

PROGRAM

Sunday, 26 July 2026

17:00 – 21:00 Registration and welcome refreshment

Location: Pyramida Hotel - Lobby

Monday, 27 July 2026

07:50	–	08:20	Opening address	
				<i>Location: Pyramida Hotel Lecture Hall A</i>
08:20	–	09:50	1 session: Stochastic and quantum thermodynamics	
				<i>Location: Pyramida Hotel Lecture Hall A</i>
08:20	–	08:50	Peter Hänggi:	<i>Quantum Brownian Motion: Facts, debatable issues and unsolved issues</i>
08:50	–	09:20	Udo Seifert:	<i>Entropy production and its model-free inference</i>
09:20	–	09:50	Ronnie Kosloff:	<i>Quantum thermodynamics, Quantum control, Quantum gates for open systems</i>
09:50	–	10:10	Coffee break	
10:10	–	12:10	2 session: Quantum computing	
				<i>Location: Pyramida Hotel Lecture Hall A</i>
10:10	–	10:40	Yuval Gefen:	<i>Quantum Cooling through Measurements</i>
10:40	–	11:10	Jens Eisert:	<i>Probing thermodynamics and entanglement with bosonic quantum simulators</i>
11:10	–	11:40	Franco Nori: online	<i>A few recent results on superconducting qubits: (1) one photon simultaneously exciting two qubits; (2) strong coupling between a single photon and a two-photon Fock state; and (3) Thouless pumping</i>
11:40	–	12:10	Tapio Ala-Nissilä:	<i>The Magic in Quantum Machine Learning</i>
12:10	–	13:00	Lunch	
13:00	–	15:10	3 session - A parallel: Many body systems out of equilibrium	
				<i>Location: Pyramida Hotel Lecture Hall A</i>
13:00	–	13:30	Branislav K. Nikolic:	<i>Driven-dissipative quantum spin systems: Fate of their entanglement and the origins of the classical Landau-Lifshitz equation</i>
13:30	–	14:00	Michael Galperin:	<i>Green's function methods for open molecular systems</i>

14:00	–	14:30	Jordan Horowitz:	<i>The geometry of nonequilibrium response</i>
14:30	–	14:50	Gabriele De Chiara:	<i>Nonclassical energy-change distribution as a witness of non-Markovian quantum dynamics</i>
14:50	–	15:10	David Edward Bruschi:	<i>Toward Algebraic Quantum Control</i>

13:00 – 15:10 **3 session - B parallel: Quantum information**

Location: Pyramida Hotel Lecture Hall B

13:00	–	13:30	Saar Rahav:	<i>Information engines with self-propelling particles</i>
13:30	–	14:00	Alberto Imparato:	<i>Information engine fueled by first-passage times</i>
14:00	–	14:30	Henning Kirchberg:	<i>Optimizing Energy Conversion in Feedback-Controlled Nano Processes: Harnessing Time-Dependent Information</i>
14:30	–	14:50	Soroush Khademi:	<i>Post-processed estimation of quantum evolution</i>
14:50	–	15:10	Jose Este Jaloveckas:	<i>Conditional Dynamics of a Dual-Rail Qubit with Asymmetric Erasure Rates</i>

13:00 – 15:10 **3 session - C parallel: Quantum optics**

Location: Pyramida Hotel Lecture Hall C

13:00	–	13:30	Dana Z. Anderson:	<i>The Mechanics of Maxwell Matter Waves</i>
13:30	–	14:00	Volker Deckert:	<i>Scale Effects in Plasmon-Enhanced Raman Spectroscopy</i>
14:00	–	14:30	Walter Pfeiffer:	<i>Impact of surface scattering on photoelectron escape times</i>
14:30	–	14:50	Fabio Pistolesi:	<i>Quantum Rabi Model in the slow Oscillator Regime</i>
14:50	–	15:10	Thomas L. Schmidt:	<i>Fabry-Perot interferometry with stochastic anyonic sources</i>
15:10	–	15:30	Coffee break	

15:30 – 18:00 **4 session: Foundations of quantum physics: dedicated to the memory of Luis de La Peña**

