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**Conference on Mathematics of  
Wave Phenomena  
July 23-27, 2018**

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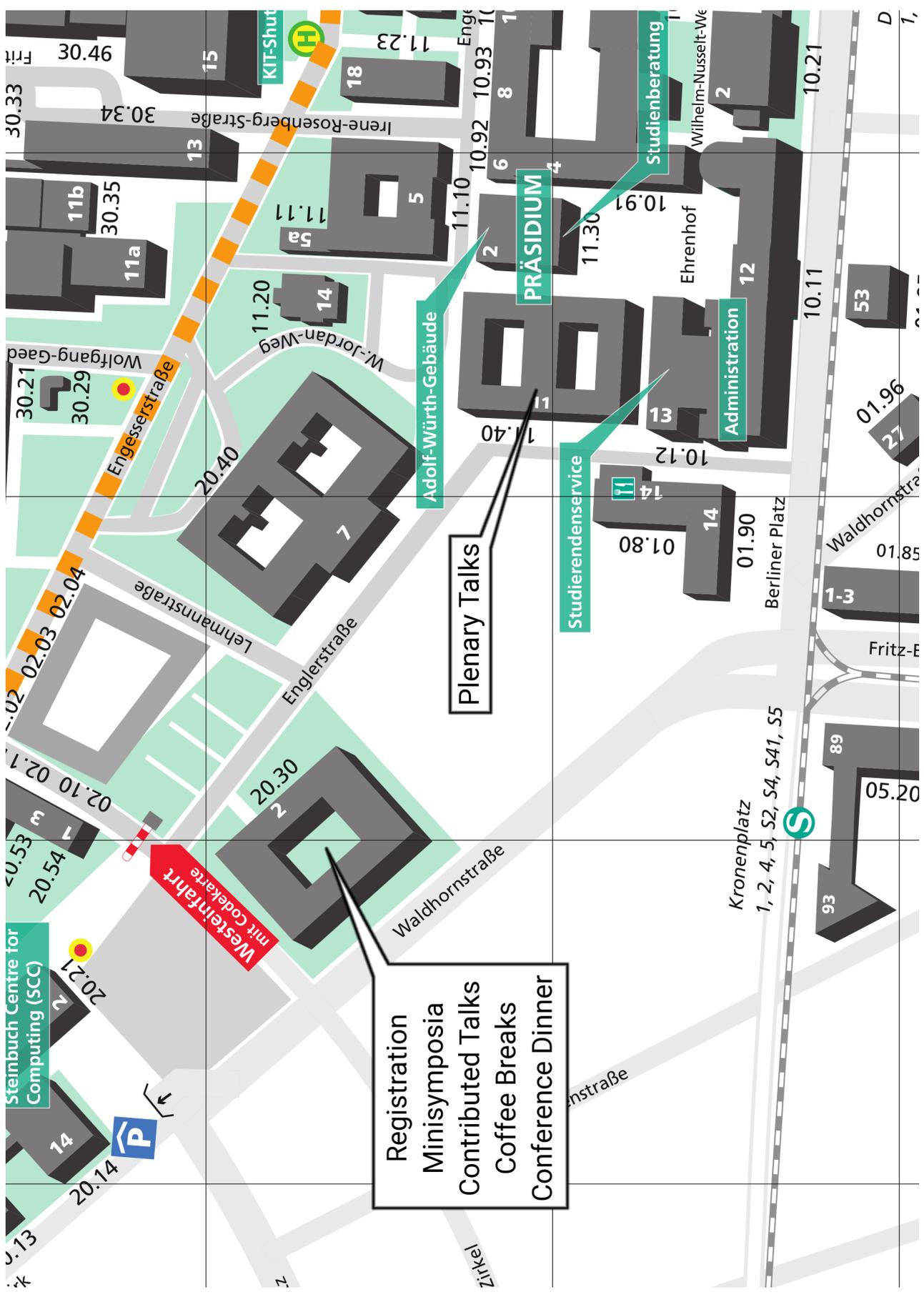
hosted by:

**Collaborative Research Center 1173  
Karlsruhe Institute of Technology  
Germany**

**Conference Program**

**Wave phenomena**  
analysis and numerics





- Registration
- Minisymposia
- Contributed Talks
- Coffee Breaks
- Conference Dinner

Plenary Talks

Adolf-Würth-Gebäude

PRÄSIDIUM

Studierendenservice

Administration

Studienberatung

Steinbuch Centre for Computing (SCC)

Westfahrrad mit Codekarte

Kronenplatz  
1, 2, 4, 5, S2, S4, S41, S5

Map labels and building numbers: 11.23, 18, 10.92, 10.93, 10.91, 11.30, 11.10, 11.11, 5a, 2, 6, 8, 1, 11, 11.20, 14, 7, 20.40, 20.30, 2, 11.40, 11, 14, 10.12, 14, 01.80, 01.90, 12, 10.11, 10.21, 10.21, 53, 01.96, 27, 01.85, 1-3, Fritz-E, 89, 05.20, 93, 14, 20.14, 20.13, 20.21, 20.54, 20.10, 02.1, 02.02, 02.03, 02.04, Engesserstraße, Lehmanstraße, Englerstraße, Waldhornstraße, Berliner Platz, Irene-Rosenberg-Straße, Wolfgang-Gaede, KIT-Shut, Ehrenhof, Wilhelm-Nusseit-We, Zirkel, nstraße, D, 1,

## Conference Information

The conference site is located on KIT South Campus (KIT Campus Süd) in central Karlsruhe. The campus is situated in central Karlsruhe, to the east of the palace (Karlsruher Schloss), and can be reached conveniently by many tram lines. Closeby tram stops are Kronenplatz, Kronenplatz/Fritz-Erler-Straße or Durlacher-Tor/KIT Campus-Süd (all located near the bottom on the map to the left).

All conference activities take place in two buildings:

**Kollegiengebäude Mathematik 20.30:** Registration and coffee breaks take place in the lobby of the mathematical sciences building. The minisymposia and contributed sessions are organized in seminar rooms SR -1.025, SR 0.014, SR 1.067, SR 2.066, SR 2.067 and SR 3.069 in this building.

**Kollegiengebäude am Ehrenhof 11.40:** All plenary sessions are held in the *Johann-Gottfried Tulla Auditorium* in building 11.40. Enter through the main entrance on the west side. The entry to the auditorium is on the first floor.

