

PROGRAM OF THE 5TH PLANET FORMATION WORKSHOP

| Wednesday, 19 September 2007 | | |
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| 14.00 – 15.30 Chair: A. Krivov | <u>Planet Formation I</u> Sean Brittain Jeroen Bouwman Frithjof Brauer Felicitas Mokler Cornelis Dullemond Natalia Dzyurkevich | Observation of warm gas in transitional disks Evolution and processing of dust in protoplanetary disks Dust particle growth in protoplanetary disks Charge-dipole induced dust gelation at sublimation boundaries Constraining dust growth, mineralogy, radial mixing and sedimentation with radiative transfer models of protoplanetary disks 3D global simulations of the MHD turbulence in the proto-planetary disks: dust transport. |
| 15.30 – 17.00 | Poster Session | Coffee Break |
| 17.00 - 18.30 Chair: R. Neuhäuser | <u>Exoplanets I</u> Eike Günther Derek Homeier Ludmila Carone Aurélien Crida Matthias Ammler Jochen Eislöffel | Hot Jupiters of young stars Cloud formation and mixing processes in substellar atmospheres Stability of short period extrasolar planets in the face of tidal forces Eccentricity damping of extrasolar planets in resonance Constraining the effective temperature of the host star of OGLE-TR-10b - The Balmer α ; line Observing transits of exoplanets with the TEST |

| Thursday, 20 September 2007 | | |
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| 9.00 – 10.00 Chair: J. Eislöffel | <u>Exoplanets II</u> Heike Rauer Günther Wuchterl | First results of the CoRoT space mission CoRoT's planet population - a pre-launch prediction and first observational tests |
| 10.00 – 10.30 | | Coffee Break |
| 10.30 – 12.00 Chair: C. Dullemond | <u>Planet Formation II</u> Hubert Klahr Gerhard Wurm Dominik Paszun Ralf J. Geretschauser Jens Teiser Tilman Springborn | Gravoturbulent formation of planetesimals Recycling of (meter-size) dusty bodies in inner protoplanetary disks Fragmentation and compression during aggregate growth Calibrating a Smoothed Particle Hydrodynamics model for the simulation Planetesimal growth via collisions of dust agglomerates? Laser melting experiments on chondrule formation processes |
| 12.00 – 14.30 | | Barbecue + Sports Program |
| 14.30 – 16.00 Chair: E. Günther | <u>Exoplanets III</u> Lee Grenfell Pascal Hedelt Erik Johansson Tobias Schmidt Tristan Roell Ralph Neuhäuser | Biomarker response to cosmic rays on planets orbiting in the habitable zone of M-stars Spectral appearance of terrestrial exoplanets Expanding atmospheres of close-in extrasolar planets and their interaction with the stellar wind Direct imaging of exoplanets around young stars - status and updates Search for extrasolar planets with high-precision relative astrometry by ground based single-aperture observations Astrometric and photometric monitoring of GQ Lupi and its low-mass companion |
| 16.00 – 16.30 | | Coffee Break |
| 16.30 – 17.30 Chair: G. Wurm | <u>Planet Formation III</u> Philip von Paris Susanne Pfalzner Alexander Krivov Sascha Kempf | Evolution of primary planetary atmospheres The influence of the cluster environment on planet formation Long-term collisional evolution of debris disks Saturn's E ring as an analogue for a debris disc |
| 17.30 – 18.00 Chair: G. Wuchterl | <u>Exoplanets IV</u> Beate Patzer Barbara Stracke | Binary nucleation of ammonium hydrogensulfide in giant planet atmospheres Response of the inner boundary of the habitable zone to parameter variations |
| 19.30 | | Banquet |

| Friday 21 September 2007 | | |
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| 9.00 – 10.30 | General Discussion I | |
| 10.30 – 11.00 | | Coffee Break |
| 11.00 – 12.30 | General Discussion II | |

Poster Session (Wednesday, 19 September 2007, 15.30-17.00)

Jürgen Blum

Towards a collision model for protoplanetary dust aggregates

Philipp Eigmüller

ELAP - Easy to use Lightcurve Analysis Program

Simone Fiedler

Search for dust in multiple planetary systems

Carsten Güttler

Fragmentation and charge separation in pre-planetary dust collisions

Daniel Heißelmann

Experimental studies on the aggregation properties of dust in planet-forming regions

Fabian Herrmann

Photophoresis in transitional disks

Markus Klevenz

Evaporation, condensation and annealing processes of silicate materials studied by IR spectroscopy

Eva Kovacevic

Gas phase produced nanoparticles for the application in astrophysics

Stephan Krämer

A new edge on Disk in the star forming region Corona Australis

Torsten Löhne

Planets, planetesimals, and dust in HD 69830

Christoph Olczak

Imprints of encounter-triggered disk destruction in the Orion Nebula Cluster

Martina Queck

Planetary resonances and structure formation in debris disks

Stefanie Rätz

First planetary transit observations with the AIU Jena telescope in Großschwabhausen

Bianca Reinhard

Laboratory experiments on the kinetics of thermal annealing of dust in proto-planetary disks

Jürgen Sauter

Modelling the protoplanetary disc CB26

Rainer Schräpler

The physics of protoplanetary dust agglomerates II. Erosion by the impact of micron sized grains

Akemi Tamanai

Experimental Infrared Spectroscopic Extinction Measurements of Agglomerate Dust Grains in Aerosol III. Combination of different-sized particles

Martin Vanko

Implication of activity of M-type stars for terrestrial planet finding missions: Preliminary report on two observational campaigns

Ingo von Borstel

An experimental study of photophoresis in protoplanetary dust discs

Mesut Yilmaz

Exoplanet Searches with Precise Radial Velocity at TUBITAK National Observatory (TUG)