Location: Pyramida Hotel Lecture Hall A

15:30	–	16:00	Ana María Cetto:	<i>The vacuum electromagnetic field as the source of atomic stability</i>
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- 16:00 – 16:30 Gregor Weihs: *Quantum light sources for foundational tests and quantum communication*
- 16:30 – 17:00 Marco Genovese: *Single pair measurement of CHSH, negative probabilities and testing relativistic independence through weak measurements.*
- 17:00 – 17:30 Joan Alfina Vaccaro: *The quantum theory of time: Emergence of Lorentz invariance*
- 17:30 – 18:00 Hervé Zwirn: *Are Events Absolute*
- 18:00 – 19:00 Free time and transfer to Wallenstein Palace
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- 19:00 – 22:00 **Welcome Party**
Location: Wallenstein Palac and its Garden
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- 19:00 – 19:30 Opening
- 19:30 – 22:00 Welcome party in the Wallenstein Palace Garden

Tuesday, 28 July 2026

07:50 – 09:50 **1 session: Quantum computing**

Location: Pyramida Hotel Lecture Hall A

- 07:50 – 08:20 Jian-wei Pan: *Quantum Network: quantum communication, computation, and metrology*
online
- 08:20 – 08:50 Ralf Schuetzhold: *Quantum Zeno effect versus adiabatic quantum computing and quantum annealing*
- 08:50 – 09:20 Alexia Auffèves: *An energetic constraint for qubit-qubit entanglement*
- 09:20 – 09:50 Eric Akkermans: *Topological sum rule for geometric phases of quantum gates*
- 09:50 – 10:10 Coffee break

10:10 – 12:10 **2 session: Quantum thermodynamics, engines**

Location: Pyramida Hotel Lecture Hall A

- 10:10 – 10:40 Gershon Kurizki: *From Nonlinear to Linear Control of Quantum Information and Thermodynamics*
- 10:40 – 11:10 Eric Lutz: *Combining energy efficiency and quantum advantage in cyclic machines*
- 11:10 – 11:40 Mikko Möttönen: *Autonomous Quantum Heat Engine*
- 11:40 – 12:10 Oren Tal: *Molecular Archimedean Screw: A torque transfer molecular machine*
- 12:10 – 13:00 Lunch

13:00 – 15:10 **3 session - A parallel: Quantum structures and dynamics**

Location: Pyramida Hotel Lecture Hall A

- 13:00 – 13:30 Leo Kouwenhoven: *Experiments on Kitaev chains in nanowires*
- 13:30 – 14:00 Alexandre Zagoskin: *Dissipative and nondissipative quantum circuit elements*
- 14:00 – 14:30 Linda Reichl: *Entanglement Propagation in quantum dots*
- 14:30 – 14:50 Alessandro Braggio: *Quantum bipolar thermoelectricity*

14:50 – 15:10 Efrat Shimshoni: *Striped Spin Density Wave in a Graphene/Black Phosphorous Heterostructure*

13:00 – 15:10 **3 session - B parallel: Quantum thermodynamics and transport**

Location: Pyramida Hotel Lecture Hall B

13:00 – 13:30 Rudolf Hilfer: *Unstable Hertel-Thirring Models*
13:30 – 14:00 Mauro Antezza: *Kapitza-like Modulation of Near-Field Radiative Heat Transfer*
14:00 – 14:30 Doron Cohen: *Quantum measurement of work in mesoscopic systems*
14:30 – 14:50 Carsten Henkel: *Mesoscopic models for electromagnetic fluctuations in and near conducting media*
14:50 – 15:10 Mateusz Wiśniewski: *Fast directed transport via energy recuperation in non-Markovian media*

13:00 – 15:10 **3 session - C parallel: Quantum many body systems**

Location: Pyramida Hotel Lecture Hall C

13:00 – 13:30 Nir Navon: *Emergence of Fermi's Golden Rule in a Quantum Many-body System*
13:30 – 14:00 Frédéric Chevy: *AC transport in ultracold Fermi gases.*
14:00 – 14:30 Joseph Maciejko: *Topological Landau theory*
14:30 – 14:50 Alexander Shnirman: *Emergence of multiple zero modes bound to vortices in extended topological Josephson junctions*
14:50 – 15:10 Peter D. Keefe: *Phun with Phase Transions of the Qunatum Mechanical Kind*

15:10 – 15:30 Coffee break

15:30 – 16:30 **4 session: Classical and quantum dynamics**

Location: Pyramida Hotel Lecture Hall A

15:30 – 16:00 Igor M. Sokolov: *Langevin equations with multiplicative noise: The mathematics, physics, and thermodynamics of interpretation.*
16:00 – 16:30 Thiago Rodrigues de Oliveira: *Emergence of Classicality from Equilibration in Isolated Quantum Systems*

