

	Wednesday, 27th June	Thursday, 28th June	Friday, 29th June
9:00 – 9:45	Semiclassical computational methods for quantum dynamics with band crossing and uncertainty Shi Jin University of Wisconsin–Madison, USA Shanghai Jiao Tong University, China	Using sparse grid and tensor methods to compute vibrational spectra of molecules Tucker Carrington Chemistry Department, Queen's University, Kingston, Canada	Quantum dynamics methods: from grids to gaussian wavepackets Graham Worth Department of Chemistry, University College London, U.K.
9:45 – 10:30	Low regularity Fourier integrators for nonlinear Schrödinger equations Alexander Ostermann University of Innsbruck, Austria	Numerical methods that conserve or dissipate energy on Riemannian manifolds Brynjulf Owren Norwegian University of Science and Technology (NTNU), Trondheim, Norway	What happens if the potential is complex-valued? Caroline Lasser Technical University of Munich, Germany
10:30 – 11:00	Coffee break	Coffee break	Coffee break
11:00 – 11:30	On quantum perturbation theory and time averaging Fernando Casas Jaume I University, Castellón, Spain	Conservation of energy for various systems of conservation laws. Around Onsager's conjecture. Agnieszka Świerczewska-Gwiazda University of Warsaw, Poland	Compact splitting methods for Schrödinger equation and their consequences Karolina Kropielnicka University of Gdańsk, Poland
11:30 – 12:00	Sharp local error estimation for time-reversible one-step schemes Winfried Auzinger Technische Universität Wien, Austria	Energy preserving methods for nonlinear Schrödinger equations Christophe Besse University of Toulouse, France	Measure valued – strong uniqueness Piotr Gwiazda Polish Academy of Sciences, Warsaw, Poland
12:00 – 12:15	Break	Break	Break
12:15 – 12:45	Non-relativistic limit of the nonlinear Dirac equation and its numerical methods Yongyong Cai Beijing Computational Science Research Center, China	Dynamics of the rotational predissociation of LiH Józef E. Sienkiewicz Gdańsk University of Technology, Poland	Deep learning as optimal control problems Elena Celledoni Norwegian University of Science and Technology (NTNU), Trondheim, Norway
12:45 – 13:15	Modelling, analysis and simulation for degenerate dipolar quantum gas Weizhu Bao Department of Mathematics, National University of Singapore	Rovibrational predissociation dynamics: spectrum and population decay of selected vibrational levels of the KLI molecule Jan Kozicki Gdańsk University of Technology, Poland	Geometric numerical integration of differential equations Reinout Quispel La Trobe University, Melbourne, Australia
13:15 – 14:30	Lunch	Lunch	13:30 – 14:45 Lunch
14:30 – 15:00	Accelerated gradient methods for computing the stationary states of Gross–Pitaevskii Equations Xavier Antoine University of Nancy, France	Convergence analysis of commutator-free quasi-Magnus exponential integrators for non-autonomous linear Schrödinger equations Mechthild Thalhammer University of Innsbruck, Austria	Trip to Historic Gdańsk City Centre
15:00 – 15:30	Computing ground states of spin 2 Bose–Einstein condensates by the normalized gradient flow Qinglin Tang Sichuan University, China	Exponential propagators for the Schrödinger equation with a time-dependent potential Sergio Blanes Polytechnic University of Valencia, Spain	
15:30 – 16:00	Coffee break	Coffee break	
16:00 – 16:30	Elevator Pitch Chunmei Su, Tobias Jaweck, Gulcin M. Muslu, Nikita Kopylov, Agata Gołaszewska, Patryk Jasik, Marek Krośnicki, Emilia Przybyls, Tucker Carrington	The Schrödinger method for the Vlasov–Poisson equation in cosmology Norbert Mauser Wolfgang Pauli Institute, Vienna, Austria	 <div style="display: flex; gap: 10px;"> <div style="border: 1px solid orange; padding: 2px 5px;">45 min</div> <div style="border: 1px solid orange; padding: 2px 5px;">30 min</div> </div>
16:30 – 17:00		Schrödinger equation with time-varying potential: many problems, many approaches Pranav Singh University of Oxford, U.K.	
17:30 – 18:00	Poster Session & Wine Reception		

19:00
Workshop Dinner
Tawerna Orłowska
Orłowska 3, 81-522 Gdynia, Poland



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