

Thin Films Division Fachverband Dünne Schichten (DS)

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Overview of Invited Talks and Sessions

(Lecture halls SCH A 315 and SCH A 316; Poster P3)

Gaede Prize Talk

PRV II Wed 13:15–13:45 HSZ 01 **Towards chemical and optical band structure engineering in molecular-based heterostructures** — ●BENJAMIN STADTMUELLER

Invited Talks

DS 5.1 Tue 9:30–10:00 SCH A 316 ***Operando* infrared studies of confined water and protons in MXene** — ●MAILIS LOUNASVUORI

DS 9.1 Wed 9:30–10:00 SCH A 316 **Flüssigphasen-Elektrochemie im Ultrahochvakuum unter XPS-Kontrolle** — ●FRANK ENDRES

DS 13.1 Thu 9:30–10:00 SCH A 316 **Towards Catalytic Applications of Infrared Laser Polarimetry** — ●ANDREAS FURCHNER, KARSTEN HINRICH

DS 15.1 Thu 11:15–11:45 SCH A 316 **In-Situ Optical Investigation of Electrochemically Induced Conformational Changes at Solid Liquid Interfaces: A Source of new Electronic States** — ●CHRISTOPH COBET

DS 17.1 Thu 16:15–16:45 SCH A 316 **In-situ optical spectroscopy on electrochemical interfaces: From OER electrocatalysts to "smart" electro-switchable interfaces** — ●MARTIN RABE

DS 17.2 Thu 16:45–17:15 SCH A 316 **The physics of low symmetry semiconductors: Gallium oxide for the future of green energy as example** — ●MATHIAS SCHUBERT

DS 17.3 Thu 17:15–17:45 SCH A 316 **Spectroscopic ellipsometry studies of optical constants in highly excited semiconductors** — ●STEFAN ZOLLNER

Invited Talks of the joint Symposium SKM Dissertation Prize 2023 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1 Mon 9:30–10:00 HSZ 04 **Diffusion of antibodies in solution: from individual proteins to phase separation domains** — ●ANITA GIRELLI

SYSD 1.2 Mon 10:00–10:30 HSZ 04 **Intermediate Filament Mechanics Across Scales** — ●ANNA V. SCHEPERS

SYSD 1.3 Mon 10:30–11:00 HSZ 04 **Ultrafast Probing and Coherent Vibrational Control of a Surface Structural Phase Transition** — ●JAN GERRIT HORSTMANN

SYSD 1.4 Mon 11:00–11:30 HSZ 04 **Electro-active metasurfaces employing metal-to-insulator phase transitions** — ●JULIAN KARST

SYSD 1.5 Mon 11:30–12:00 HSZ 04 **The role of unconventional symmetries in the dynamics of many-body systems** — ●PABLO SALA

Invited Talks of the joint Symposium Ultrafast Excitation Pathways of Quantum Materials (SYUE)

See SYUE for the full program of the symposium.

SYUE 1.1	Wed	9:30–10:00	HSZ 01	Dynamics and control in quantum materials using multi-terahertz spectroscopy — ●RICHARD AVERITT
SYUE 1.2	Wed	10:00–10:30	HSZ 01	Accessing the nonthermal phonon populations in 2D materials with femtosecond electron diffuse scattering — ●HÉLÈNE SEILER
SYUE 1.3	Wed	10:30–11:00	HSZ 01	Exciting potentials – Exploring the realms of ultrafast phase transitions — ●LAURENZ RETTIG
SYUE 1.4	Wed	11:15–11:45	HSZ 01	Sub-cycle multidimensional spectroscopy of strongly correlated materials — ●OLGA SMIRNOVA
SYUE 1.5	Wed	11:45–12:15	HSZ 01	Witnessing many-body entanglement in light-driven quantum materials — ●MATTEO MITRANO
SYUE 1.6	Wed	12:15–12:45	HSZ 01	Optical responses of photoexcited materials: from parametric amplification to photoinduced superconductivity — ●EUGENE DEMLER

Invited Talks of the joint Symposium Physics of van der Waals 2D Heterostructures (SYHS)

See SYHS for the full program of the symposium.

SYHS 1.1	Fri	9:30–10:00	HSZ 01	Novel moiré excitons and ultrafast optical dynamics in van der Waals 2D heterostructures — ●STEVEN G. LOUIE
SYHS 1.2	Fri	10:00–10:30	HSZ 01	Interaction induced magnetism in 2D semiconductor moiré superlattices — ●XIAODONG XU
SYHS 1.3	Fri	10:30–11:00	HSZ 01	Ions in tight places: intercalation and transport of ions in van der Waals heterostructures — ●IRINA GRIGORIEVA
SYHS 1.4	Fri	11:15–11:45	HSZ 01	Spin-orbit proximity in van der Waals heterostructures — ●FELIX CASANOVA
SYHS 1.5	Fri	11:45–12:15	HSZ 01	Plethora of many-body ground states in magic angle twisted bilayer graphene — ●DMITRI EFETOV

Sessions

DS 1.1–1.6	Mon	9:30–11:00	SCH A 316	2D Materials and their Heterostructures I: Graphene
DS 2.1–2.5	Mon	11:30–12:45	SCH A 316	2D Materials and their Heterostructures II: h-BN and WSe ₂
DS 3.1–3.5	Mon	11:30–12:45	SCH A 315	Organic Thin Films, Organic-Inorganic Interfaces (joint session DS/CPP)
DS 4.1–4.6	Mon	15:30–17:00	SCH A 316	Thin Film Properties I
DS 5.1–5.4	Tue	9:30–10:45	SCH A 316	2D Materials and their Heterostructures III
DS 6.1–6.4	Tue	10:00–11:00	SCH A 315	Thin Film Properties II (joint session DS/KFM)
DS 7.1–7.5	Tue	11:15–12:30	SCH A 316	2D Materials and their Heterostructures IV
DS 8.1–8.5	Tue	11:30–12:45	SCH A 315	Thin Film Properties III
DS 9.1–9.3	Wed	9:30–10:30	SCH A 316	Layer Properties I
DS 10.1–10.5	Wed	11:00–12:15	SCH A 316	Layer Properties II
DS 11.1–11.5	Wed	11:00–12:15	SCH A 315	Thin Film Application
DS 12.1–12.57	Wed	17:00–19:00	P3	Poster
DS 13.1–13.5	Thu	9:30–11:00	SCH A 316	Optical Analysis of Thin Films I
DS 14.1–14.7	Thu	9:30–11:15	SCH A 315	Thin Oxides and Oxide Layers
DS 15.1–15.5	Thu	11:15–12:45	SCH A 316	Optical Analysis of Thin Films II
DS 16.1–16.6	Thu	11:30–13:00	SCH A 315	Thermoelectric and Phase Change Materials; Layer Deposition
DS 17.1–17.3	Thu	16:15–17:45	SCH A 316	Optical Analysis of Thin Films III
DS 18	Thu	18:00–19:00	SCH A 315	Members' Assembly

Members' Assembly of the Thin Films Division

Thursday 18:00–19:00 SCH A 316