

Session Program

Oct 20 - 22, 2025



5th Science Workshop of the Program MML

Parallel: Materials (RT2)

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal
Englerstraße 11, 76131 Karlsruhe

Tue, October 21

11:00 AM

Parallel: Materials (RT2)

Session |

Location: Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:00 - 11:15

Dynamic control of X-ray core-exciton resonances by Coulomb screening in photoexcited semiconductors

Speaker

Thomas Rossi

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:15 - 11:30

Orbital-overlap-driven hybridization in 3d-transition metal perovskite oxides LaMO₃ (M = Ti-Ni) and La₂CuO₄

Speaker

Katarzyna Siewierska

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:30 - 11:45

X-ray spectroscopy of UO₂ and the QUASY project

Speaker

Mary Blankenship

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:45 - 12:00

Pulsed Laser Deposition of multiferroic structures

Speakers

Berkin Nergis, Söndes Bauer

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

12:00 - 12:15

NN - DESY 1

Speaker

Lydia Bachmann

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

12:15 - 12:30

NN - DESY 2

Speaker

Thomas Keller

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

12:30 - 13:30

Lunch Break

13:30 - 13:45

Multilength scale investigation of the Perovskite-Bornmillerite topotactic phase transition in LaSrMnO₃ thin films**Speaker**

Chenyang Yin

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

13:45 - 14:00

QENS Study of the Interface Dynamics of Wet Iron Oxide Nanoparticles**Speaker**

Matei Pascariu

Location

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14:00 - 14:15

Microstructure mapping with a white synchrotron radiation beam**Speaker**

Guilherme Abreu Faria

Location

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14:15 - 14:30

Swift heavy ion irradiation effects on tailored nanostructures**Speaker**

Ina Schubert

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

14:30 - 14:45

High-field superconductivity in UTe₂**Speaker**

Toni Helm

Location

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14:45 - 15:00

A high-performance all-silicon photodetector enabling telecom-wavelength detection at room temperature**Speaker**

Yonder Berencen

Location

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3:00 PM