All conference rooms have video projectors and blackboards. We provide laptops in each room. Participants should copy their presentations onto these before their session. The use of your own laptop is possible, however we urgently advise to test the connection well in advance. The video projectors can be tricky and may not work reliably with all laptops.

The conference desk will be staffed all week to help you with any queries regarding the conference or any related issues. You can also approach one of the members of the local organizing committee.

### Registration

Registration will take place in the lobby of the Mathematical Sciences building and will start on Monday, 23 July, at 8am. The conference desk will be staffed all week to carry out registration of late arrivals.

### Internet

Wifi is available throughout all KIT buildings. Users can login into the EDUROAM network with credentials from their home institutions if available. In case that you do not have access to EDUROAM, we also have prepared a number of guest accounts for the KIT Wifi network. Such an account can be obtained from the conference desk.

## Social Program

### Conference Dinner

The conference dinner takes place in the Atrium of building 20.30 on Thursday evening. It starts at 18:30 and is free of charge.

### Excursions

Excursions will be organized on Friday afternoon. We will inform you about precise plans and meeting points during the conference.

## Practical Information

### Public Transport

Karlsruhe has a very convenient public transport system with trams and busses. Tickets can be bought in advance at a vending machine at many tram stations and then have to be stamped to be validated when boarding. Most trams also have vending machines on board.

## Lunches

We have not organized lunch as the city centre of Karlsruhe is very close to the conference venue with many nice restaurants. We have provided a list of places to eat that we can recommend. Of course there are many other places, especially on Kaisterstraße which may be as good. The list includes the address and approximate distance from building 20.30. For directions, we recommend to search for the addresses on Google maps.

### Pub Food

- Kippe (beer garden) (1,1km, 13min)  
Gottesauer Strasse 23
- Oktave (beer garden) (1km, 12min)  
Ludwig-Wilhelm-Strasse 3
- Oxford Pub (450m, 5min)  
Fasanenstrasse 6
- Oxford Café (300m, 4min)  
Kaiserstrasse 57
- Oxford Café Ost (1.2km, 15min)  
Gerwigstrasse 2
- Schiller Kaffeebar (450m, 6min)  
Kronenstrasse 30
- Zwiebel (1.1km, 13min)  
Durlacher Allee 24

### German (restaurant/pub/beer garden)

- Litfaß (beer garden) (450m, 6min)  
Kreuzstrasse 10
- Multi-Kulti (beer garden) (500m, 5min)  
Schlossplatz
- Pfannestiel (beer garden) (450m, 5min)  
Am Künstlerhaus 53
- Vogelbräu (beer garden) (600m, 8min)  
Kapellenstrasse 46
- Alte Bank (beer garden) (1km, 11min)  
Herrenstrasse 30
- Schlosscafe (beer garden) (500m, 5min)  
Karlsruhe Palace (entry from gardens)
- Gold (1.2km, 14min)  
Ludwig-Wilhelm-Strasse 12
- Marktlücke (550m, 7min)  
Zähringerstrasse 96
- Zum kleinen Ketterer (550m, 6min)  
Adlerstrasse 34

### Bistro

- Café Pan (400 m, 5 min)  
Kaiserstrasse 50
- Café Palaver (750 m, 9 min)  
Steinstrasse 23
- Schmatztruhe (500m, 7min)  
Kaiserstrasse 80
- Cilantro Bistro Del Arte (Chilean, small)  
(750m, 9min)  
Markgrafenstrasse 31

### Italian

- Cortina  
Kaiserstrasse 101 (400m, 5min)
- Il Caminetto (230m, 3min)  
Kronenstrasse 5

### Turkish

- Goldenes Horn (350m, 4min)  
Kaiserstrasse 111
- Kani (240m, 3min)  
Berliner Platz
- Kaisergrill Imbiß (240m, 3min)  
Kaiserstrasse 32

### Spanish

- Besitos (550m, 7min)  
Karl-Friedrich-Strasse 9

### Moroccan/Lebanese

- Habibi (Snack-Bar) (250m, 3min)  
Kaiserstrasse 65
- Marrakesch (Snack-Bar) (250m, 3min)  
Fritz-Erler-Strasse 3

(continued on next page)

## Asian

- Kim Fat Pho (550m, 7min)  
Zirkel 27A
- Chiang Mai (Thai) (1.1km, 13min)  
Durlacher Allee 11
- Continent (Indian) (400m, 5min)  
Kaiserstrasse 109
- Thai Orchid (750m, 10 min)  
, Adlerstrasse 44

Monday, July 23

08:00-09:00	Session 1 (SR 0.014)	Session 2 (SR 1.067)	Session 3 (SR 2.066)	Session 4 (SR 1.025)	Session 5 (SR 2.067)	Session 6
08:00-09:00	<b>Registration</b>					
09:00-09:15	<b>Welcome</b>					
09:15-10:15	<b>Plenary Talk</b> • Daniel Tataru - <i>Two dimensional water waves and related models</i>					
10:15-11:15	<b>Plenary Talk</b> • Erwan Faou - <i>Linearized wave turbulence for three-wave systems</i>					
11:15-11:45	<b>Coffee Break • Registration</b>					
11:45-13:15	<b>Minisymposium 6 •</b> <i>Inverse scattering and electrical impedance tomography</i>	<b>Minisymposium 7 •</b> <i>Time integration for waves-type problems</i>	<b>Minisymposium 9 •</b> <i>Kerr frequency combs – from models to experiments and back</i>	<b>Minisymposium 13 •</b> <i>Nonlinear dispersive equations – blowup, solitons and longtime behavior</i>	<b>Contributed Talks</b>	
13:15-15:00	<b>Lunch Break</b>					
15:00-16:00	<b>Minisymposium 6 •</b> <i>Inverse scattering and electrical impedance tomography</i>	<b>Minisymposium 7 •</b> <i>Time integration for waves-type problems</i>	<b>Minisymposium 9 •</b> <i>Kerr frequency combs – from models to experiments and back</i>	<b>Minisymposium 13 •</b> <i>Nonlinear dispersive equations – blowup, solitons and longtime behavior</i>	<b>Contributed Talks</b>	
16:00-16:30	<b>Coffee Break • Registration</b>					
16:30-18:00	<b>Minisymposium 6 •</b> <i>Inverse scattering and electrical impedance tomography</i>	<b>Minisymposium 7 •</b> <i>Time integration for waves-type problems</i>	<b>Minisymposium 9 •</b> <i>Kerr frequency combs – from models to experiments and back</i>	<b>Minisymposium 13 •</b> <i>Nonlinear dispersive equations – blowup, solitons and longtime behavior</i>	<b>Contributed Talks</b>	
18:00-18:30						

