Friedrich-Alexander-Universität
Technische Fakultät

Seminar
Thermophysikalische Eigenschaften / Thermophysical Properties

– Winter Term 2025/2026 –

14th October 2025	**Filip Vranjes** (Master thesis) *Dropwise Condensation Heat Transfer for Fluids with Low Surface Tension*
21st October 2025	**Sarah Gugat** (Bachelor thesis) *Determination of Particle Diffusivities in Bimodal and Trimodal Dispersions of Isotropic Nanoparticles by Dynamic Light Scattering*
28th October 2025	**Pedro Santiago Martinez Gonzalez** (Master thesis) *Evaluation of Line Broadening Effects for an Accurate Determination of Viscosity and Interfacial Tension by Surface Light Scattering*
4th November 2025	**Sukrati Gupta** (Master thesis) *Determination of Mutual Diffusion Coefficients and Solubilities in Blowing-Agent-Loaded Polypropylene Melts by Dynamic Light Scattering and Raman Spectroscopy*
11th November 2025	**Muhammad Hamza Khan** (Master thesis) *Solubility of Hydrogen in Liquid Organic Hydrogen Carriers (LOHCs) Based on γ-Butyrolactone and 1,4-Butanediol Using the Isochoric Saturation Method and Raman Spectroscopy*
18th November 2025	**Yang Xie** (Master thesis) *Viscosity and Interfacial Tension of Polyvalent Alcohols and Related Derivatives in the Presence of Dissolved Hydrogen by Surface Light Scattering and the Pendant-Drop Method*
20th November 2025	within the CBI Colloquium, 4.15 p.m., KS I in Cauerstraße 4 **Prof. Dr. J. P. Martin Trusler** (Imperial College London) *Title to be announced*
25th November 2025	**Ashish Prem Kumar** (Master thesis) *Solubilities of Blowing Agents in Polymers for Foaming Processes by Conventional and Optical Methods*

Institute of Advanced Optical Technologies – Thermophysical Properties (AOT-TP)
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2nd December 2025	**Julius Kühl** *Heat Transfer during Condensation of the Zeotropic Mixtures of Propane and n-Pentane on Horizontal Single Tubes and in Tube Bundles*
9th December 2025	**Muhammad Junaid Akhtar** (Master thesis) *Interfacial Tension of Liquid Organic Hydrogen Carriers Based on γ-Butyrolactone and 1,4-Butanediol in the Presence of Hydrogen by Using the Pendant-Drop Method*
16th December 2025	**Yongzhen Sun** *Viscosity and Interfacial Tension of Liquid Organic Hydrogen Carriers by Optical and Conventional Techniques*
13th January 2026	**Ziwen Zhai** *Interfacial Tension and Viscosity of Binary Mixtures of n-Alkanes or 1-Alcohols with Carbon Dioxide by Surface Light Scattering*
20th January 2026	**Johannes Mödl** (Master thesis) *Liquid Viscosity of Binary Mixtures Consisting of Hydrocarbons with Dissolved Gases by Vibrating-Wire Viscometry*
27th January 2026	**Zhi Yan Lim** (Bachelor thesis) *Modeling Heat Transfer Coefficients for Dropwise Condensation of Low-Surface-Tension Fluids*
3rd February 2026	**Presentations within the Seminar "Thermophysical Properties of Working Materials in Energy Technology"**
10th February 2026	**Chathura Hewa Kankanamge** *Diffusivities in Electrolytes by Dynamic Light Scattering and Molecular Dynamics Simulations*

Time: Tuesday at 4:00 p.m.
Place: AOT lecture room, Paul-Gordan-Straße 8, 91052 Erlangen

Erlangen, October 7, 2025
Dr.-Ing. Michael Rausch
Prof. Dr.-Ing. habil. Andreas Paul Fröba

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