

Symposium Preliminary Programme/ Das vorläufige Programm

Disentangling Complexity

Celebratory symposium to mark the 60th birthday of Prof Matthias Weidemüller

Friday, 30.05.2025

09:00-10:30 Theodor Hänsch – MPI Quantum Optics

Jook Walraven – University of Amsterdam “Atomic Hydrogen - to the source of the source of it”

Andreas Hemmerich – Hamburg University „Tribute to Matthias “

10:30-11:00 coffee break

11:00-12:30 Jianwei Pan – University of Science and Technology of China

Zhensheng Yuan – University of Science and Technology of China

"Microscopic dynamics of a cold-atom lattice gauge theory simulator"

Barry Sanders – University of Calgary "Superposing coherent states for fun and profit"

Vahid Sandoghdar – Max Planck Institute for the Science of Light

"Hybridization of several molecules via a common mode of a microcavity"

12:30-14:00 Lunch

14:00-15:30 Allard Mosk – Utrecht University "Shaping waves and tuning interactions"

Kilian Singer – Kassel University "Reducing the complexity of quantum tokens by using unentangled ensembles of qubits"

Roland Wester – Innsbruck University "Reactive collisions: from fundamental physics to organic chemistry (and back)"

15:30-17:15 coffee break

17:15-18:30 (Selim Jochim)

Rudolf Grimm – Innsbruck University "Mixed Quantum Gases: From Cold Collisions to Many-Body Physics in the Ultracold"

18:30-22:00 Dinner

Symposium Preliminary Programme

Disentangling Complexity

Saturday, 31.05.2025

09:00-10:30 Tilman Esslinger – ETH Zürich "Intertwined entanglement in topological pumps"

Johannes Deiglmayr – Leipzig University "Ultracold Rydberg chemistry"

Giovanni Modugno – University of Florence "From quantum mixtures to dipolar supersolids"

10:30-11:00 coffee break

11:00-12:30 Shannon Whitlock – University of Strasbourg "Complex systems dynamics with Rydberg atoms"

Marcel Mudrich – Kassel University "Interatomic decay processes in quantum fluid clusters"

Juris Ullmanis – Alpine Quantum Technology "Scaling quantum computing with trapped ions"

Selim Jochim

12:30-14:00 Lunch