



Program

Tuesday, March 16, 2021

9.30-9.40 **Welcome from the organizers**

9.40-10.00 **Introduction to PETER Project**; Joris van Slageren (Universität Stuttgart)

10.00-10.35 **Advanced detection schemes and applications for broad-band THz electron paramagnetic resonance spectroscopy**; Alexander Schnegg, (HZB)

10.35-10.55 **Quasi optic ideas and components**; Richard Wylde (Thomas Keating Ltd)

10.55-11.15 BREAK

11.15-12.00 **High-field THz spectroscopy of low-dimensional spin systems**; Sergei Zvyagin (HZDR Dresden)

12.00-12.20 THz **Electron Paramagnetic Resonance in Molecular Nanomagnetism**; Joris van Slageren (Universität Stuttgart)

12.20-12.40 **Modelling of PE EPR**; Martin Hrtoň (BUT/CEITEC)

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9.30-10.05 **Ultrafast spintronics with terahertz radiation**; Tobias Kampfrath (Fritz Haber Institute)

10.05-10.25 **Contactless THz method for quality assessment of large area graphene** Dominik Bloos (Universität Stuttgart)

10.25-10.45 **Strong Coupling in Plasmonics**; Tomáš Šikola (BUT/CEITEC)

10.45-11.05 BREAK

11.05-11.40 **Hybrid plasmonics and switchable conducting polymer nanoantennas**, Magnus Jonsson (Linköping University)

11.40-12.00 **Plasmonic Metasurface Resonators to Enhance Terahertz Magnetic Fields for High Frequency Electron Paramagnetic Resonance**; Lorenzo Tesi (Universität Stuttgart)

12.00-12.20 **Tunable metasurfaces**; Filip Ligmajer (BUT/CEITEC)

Thursday, March 18, 2021

9.30-10.05 **Quantum magnetometry with NV centers in diamond** Prof. Christian Degen, (ETH)

10.05-10.25 **Terahertz nanoimaging of chalcogenide phase-change materials**; Shu Chen (CIC Nanogune)

10.25-10.45 **Probes fabrication for ultrasensitive THz nanoscopy**; Elizaveta Nikulina (CIC Nanogune)

10.45-11.05 BREAK

11.05-11.40 **Cryogenic Terahertz nano-spectroscopy and imaging**. Alexander A. Govyadinov Neaspec GmbH

11.40-12.00 **The hardware behind PETER**; Alisa Leavesley, (Thomas Keating Ltd)

12.00-12.20 **Scanning Probe Microscopy in Plasmon Enhanced Terahertz Electron Paramagnetic Resonance Spectroscopy**; Martin Konecny, (Universität Stuttgart)

12.20-12.30 **Closing**