17:45	–	22:00	Evening session: Public lectures of Philippe Grangier and Allen Hermann followed by jazz concert	
			<i>Location: Pyramida Hotel Lecture Hall A</i>	
17:45	–	18:00	Opening address	
18:00	–	18:50	Public lecture	
18:00	–	18:50	Philippe Grangier:	<i>Quantum Mechanics: from Fundamental Principles to Technological Revolutions</i>
18:50	–	19:00	Discussion after the lecture of Philippe Grangier	
19:00	–	19:15	Break	
19:15	–	20:05	Public lecture	
19:15	–	20:05	Allen Hermann:	<i>How Jazz Musicians Use Improvisation in Communicating with Each Other and with the Audience</i>
20:05	–	20:15	Discussion after the lecture of Bob Montgomery and Allen Hermann	
20:15	–	20:30	Break	
20:30	–	22:00	Concert of jazz music	

Wednesday, 29 July 2026

07:50 – 09:50 **1 session: Quantum optics, superfluids out of equilibrium**

Location: Pyramida Hotel Lecture Hall A

07:50 – 08:20 Ortwin Hess: *Open Quantum Dynamics and Dissipative State Selection in Nanoplasmonic Cavities*

08:20 – 08:50 Ernst Maria Rasel: *Interferometry with Bose-Einstein condensates in extended free fall*

08:50 – 09:20 Vanderlei S Bagnato: *Stages of the relaxation for a far-from-equilibrium trapped superfluid*

09:20 – 09:50 Peter McClintock: *Creation of quantised vortices at a moving surface in superfluid ^4He*

09:50 – 10:10 Coffee break

10:10 – 12:10 **2 session: Quantum systems out of equilibrium**

Location: Pyramida Hotel Lecture Hall A

10:10 – 10:40 Mark Dykman: *The Many Faces of Quantum Fluctuations in Driven Vibrational Systems*

10:40 – 11:10 Joachim Ankerhold: *Dynamics of Open Quantum Systems Revisited: From Non-Markovianity to Efficient Many-body Simulations*

11:10 – 11:40 Michael Thoss: *Quantum dynamics and thermodynamics using the hierarchical equations of motion method*

11:40 – 12:10 Uri Peskin: *Boltzmann subspaces and temperatures in systems driven far from equilibrium*

12:10 – 13:00 Lunch

13:00 – 14:40 **3 session - A parallel: Quantum dynamics, spin systems**

Location: Pyramida Hotel Lecture Hall A

13:00 – 13:30 Christoph Bruder: *Nonreciprocal synchronization of active quantum spins*

13:30 – 14:00 Thierry Martin: *Anyon braiding, Fractional Charge, scaling dimension, and statistical angle in the fractional quantum Hall effect*

14:00	–	14:20	Ephraim Shahmoon:	<i>Quantum states and phases underlying collective dissipation phenomena</i>
14:20	–	14:40	David Gelbwaser-Klimovsky: online	<i>Physical requirements for anomalous thermalization (Mpemba effect)</i>
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13:00	–	14:40	3 session - B parallel: Biophysics	
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<i>Location: Pyramida Hotel Lecture Hall B</i>				
13:00	–	13:30	Stefan Klumpp:	<i>Stochastic dynamics of molecular motors and filaments</i>
13:30	–	14:00	Thomas Vojta:	<i>Reflected fractional Brownian motion as model of serotonergic axons in the brain</i>
14:00	–	14:20	Václav Špička:	<i>Formation of action potential in neuron and the quantum diffusion of somatic ions</i>
14:20	–	14:40	Lev Mourokh:	<i>Vitacrystallography: X-ray diffraction of biological tissues for cancer detection</i>
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13:00	–	14:40	3 session - C parallel: Quantum information	
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<i>Location: Pyramida Hotel Lecture Hall C</i>				
13:00	–	13:30	Eliahu Cohen:	<i>Information Flow in Quantum Algorithms: Structure and Optimization</i>
13:30	–	14:00	Matthias Zimmermann:	<i>Advanced Quantum Networks - Future Applications and Technology Demonstrations</i>
14:00	–	14:20	Sergii Strelchuk:	<i>The Power of Power-of-SWAP: Postselected Quantum Computation with the Exchange Interaction</i>
14:20	–	14:40	Sergey N. Shevchenko: online	<i>Quantum capacitances and resistances of electron boxes and transistors</i>
14:40	–	15:00	Coffee break	
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15:00	–	17:10	4 session - A parallel: General physics - models and methods	
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<i>Location: Pyramida Hotel Lecture Hall A</i>				
15:00	–	15:30	Ofer Biham:	<i>First return processes on random networks</i>
15:30	–	16:00	Eytan Katzav:	<i>Structural Phase Transitions in Evolving Networks Under Different Node-Deletion Mechanisms</i>