**Monday, July 23, 9:00 – 9:15**

**Welcome Session**

*Welcome Address by Prof. Dr. Oliver Kraft (Vice President of KIT)*

Tulla Lecture Hall (11.40)

**Monday, July 23, 9:15 – 10:15**

**Plenary Talk: Daniel Tataru**

*Two dimensional water waves and related models*

Tulla Lecture Hall (11.40)

**Monday, July 23, 10:15 – 11:15**

**Plenary Talk: Erwan Faou**

*Linearized wave turbulence for three-wave systems*

Tulla Lecture Hall (11.40)

**Monday, July 23, 11:15 – 11:45**

**Coffee Break** (Atrium in 20.30)

**Monday, July 23, 11:45 – 13:15**

**Minisymposium 6: Inverse scattering and electrical impedance tomography**

**Room 0.014 (20.30)**

- 11:45 – 12:10 *The Generalized Linear Sampling Method for a Far-Field Inverse Scattering Problem in the Time Domain*  
Fioralba Cakoni
- 12:15 – 12:40 *Multifrequency MUSIC and a multifrequency factorization method for inverse scattering problems*  
Christian Schmiedecke
- 12:45 – 13:10 *Inverse Problems for Perturbed Bi-harmonic Operator*  
Valery Serov

**Minisymposium 7: Time integration for wave-type problems**

**Room 1.067 (20.30)**

- 11:45 – 12:10 *Numerical analysis of a structure preserving scheme for Maxwell Klein-Gordon equations in 2D*  
Claire Scheid
- 12:15 – 12:40 *Stable and convergent fully discrete interior–exterior coupling for Maxwell's equations and related problems*  
Balázs Kovács
- 12:45 – 13:10 *Error analysis of an ADI splitting for discontinuous Galerkin discretizations of linear wave-type problems*  
Jonas Köhler

## **Minisymposium 9: Kerr frequency combs – from models to experiments and back**

### **Room 2.066 (20.30)**

- 11:45 – 12:10 *Polarization modulational instability in microresonators*  
Tobias Hansson
- 12:15 – 12:40 *Cracking patterns in optical microresonators*  
Damià Gomila
- 12:45 – 13:25 *Microresonator soliton frequency combs*  
Tobias Kippenberg

## **Minisymposium 13: Nonlinear dispersive equations – blowup, solitons and long-time behavior**

### **Room -1.025 (20.30)**

- 11:45 – 12:10 *On stability of blow up solutions for the critical co-rotational Wave Maps problem*  
Shuang Miao
- 12:15 – 12:40 *Existence and stability of blowup for wave maps into negatively curved targets*  
Irfan Glogić
- 12:45 – 13:10 *Dynamics of strongly interacting unstable two-solitons for generalized Korteweg-de Vries equations*  
Jacek Jendrej

## **Contributed Talks**

### **Room 2.067 (20.30)**

- 11:45 – 12:10 *Long-Time Existence of Solutions to Nonlocal Nonlinear Wave Equations with Nonsmooth Kernels*  
Saadet Erbay
- 12:15 – 12:40 *Radiation conditions for periodic potentials*  
Nguyen Thai Ngoc
- 12:45 – 13:15 *Critical points in Strichartz functional*  
Vadim Zharnitsky

## **Monday, July 23, 13:15 – 15:00**

### **Lunch Break**

## **Monday, July 23, 15:00 – 16:00**

## **Minisymposium 6: Inverse scattering and electrical impedance tomography**

### **Room 0.014 (20.30)**

- 15:00 – 15:25 *Eigenvalue Problems in Inverse Scattering Theory*  
David Colton
- 15:30 – 15:55 *The Monotonicity Method for the Helmholtz equation*  
Bastian Harrach

## **Minisymposium 7: Time integration for wave-type problems**

### **Room 1.067 (20.30)**

- 15:00 – 15:25 *Convergence analysis of conservative local time discretization for wave equations*  
Sébastien Imperiale
- 15:30 – 15:55 *On leap-frog-Chebyshev methods*  
Andreas Sturm

## **Minisymposium 9: Kerr frequency combs – from models to experiments and back**

### **Room 2.066 (20.30)**

- 15:00 – 15:25 *Periodic waves of the Lugiato-Lefever equation at the onset of Turing instability*  
Lucie Delcey
- 15:30 – 16:10 *Instabilities of periodic waves for the Lugiato-Lefever equation*  
Mariana Haragus

## **Minisymposium 13: Nonlinear dispersive equations – blowup, solitons and long-time behavior**

### **Room -1.025 (20.30)**

- 15:00 – 15:25 *Singularity formation for Burgers equation with transversal viscosity and related problems*  
Charles Collot
- 15:30 – 15:55 *Stable Self-Similar Blowup for a family of nonlocal transport equations*  
Tej-eddine Ghoul

## **Monday, July 23, 16:00 – 16:30**

**Coffee Break** (Atrium in 20.30)

## **Monday, July 23, 16:30 – 18:30**

### **Minisymposium 6: Inverse scattering and electrical impedance tomography**

#### **Room 0.014 (20.30)**

- 16:30 – 16:55 *The imaginary part of the scattering Green function: monochromatic relations to the real part and uniqueness*  
Alexey D. Agaltsov
- 17:00 – 17:25 *Logarithmic linearization in electrical impedance tomography*  
Nuutti Hyvönen
- 17:30 – 17:55 *A Single Boundary Integral Equation for Transmission Eigenvalues*  
Rainer Kress

### **Minisymposium 7: Time integration for wave-type problems**

#### **Room 1.067 (20.30)**

- 16:30 – 16:55 *Numerical methods and analysis for the Zakharov system in the subsonic limit regime*  
Chunmei Su
- 17:00 – 17:25 *Stability and convergence of time discretizations of quasi-linear evolution equations of Kato type*  
Christian Lubich
- 17:30 – 17:55 *On the convergence of Lawson methods for semilinear stiff problems*  
Marlis Hochbruck

