








# Central European Condensed Matter Physics Day (CECMD)

Wednesday, September 25, 2024,

at the 73<sup>rd</sup> Annual Meeting of the Austrian Physical Society, Johannes Kepler University Linz

## Program

Time		
8:30		Opening: Central European Condensed Matter Physics Day
9:00		Plenary: <b>Christoph Stampfer</b> (RWTH Aachen), D
9:45		Plenary: <b>Nicola Marzari</b> (EPFL/PSI), CH
10:30		<b>Coffee break</b>
11:00		<b>Karsten Held</b> (TU Vienna), A Dynamical vertex theory of superconductivity in infinite-layer nickelates
11:30		<b>Levente Tapasztó</b> (EK-MFA Budapest), H Tuning the properties of 2D crystals by nanoscale strain and defect engineering
12:00		<b>Viera Skákalová</b> (Slovak Acad. Sci. Bratislava), SK Novel Two-Dimensional Materials Synthesized in Graphene Oxide Under Ambient Conditions: Atomic Structure and Properties
12:30		<b>Lunch</b>
13:30		<b>Andrej Zorko</b> (Jožef Stefan Inst. Ljubljana), SLO Quantum phases of rare-earth heptatantalates
14:00		<b>Ana Akrap</b> (Univ. of Zagreb), HR Magneto-optical insights into quantum materials
14:30		<b>Jakub Zelezny</b> (Czech Acad. Sci. Prague), CZ Non-Relativistic Spin Currents and Torques in Antiferromagnets
15:00		<b>Tomáš Bzdušek</b> (Univ. of Zurich), CH Unraveling the spectra and topological phases in hyperbolic lattices
15:30		<b>Grab a coffee</b>

15:45		<p><b>Short presentations of infrastructures</b></p> <ul style="list-style-type: none"> <li>❖ Michal Urbánek: CEITEC Nano, Brno, CZ</li> <li>❖ Silke Bühler-Paschen: Vienna Microkelvin Laboratory, Technical Univ. of Vienna, A</li> <li>❖ Peter Samuely: Centre of Low Temperature Physics, Slovak Academy of Sciences and Univ. Košice, SK</li> <li>❖ Milan Sýkora: Condensed Matter Physics Research Infrastructure in the Bratislava Region, SK</li> <li>❖ Zdravko Siketić: Ion Beam Center, Inst. Ruđer Bošković, Zagreb, HR</li> <li>❖ Michel Kenzelmann: Paul Scherrer Inst., Villigen, CH</li> <li>❖ Damir Aumiler: CALT - Centre for Advanced Laser Techniques, Inst. of Physics, Zagreb, HR</li> <li>❖ Peter Dombi: ELI ALPS Laser Center for Attosecond Experiments, Szeged, H</li> <li>❖ Shirly Espinoza Herrera: ELI Beamlines High-Power Laser Facility, Dolní Břežany, CZ</li> </ul>
17:30		<p><b>Panel discussion</b> on the present and future of science education in the realm of new technologies and potential Central-European synergies.</p> <p>Panelists: Harald Urban, Natasha Kathleen Ruzic, Santa Pile, David Kolman.</p>
18:30		End of CECMD
19:00		<b>Conference Dinner, Promenadenhof Linz</b>

## CECMD program committee

**Austria:** Silke Buehler-Paschen (TU Vienna), Wolfgang Lang (U. Vienna)

**Croatia:** Ana Akrap (U. Zagreb), Denis Sunko, (U. Zagreb)

**Czechia:** Michal Urbánek (CEITEC Brno), Jan Kunes (U. Brno)

**Hungary:** Béla Pécz, (Hungarian Research Network Budapest), Szabolcs Csonka, (U. of Technology and Economics Budapest)

**Slovakia:** Milan Sýkora (U. Bratislava), Peter Samuely (Center for Low Temperature Physics Košice)

**Slovenia:** Dragan Mihailović (Jožef Stefan Inst. Ljubljana)

**Switzerland:** Johan Chang (U. Zurich), Henrik Rønnow (EPFL Lausanne)

**Head of the Mid-EU Initiative:** Neven Barišić (TU Vienna & U. Zagreb)

### ÖPG organization committee:

**Local organizers:** Andreas Schell (JKU Linz), Gunther Springholz (JKU Linz)

**ÖPG President:** Christian Teichert

**ÖPG Head of the Condensed Matter Section:** Alberta Bonanni

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Organization: Wolfgang Lang (U. Vienna) & Neven Barišić (TU Vienna & U. Zagreb)