MONDAY 03.06.19

09:00 – 10:30 Welcome/Reception/Introduction

Session 1: Circumstellar and circumbinary disks (Chair: Trifon Trifonov)
10:30 – 11:00 Exoplanetary Systems Dynamics with ALMA – Virginie Faramaz (JPL)
11:00 – 11:25 Witness planet–disk interactions at the stage of formation – Miriam Keppler (MPIA Heidelberg)
11:25 – 11:50 Dynamics of circumbinary discs and planet migration – Anna Penzlin (Universitaet Tuebingen)

12:00 – 13:30 Lunch Break

Session 2: Planet formation and migration: planet–disk interactions (Chair: Alice Quillen)
14:20 – 14:45 Formation of Hot Jupiters and Ultima–Thule–like objects from non–secular Lidov–Kozai oscillations – Evgeni Grishin (Technion, Israel Institute of Technology, Haifa, Israel)

15:20 – 16:00 Coffee Break

Session 3: Planet formation and migration: planet–disk interactions (Chair: Alexandre Correia)
16:00 – 16:25 Formation of hot Jupiters through secular chaos and dynamical tides – Jean Teyssandier (Cornell University)
16:50 – 17:15 Formation of Solar System Analogues: from the gaseous protoplanetary disk to the final stage of giant impacts – Maria Paula Ronco (Instituto de Astrofisica – Pontificia Universidad Catolica de Chile – Nucleo Milenio de Formacion Planetaria)
TUESDAY 04.06.19

Session 4: Observational results of multi–planet systems (RVs) (Chair: Sabine Reffert)
09:00 – 09:30 Giant Stars: From Radial Velocities to Planetary Systems – Andreas Quirrenbach (Landessternwarte, ZAH)
09:30 – 09:55 Hunt for Additional Planetary Companions: Revisiting Single Planet Systems with High Precision Doppler Spectroscopy – Martin Kuerster (MPIA)
09:55 – 10:20 GJ 4276: One eccentric planet or two planets in a 2:1 resonance? – Stefan Czesla (Hamburger Sternwarte)

10:30 – 11:10 Coffee Break

Session 5: Observational results of multi–planet systems (RVs) (Chair: Martin Kuerster)
11:10 – 11:35 Dynamical characterization and prospects of habitability for the GJ 1148 system Trifon Trifonov (MPIA)
11:35 – 12:00 A tightly packed multiplanetary system around an active M dwarf – Stephan Stock (Landessternwarte, ZAH Heidelberg)
12:00 – 12:25 Dynamical stability analysis for the six planet system HD34445: an attempt to validate the radial velocity solution – Nikolaos Georgakarakos (New York University Abu Dhabi)
12:25 – 12:50 Ups. Andromedea revisited. Dynamical characterization and a fourth outer Jovian planet in the system – Jakub Morawski (University of Warsaw)

12:50 – 14:30 Lunch Break

Session 6: Observational results of multi–planet systems (Transits) (Chair: Rosemary Mardling)
14:30 – 14:55 Probing Exoplanetary Orbital Precession from Transit Variations – Yair Judkovsky (Weizmann Institute of Science)
15:50 – 16:30 Coffee Break

**Session 7: Resonant and near–resonant multi–planet systems (Chair: Bertram Bitsch)**

16:30 – 17:00 Relaxation of resonant two–planet systems and their TTVs – Rosemary Mardling (Monash University)
17:00 – 17:25 Pure Three–body and Double Two–body Resonances in Multi–planet Systems – Ka Ho Wong (The University of Hong Kong)
17:25 – 17:50 The onset of instability in resonant chains – Gabriele Pichierri (Observatoire de la Cote d'Azur)

**WEDNESDAY 05.06.19**

**Session 8: Obliquities (Chair: Melvyn B. Davies)**

09:00 – 09:30 Obliquity–Driven Sculpting of Exoplanetary Systems– Gregory Laughlin (Yale University)
09:30 – 09:55 Asynchronous and chaotic rotation for compact planetary systems – Alexandre Correia (University of Coimbra)
09:55 – 10:30 Poster session (each poster – 3 min.)

10:30 – 11:10 Coffee Break

**Session 9: Obliquities (Chair: Virginie Faramaz)**

11:10 – 11:40 Spin dynamics in multiple planet and multiple satellite systems – Alice Quillen (University of Rochester, NY)
11:40 – 12:05 Obliquities of exoplanet host stars – Simon Albrecht (Aarhus University)
12:05 – 12:20 Conference Photo

Free Afternoon and Evening
Options (self paid):
– Sightseeing Heidelberg
– Boat trip on the Neckar river
THURSDAY 06.06.19

Session 10: Secular dynamics and chaos (Chair: Andreas Quirrenbach)

09:00 – 09:30 AMD-stability of planetary systems – Jacques Laskar (Paris Observatory)
09:30 – 09:55 Resonance overlap criterion and the onset of chaos for eccentric planets – Sam Hadden (Harvard–Smithsonian Center for Astrophysics)
09:55 – 10:20 Secular dynamics of non–coplanar extrasolar systems – Anne–Sophie Libert (University of Namur)