- 16:00 – 16:30 Ivan Rungger: *pyTTN: A tree tensor network based open-source toolbox for open and closed system quantum dynamics simulations and its application in quantum algorithms*
- 16:30 – 16:50 H. B. Chan: *Casimir force on gratings covered with graphene*
- 16:50 – 17:10 George E. A. Matsas: *A gravitational self-decoherence model and a gentle recovery of the classical world*
[online](#)

15:00 – 17:10 **4 session - B parallel: Foundatio of quantum physics**

Location: Pyramida Hotel Lecture Hall B

- 15:00 – 15:30 Gianluca Rastelli : *Magnetically Levitated Systems Approaching the Quantum Regime*
- 15:30 – 16:00 Yutaka Shikano: *Judea Pearl Meets Yakir Aharonov in Wheeler’s Delayed-Choice Experiment*
- 16:00 – 16:30 Stefan Gerlich: *A New Frontier in Matter-Wave Interferometry: From Large Metal Clusters to Biomolecules*
- 16:30 – 16:50 Masanao Ozawa: *Value Reproducibility and Intersubjectivity of Quantum Measurements based on Quantum Perfect Correlations*
- 16:50 – 17:10 Lorenzo Maccone: *Tight Entropic Uncertainty Relations*

15:00 – 17:10 **4 session - C parallel: General physics**

Location: Pyramida Hotel Lecture Hall C

- 15:00 – 15:30 Denys I Bondar: *Alchemy as an optical problem: Theory and Experiments*
- 15:30 – 16:00 Julia Liebert: *Operational impact of quantum resources in chemical dynamics*
- 16:00 – 16:30 Daniel M Dantchev: *Contradictory predictions for the Casimir force under Dirichlet-Neumann boundary conditions: Gaussian versus mean-field model*
- 16:30 – 16:50 Jiří J. Mareš: *Note on the so-called “big G puzzle”*
- 16:50 – 17:10 Dalibor Štys: *Point information gain entropy density, and an ideal image from light microscopy*

17:10 – 19:00 Free time and transfer to the Church of Saint Nicholas

19:00 – 20:00 **Concert of classical music**

Location: Church of Saint Nicholas

Thursday, 30 July 2026

07:50 – 09:50 **1 session: General physics**

Location: Pyramida Hotel Lecture Hall A

07:50 – 08:20 Philippe Grangier: *Contextual unification of classical and quantum physics*

08:20 – 08:50 Bei-Lok Hu: *Vacuum Viscosity*

08:50 – 09:20 Michael Prouza: *Einstein telescope*

09:20 – 09:50 Victor Flambaum: *Nuclear clocks and search for new physics online*

09:50 – 10:10 Coffee break

10:10 – 12:10 **2 session - A parallel: General physics**

Location: Pyramida Hotel Lecture Hall A

10:10 – 10:40 Georgi Gary Rozenman: *Aharonov-Bohm, Kennard Phase, and Three-Slit Dynamics in Pilot-Wave Hydrodynamics*

10:40 – 11:10 Stefan Nimmrichter: *Electron-enabled Nanoparticle Diffraction*

11:10 – 11:40 Nadav Katz: *Measuring in the dark - classical and quantum results*

11:40 – 12:10 Themistoklis Mavrogordatos: *Quantum Jumps in Amplitude Bistability: Tracking a Coherent and Invertible State Localization*

10:10 – 12:10 **2 session - B parallel: Many body systems, dynamics, spins**

Location: Pyramida Hotel Lecture Hall B

10:10 – 10:40 Jaroslav Fabian: *Correlations and spins in 2D materials*

10:40 – 11:10 David Santiago Quevedo: *Out-of-equilibrium stochastic dynamics in power-law viscoelastic and non-Ohmic thermal environments*

11:10 – 11:40 Elisabetta Paladino: *Circuit Quantum Electrodynamics with two-dimensional material-based Josephson Junctions*

11:40 – 12:10 Yasuhiro Utsumi: *Network analysis for steady-state current fluctuations in the presence of finite affinity*