## Minisymposium 9: Kerr frequency combs – from models to experiments and back

### Room 2.066 (20.30)

- 16:30 – 16:55 *Bifurcation structure of localized states in the Lugiato-Lefever equation with anomalous dispersion*  
Pedro Parra-Rivas
- 17:00 – 17:25 *Global bifurcation results for the Lugiato-Lefever equation*  
Rainer Mandel
- 17:30 – 17:55 *Microresonator soliton frequency combs in optical communications and ultrafast ranging*  
Philipp Trocha
- 18:00 – 18:25 *Dark and bright solitons in models for frequency combs*  
Janina Gärtner

## Minisymposium 13: Nonlinear dispersive equations – blowup, solitons and long-time behavior

### Room -1.025 (20.30)

- 16:30 – 16:55 *Global attraction to solitary waves for Klein-Gordon equation with concentrated nonlinearities*  
Elena Kopylova
- 17:00 – 17:25 *Type II blow up solutions with optimal stability properties for the critical focussing nonlinear wave equation on  $\mathbb{R}^{3+1}$*   
Stefano Burzio
- 17:30 – 17:55 *Breather solutions for nonlinear Klein-Gordon equations on periodic metric graphs*  
Daniela Maier
- 18:00 – 18:25 *A priori estimates and existence of periodic solutions to the modified Benjamin-Ono equation below  $H^{1/2}(\mathbb{T})$*   
Robert Schippa

## Contributed Talks

### Room 2.067 (20.30)

- 16:30 – 16:55 *Spectral estimates for Dirichlet Laplacian on twisted tubes*  
Diana Barseghyan
- 17:00 – 17:25 *A Global div-curl-Lemma for Mixed Boundary Conditions in Weak Lipschitz Domains and a Corresponding Generalized  $A_0^*$ - $A_1$ -Lemma in Hilbert Spaces*  
Dirk Pauly
- 17:30 – 17:55 *Geometrical approximations of Schrödinger operators with point interactions"*  
Andrii Khrabustovskyi



Tuesday, July 24

08:00-09:00	Session 1 (SR 2.06Z)	Session 2 (SR 2.066)	Session 3 (SR 1.06Z)	Session 4 (SR -1.025)	Session 5 (SR 0.014)	Session 6
<b>Registration</b>						
09:00-10:00	<b>Plenary Talk</b> • Pierre Raphael - <i>Energy concentration and singularity formation in nonlinear wave dynamics</i>					
10:00-11:00	<b>Plenary Talk</b> • Igor Tsukermann - <i>Trefftz Approximations for Complex Structures</i>					
<b>Coffee Break • Registration</b>						
11:30-13:00	<b>Minisymposium 1</b> • <i>Stochastic nonlinear wave and Schrödinger equations and applications</i>	<b>Minisymposium 10</b> • <i>Microlocal analysis of wave phenomena</i>	<b>Minisymposium 12</b> • <i>Pattern formation and localized structures</i>	<b>Minisymposium 14</b> • <i>Stability of solitary waves</i>	<b>Contributed Talks</b>	
<b>Lunch Break</b>						
13:00-15:00						
15:00-16:00	<b>Minisymposium 1</b> • <i>Stochastic nonlinear wave and Schrödinger equations and applications</i>	<b>Minisymposium 10</b> • <i>Microlocal analysis of wave phenomena</i>	<b>Minisymposium 5</b> • <i>Mathematical theory of water waves</i>	<b>Minisymposium 14</b> • <i>Stability of solitary waves</i>	<b>Contributed Talks</b>	
<b>Coffee Break • Registration</b>						
16:00-16:30	<b>Minisymposium 1</b> • <i>Stochastic nonlinear wave and Schrödinger equations and applications</i>	<b>Minisymposium 10</b> • <i>Microlocal analysis of wave phenomena</i>	<b>Minisymposium 12</b> • <i>Pattern formation and localized structures</i>	<b>Contributed Talks</b>		
16:30-18:00	<b>Contributed Talks</b>					
18:00-18:30						

**Tuesday, July 24, 9:00 – 10:00**

**Plenary Talk: Pierre Raphael**

*Energy concentration and singularity formation in nonlinear wave dynamics*

Tulla Lecture Hall (11.40)

**Tuesday, July 24, 10:00 – 11:00**

**Plenary Talk: Igor Tsukermann**

*Trefftz Approximations for Complex Structures*

Tulla Lecture Hall (11.40)

**Tuesday, July 24, 11:00 – 11:30**

**Coffee Break** (Atrium in 20.30)

**Tuesday, July 24, 11:30 – 13:00**

**Minisymposium 1: Stochastic nonlinear wave and Schrödinger equations and applications**

**Room 2.067 (20.30)**

**11:30 – 11:55** *Branching processes representation of solutions to non-linear Dirac equations*  
Tomasz Zastawniak

**12:00 – 12:25** *On the stochastic Gross-Pitaevskii equation*  
Reika Fukuizumi

**12:30 – 12:55** *On existence, uniqueness, regularity and invariant measures for stochastic wave equations*  
Martin Ondreját

**Minisymposium 10: Microlocal analysis of wave phenomena**

**Room 2.066 (20.30)**

**11:30 – 11:55** *Extrapolation of solutions of wave equations in the frequency domain: a microlocal viewpoint*  
Laurent Demanet

**12:00 – 12:25** *Microlocal analysis and numerical schemes for time harmonic waves*  
Christiaan C. Stolk

**12:30 – 12:55** *Bilinear operators and Fréchet differentiability in seismic imaging*  
Allan Greenleaf

## Minisymposium 12: Pattern formation and localized structures

### Room 1.067 (20.30)

- 11:30 – 11:55 *One-dimensional periodic solutions in a three-component reaction-diffusion system*  
Gianne Derks
- 12:00 – 12:25 *Striped pattern selection by advective reaction-diffusion systems*  
Eric Siero
- 12:30 – 12:55 *Grain boundaries for the Bénard-Rayleigh problem*  
Mariana Haragus

