

Programme SIMMposium2025
Friday 24 October, 2025
Hotel van der Valk Nijmegen-Lent

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08.30 - 09.00		Walk-in & reception		
09.00 - 09.30		Opening (IMM Director) and official moment for handing over keys to new director	Plenary room	
09.30 - 10.05		Prof. Gert von Helden, Fritz-Haber-Institut der Max-Planck-Gesellschaft and Extraordinary Professor at Radboud University <i>Hot light on cold bonds: IR spectroscopy of hydrogen-bonded systems near zero Kelvin</i>	Plenary room	Chair: Jonathan Martens
10.05 - 10.25		Dr. Sergii Grytsiuk - Theory of Condensed Matter <i>Non-Trivial Magnetism in the Strongly Correlated Layered Antiferromagnet GdTe3</i>	Plenary room	
10.25 - 11.00		Prof. Andreas Walther - Department of Chemistry, Johannes Gutenberg University Mainz Germany . <i>Hydrogels and Synthetic Cells with a Pinch of Embodied Intelligence</i>	Plenary room	
11.00 - 11.25		Coffee Break	Foyer	Foyer
11.25 - 12.40		Topic related parallel sessions		
	11.25 - 11.40: Round 1	Smart systems Fleur Brinkman - Biomolecular Chemistry <i>Accumulation of cytosolic 5'-nucleotidase 1A</i>	Room 2	Chair: Hans Elemans
		AI and information transfer Andrea Russo - Theory of Condensed Matter <i>Multiscale Structural Complexity of Networks</i>	Room 3	Chair: Jelle Schuurman
		Correlated electron systems Maarten de Dreu - HFML-FELIX <i>Magnetostructural transitions in frustrated halide double perovskites</i>	Room 4	Chair: Nadine Hauptmann
	11.40 - 11.55: Round 2	Smart systems Xufeng Xu - Physical Organic Chemistry <i>Amino acids modulate complex protein systems</i>	Room 2	Chair: Hans Elemans
		AI and information transfer Teun van Wieringen - Molecular Structure and Dynamics <i>A machine learned model for IR spectral prediction</i>	Room 3	Chair: Jelle Schuurman
		Correlated electron systems Joost Aretz - Theory of Condensed Matter <i>From strong to weak correlations in breathing-mode kagome van der Waals materials Nb₃(F,Cl,Br,I)₈</i>	Room 4	Chair: Nadine Hauptmann
	11.55 - 12.10: Round 3	Smart systems Dimitrios Karagrigoriou - Physical Organic Chemistry <i>Amphiphile self-assemblies driving signal transfer and mesoscale positioning in out-of-equilibrium liquid matter systems</i>	Room 2	Chair: Hans Elemans
		AI and information transfer	Room 3	Chair: Jelle Schuurman

		Correlated electron systems Chiara Cocchi - HFML-FELIX <i>Quantum oscillations and superconductivity in the semi-metal PtBi₂</i>	Room 4	Chair: Nadien Hauptmann
12.10 - 12.25: Round 4		Smart systems Stijn Kruf - Biomolecular Chemistry <i>Selective biosynthesis of 3'-sialyllactose and 6'-sialyllactose in glycoengineered HEK293 cells</i>	Room 2	Chair: Hans Elemans
		AI and information transfer	Room 3	Chair: Jelle Schuurman
		Correlated electron systems Thom van Rijswijk - Spectroscopy of Cold Molecules <i>A proposal for a bright and ultracold atomic beam of Li for crossed-beam scattering experiments</i>	Room 4	Chair: Nadine Hauptmann
12.25 - 12.40: Round 5		Smart systems Remi Peters - Systems Chemistry <i>Two Paths, One Goal: Reversible Vesicle Shape Transformations with Light</i>	Room 2	Chair: Hans Elemans
		AI and information transfer Frank de Kleijne - Synthetic Organic Chemistry <i>Studying Reaction Mechanisms Utilizing Exchange NMR: The Glycosylation Reaction</i>	Room 3	Chair: Jelle Schuurman
		Correlated electron systems	Room 4	Chair: Nadine Hauptmann
12.40 - 13.55		Lunch Break	Restaurant	Restaurant
13.55 - 15.10		Topic related parallel sessions		
13.55 -14.10 : Round 1		Modeling of structure and reactivity Lara van Tetering - Molecular Structure and Dynamics <i>Structural characterization of mobility-selected ions with infrared ion spectroscopy</i>	Room 2	Chair: Piero Ferrari Ramirez
		Light matters Lucas van Gerven - Ultrafast Spectroscopy of Correlated Materials <i>Enhancing THz Spin Coupling with Metasurfaces</i>	Room 3	Chair: Peter Kim
		Molecules and materials for sustainability Marlene Sanwouly Yao - Analytical Chemistry & Chemometrics <i>Handheld Spectroscopy for Smart Circular Resource Procurement</i>	Room 4	Chair: Hans Elemans
14.10 -14.25: Round 2		Modeling of structure and reactivity Tom Speelman - Theoretical and Computational Chemistry <i>NMR chemical shielding for solid-state systems using spin-orbit coupled ZORA GIPAW</i>	Room 2	Chair: Piero Ferrari Ramirez
		Light matters Maarten Kwaaitaal - HFML-FELIX <i>Ultrafast all-optical control of ferroelectric polarisation</i>	Room 3	Chair: Peter Kim
		Molecules and materials for sustainability Pascal Deenekamp - Life Science Trace Detection Laboratory <i>Challenges in determining in-field VOC-based biomarkers for poultry disease</i>	Room 4	Chair: Hans Elemans

