

Thursday 26.09.2024

9:00 - 12:15 visit of MatFyz (UK)

12:30 Welcome Profs. Vejpravova & Kalbac

12:40 Plenary Prof. Ago: Large-Scale Growth and Integration of High-Quality 2D Materials for "Science of 2.5D Materials"

13:15 Invited Prof. Miyata: Growth, structures, and properties of transition metal chalcogenide nanostructures

13:35 Invited Dr. Malinsky: Ion beam micro-structuring of graphene allotropes for sensors

13:55 Invited Prof. Sofer: Growth of emergent 2D materials (tentative)

14:15 Invited Prof. Matsumoto: Intercalations into graphite and multilayer and bilayer graphene using a vapor-phase method

14:35 Break

14:55 Invited Dr. Otakar Frank: Impact of Defects on Mechanical and Electronic Properties of 2D Materials

15:15 Invited Dr. Pu: Functional optoelectronic devices based on strained monolayers and heterostructures

15:35 Invited Dr. Varade: Proximity Effects in MoS<sub>2</sub> monolayer on Janus 2D magnet CrSBr

15:55 Invited Prof. Machida: Symmetry engineering and subband electronics using van der Waals assembly of transition metal dichalcogenides

16:15 Break

16:35 Junior session (4 talks)

17:15 End of Day 1, tour Heyrovsky institute

Friday 27.9.2024

9:30 Invited Dr. Cervenka: 3D graphene (tentative)

9:50 Invited Prof. Nagashio: 2D layered semiconductors: Challenge & Perspective

10:10 Invited Prof. Yamada-Takamura: Epitaxially-Stabilized Novel 2D Materials on Substrates

10:30 Invited Dr. Cigler: Designing Nanoparticles for Biological Environments

10:50 Invited Dr. Zakutna: Magnetization distribution in core/shell magnetic nanoparticles

11:10 Break

11:20 Prof. Takahashi: Real-space electrochemical imaging of catalytically active sites of two-dimensional materials

11:40 Invited Dr. Klimes: Testing the precision of pseudopotentials and related methods

12:00 Invited Dr. Kocisek: Ionizing Radiation and DNA-Based Digital Data Storage

12:20 Invited Prof. Koshino: Moiré Multilayers — Towards Topological Quasicrystals

12:40 Invited Prof. Matsuda: Optical Physics and Quantum Science using Moiré Excitonic States in van der Waals Heterobilayer

13:00 Closing Profs. Kalbac & Vejpravova

13:10 lunch



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Grant-in-Aid for Transformative Research Areas(A)  
Science of 2.5 Dimensional Materials  
Paradigm Shift of Materials Science Toward Future Social Innovation