10:10	–	12:10	2 session - C parallel: Quantum optics and dynamics	
<i>Location: Pyramida Hotel Lecture Hall C</i>				
10:10	–	10:40	Peter Samuelsson:	<i>Lindblad master equation for deep strong coupling regime of the quantum Rabi model</i>
10:40	–	11:10	Paolo Piergentili:	<i>Radio frequency to optical transducer based on a soft-clamped membrane</i>
11:10	–	11:40	Ievgen Arkhipov:	<i>Controlling Chiral State Dynamics in Multiqubit and Multimode Non-Hermitian Systems</i>
11:40	–	12:10	Oleh V. Ivakhneko: online	<i>Fast Nonadiabatic Gates for Quantum Signal Processing via Landau-Zener-Stückelberg-Majorana interferometry</i>
12:10	–	13:00	Lunch	
13:00	–	14:30	3 session: Quantum optics, cold atoms	
<i>Location: Pyramida Hotel Lecture Hall A</i>				
13:00	–	13:30	Aephraim Matthew Steinberg:	<i>The Private Lives of Photons: Asking particles where they spent the night</i>
13:30	–	14:00	Frank A. Narducci:	<i>Sensitivity functions and phase scaling in light-pulse atom interferometers</i>
14:00	–	14:30	Jeremy R Armstrong:	<i>Finite Size Effects in LHY Droplets</i>
14:30	–	14:50	Coffee break	
14:50	–	16:20	4 session: General physics	
<i>Location: Pyramida Hotel Lecture Hall A</i>				
14:50	–	15:20	Andrew N. Jordan:	<i>Thermodynamics of Quantum Measurement: Making tunneling particles and vacuum fluctuations work</i>
15:20	–	15:50	Shmuel Gurvitz:	<i>Time Delay in Tunneling Current and the Tunneling Time</i>
15:50	–	16:20	Eran Sela:	<i>Arrow of Time as an Order Parameter for Measurement-Induced Phase Transitions</i>
16:20	–	16:50	Fernando Sols:	<i>Hawking time crystals</i>
16:50	–	18:40	Poster session and refreshment	

Location: Pyramida hotel - first floor

18:40 – 19:00 Free time

19:00 – 21:50 **Evening session: Public lecture of Amir Caldeira and concert**

Location: Pyramida Hotel Lecture Hall A

19:00 – 19:10 Opening address

19:10 – 20:00 Public lecture

19:10 – 20:10 **Amir Ordacgi Caldeira: *Macroscopic quantum phenomena and related matters: A brief history and the Nobel Prize in Physics 2025***

20:00 – 20:10 Discussion after the lecture of Amir Caldeira

20:10 – 20:30 Break

20:30 – 21:50 Concert of classical music

Friday, 31 July 2026

07:50 – 09:50 **1 session: Biophysics**

Location: Pyramida Hotel Lecture Hall A

07:50 – 08:20 Robert Hamilton Austin: *Robert Dicke, Dicke Superfluorescence, Hopfield Polaritons and Amide-I Protein alpha Helix Coherent 4-Wave Mixing Gratings*

08:20 – 08:50 Miguel Rubi: *Molecular entropic forces and scaling laws in chaperone-driven nanofilament unbundling*

08:50 – 09:20 Ralf Eichhorn: *An artificial motor protein that walks along a DNA track*

09:20 – 09:50 Marc Tornow: *What enables efficient long-range charge transport across protein layers?*

09:50 – 10:10 Coffee break

Location: Pyramida Hotel Lecture Hall A

10:10 – 12:10 **2 session - A parallel: Biophysics, dynamics**

Location: Pyramida Hotel Lecture Hall A

10:10 – 10:40 Mirko Rossini: *Charge transfer through DNA - A new perspective from Human Genetics*

10:40 – 11:10 Peter Schmitteckert: *NMR: From Strong-Correlation to Life Sciences*

11:10 – 11:40 Philip Hemmer: *Toward entangled spins in nanodiamonds for biosensing*

11:40 – 12:10 Sabine Tornow: *When Does a Quantum System Return? Topology, Dark States, and Noise in Monitored Dynamics*

10:10 – 12:10 **2 session - B parallel: Many body systems, dynamics, spins**

Location: Pyramida Hotel Lecture Hall B

10:10 – 10:40 Eugene Sukhorukov: *Suppression of quantized heat flow by the dielectric response of a compressible strip at the quantum Hall edge*

- 10:40 – 11:10 Cheolhee Han: *Probing the structure of topological entanglement via selective partitioning*
- 11:10 – 11:40 Björn Sothmann: *Single-spin flip dynamics in the Ising model*
- 11:40 – 12:10 Baptiste Lorent: *Directionality emergence in 2D and 3D quantum random Lorentz gases*

