



CMPMEET2022

MAY 23-25, 2022 | MUNICH, GERMANY

**Mercure Hotel Muenchen
Sued Messe Karl-Marx-Ring
87, 81735 München, Germany**

Final Program



ALBEDO MEETINGS

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The background of the page is a complex, abstract geometric pattern composed of numerous overlapping triangles in various shades of red, from light pink to deep crimson. The triangles are arranged in a way that creates a sense of depth and movement, with some pointing towards the center and others towards the corners. The overall effect is a modern, dynamic, and visually striking design.

Final Program

Day-1, May 23, 2022

09:00-09:45		On-Spot Registrations
09:45-10:00		Opening Ceremony by Moderator - Dr. Shiv Singh
Conference Chair: Prof. Mukunda Das, Australian National University, Australia		
Conference Co Chair: Young Pak Lee, Hanyang University, South Korea		
		Plenary Session
10:00-10:40	P	Title: Silicene and its Heirs Guy Le Lay , Aix-Marseille University, France
10:40-11:20	P	Title: Advances in Metamaterial Perfect Absorbers Young Pak Lee , Hanyang University, South Korea
11:20-11:35		Coffee Break
		Keynote Session
11:35-12:05	K	Title: Topologically Stabilized Spin Configurations in Rare-earth based Systems using Polarized Neutron Scattering Amitesh Paul , Guangdong-Technion Israel Institute of Technology (GTIIT), China
12:05-12:35	K	Title: Phase Polymorphism and Catalytic Activity of 2D Materials Hong Seok Kang , Jeonju University, South Korea
12:35-13:05	K	Title: Asymmetry in Size of Ions and Orientational Ordering of Water Molecules in Electric Double Layer Ales Iglic , University of Ljubljana, Slovenia
13:05-13:15		Group Photo
13:15-14:00		Lunch Break
		Invited Session
Session		Ferroelectrics Optical Properties of Solid and Liquid Substances Nanostructures and nanomaterials
Session Chair		Adam Sieradzki, Wrocław University of Science and Technology, Poland
14:00-14:25	I	Title: Searching for Ferroelectric Properties in Hybrid halides Adam Sieradzki , Wrocław University of Science and Technology, Poland
14:25-14:50	I	Title: The Structural Difference between Glasses and Melts Revealed by the Set Theory Michael Ojovan , Imperial College London, UK
14:50-15:15	I	Title: Theory and Experiments on Membranous Nanostructures Veronika Kralj-Iglic , University of Ljubljana, Slovenia
15:15-15:40	I	Title: Resolving the Structural and Electronic Properties of Graphene/Ge(110) Luca Persichetti , Department of Sciences, Roma Tre University, Italy
15:40-16:05	I	Title: Developments in Understanding of Molecular Nanomagnets with various Metallic Cores and topologies Grzegorz Kamieniarz , Mickiewicz University, Poland
16:05-16:20		Coffee Break
16:20-16:45	I	Title: Fully-plastic All-optical Neuromorphic Hardware for Pattern Recognition and Episodic Memory based on Solitonic Waveguides Alessandro Bile , Sapienza University of Rome, Italy
16:45-17:10	I	Title: Biominerals in the Human Brain Kopáni Martin , Comenius University, Slovakia

17:10-17:35	I	Title: Ternary Hybrid of Conjugated Polymers for Enhancing their Individual Optoelectronic Properties Bandar Ali Alasbahi , King Saud University, Saudi Arabia
17:35-18:00	I	Title: Oxygen-containing Yttrium Hydride and Deuteride Thin Films: Synthesis and Characterisation Mārtiņš Zubkins , Institute of Solid State Physics , Latvia
18:00-18:25	I	Title: Friction in Thin Film Lubrication with Textured and Rough Surfaces Denis Mazuyer , École Centrale de Lyon, France