## Minisymposium 14: Stability of solitary waves

### Room -1.025 (20.30)

- 11:30 – 11:55 *On linear stability of bi-frequency solitary waves of the nonlinear Dirac equation*  
Andrew Comech
- 12:00 – 12:25 *On stability of solitary waves of the nonlinear Dirac equation in the non-relativistic limit*  
Nabile Boussaïd
- 12:30 – 12:55 *Ill-Posedness of the Third Order NLS Equation with Raman Scattering Term*  
Yoshio Tsutsumi

## Contributed Talks

### Room 0.014 (20.30)

- 11:30 – 11:55 *Mind the gap – a splitting approach to highly oscillatory differential equations*  
Simone Buchholz
- 12:00 – 12:25 *Splitting Methods for Plasmonic Nanostructures*  
Constantin Carle
- 12:30 – 12:55 *A splitting approach for the magnetic Schrödinger equation"*  
Chiara Piazzola

**Tuesday, July 24, 13:00 – 15:00**

**Lunch Break**

**Tuesday, July 24, 15:00 – 16:00**

## Minisymposium 1: Stochastic nonlinear wave and Schrödinger equations and applications

### Room 2.067 (20.30)

- 15:00 – 15:25 *Singular Stochastic PDEs for the Anderson Hamiltonian*  
Baris Evren Ugurcan
- 15:30 – 15:55 *Stochastic Strichartz estimates and the NLS with multiplicative noise*  
Fabian Hornung

## Minisymposium 10: Microlocal analysis of wave phenomena

### Room 2.066 (20.30)

- 15:00 – 15:25 *Microlocal analysis of Doppler SAR*  
Raluca Felea
- 15:30 – 15:55 *Microlocal analysis of a spindle transform arising in Compton scattering tomography*  
Sean Holman

## Minisymposium 5: Mathematical theory of water waves

### Room 1.067 (20.30)

- 15:00 – 15:25 *Amplitude equations for spatially periodic water wave models*  
Guido Schneider
- 15:30 – 15:55 *Regularity of the highest wave for the reduced Ostrovsky equation*  
Gabriele Brüll

## Minisymposium 14: Stability of solitary waves

### Room -1.025 (20.30)

- 15:00 – 15:25 *Nonlinear profile decompositions and scattering for a NLS-ODE model*  
Scipio Cuccagna
- 15:30 – 15:55 *Initial-Boundary Value Problems for the Reaction-Diffusion Equation*  
Dionyssios Mantzavinos

## Contributed Talks

### Room 0.014 (20.30)

- 15:00 – 15:25 *A unified error analysis for non-conforming space discretizations of wave-type equations*  
David Hipp
- 15:30 – 15:55 *Linearly implicit time integration of semilinear wave equations with dynamic boundary conditions*  
Jan Leibold

## Tuesday, July 24, 16:00 – 16:30

Coffee Break (Atrium in 20.30)

## Tuesday, July 24, 16:30 – 18:30

## Minisymposium 1: Stochastic nonlinear wave and Schrödinger equations and applications

### Room 2.067 (20.30)

- 16:30 – 16:55 *Ergodicity of the Gibbs measure for the one dimensional stochastic cubic wave equation with damping*  
Leonardo Tolomeo
- 17:00 – 17:25 *Random-field Solutions of Weakly Hyperbolic Stochastic PDEs with Polynomially Bounded Coefficients*  
Alessia Ascanelli
- 17:30 – 17:55 *Mild Solutions of Weakly Hyperbolic Semilinear SPDEs with Polynomially Bounded Coefficients*  
Sandro Coriasco

## Minisymposium 10: Microlocal analysis of wave phenomena

### Room 2.066 (20.30)

- 16:30 – 16:55 *Local and global boundary rigidity*  
Plamen Stefanov
- 17:00 – 17:25 *Microlocal methods for geodesic X-ray transforms*  
François Monard
- 17:30 – 17:55 *Microlocal inversion of certain restricted ray transforms of symmetric tensor fields*  
Venky Krishnan

## Minisymposium 12: Pattern formation and localized structures

### Room 1.067 (20.30)

- 16:30 – 16:55 *Pattern formation in the wake of growth mechanisms*  
Ryan Goh
- 17:00 – 17:25 *Beyond all order asymptotics for homoclinic snaking in a Schnakenberg system*  
Hannes de Witt
- 17:30 – 17:55 *Modulated traveling fronts for the Swift-Hohenberg equation in case of an additional conservation law*  
Bastian Hilder

## Contributed Talks

### Room -1.025 (20.30)

- 16:30 – 16:55 *Coupling Problems of Wave-type Equations*  
Sarah Eberle
- 17:00 – 17:25 *Transparent boundary conditions for the KdV equation*  
Mirko Residori
- 17:30 – 17:55 *Numerical simulation of rf-SQUIDs*  
Bernhard Maier

## Contributed Talks

### Room 0.014 (20.30)

- 16:30 – 16:55 *The damped wave equation with unbounded damping*  
Petr Siegl
- 17:00 – 17:25 *On the Energy Rate of Decay for the linear Damped Klein Gordon Equation on Unbounded Domain*  
Satbir Malhi
- 17:30 – 17:55 *On the Stability of Traveling Wave Solutions to the Fornberg-Whitham Equation*  
Handan Borluk



Wednesday, July 25

08:00-09:00	Session 1 (SR <a href="#">0.014</a> )	Session 2 (SR <a href="#">-1.025</a> )	Session 3 (SR <a href="#">2.067</a> )	Session 4 (SR <a href="#">1.067</a> )	Session 5 (SR <a href="#">2.066</a> )	Session 6 (SR <a href="#">3.069</a> )
<b>Registration</b>						
09:00-10:00	<b>Plenary Talk</b> • Anne-Sophie Bonnet-BenDhia - <i>A new complex frequency spectrum for the analysis of transmission properties in perturbed waveguides</i>					
10:00-11:00	<b>Plenary Talk</b> • Roland Donninger - <i>Self-similar blowup in supercritical wave equations</i>					
<b>Coffee Break • Registration</b>						
11:30-13:00	<b>Minisymposium 2</b> • <i>Recent advances in inverse scattering theory</i>	<b>Minisymposium 5</b> • <i>Mathematical theory of water waves</i>	<b>Minisymposium 8</b> • <i>Geometric methods in spectral theory of traveling waves</i>	<b>Minisymposium 14</b> • <i>Stability of solitary waves</i>	<b>Contributed Talks</b>	<b>Contributed Talks</b>
<b>Lunch Break</b>						
13:00-15:00						
15:00-16:00	<b>Minisymposium 11</b> • <i>Bifurcations of nonlinear waves – theory, numerics and applications</i>	<b>Minisymposium 5</b> • <i>Mathematical theory of water waves</i>	<b>Minisymposium 10</b> • <i>Microlocal analysis of wave phenomena</i>	<b>Minisymposium 14</b> • <i>Stability of solitary waves</i>	<b>Contributed Talks</b>	
<b>Coffee Break • Registration</b>						
16:00-16:30		<b>Minisymposium 5</b> • <i>Mathematical theory of water waves</i>	<b>Minisymposium 10</b> • <i>Microlocal analysis of wave phenomena</i>	<b>Minisymposium 14</b> • <i>Stability of solitary waves</i>	<b>Contributed Talks</b>	
16:30-18:00	<b>Minisymposium 2</b> • <i>Recent advances in inverse scattering theory</i>					
18:00-18:30						