	14.25 - 14.40: Round 3	Modeling of structure and reactivity Marieke Reijneveld - Physics and Chemistry of Soft Matter <i>Coarsening dynamics and structural properties of magnetorheological networks</i>	Room 2	Chair: Piero Ferrari Ramirez
		Light matters Jasper van Gastel - Applied Materials Science <i>Cool LEDs</i>	Room 3	Chair: Peter Kim
		Molecules and materials for sustainability Habib Moradi - Physics & Chemistry of Soft Matter <i>Microscopic signatures of yielding of 2D colloidal crystals</i>	Room 4	Chair: Hans Elemans
	14.40 -14.55: Round 4	Modeling of structure and reactivity Tom de Vries - Solid State Chemistry <i>Improved link-prediction methods for the discovery of multi-component crystals</i>	Room 2	Chair: Piero Ferrari Ramirez
		Light matters Dinar Khusyainov - Spectroscopy of Solids and Interfaces <i>Nanoimaging of Magnetization Reversal Induced in Ferromagnetic Pt/Co/Pt by Shaped Picosecond Laser-Pulse-Pairs</i>	Room 3	Chair: Peter Kim
		Molecules and materials for sustainability Fateme Gol Pelichi - Analytical Chemistry & Chemometrics <i>From household waste to high-quality plastics: data-driven insights for waste collection and recycling</i>	Room 4	Chair: Hans Elemans
	14.55 - 15.10: Round 5	Modeling of structure and reactivity Roel van de Ven - Theoretical and Computational Chemistry <i>Finding a needle in a needle stack</i>	Room 2	Chair: Piero Ferrari Ramirez
		Light matters Yueyu Lin - Life Science Trace Detection Laboratory <i>Fast gas detection using mid-infrared broadband upconversion spectroscopy</i>	Room 3	Chair: Peter Kim
		Molecules and materials for sustainability Giu Silva Testa - Magnetic Resonance Research Center <i>Magnetic resonance techniques to study dynamics in RFBs</i>	Room 4	Chair: Hans Elemans
15.10 - 15.30		Coffee Break	Foyer	Foyer
15.30 - 15.50		Dr. Daria Galimberti - Theoretical and Computational Chemistry <i>Characterizing the solid-solid phase transitions in organic crystals: the thermosalient "Jumping" 4-DBpFO</i>	Plenary room	Chair: Nadine Hauptmann
15.50 - 16.10		Dr. Kevin Neumann - Systems Chemistry <i>Molecular Haute Cuisine: Choosing the Right Spot, the Right Flavor</i>	Plenary room	
16.10 - 16.45		Dr. Klaas-Jan Tielrooij - Applied Physics department of Eindhoven University of Technology <i>2D materials: electronic, photonic, and thermal applications</i>	Plenary room	
16.45 - 17.00		Wrap up & closing (IMM Director)	Plenary room	Plenary room
17.00 - 18.00		sIMMposium drinks	Foyer	Foyer