



Conference Schedule

Day 1: Wednesday, May 28, 2025

Location: T1 Lecture room in Troja campus.

Time	
9 <sup>00</sup> –9 <sup>35</sup>	<b>Gerhard Schäfer</b> An Excursion of Jiří into Post-Minkowskian
9 <sup>35</sup> –10 <sup>10</sup>	<b>Volker Perlick</b> Gravitational lensing by compact objects in the presence of a plasma
10 <sup>10</sup> –10 <sup>30</sup>	<b>Zdeněk Stuchlík</b> Charged Particle Dynamics in the Dipole Magnetosphere of Neutron Stars
10 <sup>30</sup> –11 <sup>00</sup>	Coffee break
11 <sup>00</sup> –11 <sup>35</sup>	<b>Piotr Chrusciel*</b> Who is afraid of a negative lapse?
11 <sup>35</sup> – 12 <sup>10</sup>	<b>Christian Klein</b> Visualization of exact solutions of the stationary axisymmetric Einstein equations via ray tracing
12 <sup>10</sup> –12 <sup>30</sup>	<b>Barbora Bezděková</b> Optical Structure in the Kerr Spacetime and Its Applications to M87*
12 <sup>30</sup> –14 <sup>00</sup>	Lunch
14 <sup>00</sup> –14 <sup>20</sup>	<b>Latham Boyle</b> Black Mirrors: CPT-Symmetric Alternatives to Black Holes
14 <sup>20</sup> –14 <sup>40</sup>	<b>Mokhtar Hassaine</b> Non-Noetherian conformal scalar field
14 <sup>40</sup> –15 <sup>30</sup>	Panel discussion  Past & Future of Gravitational Physics V. Frolov, H. Nicolai, T. Piran, K. Thorne
15 <sup>30</sup> –16 <sup>00</sup>	Coffee break
16 <sup>00</sup> –16 <sup>20</sup>	<b>Sebastian Schuster</b> Primordial Black Holes, Charge, and Dark Matter: Rethinking Evaporation Limits
16 <sup>20</sup> –16 <sup>40</sup>	<b>Jiří Horák</b> Misalignment of the Lense-Thirring precession by an accretion torque
16 <sup>40</sup> –17 <sup>00</sup>	<b>Wlodek Kluźniak</b> Accretion onto a Reissner-Nordström naked singularity

Public Lecture

Location: Blue auditorium in Prague center.

Time	Speaker	Title
19 <sup>00</sup> –20 <sup>00</sup>	<b>Kip Thorne</b>	<i>Quantum Fluctuations in our Universe's Warped Side: Big Bang, Black Holes, Wormholes, Time Travel and Gravitational Waves.</i>

## Day 2: Thursday, May 29, 2025

Location: T1 Lecture room in Troja campus.

Time	
9 <sup>00</sup> –9 <sup>35</sup>	<b>Hermann Nicolai</b> On a possible origin of primordial black holes
9 <sup>35</sup> –10 <sup>10</sup>	<b>Wan Cong</b> Detection of rotation and conical deficit with UDW detectors
10 <sup>10</sup> –10 <sup>30</sup>	<b>Vladimír Karas</b> On Stars and Tides: Way of Probing Dense Stellar Clusters?
10 <sup>30</sup> –11 <sup>00</sup>	Coffee break
11 <sup>00</sup> –11 <sup>35</sup>	<b>Tsvi Piran</b> Memories - of Jiří and of Gravitational Waves
11 <sup>35</sup> –12 <sup>10</sup>	<b>Valeri P. Frolov</b> Regular black holes inspired by quasitopological gravity
11 <sup>10</sup> –12 <sup>30</sup>	<b>Roman Konoplya</b> Late time decay in black hole backgrounds
12 <sup>30</sup> –14 <sup>00</sup>	Lunch
14 <sup>00</sup> –14 <sup>20</sup>	<b>Vojtěch Pravda</b> History and Prehistory of VSI and Universal Spacetimes
14 <sup>20</sup> –14 <sup>40</sup>	<b>Jens Boos</b> Autoparallels in post-Riemannian spacetimes
14 <sup>40</sup> –14 <sup>55</sup>	<b>David Kubizňák</b> Carrollian Monarch Butterflies on the Black Hole Horizon
14 <sup>55</sup> –15 <sup>30</sup>	<b>Robert Mann*</b> Accelerating Black Holes from Three Perspectives
15 <sup>30</sup> –16 <sup>00</sup>	Coffee break
16 <sup>00</sup> –16 <sup>20</sup>	<b>Michal Zajaček</b> Mapping circumnuclear media: From the Galactic center to distant quasars and beyond
16 <sup>20</sup> –16 <sup>40</sup>	<b>Finnian Gray &amp; Gloria Odak</b> On a lower-dimensional Killing vector origin of irreducible Killing tensors
16 <sup>40</sup> –17 <sup>00</sup>	<b>Rick Perche</b> Quantifying Vacuum Entanglement in Quantum Field Theory
17 <sup>00</sup> –20 <sup>00</sup>	Transfer / Dinner
20 <sup>15</sup> –21 <sup>00</sup>	Organ concert
Church of Our Lady of the Snows	

### Day 3: Friday, May 30, 2025

Location: Czech Academy of Sciences building in Prague center.

Time	
9 <sup>00</sup> –9 <sup>35</sup>	<b>Andres Anabalon</b> The Geometry of Meaning: Perfect Spacetime Representations of Hierarchical Structures
9 <sup>35</sup> –9 <sup>55</sup>	<b>Robie Hennigar</b> Evolution of creases on the event horizon of a black hole merger
9 <sup>55</sup> –10 <sup>10</sup>	<b>Breno Giacchini</b> Black holes and other exact solutions in six-derivative gravity
10 <sup>10</sup> –10 <sup>20</sup>	<b>Alexander Vikman</b> Ghosts Can Do It
10 <sup>20</sup> –10 <sup>30</sup>	<b>Justin Feng</b> On background dependent formalisms for general relativity
10 <sup>30</sup> –11 <sup>00</sup>	Coffee break
11 <sup>00</sup> –11 <sup>20</sup>	<b>Constantinos Skordis</b> Extensions of General Relativity and cosmological dark matter
11 <sup>20</sup> –11 <sup>40</sup>	<b>Marek Abramowicz</b> The optical geometry: when Einstein meets Hašek
11 <sup>40</sup> –12 <sup>00</sup>	<b>Vladimír Balek</b> Paper in the Time of Corona
12 <sup>00</sup> –12 <sup>20</sup>	<b>Filip Hejda</b> Colliding with Bičák
12 <sup>20</sup> –14 <sup>00</sup>	Lunch
14 <sup>00</sup> –14 <sup>10</sup>	The Ernst Mach Medal - Announcement
14 <sup>10</sup> –14 <sup>20</sup>	gathering - Martin Rees*
14 <sup>20</sup> –14 <sup>50</sup>	gathering - Oldřich Semerák
14 <sup>50</sup> –15 <sup>20</sup>	gathering - Petr Hadrava
15 <sup>20</sup> –15 <sup>30</sup>	gathering - Leoš Dvořák
15 <sup>30</sup> –16 <sup>00</sup>	Coffee break
16 <sup>00</sup> –16 <sup>30</sup>	gathering - Zdeněk Stuchlík
16 <sup>30</sup> –17 <sup>00</sup>	gathering - Václav Janiš
17 <sup>00</sup>	Final words & End of conference

\* online