**Wednesday, July 25, 9:00 – 10:00**

**Plenary Talk: Anne-Sophie Bonnet-BenDhia**

*A new complex frequency spectrum for the analysis of transmission properties in perturbed waveguides*

Tulla Lecture Hall (11.40)

**Wednesday, July 25, 10:00 – 11:00**

**Plenary Talk: Roland Donninger**

*Self-similar blowup in supercritical wave equations*

Tulla Lecture Hall (11.40)

**Wednesday, July 25, 11:00 – 11:30**

**Coffee Break** (Atrium in 20.30)

**Wednesday, July 25, 11:30 – 13:00**

**Minisymposium 2: Recent advances in inverse scattering theory**

**Room 0.014 (20.30)**

- 11:30 – 11:55 *Linear Sampling Method applied to Non Destructive Testing of an elastic waveguide: experimental validation*  
Laurent Bourgeois
- 12:00 – 12:25 *Non reflection and perfect reflection via Fano resonance in waveguides*  
Lucas Chesnel
- 12:30 – 12:55 *Qualitative methods in terminating waveguide imaging*  
Shixu Meng

**Minisymposium 5: Mathematical theory of water waves**

**Room -1.025 (20.30)**

- 11:30 – 11:55 *Modified Energy Functionals, Normal Forms and the NLS Approximation*  
C. Eugene Wayne
- 12:00 – 12:25 *Validity of the Nonlinear Schrödinger approximation for quasilinear dispersive equations"*  
Max Heß
- 12:30 – 12:55 *Spatial asymptotics for solitary waves in deep water*  
Miles Wheeler

## Minisymposium 8: Geometric methods in spectral theory of traveling waves

### Room 2.067 (20.30)

- 11:30 – 11:55 *The Maslov index in symplectic Banach spaces*  
Bernhelm Booß-Bavnbek
- 12:00 – 12:25 *Iteration theory of Maslov-type index*  
Chaofeng Zhu
- 12:30 – 12:55 *On the Fredholm Lagrangian Grassmannian, Spectral Flow and ODEs in Hilbert Spaces*  
Nils Waterstraat

## Minisymposium 14: Stability of solitary waves

### Room 1.067 (20.30)

- 11:30 – 11:55 *Inverse scattering transform for the integrable nonlocal nonlinear Schrödinger equation"*  
Ziad H. Musslimani
- 12:00 – 12:25 *Stability of solitary waves in PT -symmetric systems*  
Dmitry E. Pelinovsky
- 12:30 – 12:55 *Discrete breathers in PT-Symmetric metamaterials*  
Makrina Agaoglou

## Contributed Talks

### Room 2.066 (20.30)

- 11:30 – 11:55 *Analysis of the hp-version of a first order system least squares method for the Helmholtz equation.*  
Maximilian Bernkopf
- 12:00 – 12:25 *Parallel HPC Solution of the Helmholtz Equation with Controllability Methods*  
Jet Hoe Tang
- 12:30 – 12:55 *Efficient stochastic sparse photoacoustic solver using ray tracing*  
Francesc Rullán

## Contributed Talks

### Room 3.069 (20.30)

- 11:30 – 11:55 *Dispersion relations of periodic photonic systems with a strong material dispersion*  
Christian Wolff
- 12:00 – 12:25 *Modelling and design of nano-structures: multilayer nanoplasmonics configurations*  
Harun Kurkcu
- 12:30 – 12:55 *Characterization of metamaterials beyond a local response*  
Carsten Rockstuhl

**Wednesday, July 25, 13:00 – 15:00**

**Lunch Break**

## Wednesday, July 25, 15:00 – 16:00

### Minisymposium 11: Bifurcations of nonlinear waves – theory, numerics and applications

#### Room 0.014 (20.30)

- 15:00 – 15:25 *Computation and stability of waves in Hamiltonian PDEs*  
Wolf-Jürgen Beyn
- 15:30 – 15:55 *Spatial solitons in PT-symmetric systems: bifurcation from eigenvalues and from spectral intervals*  
Tomáš Dohnal

### Minisymposium 5: Mathematical theory of water waves

#### Room -1.025 (20.30)

- 15:00 – 15:25 *Degenerate dispersive equations*  
Benjamin Harrop-Griffiths
- 15:30 – 15:55 *A Morawetz inequality for water waves*  
Mihaela Ifrim

### Minisymposium 10: Microlocal analysis of wave phenomena

#### Room 2.067 (20.30)

- 15:00 – 15:25 *An explicit method of reconstruction for X-ray phase contrast imaging*  
Victor Palamodov
- 15:30 – 15:55 *Wavelet-based reconstructions in limited data photoacoustic tomography*  
Jürgen Frikel

### Minisymposium 14: Stability of solitary waves

#### Room 1.067 (20.30)

- 15:00 – 15:25 *On orbital stability of ground states for finite crystals in fermionic Schrödinger–Poisson model"*  
Alexander Komech
- 15:30 – 15:55 *Strong instability of standing waves for nonlinear Schrödinger equations with potential"*  
Masahito Ohta

### Contributed Talks

#### Room 2.066 (20.30)

- 15:00 – 15:25 *Uniformly accurate methods for Klein-Gordon-type equations*  
Simon Baumstark
- 15:30 – 15:55 *Efficient Numerical Schemes for Highly Oscillatory Klein–Gordon and Dirac type Equations*  
Patrick Krämer

