

Cologne-Prague meeting in Prague 2015

From supermassive black holes to star formation in galactic nuclei

Programme

Monday - November 9, 2015

9:00 - 9:15 **Vladimir Karas & Andreas Eckart – Welcome**

Chair: Vladimir Karas

9:15 - 9:45 **Gerold Busch - Star formation and black hole accretion in nearby AGNs and quasars from a near-infrared perspective**

9:45 - 10:15 **Jiri Svoboda - AGN spectral states**

10:15 - 10:45 **Michal Zajacek - AGN feedback and galaxy evolution across optical emission line diagrams**

10:45 - 11:15 *Coffee/Tea Break*

11:15 - 11:45 **Richard Wunsch, Frantisek Dinnbier, Tereza Jerabkova - Positive and negative feedback in formation of star clusters**

11:45 - 12:15 **Nadeen Sabha - Mid-infrared view of the Galactic centre**

12:15 - 12:45 **Ladislav Subr - Dynamics of a stellar disc around a SMBH**

12:45 - 14:30 *Lunch break*

Chair: Michal Zajacek

14:30 - 15:00 **Andreas Eckart - The Milky Way's Supermassive Black hole: How good a case is it? A Challenge for Astrophysics & Philosophy**

15:00 - 15:30 **Banafsheh Shahzamanian - Variable and Polarised Near-infrared Emission from the Galactic Centre**

15:30 - 16:00 **Vladimir Karas - Equations of General Relativity Magnetohydrodynamics: case of axial symmetry, stationarity, perfect MHD**

16:00 - 16:30 *Coffee/Tea Break*

16:30 - 17:00 **Francisco Frutos-Alfaro - Saving Private Kerr or A New Kerr-like Metric with Quadrupole [Abstract](#)**

17:00 - 17:30 **Marzieh Parsa - Investigating stellar orbits near SMBH**

17:30 - 18:00 **Jaroslav Hamersky - A magnetised black hole torus disrupted by stellar fly-by**

18:00 - *Free discussion, work on common projects/papers/proposals, free programme in Prague*

Dinner - 19:00

Tuesday - November 10, 2015

Chair: Andreas Eckart

9:00 - 9:30 **Florian Peissker** - Near-infrared observations with SINFONI - Monitoring the Dusty S-Cluster Object (DSO) on its trajectory around Sgr A*

9:30 - 10:00 **Michal Zajacek** - Effect of an isotropic outflow on the bow-shock evolution: Application to DSO/G2 source

10:00 - 10:15 **Vladimir Karas** - Gravitational light bending at 100th anniversary of GR

10:15 - 10:45 *Coffee/Tea Break*

10:45 - 11:15 **Zdenek Stuchlik** - Jets: Acceleration of charged particles in the field of magnetized black holes [Abstract](#)

11:15 - 11:45 **Ondrej Kopacek** - Regular and chaotic motion in an inclined black hole magnetosphere

11:45 - 12:15 **Michal Dovciak** - KYspot with shear

12:15 - 14:00 *Lunch break*

Chair: Gerold Busch

14:00 - 14:30 **Grischa Karssen** - Analysis of the four brightest X-ray flares from Sgr A* and modelling of NIR flares

14:30 - 15:00 **Matthias Subroweit** - Variability of SgrA* in the submm and mm regime

15:00 - 15:30 *Coffee/Tea Break*

15:30 - 16:00 **Devaky Kunneriath** - Current status of ALMA and its observational capabilities

16:00 - 16:30 **Petr Kabath** - Observer's guide to Paranal

16:30 - *Free discussion, work on common projects/papers/proposals, free programme in Prague*