10:20 – 11:00 Coffee Break

Session 11: Secular dynamics and chaos (Chair: Simon Albrecht)

11:00 – 11:30 Survival of scattered planets in potentially habitable orbits Melvyn B. Davies (Lund University)
11:30 – 11:55 Evolution of the co–orbital resonance in protoplanetary disc – Adrien Leleu (University of Bern)
11:55 – 12:20 Mutual Inclinations in Multi–Planet Systems with External Perturbers – Chi Ho Lau (The University of Hong Kong)

12:30 – 14:00 Lunch Break

Session 12: Dynamics of S– and P–type planets in binaries (Chair: Dimitri Veras)

14:00 – 14:25 Do Circumbinary Planets Stop Migration at the Boundary of Stability? – Nader Haghighipour (Institute for Astronomy, University of Hawaii)
14:25 – 14:50 Quantifying the Effects of Stellar Flybys on Planetary Systems – Garett Brown (University of Toronto)
14:50 – 15:15 Is there a planetary companion in the eccentric binary system Epsilon Cygni? – Paul Heeren (Landessternwarte Heidelberg)
15:15 – 15:40 Numerical Determination of the Elements of Circumbinary Orbits – Man Hoi Lee (The University of Hong Kong)

15:40 – 16:20 Coffee Break
Session 13: Numerical tools (Chair: Man Hoi Lee)
16:20 – 16:45 Should N-body integrators be (fully) symplectic? – David M. Hernandez (Harvard–Smithsonian CfA/RIKEN CCS)
16:45 – 17:10 How much can ignoring disc self-gravity in hydrodynamical simulations affect the resonant configuration? Sareh Ataiee (University of Tuebingen)
17:10 – 17:35 Rocky planets around a low-mass star – Stefan Dreizler (University Goettingen)

19:00 Conference Dinner downtown Heidelberg at Zum Gueldenen Schaf

FRIDAY 07.06.19

Session 14: Post–MS evolution dynamics (Chair: Nader Haghighipour)
09:00 – 09:30 Violent dynamics in planetary systems around dying stars – Dimitri Veras (University of Warwick)
09:30 – 09:55 Measuring the Orbital Parameters of Radial Velocity Systems in Mean Motion Resonance a Case Study of HD 200964 – Mickey M Rosenthal (University of California, Santa Cruz)
09:55 – 10:20 A second Jupiter orbiting in 4:3 resonance in the 7 CMa system – Rafael Luque (Instituto de Astrofisica de Canarias)

10:30 – 11:10 Coffee Break

Session 15: Dust grain, Comets and Kuiper belt objects (Chair: Trifon Trifonov)
11:10 – 11:35 Temporary capture of charged dust close to outer mean-motion resonance with a planet – Christoph Lhotka (Oesterreichische Akademie der Wissenschaften)
11:35 – 12:00 Inward scattering of exocomets by planet chains – Sebastian Marino Estay (MPIA)
12:00 – 12:25 Secular dynamics of resonant Kuiper belt objects: Kozai–Lidov cycles and adiabatic chaos – Sergey Efimov (MIPT)

12:30 – 14:00 Lunch Break

End of the conference
Posters

1 – Forming transition disks with planets – Thomas Rometsch (University of Tübingen)
2 – Dust traps in the protoplanetary disc MWC 758: two vortices produced by two giant planets? – Marcelo Barraza (MPIA)
3 – Thermal torque effects on the migration of growing low–mass planets – Maria Paula Ronco (Instituto de Astrofisica – Pontificia Universidad Catolica de Chile – Nucleo Milenio de Formacion Planetaria)
4 – The dynamical fate of Solar systems in open clusters – Francesco Maria Flammini Dotti (Xi'an Jiaotong-Liverpool University)
5 – How planetary systems are shaped by their birthplace – Katja Reichert (Astronomisches Rechen-Institut, ZAH, Heidelberg)
6 – Free-floating massless particles in star clusters – Qi Shu (Peking University)
7 – Signatures of star clusters on Kepler planetary systems – Maxwell Cai (Leiden)
8 – Dynamics of Planetary Systems in Interaction with the Supermassive Black hole in the Galactic Centre – Nazanin Davari (University of Rome Sapienza)
9 – Resonances in the Kepler–18 system – Pavol Gajdos (Institute of Physics, Pavol Jozef Safarik University in Kosice, Slovakia)
10 – Stability of NY Virginis System in the Light of New Eclipse Timing Data – Ekrem Murat Esmer (CFisUC, Department of Physics, University of Coimbra)
11 – Reverse Population Synthesis for Observed Planets around Evolved Stars – Vera Wolthoff (Landessternwarte, ZAH, Heidelberg)
13 – Orbital stability as a way to refine multiplanetary systems – Manu Stalport (University of Geneva)
14 – Gas accretion onto multiple giant planets in protoplanetary discs – Camille Bergez–Casalou (MPIA)
15 – High order regularised symplectic integrator for collisional planetary systems – Antoine Petit (Observatoire de Paris)
17 – The Origin of Chaos in the Orbit of Comet 1P/Halley – Tjarda Boekholt (University of Aveiro)