## Wednesday, July 25, 16:00 – 16:30

Coffee Break (Atrium in 20.30)

## Wednesday, July 25, 16:30 – 18:30

### Minisymposium 2: Recent advances in inverse scattering theory

#### Room 0.014 (20.30)

- 16:30 – 16:55 *Asymptotic expansions for transmission eigenvalues for media with small inhomogeneities*  
Shari Moskow
- 17:00 – 17:25 *Monotonicity in inverse medium scattering on unbounded domains*  
Roland Griesmaier
- 17:30 – 17:55 *Analysis of sampling methods for locally perturbed periodic media using a single Floquet Bloch mode*  
Thi Phong Nguyen

### Minisymposium 5: Mathematical theory of water waves

#### Room -1.025 (20.30)

- 16:30 – 16:55 *Multi-modal and non-symmetric steady water waves with vorticity*  
Evgeniy Lokharu
- 17:00 – 17:25 *Wave collapses and turbulence at the free surface of a liquid dielectric in an external tangential electric field*  
Evgeny A. Kochurin
- 17:30 – 17:55 *Propagation of long-crested water waves*  
Colette Guillopé

### Minisymposium 10: Microlocal analysis of wave phenomena

#### Room 2.067 (20.30)

- 16:30 – 16:55 *Analysis of reconstruction methods for photoacoustic tomography in heterogenous media*  
Markus Haltmeier
- 17:00 – 17:25 *Microlocal analysis of dynamic imaging problems*  
Bernadette Hahn

### Minisymposium 14: Stability of solitary waves

#### Room 1.067 (20.30)

- 16:30 – 16:55 *Stability of periodic waves in the generalized reduced Ostrovsky equation*  
Anna Geyer
- 17:00 – 17:25 *Existence and orbital stability of traveling waves for nonlocal double dispersive equations*  
Albert Erkip

### Contributed Talks

#### Room 2.066 (20.30)

- 16:30 – 16:55 *Post-processed Galerkin approximation of improved order for wave equations*  
Markus Bause
- 17:00 – 17:25 *Reciprocal Mass Matrices for Transient Elastodynamics*  
Anton Tkachuk
- 17:30 – 17:55 *Iterative regularization on a shape-manifold and applications to inverse obstacle scattering*  
Julian Eckhardt



Thursday, July 26

	Session 1 (SR_1.025)	Session 2 (SR_0.014)	Session 3 (SR_2.066)	Session 4 (SR_1.067)	Session 5 (SR_2.067)	Session 6 (SR_3.069)
08:00-09:00	<b>Registration</b>					
09:00-10:00	<b>Plenary Talk</b> • Liliana Borcea - <i>Nonlinear processing of active array data in inverse scattering via reduced order models</i>					
10:00-11:00	<b>Plenary Talk</b> • Ben Schweizer - <i>Effective description of waves in discrete and heterogeneous media</i>					
11:00-11:30	<b>Coffee Break • Registration</b>					
11:30-13:00	<b>Minisymposium 2 •</b> <i>Recent advances in inverse scattering theory</i>	<b>Minisymposium 3 •</b> <i>Spectral and dispersive properties of quantum Hamiltonians</i>	<b>Minisymposium 8 •</b> <i>Geometric methods in spectral theory of traveling waves</i>	<b>Minisymposium 11 •</b> <i>Bifurcations of nonlinear waves – theory, numerics and applications</i>	<b>Contributed Talks</b>	
13:00-15:00	<b>Lunch Break</b>					
15:00-16:00	<b>Minisymposium 2 •</b> <i>Recent advances in inverse scattering theory</i>	<b>Minisymposium 3 •</b> <i>Spectral and dispersive properties of quantum Hamiltonians</i>	<b>Minisymposium 8 •</b> <i>Geometric methods in spectral theory of traveling waves</i>	<b>Minisymposium 11 •</b> <i>Bifurcations of nonlinear waves – theory, numerics and applications</i>	<b>Contributed Talks</b>	<b>Minisymposium 4 •</b> <i>Optimization of transmission and reflection</i>
16:00-16:30	<b>Coffee Break • Registration</b>					
16:30-18:00	<b>Contributed Talks</b>		<b>Minisymposium 8 •</b> <i>Geometric methods in spectral theory of traveling waves</i>	<b>Minisymposium 11 •</b> <i>Bifurcations of nonlinear waves – theory, numerics and applications</i>	<b>Contributed Talks</b>	<b>Minisymposium 4 •</b> <i>Optimization of transmission and reflection</i>
18:00-18:30						
18:30-21:00	<b>Conference Dinner</b>					

**Thursday, July 26, 9:00 – 10:00**

**Plenary Talk: Liliana Borcea**

*Nonlinear processing of active array data in inverse scattering via reduced order models*

Tulla Lecture Hall (11.40)

**Thursday, July 26, 10:00 – 11:00**

**Plenary Talk: Ben Schweizer**

*Effective description of waves in discrete and heterogeneous media*

Tulla Lecture Hall (11.40)

**Thursday, July 26, 11:00 – 11:30**

**Coffee Break** (Atrium in 20.30)

**Thursday, July 26, 11:30 – 13:00**

**Minisymposium 2: Recent advances in inverse scattering theory**

**Room -1.025 (20.30)**

11:30 – 11:55 *Imaging through random media by speckle intensity correlations*  
Josselin Garnier

12:00 – 12:25 *A general framework for dynamic homogenization of wave motion at finite wavelengths and frequencies*  
Bojan B. Guzina

12:30 – 12:55 *Reconstruction of local perturbations in periodic surfaces*  
Ruming Zhang

**Minisymposium 3: Spectral and dispersive properties of quantum Hamiltonians**

**Room 0.014 (20.30)**

11:30 – 11:55 *On wave maps and related problems*  
Sebastian Herr

12:00 – 12:25 *Invariant measures for the periodic derivative nonlinear Schrödinger equation"*  
Renato Lucà

12:30 – 12:55 *Unique Continuation for the Z-K dispersive equation*  
Lucrezia Cossetti

