



Tuesday (September 23rd)

Welcome reception & cocktail

- 19:00-19:15 Registration at the *Grandhotel Prague - Conference room* (Tatranská Lomnica 8, 059 60 Vysoké Tatry)
- 19:15-19:25 Michal Zajaček, Natalia Shagatova, Patrik Čechvala, Foreword of the organizers
- 19:25-19:40 Michal Zajaček, Scope of the Tatra Astro Summit: purpose and goals + Historical note about Rainer Weiss (1932-2025) and his contribution to gravitational-wave astrophysics
- 19:40-20:00 Petr Kurfürst, Architectural gems of the Tatra Mountain region: from wooden chalets to grandhotels and functionalism (Bohuslav Fuchs, Dušan Jurkovič and more)
- 20:00-21:00 Free discussion with refreshment (basic food & drinks will be provided; additional drinks can be ordered and paid individually by participants)
- 21:00-00:00 Individual discussion and orders possible at the hotel bar

Wednesday (September 24th)

Main Tatra Astro Summit Day - Location: Astronomical Institute, Slovak Academy of Sciences

8:30-8:45 Welcome notes

Stars (including the Sun), stellar populations, exoplanets, exoasteroids - Session 1 (Chair: Norbert Werner)

8:45-9:00 Augustin Skopal, *Z And-type outbursts in accreting white dwarf binaries* (keynote)

9:00-9:15 Maksim Gabdeev, Morphological classification of eclipsing binary stars using computer vision methods

9:15-9:30 Zoltán Garai, Dynamics of the AU Mic system as observed with CHEOPS

9:30-9:45 Jozef Lipták, Stellar activity – effect of binaries

9:45-10:00 Petr Kurfürst, Supernovae as tracers of the structure and evolution of the surrounding universe

10:00-10:15 Július Koza, Exploring Solar Flares: The Magnetism of Flare Loops

10:15-10:30 Jakub Cehula, Magnetar giant flares as a new site of *r*-process nucleosynthesis

10:30-11:00 Coffee/Tea break

Stars (including the Sun), stellar populations, exoplanets, exoasteroids - Session 2 (Chair: Maksim Gabdeev)

- 11:00-11:15 **Ján Budaj**, A swarm of dusty objects in orbit around the central star of planetary nebula WeSb 1 (keynote)
- 11:15-11:30 **Marek Skarka**, First scientific results with PLATOSpec
- 11:30-11:45 **Asen Christov**, Brief overview of FZU activities for the LISA project, in the Vera C. Rubin collaboration and instrumentation for astronomy (keynote)
- 11:45-12:00 **Norbert Werner**, QUVIK - An Agile Ultraviolet Space Telescope (keynote)
- 12:00-13:30 **Lunch in Hotel Academia**
- Observational and theoretical characteristics of compact objects, galactic nuclei, and galaxy clusters - Session 1 (Chair: Izzy Garland)
- 13:30-13:45 **Luboš Neslušan**, Newly discovered property of relativistic gravity in the interior of compact objects (keynote)
- 13:45-14:00 **Martin Kološ**, Black hole magnetosphere
- 14:00-14:15 **Vladimír Karas**, Accretion-assisted inspirals near galactic nuclei SMBH (keynote)
- 14:15-14:30 **Taj Jankovič**, Radiation-hydrodynamics of star-disc collisions
- 14:30-14:45 **Monika Viskotová**, Spectral signatures of quasiperiodic outflows in galactic nuclei
- 14:45-15:00 **Michal Zajaček**, Can we detect eclipses of galactic nuclei and what are they useful for?
- 15:00-15:15 **Coffee/Tea break**
- Observational and theoretical characteristics of compact objects, galactic nuclei, and galaxy clusters - Session 2 (Chair: Natalia Shagatova)
- 15:15-15:30 **Matúš Labaj**, Compact stellar clusters as potential IMBH hosts
- 15:30-15:45 **Henry Best**, What's in a Transfer Function?
- 15:45-16:00 **Izzy Garland**, Bar-driven fuelling of AGN (keynote)
- 16:00-16:15 **Congyao Zhang**, Mapping Hot Gas Kinematics in Galaxy Clusters: Recent Progress with XRISM (keynote)
- 16:15-16:30 **Tomáš Plšek**, Studying radio-mechanical AGN feedback with X-ray cavities
- 16:30-16:45 **Dan Hu**, Diffuse radio emission within and beyond galaxy clusters
- 16:45-17:00 **Tomáš Ondro**, Lognormal seminumerical simulations of the Lyman alpha forest
- 17:00-17:15 **Coffee/Tea break**
- High-Energy and Multi-messenger astrophysics (Chair: Jakub Cehula)
- 17:15-17:30 **Petr Trávníček**, Highlights from the Pierre Auger Observatory (keynote)
- 17:30-17:45 **Patrik Čechvala**, **Jakub Juryšek**, The SST-1M Project: Present and Future (keynote)
- 17:45-18:00 **Petr Hamal**, Optical Systems for astro particle experiments: Research and Development at JLO
- 18:00-18:15 **Jakub Řípa**, GRB-detecting nanosatellites GRBAIpha, VZLUSAT-2 and GRBBeta (keynote)

18:15-18:30 **Filip Münz**, QUVIK data processing

“Before dinner” talks (Chair: Michal Zajaček)

18:30-18:45 **Lýdia Štofanová**, Lessons learnt: ISU SSP25 in South Korea (keynote)

18:45-19:00 **Vladimír Karas**, Meeting near high peaks: Les Houches, Aspen, Sesto ...

20:15- Conference Dinner in Tatranská Lomnica, Grill Pub Restaurant

Thursday (September 25th)

Astronomical Instruments in the High Tatras

9:00-10:00 **Visit of astronomical instruments at the Astronomical Institute** - Location: Astronomical Institute, Slovak Academy of Sciences

11:00-11:30 **Cable-car from Tatranská Lomnica to Skalnaté Pleso station** - location of the Base Station in Tatranská Lomnica

12:00(:20:40) **Groups taking a cable-car to Lomnický Peak Solar Observatory**

13:30-14:30 **Visit of the Skalnaté Pleso Observatory**

14:30- **Optional hike (weather permitting) from Skalnaté Pleso to Hrebienok along the Tatranská Magistrála trail (red)**, visit of Zamkovský chalet on the way