End of Day-1 Program

Day-2, May 24, 2022

		Invited Session
Session		Superconductivity Magnetism & Spintronics
Session Chair		Antonio Leo, University of Salerno, Italy
10:00-10:25	I	Title: The Chameleon Behaviour of Fe(Se,Te) Antonio Leo , University of Salerno , Italy
10:25-10:50	I	Title: Recent Progress of Iron based Superconductor: 1111 and 1144 Shiv Singh , Institute of High Pressure Physics, PAS Poland
10:50-11:15	I	Title: Generation and Conversion of Spin Current in a Quantum Dot-Based Hybrid System Piotr Trocha , Adam Mickiewicz University, Poland
11:15-11:30		Coffee Break
11:30-11:55	I	Title: The Microscopic Yielding of Soft Materials: from Experiments to Catastrophe Theory Domenico Truzzolillo , University of Montpellier, France
11:55-12:20	I	Title: Information Theoretical Approach to Statistical Mechanics and Complex Systems Eun-jin Kim , Coventry University, UK
12:20-12:45	I	Title: The Large-Scale Monte Carlo Computer Experiment Based on the Extended Lee-Kosterlitz Method Grzegorz Musiał , Adam Mickiewicz University, Poland
12:45-13:10	I	Title: Forster Resonance Energy Transfer and Amplified Spontaneous Emission of Binary Hybrids Polymeric Film and Optimized Emission Properties Saif Qaid , King Saud University, Saudi Arabia
13:10-13:55		Lunch Break
Session		Theoretical and Experimental Condensed Matter Physics Graphene and other Carbon Structures
Session Chair		Keivan Esfarjani, University of Virginia, USA
13:55-14:20	I	Title: Anharmonic Phonon Transport at High Temperatures Keivan Esfarjani , University of Virginia, USA
14:20-14:45	I	Title: Quantitative Three-dimensional Imaging of Chemical Short-range Order in Fe-Al alloys Yue Li , Max-Planck-Institut für Eisenforschung GmbH, Germany
14:45-15:10	I	Title: Unification of Physics of Quantum, Atomic and Celestial Worlds Debarata Saha , Independent Research Scientist, India

15:10-15:35	I	Title: Dirac Fermion Metasurfaces in Graphene Junjie Du , East China Normal University, China
15:35-16:00	I	Title: Challenges of Cryogenic Fluid Metering by Coriolis Flowmeter Evgeniia Shavrina , National University of Singapore, Singapore
16:00-16:25	I	Title: Dynamics of a Nonlinear Energy Harvester with Sub-harmonic Responses Grzegorz Litak , Lublin University of Technology, Poland
16:25-16:40		Coffee Break
16:40-17:05	I	Title: Spin-transport in Ge-based Structures Carlo Zucchetti , Politecnico di Milano, Italy
17:05-17:30	I	Title: Intrinsic Noise Spectrum Is Given by both the Hahn-Echo T2 and the Spectral Intensities Properly Derived from Multiple Spin-Echo Decays Susumu SASAKI , Niigata University, Japan
17:30-17:55	I	Title: Propagation and Generation of Electromagnetic Waves in Carbon Nanostructures Sergey Maksimenko , Belarusian State University, Belarus
17:55-18:20	I	Title: To be Confirmed Daniil Evtushinsky , EPFL Lausanne, Switzerland

End of Conference

Virtual Presentations

May 25, 2022 - Beijing Time Zone (GMT+8)

