34	Klarmann	Lucia	Probing the dust composition of the inner disk region with NIR interferometry
A35	Kley	Wilhelm	Planets in turbulent discs
A36	Kobus	Julia	Constraining the structure of the potential planet forming region in circumstellar disks with combined MATISSE/VLTI and ALMA observations
A38	Kruss	Maximilian	The Influence of Magnetic Fields on Dust Aggregation
A39	Krämer	Anna	Recycling of dust in protoplanetary disks by thermal creep
A40	Kudo	Tomoyuki	The origin of spiral structures in the transitional disk around MWC758.
A41	Langlois	Maud	Early-results from SHINE, the SPHERE High-Contrast Imaging Survey for Exoplanets
A42	Langlois	Maud	First scattered light detection of a nearly edge on transitional Disk around a T Tauri star
A43	Lenz	Christian	Planetesimal Formation via Pebble Trapping
A44	Lichtenberg	Tim	A thermomechanical 'Goldilocks' regime for impact splash chondrule formation
A45	Linder	Esther	Evolution and Magnitudes of Low Mass Planets
B45	Lorek	Sebastian	Local formation of comets through streaming instability
B44	Loren-Aguilar	Pablo	The formation of toridal vortices in protoplanetary discs.
B43	Maire	Anne-Lise	VLT/SPHERE astrometric monitoring of known young giant exoplanets and brown dwarfs

B42	Mamatsashvili	George	Nonlinear transverse cascade and sustenance of MRI-turbulence with azimuthal magnetic field
B41	Manger	Natascha	Vortex Formation in Vertical Shear Instability
B40	Marikunte	Guruprasad	Source of life from meteorites
B39	Marshall	Jonathan	Beware black ice? Properties of HD 105's circumstellar dust constrained by re-solved imaging
B37	Monsch	Kristina	X-ray properties of planet hosting stars - The link between photoevaporation and the semi-major axis distribution of giant planets
B36	Mugrauer	Markus	Search for (sub)stellar companions of exoplanet host stars
B35	Musiolik	Grzegorz	The Destructive Nature of Wind Erosion for Planetesimals in Protoplanetary Disks
B34	Muto	Takayuki	Detecting Non-Axisymmetric Structures of Protoplanetary Disks from Low-Resolution Radio Interferometric Data
B33	Mutschke	Harald	Sub-millimeter dust opacities
B32	Münnich	Robert	Laboratory experiments on adhesive forces between micrometer water ice particles
B31	Pawellek	Nicole	The dust distribution of the 49 Ceti debris disc
B30	Pignatale	Francesco	Chemistry and Dynamics in Protoplanetary Discs
B29	Pohl	Adriana	The circumstellar disk HD169142: gas, dust and planets acting in concert? - VLT/SPHERE polarimetric imaging
B28	Potapov	Alexey	Thermal and UV-induced processing of interstellar ice-grain analogues
B27	Raetz	Stefanie	Updates on the story of the young transiting planet candidate CVSO-30b
B26	Rebollido	Isabel	The close-in gaseous environment of main-sequence stars. Signatures of exo-comets.
B25	Regaly	Zsolt	Vortex stretching in self-gravitating protoplanetary discs
B24	Ricci	Luca	The potential of the Next Generation Very Large Array (ngVLA) to find the signposts of low-mass planets in young disks
B23	Rosenthal	Mickey	Implications of Turbulence on the Formation of Gas Giant Cores via Pebble Accretion
B22	Rossi	Eduardo	Towards a new theoretical description of solid particles aggregation
B21	Samland	Matthias	Spectral Characterization of 51 Eridani b: SPHERE, BACON, and future tools
B20	Sándor	Zsolt	Rapid formation of giant planets at the pressure maxima of protoplanetary disks
B19	Sasaki	Manami	YSOs hit by SNR shocks
B18	Schmidt	Tobias	Atmospheric fitting & tests of speckle influence onto direct imaging candidates
B17	Schneider	Christian	Planetary accretion with HST
B16	Schneider	Niclas	Streaming Instabilities in Laboratory Experiments
B15	Schoonenberg	Djoeke	Formation of planetesimals near the snowline
B14	Schräpler	Rainer	High-velocity collisions between small and large dust agglomerates as growth barrier
B13	Schulik	Matthäus	High resolution radiation-hydrodynamics studies of accreting Saturn-mass planets in protoplanetary discs
B12	Sende	Jan	Asymmetries in debris disks - The influence of planets
B11	Senecal	Luc	Solving the planetesimals accretion problem for gas giant planet with stochastic migration.
B10	Sezestre	Elie	Expelled grains from an unseen parent body around AU Mic
B09	Singh	Chamkor	The effect of collisional charging on the planetary dust aggregation
B08	Stammler	Sebastian	The Influence of Ice Lines on Dust Growth in Protoplanetary Disks
B06	Süli	Áron	Statistics of collisional parameters computed from numerical simulations
B05	Teiser	Jens	Photophoresis in a Nutshell
B04	Vericel	Arnaud	Influence of snow lines on the formation of dust traps in protoplanetary disks
B02	Wu	Chao-Jian	Searching 22um excess stars from WISE
B01	Yamakawa	Akihisa	The effect of photoevaporation on gas and dust evolution in externally irradiated protoplanetary disks