

EMP User Meeting 2021 – Agenda

Monday, March 29th 2021

All sessions are hosted via Zoom:

- Meeting-ID: 898 3898 6931
- Password: EMP2021
- Or follow this [direct link](#).

All times are given in Central European Summer Time (Brussels, Paris, Berlin, Rom). Please Note: Summer time starts on the last Sunday of march.

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| 10:00 – 10:10 CEST | Welcome session (Peter Skyba) |
| 10:10 – 11:10 | Session 1 (Chair: Silke Bühler-Paschen) Speakers: |
| 10:10 – 10:30 | Alexey Fedorchenko (B.I. Verkin Institute, NASU, Kharkiv, Ukraine): <i>Magnetic behaviour of cobalt(II)-containing layered double hydroxides</i> |
| 10:30 – 10:50 | Daniel Staško (Charles University, Prague, Czech Republic): <i>Low temperature investigation of the CeCuAl₃ intermetallic compound at extreme pressures</i> |
| 10:50 – 11:10 | Loredana Gastaldo (Heidelberg University, Heidelberg, Germany): <i>Study of the electron capture process in Be-7</i> |
| 11:10 – 11:20 | Short Break |
| 11:20 – 11:10 | Session 2 (Chair: Dominik Zumbühl) Speakers: |
| 11:20 – 11:40 | Sergey Kubatkin (Chalmers University, Sweden): <i>Use of microkelvin platform: from quantum computation to novel phases in 2D material</i> |
| 11:40 – 12:00 | Dominic Lennon (Oxford): <i>Machine learning enables automatic tuning of quantum devices faster than human experts.</i> |
| 12:00 – 12:20 | Asser Elsayed (IMEC Belgium): <i>Mobility limiting factors in Si-MOSFETs fabricated with a full CMOS process</i> |
| 12:20 – 12:40 | General discussion, comments, and questions |
| 12:40 – 14:00 | Lunch Break |



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| 14:00 – 15:00 | Session 3 (Chair: John Saunders) Speakers: 14:00 – 14:20 Femke Bangma (Nijmegen High Field lab/Radboud University, Netherland): <i>Hyperfine interactions at ultra-low temperatures: their role in PrOs₄Sb₁₂</i> 14:20 – 14:40 Manuel Brando (MPI for Chemical Physics of Solids, Dresden, Germany): <i>Electrical transport measurements to investigate unconventional superconductivity in YbRh₂Si₂</i> 14:40 – 15:00 Romain Danneau (Karlsruhe Institute of Technology, Karlsruhe, Germany): <i>Critical current fluctuations in graphene Josephson Junctions</i> |
| 15:00 – 15:10 | Short Break |
| 15:10 – 16:10 | Session 4 (Chair: Richard Haley) Speakers: 15:10 – 15:30 Carlos Uriarte (Universidad Rey Juan Carlos, Madrid, Spain): <i>Design of a levitation experiment in superfluid ³He.</i> 15:30 – 15:50 Erwin Schuberth (TU Munich, Germany): <i>Magnetic Susceptibility Measurements on YbRh₂Si₂ at Ultralow Temperatures: A Status Report</i> 15:50 – 16:10 Eddy Collin (CNRS, Grenoble, France): <i>A macroscopic object in its quantum ground state of motion</i> |
| 16:10 – 17:00 | General discussion, comments, and questions |
| 17:00 – 18:00 | EMP General Assembly (Partner's representatives only) |