

Workshop on
“Conference: Harmonic Analysis and Partial Differential Equations”

May 29 - June 2, 2023

organized by
Sebastian Herr, Angkana Rüland, Christoph Thiele

• Monday, May 29

08:30 - 09:00	<i>Self Registration</i>
09:00 - 09:40	Jean-Marc Delort Norm inflation for solutions of semi-linear one dimensional Klein-Gordon equations
09:50 - 10:30	Tadahiro Oh Paracontrolled approach to singular stochastic wave equations
10:30 - 11:00	<i>Coffee Break</i>
11:00 - 11:40	Xian Liao Madelung Transform for the one-dimensional Gross-Pitaevskii Equation
11:40 - 14:00	<i>Lunch break</i>
14:00 - 14:40	Mikko Salo Instability mechanisms in inverse problems
14:50 - 15:30	Nikolay Tzvetkov Quasi-invariant measures for NLS
15:30 - 16:00	<i>Coffee Break</i>
16:00 - 16:40	Christian Zillinger On resonances in dissipative magnetohydrodynamics
16:50 - 17:30	Pierre Raphaël On blow up profiles and their stability

• **Tuesday, May 30**

09:00 - 09:40	Pekka Koskela Conformal invariance of Besov spaces
09:50 - 10:30	Roland Donninger Optimal blowup stability for wave maps
10:30 - 11:00	<i>Coffee Break and Group Photo</i>
11:00 - 11:40	Franz Gmeineder Old and new in L^1 -estimates for differential operators
11:40 - 14:00	<i>Lunch break</i>
14:00 - 14:40	Monica Visan Recent progress on completely integrable equations
14:50 - 15:30	Tristan Buckmaster Singularities in fluid: Self-similar analysis, computer assisted proofs and neural networks
15:30 - 16:00	<i>Coffee break</i>
16:00 - 16:40	Björn Bringmann Invariant Gibbs measures for $(1 + 1)$ -dimensional wave maps into Lie groups
16:50 - 17:30	Yi Zhang Stability of geometric inequalities: Old and new

• **Wednesday, May 31**

09:00 - 09:40	Patrick Gérard Unbounded Hankel operators and sharp wellposedness for the cubic Szegő equation
09:50 - 10:30	Yuan Zhou Regularity in the L-infinity variational problem
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:40	Wenhui Shi Optimal regularity of solutions for the parabolic Signorini problem
11:50 - 12:30	Benjamin Dodson Rigidity for the mass-critical NLS at the ground state
<i>afterwards</i>	<i>Lunch break and free afternoon</i>

• **Thursday, June 1**

09:00 - 09:40	Yvan Martel Asymptotic stability of solitary waves for the 1D cubic-quintic Schrödinger equation with no internal mode
09:50 - 10:30	Tobias Lamm Parabolic equations with rough initial data
10:30 - 11:00	<i>Coffee Break</i>
11:00 - 11:40	Leonardo Tolomeo Statistical mechanics of the focusing nonlinear Schrödinger equation
11:40 - 14:00	<i>Lunch break</i>
14:00 - 14:40	Felix Otto Convection-enhanced diffusion in a critical case
14:50 - 15:30	Jonas Lührmann On co-dimension one stability of the soliton for the 1D focusing cubic Klein-Gordon equation
15:30 - 16:00	<i>Coffee break</i>
16:00 - 16:40	Birgit Schörkhuber Singularity formation for the three-dimensional Keller-Segel system
16:50 - 17:30	Nicolas Burq Probabilistic and deterministic scattering for non linear Schrödinger equations

• **Friday, June 2**

09:00 - 09:40	Miahela Ifrim The small data global well-posedness conjecture for 1D defocusing dispersive flows
09:50 - 10:30	Jeremy Marzuola Damped Water Wave Models
10:30 - 11:00	<i>Coffee Break</i>
11:00 - 11:40	Jean-Claude Saut On the Boussinesq and Boussinesq like systems
11:50 - 12:30	Daniel Tataru Free boundary problems for Euler type flows
<i>afterwards</i>	<i>closing</i>