# Participants

| | Name | Title of the talk |
|---|---|---|
| 1 | Abukaev, Ainur | PyGID: A Bridge Between Detector Data and Scientific Analysis |
| 2 | Alves de Lima, Henrique | The Ehrlich-Schwöbel barrier and its effects on thin film morphologies |
| 3 | Banks, Hadra | From adsorption to crystallization of globular proteins |
| 4 | Born, Larissa | Estimating Optical Spectra of Organic Semiconductors Molecules using the Nuclear Ensemble Method |
| 5 | Carter, Ross | Structural Changes in YBCO Films Irradiated with Nanofocused He+ Ion Beam |
| 6 | Gerlach, Alexander | Thoughts on the critical role of our IT infrastructure for successful research projects today and tomorrow |
| 7 | Hinderhofer, Alexander | Machine Learning for Surface Scattering |
| 8 | Hylinski, Maik | Generative methods in GIWAXS training data simulation |
| 9 | Kneschaurek, Ekaterina | GIWAXS data processing: connecting ML tools and data analysis |
| 10 | Lapkin, Dmitry | Gradient brick road to high-throughput studies of mixed organic thin films |
| 11 | Mauser, Hans | Influence of External Conditions and Material Properties on Light-Induced Phase Segregation in Mixed Lead-Halide Perovskites |
| 12 | Melis, Gianfranco | Preparation of Plasmonic Au Nanostructures for Transmission Electron Microscopy Investigations (M.Sc. thesis) |
| 13 | Munteanu, Valentin | Machine Learning for X-ray and Neutron Reflectometry |
| 14 | Oettel, Martin | Thin film growth: Island formation on weak substrates |
| 15 | Prandl, Fabian | Simulation of XPCS and TTCs |
| 16 | Puritscher, Moritz | XPCS of Ferritin-Protein systems |
| 17 | Pylypenko, Anton | Thin films of π-conjugated chalcogenadiazole: growth, structure and optical properties |
| 18 | Retzbach, Sebastian | Protein XPCS and why beam influence might not always be a problem |
| 19 | Romodin, Mikhail | ML approaches to GIWAXS indexing |
| 20 | Scheffczyk, Niels | How to fabricate perovskite thin films and monitor the entire process |

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| 21 | Schreiber, Frank | Introduction |
| 22 | Schwartzkopff, Sebastian | Understanding Mixed Halide Perovskite Phase Separation With Monte Carlo Simulations |
| 23 | Senft, Max | Specific vs. non-specific protein interactions and protein crystallization |
| 24 | Starostin, Vladimir | Probabilistic machine learning for inverse problems in scattering physics |
| 25 | Surfaro, Furio | Ion-Activated Patchy Particle Model: Bridging Effective Single-Component Approaches and Density Functional Theory |
| 26 | Unger, Freddy | Introduction to XPCS and Two-Time Correlation functions (TTCs) |
| 27 | Völter, Constantin | ML based peak identification in GIWAXS |
| 28 | Zaluzhnyy, Ivan | Properties and applications of lead halide perovskites |
| 29 | Zimmermann, Paul | Comparative Analysis of Spin-Coating Techniques for Stable FAPbI3 Perovskites |

# Scientific Program

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| **Mon** 17.2.25 | | | | | | | | | | | | **Welcome and Introduction** *Chair: Hans Mauser* | | | | | |
| | | | | | | | | | | | 18.30-19.30 | 30 min | 30 min | 20 min | 20 min | 20 min | 20 min |
| | | | | | | | | | | | Dinner | Frank (Intro) | Freddy | Fabian | | | |
| **Tue** 18.2.25 | | **Proteins** *Chair: Maik Hylinski* | | | | | | | | | | **Thin Films I: OMBD** *Chair: Fabian Prandl* | | | | | |
| | Breakfast | 30 min | 20 min | 20 min | Coffee break | 20 min | 20 min | 20 min | 20 min | | 18.30-19.30 | 30 min | 20 min | 20 min | 20 min | 20 min | 20 min |
| | | Fajun / Frank (intro) | Max | Hadra | | Furio | SebastianR | Moritz | Christian / Frank | | Dinner | Dima (intro) | Ainur | Gianfranco | Anton | | |
| **Wed** 19.2.25 | | **Machine Learning** *Chair: Ross Carter* | | | | | | | | | | **Thin Films II: Simulations and Experiments** *Chair: Gianfranco Melis* | | | | | |
| | Breakfast | 30 min | 30 min | 20 min | Coffee break | 20 min | 20 min | 20 min | 20 min | | 18.30-19.30 | 30 min | 20 min | 20 min | 30 min | | |
| | | Alex H (intro) | Vladimir | Valentin | | Ekaterina | Constantin | Maik | Mikhail | | Dinner | Martin (intro) | Henrique | Larissa | Alex G | | |
| **Thu** 20.2.25 | | **Thin Films III: Perovskites** *Chair: Ainur Abukaev* | | | | | | | | | | *Chair:* Event management team | | | | | |
| | Breakfast | 30 min | 20 min | 20 min | Coffee break | 20 min | 20 min | 20 min | 20 min | | 18.30-19.30 | | | | | | |
| | | Ivan (intro) | Niels | Paul | | SebastianS | Hans | Ross | | | Dinner | Cultural evening | | | | | |