


	Monday, 20 <sup>th</sup> March [IM PAN room 403]	Tuesday, 21 <sup>st</sup> March [IM PAN room 321]	Wednesday, 22 <sup>nd</sup> March [IM PAN room 321]
8:30 – 9:00	Coffee and light refreshments	Coffee and light refreshments	Coffee and light refreshments
9:00 – 9:45	The Dirac-Frenkel time-dependent variational principle and its applications Christian Lubich (Tübingen University)	Computational semiclassics [1/2] Caroline Lasser (Technical University of Munich)	Multiscale methods and analysis for the Dirac equation in the nonrelativistic limit regime [1/2] Weizhu Bao (National University of Singapore)
9:45 – 10:00	Break	Break	Break
10:00 – 10:45	Dynamical low-rank approximation Christian Lubich (Tübingen University)	[2/2] Caroline Lasser (Technical University of Munich)	[2/2] Weizhu Bao (National University of Singapore)
10:45 – 11:15	Coffee break	Coffee break	Coffee break
11:15 – 12:00	Time-average symplectic propagators for the Schrödinger equation with time-dependent Hamiltonian Sergio Blanes (Polytechnic University of Valencia)	Shape analysis on Lie groups and Homogeneous manifolds Elena Celledoni (Norwegian University for Science and Technology, Trondheim)	Commutator-free quasi-Magnus exponential integrators combined with operator splitting methods and their areas of application Mechthild Thalhammer (University of Innsbruck)
12:00 – 12:30	An efficient numerical integrator for the neutrino oscillations problem in matter Fernando Casas (Jaume I University, Castellón)	12:00 – 12:45 On the long time stability of travelling wave for the discrete nonlinear Schrödinger equation Erwan Faou (University of Rennes 1)	Adaptive time-splitting FEM discretization of the Schroedinger-Poisson equation Othmar Koch (University of Vienna)
12:30 – 14:30	Lunch	12:45 Lunch	Lunch
14:30 – 15:00	Commutator-free Magnus based methods Karolina Kropielnicka (Polish Academy of Sciences)	 2 x 45 min 45 min 30 min	Adaptive integrators for Schrödinger-type equations Winfried Auzinger (Vienna University of Technology)
15:00 – 15:30	An algebraic theory for higher-order methods in computational quantum mechanics Pranav Singh (University of Oxford)		Eigenvalues of the Schrödinger Equation with Anharmonic Oscillators Hassan Safouhi (University of Alberta)
15:30 – 15:45	Coffee break		Coffee break
15:45 – 16:15	Stabilizing effect of large average initial velocity in forced dissipative PDEs invariant with respect to Galilean transformations Piotr Zgliczyński (Jagiellonian University, Kraków)		Recent advances in the derivation of effective dynamics of many boson systems Marcin Napiórkowski (University of Warsaw)
16:15 – 17:00	Long-time behaviour of numerical integrators for charged particle dynamics Ernst Hairer (University of Geneva)		It takes a wave packet to catch a wave packet Arieh Iserles (University of Cambridge)
19:00	Workshop Dinner		