Agenda - CUI Summer School 2024

Day 1 – Monday, 08 July 2024	
09:00 – 12:30	Travel - Arrival
12:30 – 14:00	Lunch
14:00 – 14:45	Opening and welcome game
14:45 – 15:30 – Session 1	
14:45 – 15:05	Nicolas Heimann - Pulse Engineering via Projection of Response Functions
15:05 – 15:25	Gunda Kipp - Cavity electrodynamics of van der Waals heterostructures
15:30 – 16:00	Coffee break
16:00 – 17:30 – Session 2	
16:00 – 16:20	Aarathi Sathi Nair - Studying DNA Nucleotides using pump-probe spectroscopy
16:20 – 16:40	Jessica Harich - Experimental and theoretical insights to the photochemistry of disulfides
16:40 – 17:00	Cheng Luo - High-power Few-cycle MID-IR Pulse Generation for Vibrational Spectroscopy
17:00 – 17:20	Joseph Adelinia - Probing photo-excited K3C60 thin films with an ultrafast on-chip voltmeter
17:30 – 18:00	Poster slam 1
18:00 – 19:30	Dinner
19:30 – 21:30	Poster session 1

Day 2 – Tuesday, 09 July 2024	
07:00 – 09:00	Breakfast
09:00 – 10:30	**Plenary talk** Dr. Kartik Ayyer - Diffractive Imaging Probes of Structural Dynamics at Nanoscale
10:30 – 11:00	Coffee break
11:00 – 12:30	**Plenary talk** Dr. Kartik Ayyer - Diffractive Imaging Probes of Structural Dynamics at Nanoscale
12:30 – 12:40	Group picture
12:45 – 14:00	Lunch
14:00 – 15:30	**Special talk** Elizabeth Harmstorf - An introduction into the world of startups
15:30 – 16:00	Coffee break
16:00 – 17:30 – Session 3	
16:00 – 16:20	Mukhtar Singh - Imaging UV and thermal-energy-induced chemical dynamics of solvated (bio)molecular complex system
16:20 – 16:40	Tamme Wollweber - Incoherent diffractive imaging with spectral dispersion for oxidation-state sensitive structure determination
16:40 – 17:00	Dimitris Triandafillidis - Emergence of order from proteins under nucleation
17:00 – 17:20	Niklas Witt - The rise and downfall of "twitter's room-temperature superconductor" LK-99
17:30 – 18:00	Poster slam 2
18:00 – 19:30	Dinner
19:30 – 21:30	Poster session 2

Day 3 – Wednesday, 10 July 2024	
07:00 – 09:00	Breakfast
09:00 – 10:30	**Plenary talk** Dr. Matthew Eiles - Rydberg atoms and molecules as a platform for quantum science
10:30 – 11:00	Coffee break
11:00 – 12:30	**Plenary talk** Dr. Matthew Eiles - Rydberg atoms and molecules as a platform for quantum science
12:30 – 14:00	Lunch
14:00 – 18:00	Free afternoon
18:00 – 19:30	Dinner
19:30 – 21:30	CUI quiz

Day 4 – Thursday, 11 July 2024	
07:00 – 09:00	Breakfast
09:00 – 10:30	**Plenary talk** Dr. Rebecca Ingle - X-rays for Molecular Spectroscopy and Dynamics
10:30 – 11:00	Coffee break
11:00 – 12:30	**Plenary talk** Dr. Rebecca Ingle - X-rays for Molecular Spectroscopy and Dynamics
12:45 – 14:00	Lunch
14:00 – 15:30	**Special talk** Lisa Kamlade - GENERA Project and GENERA Network
15:30 – 16:00	Coffee break
16:00 – 17:30 – Session 4	
16:00 – 16:20	Lukas Vincent Haas - Laser-induced alignment of macromolecules and nanoparticles
16:20 – 16:40	Giovanni De Vecchi - Optical control of superconductivity probed with ultrafast optical magnetometry
16:40 – 17:00	Donika Imeri - Development of Optically Connected Nuclear Spin Microprocessors
17:00 – 17:20	Daniel Bosworth – Frankenstein molecules: The thing that should not be
17:30 – 18:00	Poster slam 3
18:00 – 19:30	Dinner
19:30 – 21:30	Poster session 3

Day 5 – Friday, 12 July 2024	
07:00 – 09:00	Breakfast
09:00 – 10:30 – Session 5	
09:00 – 09:20	Marty Rogers - Structure and Dynamics of Protein Complexes by Nuclear Magnetic Resonance Spectroscopy
09:20 – 09:40	André Becker - Synthetic dimension-induced pseudo Jahn-Teller effect in one-dimensional confined fermions
09:40 – 10:00	Tatiana Bezriadina - Nonlinear optical response of solids
10:00 – 10:20	Jingxuan He - Cryo-cooled beams of "small" macromolecules
10:30 – 11:00	Coffee break
11:00 – 12:40 – Session 6	
11:00 – 11:20	Prince Prabhu Rajaiah - Dynamics and modulation of SARS-CoV-2 nucleocapsid protein (NC) liquid-liquid phase separation with heparin
11:20 – 11:40	Zeki Zeybek - Simulating Strongly Correlated Phases in One-Dimensional Rydberg Systems
11:40 – 12:00	Scott Hubele - Towards a Potassium Quantum Gas Microscope
12:00 – 12:20	Kalyani Chordiya – Attosecond charge migration in organic molecules
12:20 – 12:40	Benoît Richard - Coaching the World Champions: Tales from the International Physicists Tournament
12:40 – 12:50	Event closing
12:50 – 14:00	Lunch
14:00	Departure