

Erzherzog Johann Auditorium									
09:00	9:00-9:45 - Katharina Franke								
09:15	Building and investigating magnetic adatom chains on superconductors atom by atom								
09:30									
09:45	9:45-10:30 - Christof Gattringer								
10:00	Quantum Field Theory with Worldlines and Worksheets								
10:15									
10:30	Coffee & Tea								
10:45-12:00	10:45-12:00 - Prize Award Celebration Section								
12:00-13:00	Lunch								
13:00-14:00	13:00-14:00 - General Assembly of ÖPG Members								
Time	Erzherzog Johann Auditorium	HS Raiffeisen	HS Physikalische Chemie	HS Kuppelwieser	HS Miller von Hauenfels				
14:00	Chair: Christian Teichert 14:00-14:30 - Wolfgang E. Ernst Phase Transitions and Alloying of Mixed-Metallic Nanoparticles	Chair: TBA 14:00-14:15 - Gregor Hlawacek On Demand Spatially Controlled Fabrication of Single Photon Emitters in Si	Chair: D. Samitz & S. Schwanda 14:00-14:15 - Julia Thaler Cosmic-ray propagation under consideration of a spatially resolved source distribution	Chair: Alexander Strahl 14:00-14:45 - Preisträgervortrag des Sexl-Preisträgers 2022 Martin Apolin Wie viele Atome von Einstein befinden sich in uns? - Plädoyer für einen lustvollen und sinnerfüllten Physik-Unterricht	Chair: Rainer Leitgeb 14:00-14:15 - Richard W. van Nieuwenhoven Antibacterial surfaces inspired from nanopillars on cicada wings				
14:05						14:15-14:30 - Florian Kappe Red-detuned Excitation of a Quantum Dot	14:15-14:30 - Daniel Samitz Low-mass dielectric measurements in pp, p-Pb and Pb-Pb collisions with ALICE at the LHC	14:15-14:30 - Borislav Hinkov Next generation of liquid sensing based on monolithic mid-IR sensors for real-time reaction monitoring	
14:15						14:30-14:45 - Oliver T. Hofmann Obtaining Design Principles and Processing Conditions with Machine Learning	14:30-14:45 - R. Meisels Simulation of Bragg mirrors for the extreme ultraviolet (EUV)	14:30-14:45 - Christoph Schwanda Determination of the CKM matrix element Vcb from the Belle II data	14:30-14:45 - Maximilian Ritter (Electro-)Luminescent Wood: Design, Assembly and Applications
14:20						14:45-15:00 - Margareta Wagner Physiosorption of a small aromatic hydrocarbon: Benzene on In ₂ O ₃ (111)	14:45-15:00 - Georg Marschick Substrate-emitting, continuous wave interband cascade lasers in concentric, double ring arrangement	14:45-15:00 - Andreas Wiederin Separation of U and Np Isobars by ILIAMS	14:45-15:00 - Karolina Peter Using ESRF "nano-beam" for Investigating Spider Silks Ultrastructure
14:25						15:00-15:15 - Borna Pielic Tuning the vdW interaction between MoS ₂ and graphene by self-intercalation	15:00-15:15 - Andreas Windschhofer Unveiling absorption mechanisms in interband cascade lasers	15:00-15:15 - Oscar Marchhart Developments towards an advanced radiofrequency quadrupole for AMS	15:00-15:30 - Mitgliederversammlung des FA MBU
14:30						15:15-15:30 - Florian Lackner Synthesis and investigation of sub-10 nm metal-semiconductor particles with core-shell and core-multi-shell structure	15:15-15:30 - Moritz Brehm Realization of double heterostructures in group-IV light-emitting diodes for room-temperature applications	15:15-15:30 - Daniel Baumgartner Simulating space charge effects inside the ILIAMS ion cooler	
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15:30-16:00	Coffee & Tea								
16:00	Chair: Giada Francesci 16:00-16:15 - Katharina Burgholzer Oxidized MoS ₂ : the path to memristor-based memories	Chair: TBA 16:00-16:15 - Mikolaj Piotrowski Flip-chip integration of mid-infrared lab-on-a-chip for gas sensing	Chair: Axel Mass 16:00-16:30 - Reinhard Alkofer Hadron properties from QCD bound state equations: An update	16:00-16:30 - Preisträgervorträge der VWA-Preisträgerinnen und -Preisträger der ÖPG 2022 Vorträge 4-6 10 Minuten pro Preisträger:in	Chair: Wolfgang Ernst 16:00-16:15 - Andreas W. Hauser Quantum confinement in carbon structures				
16:05						16:15-16:30 - Muhammad Awais Aslam Ferroelectric Graphene Nanoribbons with a Gate Dependent Transport Gap	16:15-16:30 - Mauro David Functionalization of mid-IR plasmonic waveguides for novel lab-on-a-chip biosensors	16:15-16:30 - Lilian Nowak In-beam measurements of the hydrogen hyperfine splitting to constrain SME coefficients	
16:10						16:30-16:45 - Markus Alfreider Understanding interface fracture in a plastically deforming WTi-Cu system	16:30-16:45 - Petra Christöfl Micromechanical Investigation of Photovoltaic Backsheet Materials	16:30-16:45 - Philipp Schreiner A manifestly gauge-invariant treatment of the MSSM	16:30-16:45 - Johannes Krondorfer Nuclear quadrupole resonance in molecularly confined quantum systems
16:15						16:45-17:00 - Elena Arigiani Low-loss polyethylene-based plasmonics for mid-infrared photonic integrated circuits	16:45-17:00 - Sumea Klokić Guest-driven structural dynamics in photo-responsive MOF films	16:45-17:00 - Fabian Veider Subleading effects for future lepton colliders	16:45-17:00 - Barbara Lehner Route to highly entangled photons from QDs operated at elevated temperatures
16:20						17:00-17:15 - Rajarshi Roy Magnetic graphene quantum dots	17:00-17:15 - Lawrence Whitmore 3D printing of sample preparation tools for reduced carbon footprint	17:00-17:15 - Elizabeth Dobson Possible discrepancies in the spectrum of GUT models	17:00-17:15 - Christian Binder An extension of Eyring Theory to problems of molecular diffusion
16:25						17:15-17:30 - Tijana Tomasevic-Ilic Langmuir-Blodgett films from liquid phase exfoliated 2D materials	17:15-17:30 - Stefan Kain Production and characterization of novel bio-based filaments with natural fibrous fillers for FDM (Fused Deposition Modeling) 3D printing	17:15-17:30 - Georg Wieland Aspects of gauge theories with many massive flavors	17:15-17:30 - Julia Freund Quantification of entanglement from quantum dots
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17:30-19:00	17:30-19:00 - Poster Session including Reception by the Mayor of Leoben								
Erzherzog Johann Auditorium									
19:00-20:30	19:00-20:30 - Public Evening Lecture (in German) by Prof. Hans Joachim Schellnhuber Das Klima, die Freiheit und die Wissenschaft								