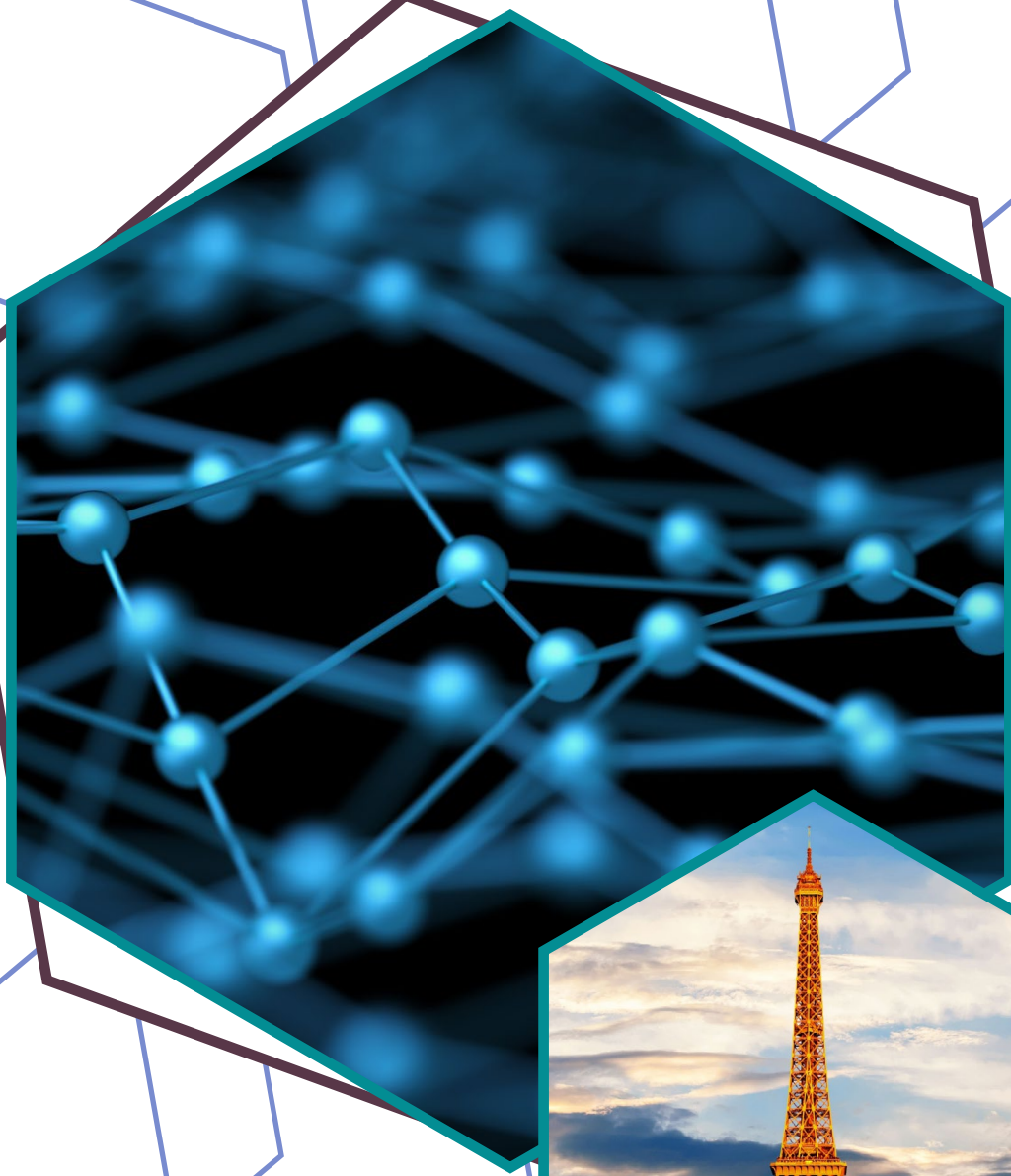
09:45-10:00		Introduction
10:00-10:40	P	Title: Surprises and Puzzles in Superconductivity in Condensed Matter Mukunda P Das , National University, Australia
10:40-11:05	I	Title: Multi-field Coupling in Organic Charge-Transfer Materials for intellisense and actuation Beibei Xu , Zhejiang University, China
11:05-11:30	I	Title: Tuning Topological Orders by a Conical Magnetic Field in the Kitaev Model Wei Chen , Nanjing University, China
11:30-11:55	I	Title: Computational Studies to the Quantum Effects in the Thermal Transport Properties of Ice Kuang Yu , Tsinghua-Berkeley Shenzhen Institute, China
11:55-12:20	I	Title: Weyl Exceptional Rings and Non-Hermitian Absorption Spectroscopy Yong Xu , Tsinghua University, China
12:20-12:45	I	Title: Interfacial Thermal Resistance between Two-Dimensional Materials and their Dielectric Substrate XU Xiangfan , Tongji University, China
12:45-13:10	I	Title: Novel Geometric Properties of Flat Band Systems Jun Won Rhim , Ajou University, Korea
13:10-13:40	K	Title: Defect and Interface Engineering of Two Dimensional Material Zhenhua Ni , Southeast University, China
13:40-14:05	I	Title: Theoretical Design of Superconducting Hydrides with High Tc under High Pressure Defang Duan , Jilin University, China
14:05-14:30	I	Title: Quantum Dynamics of Topological Strings in a Frustrated Ising Antiferromagnet Xue-Feng Zhang , Chongqing University, China

