QLUSTER TRAINING EVENT S3, T3 & T4



SEPTEMBER 16 - 20, 2024 INNSBRUCK, AUSTRIA







Day 1 September 16, 2024 Ágnes-Heller-Haus, Innrain 52a

8:00am	Arrival
8:15am	Welcoming speech and program presentation
8:30am	T4: Introduction and theoretical foundations of Molecular Dynamics by Dr Caraglio
9:25am	Coffee break
9:45am	T4: Molecular Dynamics and Langevin simulations in Soft (active) Matter by Dr Caraglio
10:40am	Q&A/Discussions
10:50am	T4: Beyond "brute force" Molecular Dynamics simulations by Dr Caraglio
11:45am	Lunch
1:00pm	T4: "QuantumOptics.jl" Julia package by Martin Fasser
1:55pm	Q&A/Discussions
2:05pm	T4: "QuantumOptics.jl" Julia package by Martin Fasser
3:00pm	Coffee break
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Day 2 September 17, 2024 Faculty of Chemistry and Pharmacy, Innrain 80

IQOQI CONFERENCE

8:15am Welcome desk

9:00am Eugene Polzik

9:45am Anton Zeilinger

10:30am Coffee break

11:00am Ana Asenjo-Garcia

11:45am Jean Dalibard

12:30pm Lunch break

2:30pm Jelena Vuckovic

3:15pm Wolfgang Ketterle

4:00pm Postersession

Day 3 September 18, 2024 Ágnes-Heller-Haus, Innrain 52a

8:30am	T3: Introduction to ultracold atom many-body physics by Prof Gross
9:15am	Q&A/Discussions
9:45am	Coffee break
10:15am	T3: Quantum optics basics: Internal state (qubit) control by Prof Gross
11:00am	Q&A/Discussions
11:30am	Lunch break
1:00pm	T3: Quantum optics basics: Motion control by Prof Gross
1:45pm	Q&A/Discussions
2:15pm	Coffee break
2:45pm	T3: Rydberg atoms by Prof Gross
3:30pm	Q&A/Discussions

Day 4 September 19, 2024 Ágnes-Heller-Haus, Innrain 52a

8:30am	T3: Ultrasoft Rydberg interactions by Prof Gross
9:15am	Q&A/Discussions
9:45am	Coffee break
10:15am	T3: Rydberg dressing for many-body physics by Prof Gross
11:00am	Q&A/Discussions
11:30am	Lunch break
1:00pm	T4: Quantum many-body non-equilibrium problem in phase space by Prof Schachenmayer
1:55pm	Q&A/Discussions
2:05pm	T4: Quantum many-body non-equilibrium problem in phase space by Prof Schachenmayer
3:00pm	Coffee break
3:20pm	T4: Numerical approaches to quantum many-body non- equilibrium by Prof Schachenmayer
6:00pm	Official dinner at Umbrüggler Alm

Day 5 September 20, 2024 Ágnes-Heller-Haus, Innrain 52a

9:00am	S3: Ethical principles in science by Prof Rebitsch
10:50am	Coffee break
11:10am	S3: Scientific misconduct by Prof Rebitsch
1:00pm	Lunch break
3:00pm	S3: Discrimination in science by Dr Medicus
3:55pm	Q&A/Discussions
4:05pm	S3: Workshop in discrimination in science by Dr Medicus
5:00pm	Closing remarks and farewell