

# 2024

## CEITEC MOTES WEDNESDAY SEMINARS

10.1.2024, 10 AM CET

**Joseph McPeak (Uni Copenhagen, Denmark)**

*EPR on a chip application*

17.1.2024, 10 AM CET

**Alexander Barnes (ETH Zurich, Swiss)**

*Instrumentation for high-field magnetic resonance*

24.1.2024, 10 AM CET

**Michal Kern (Uni Stuttgart, Germany)**

*Phase transitions and behavior in organic semiconductor thin films*

31.1.2024, 10 AM CET

**Igor Roncevic (Uni Oxford, UK)**  
*Electronic structure of metalloporphenes, antiaromatic analogues of graphene*

28.2.2024, 10 AM CET

**Jiri Kaleta (IOCB Prague, Czech Rep.)**

*Light-Triggered Molecular Devices.*

6.3.2024, 10 AM CET

**Maksym Buryi (CAS Prague, Czech Rep.)**

*Thermal plasma synthesis of nanoparticles. Characterization and utilization.*

13.3.2024, 10 AM CET

**Jakub Hruby (NHMFL, USA)**  
*EPR in Lanthanides*

20.3.2024, 10 AM CET

**Nongnuch Artrith (Utrecht University, Netherlands)**

*Machine Learning (ML) for Simulating Complex Energy Materials with Non-Crystalline Structures*

3.4.2024, 10 AM CET

**Andreas Berg (Medical Uni. Vienna, Austria)**

*Magnetic Resonance Imaging*

10.4.2024, 10 AM CET

**Tomáš Homola (MUNI, Brno, Czech Rep.)**

*Advanced industrial plasma sources for rapid treatment of nano and bio surfaces*

17.4.2024, 10 AM CET

**Laurent Ranno (Institute Neel, CNRS Grenoble, France)**

*Spin texture manipulation in ultrathin films from cobalt to garnets*

24.4.2024, 2 PM CET

**Mantas Šimėnas (Uni Vilnius, Lithuania)**

*EPR Oximetry in Cancer Patients using OxyChip*

15.5.2024, 10 AM CET

**Frederic Teppe (Uni Montpellier, France)**

*Terahertz magnetospectroscopy of Dirac fermions in HgTe quantum wells*

22.5.2024 at 10AM

**Guinevere Mathies (Uni Konstanz, Germany)**

*A new approach to enhancing the sensitivity of solid-state NMR*

19.6.2024, 10 AM CET

**Petr Mazur (UCT Prague, Czech Rep.)**

*R&D of flow batteries at UCT Prague: from molecular synthesis towards kW-scale battery systems*

18.9.2024, 10 AM CET

**Rodolphe Clérac (CNRS Bordeaux, France)**

*A scientific adventure from the fine control of the magnetic interactions toward metal-organic magnets at room temperature*

25.9.2024, 10 AM CET

**Benoît H. Lessard (Uni. Ottawa, Canada)**

*Phthalocyanines as next-generation semiconductors*

2.10.2024 at 3PM

**Alexej I. Smirnov (North Carolina State University, USA)**

*Photonic Band Gap Resonators for mm-Wave EPR of Microliter-volume Liquid Aqueous Samples*

23.10.2024, 4 PM CET

**Brad D. Price (UC Santa Barbara, USA)**

*Studies of Protein Functional Dynamics via Rapid-Scan EPR at High Field*

30.10.2024, 10 AM CET

**Mark Murrie (Uni. Glasgow, UK)**

*Fun with lanthanide ligand fields*

20.11.2024, 10 AM CET

**Jan Henrik Ardenkjær-Larsen (TU Denmark)**

*Dissolution DNP*

27.11.2024, 10 AM CET

**Subhadeep Datta (IACS Kolkata, India)**

*Magnon-phonon coupling in layered antiferromagnetic heterostructures.*

4.12.2024, 3 PM CET

**Herre van der Zant (TU Delft, Netherlands)**

*Spin switching in single-molecule junctions*

11.12.2024, 1 PM CET

**Athanassios K. Boudalis (CNRS, Strasbourg)**

*THz spectroscopy on spin triangles to probe spin-electric transitions*