10:10 – 12:10 **2 session - C parallel: Quantum computing**

Location: Pyramida Hotel Lecture Hall C

- 10:10 – 10:40 Fabrizio Piacentini: *Universal protection of quantum states from decoherence*
- 10:40 – 11:10 S. V. Polyakov: *Phase stabilization for next-generation long-distance quantum networks*
- 11:10 – 11:40 Walter Hahn: *Random layers for quantum optimal control with exponential expressivity*
- 11:40 – 12:10 Evgenii Narimanov: *Hyperbolic Quantum Processor*
- 12:10 – 13:00 Lunch

13:00 – 14:30 **3 session: General physics**

Location: Pyramida Hotel Lecture Hall A

- 13:00 – 13:30 Lajos Diósi: *Theorem on von Neumann entropy conjectured from physics of irreversibility*
- 13:30 – 14:00 Jonte R Hance: *The Quantum Plumber's Problem (or Quantum Advantage in Interaction-Free Interferometric Which-Path Discrimination)*
- 14:00 – 14:30 Tjerk Oosterkamp: *Time dilatations for collapse of massive superpositions: An experimentalists view*
- 14:30 – 14:50 Coffee break

14:50 – 16:50 **4 session: Classical and quantum dynamics**

Location: Pyramida Hotel Lecture Hall A

- 14:50 – 15:20 Lea F Santos: *Dissipation as a Resource: From Transient to Steady-State Chaos*
- 15:20 – 15:50 Jorge G Hirsch: *Superradiance, Chaos, and Thermalization in Atom-Photon Systems*

15:50	–	16:20	Riku Tuovinen:	<i>Nonequilibrium Transport and Thermoelectricity in Open Quantum Systems</i>
16:20	–	16:50	Jürgen T. Stockburger:	<i>Entropy augmentation in irreversible dynamics: A journey from epistemology to numerical simulation.</i>
16:50	–	18:00	Free time and transfer to Břevnov monastery	
18:00	–	23:00	<hr/> Guided tour, conference dinner and concert <hr/>	
			<i>Location: Břevnov Monastery</i>	
18:00	–	19:00	Guided tour through Břevnov monastery	
19:00	–	19:20	Welcome	
19:20	–	20:30	First part of the conference dinner	
20:30	–	21:30	Concert of classical music	
21:30	–	23:00	Second part of the conference dinner	

Saturday, 1 August 2026

08:20 – 09:50 **1 session: General physics**

Location: Pyramida Hotel Lecture Hall A

- 08:20 – 08:50 John W. M. Bush: *Pilot-wave hydrodynamics*
08:50 – 09:20 Hartmut Abele: *Gravity Resonance Spectroscopy*
09:20 – 09:50 Kuan-Hsun Chiang: *Superconducting circuits as a platform for experiments on open quantum systems*

09:50 – 10:10 Coffee break

10:10 – 12:10 **2 session: Quantum systems out of equilibrium**

Location: Pyramida Hotel Lecture Hall A

- 10:10 – 10:40 E.K.U. Gross: *Interplay of current-induced forces and electronic friction in nanoscale junctions far from equilibrium*
online
10:40 – 11:10 Yoram Alhassid: *Precision thermodynamics of the Fermi polaron in its strongly coupling regime*
11:10 – 11:40 Pawel Danielewicz: *Deblurring of Nuclear Collisions*
11:40 – 12:10 Declan Mulhall: *Simple Quantum-Chaotic toy system mimic a range of real nuclear phenomena.*

12:10 – 13:00 Lunch

13:00 – 15:30 **3 session: Quantum physics and gravity**

Location: Pyramida Hotel Lecture Hall A

- 13:00 – 13:30 Marlan Scully: *Quantum optics in curved spacetime: Surprises and insights*
online
13:30 – 14:00 James Freericks: *Revisiting the classical-quantum correspondence*
14:00 – 14:30 Konstantin Beyer: *From Non-Markovianity to the Quantumness of Gravitational Dynamics*
14:30 – 15:00 Ron Folman: *Experiments at the interface of general relativity and quantum mechanics*
15:00 – 15:30 Theo M. Nieuwenhuizen: *Nonlocality in General Relativity: A missing link in Einstein's quest for a unified field theory*

15:30 – 16:00

Closing remarks

Location: Pyramida Hotel Lecture Hall A