14:30-14:55	I	Title: The Second-Order Phase Transition in the BCS-Bogoliubov Model of Superconductivity and its Operator-Theoretical Proof Shuji Watanabe , Gunma University, Japan
14:55-15:20	I	Title: Enhanced Proximity Effect in Superconducting Nanograins with Fractal Distributions Takashi Uchino , Kobe University, Japan
15:20-15:45	I	Title: Application of Isotopic Composition Studies in Pure and Geoscience Satoshi Irei , National Institute for Minamata Disease, Japan
15:45-16:10	I	Title: Unusual Electron Transport Behaviour in High-Purity Metallic compound Abhishek Pandey , School of Physics, University of the Witwatersrand, South Africa
16:10-16:35	I	Title: Optical Signatures of Dirac Electrons in the Nodal-Line Semimetal ZrSiS under Extreme Conditions Christine Kuntscher , University Augsburg, Germany
16:35-17:00	I	Title: Fully-plastic All-optical Neuromorphic Hardware for Pattern Recognition and Episodic Memory based on Solitonic Waveguides Alessandro Bile , Sapienza University of Rome, Italy

May 26, 2022 - Chicago Time Zone (GMT-5)

08:45-09:00		Introduction
09:00-09:25	I	Title: Magneto-Optical Spectroscopy in Weyl Semimetals Dima Cheskis , Ariel University, Israel
09:25-09:55	K	Title: To be confirmed Dror Malka , Holon Inst. of Technology - HIT, Israel
09:55-10:35	P	Title: Graphene Oxide: New Opportunities for Photonics, Electronics, and Optoelectronics David Moss , Director of the Optical Sciences Centre at Swinburne University of Technology, Australia, Poland
10:35-11:00	I	Title: Anomalous Floquet Topological Insulators based on Unitary Scattering Graphs Romain Fleury , EPFL, Director of Laboratory of Wave Engineering, Switzerland
11:00-11:25	I	Title: Spin relaxation in Cs ₂ CuCl ₄ -xBr _x Rushana Eremina , Kazan Scientific Center of the Russian Academy of Sciences, Russia
11:25-11:50	I	Title: Magneto-Spectroscopy of Topological States on Gradual and Abrupt Interfaces Gauthier Krizman , Johannes Kepler University, Austria
11:50-12:15	I	Title: Non functionalized Nano Particles as Antiviral agents Physical Aspects of the Problem Natalia Rusinchuk , Taras Shevchenko National University of Kyiv, Ukraine
12:15-12:40	I	Title: Unexpected low temperature magnetic transition well inside the spin density wave phase of SmFe _{1-x} MnxAsO compound Gianrico Lamura , CNR-SPIN, Italy
12:40-13:20	P	Title: From the Expanded Maxwell's Equations to the High-Entropy Energy Technology of Triboelectric Nanogenerators Zhong Lin Wang , Georgia Institute of Technology, USA
13:20-14:00	P	Title: Solution of the Millennium Problem on the Navier-Stokes Equations Alexander Ramm , Kansas State University, USA

14:00-14:30	K	Title: Searching for High Temperature Superconductivity: From Mendeleev to Seiberg-Witten via Madelung and Beyond Arkady Kholodenko , Clemson University, USA
14:30-14:55	I	Title: Disorder on the Two-Dimensional Metal-Insulator Transition Martha Yolima Suarez Villagran , University of Houston, USA
14:55-15:20	I	Title: Out-of-Plane Carrier Transport in Two-Dimensional van der Waals Nanostructures Huamin Li , University at Buffalo, USA
15:20-15:45	I	Title: Machine Learning Assisted Optoelectronic Circular Polarimeter Alejandro Kunold , The Metropolitan Autonomous University, Mexico
15:45-16:25	I	Title: Higher-Order Topological Matter Fan Zhang , The University of Texas at Dallas, USA
16:25-17:05	I	Title: Advances in Metamaterial Perfect Absorbers Young Pak Lee , Hanyang University, South Korea
End of Conference		



CMPMEET2023

JUNE 05-07, 2023 | PARIS, FRANCE

2ND INTERNATIONAL MEET ON CONDENSED MATTER PHYSICS

<https://www.albedomeetings.com/2023/cmpmeet>