## **Minisymposium 8: Geometric methods in spectral theory of traveling waves**

### **Room 2.066 (20.30)**

- 11:30 – 11:55 *The Maslov Index and the Spectra of Second Order Elliptic Operators*  
Selim Sukhtaiev
- 12:00 – 12:25 *A generalized Maslov index for non-Hamiltonian systems*  
Graham Cox
- 12:30 – 12:55 *A Morse-Maslov theorem for the nonlinear Schrödinger equation on graphs"*  
Robert Marangell

## **Minisymposium 11: Bifurcations of nonlinear waves – theory, numerics and applications**

### **Room 1.067 (20.30)**

- 11:30 – 11:55 *Rotating waves driven by heating in spherical shells*  
Juan Sánchez Umbría
- 12:00 – 12:25 *The Role of Self-Organized Spatial Patterns in the Design of Agroforestry Systems*  
Omer Tzuk
- 12:30 – 12:55 *Patterns and Waves in Nonlocal Reaction-Diffusion Equations*  
Christian Kuehn

## **Contributed Talks**

### **Room 2.067 (20.30)**

- 11:30 – 11:55 *Operator Preconditioning for the Electric Field Integral Equation on Screens*  
Carolina Urzúa-Torres
- 12:00 – 12:25 *Scattering of an Electromagnetic Wave by a Perfectly Conducting Obstacle Coated with Thin Layers*  
Fatima Z. Goffi
- 12:30 – 12:55 *Asymptotic modelling of the wave propagation in presence of an array of Helmholtz resonators*  
Adrien Semin

**Thursday, July 26, 13:00 – 15:00**

**Lunch Break**

**Thursday, July 26, 15:00 – 16:00**

## **Minisymposium 2: Recent advances in inverse scattering theory**

### **Room -1.025 (20.30)**

- 15:00 – 15:25 *Sub-wavelength sensing of bi-periodic materials using topological derivatives of the second-order homogenized moduli*  
Marc Bonnet
- 15:30 – 15:55 *Inverse Problems in Linear Elasticity via Eshelby's Integrodifferential Equation*  
Drossos Gintides

### **Minisymposium 3: Spectral and dispersive properties of quantum Hamiltonians**

#### **Room 0.014 (20.30)**

- 15:00 – 15:25 *Global existence and scattering via bilinear restriction estimates*  
Timothy Candy
- 15:30 – 15:55 *Non-selfadjoint spectral problems arising in the stability analysis of self-similar blowup in nonlinear wave equations*  
Irfan Glogić

### **Minisymposium 8: Geometric methods in spectral theory of traveling waves**

#### **Room 2.066 (20.30)**

- 15:00 – 15:25 *Index and instability of closed semi-Riemannian geodesics*  
Alessandro Portaluri
- 15:30 – 15:55 *Fluidic Shock Waves without or with Electromagnetic Fields*  
Heinrich Freistühler

### **Minisymposium 11: Bifurcations of nonlinear waves – theory, numerics and applications**

#### **Room 1.067 (20.30)**

- 15:00 – 15:25 *A network of invariant solutions in inclined layer convection*  
Tobias M. Schneider
- 15:30 – 15:55 *Front propagation in bistable pattern-forming systems*  
Edgar Knobloch

### **Contributed Talks**

#### **Room 2.067 (20.30)**

- 15:00 – 15:25 *Exact complex scalings based on Hardy space infinite elements*  
Markus Wess
- 15:30 – 15:55 *Numerical experiments of generation and propagation of internal waves using a two-layer non-hydrostatic model*  
Sri Redjeki Pudjaprasetya

### **Minisymposium 4: Optimization of transmission and reflection of waves**

#### **Room 3.069 (20.30)**

- 15:00 – 15:25 *Shape optimization of microlenses*  
Alberto Paganini
- 15:30 – 15:55 *Isogeometric shape optimization for nonlinear ultrasound focusing*  
Vanja Nikolić

**Thursday, July 26, 16:00 – 16:30**

**Coffee Break** (Atrium in 20.30)

## Thursday, July 26, 16:30 – 18:30

### Contributed Talks

#### Room -1.025 (20.30)

- 16:30 – 16:55 *Dynamic Inverse Problems for Wave Equations*  
Thies Gerken
- 17:00 – 17:25 *Application of the Floquet-Transform to the Helmholtz Equation and Maxwell Equations on Locally Perturbed*  
Alexander Konschin
- 17:30 – 17:55 *Data recovery: from limited-aperture to full-aperture*  
Xiaodong Liu

### Minisymposium 8: Geometric methods in spectral theory of traveling waves

#### Room 2.066 (20.30)

- 16:30 – 16:55 *Fredholm Grassmannian flows and nonlinear PDEs*  
Simon Malham
- 17:00 – 17:25 *The Maslov and Morse indices for Hamiltonian systems*  
Alim Sukhtayev
- 17:30 – 17:55 *On coalescing characteristics in Whitham modulation theory: the (Krein) sign characteristic and its nonlinear implications*  
Thomas J. Bridges

### Minisymposium 11: Bifurcations of nonlinear waves – theory, numerics and applications

#### Room 1.067 (20.30)

- 16:30 – 16:55 *Wave-pinning, Turing instability and localised pattern formation*  
Alan Champneys
- 17:00 – 17:25 *Traveling waves in highly nonlinear shallow water equations*  
Anna Geyer
- 17:30 – 17:55 *Modulation equations at the Eckhaus boundary – The KdV equation –*  
Tobias Haas
- 18:00 – 18:25 *Localized structures in an extended Klausmeier model*  
Martina Chirilus-Bruckner

### Contributed Talks

#### Room 2.067 (20.30)

- 16:30 – 16:55 *Multiharmonic analysis for nonlinear acoustics with small excitation amplitude*  
Kersten Schmidt
- 17:00 – 17:25 *Recovering sound speed and density from the cross covariance function in helioseismology*  
Damien Fournier

### Minisymposium 4: Optimization of transmission and reflection of waves

#### Room 3.069 (20.30)

- 16:30 – 16:55 *Pareto optimization of resonances*  
Illya M. Karabash
- 17:00 – 17:25 *Fast estimation of losses of free-form waveguides using a fundamental mode approximation*  
Fernando Negro



Friday, July 27

	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
08:00-09:00	<b>Registration</b>					
09:00-10:00	<b>Plenary Talk • Björn Sandstede - Nonlinear stability of sources</b>					
10:00-11:00	<b>Plenary Talk • Peter Monk - Optimal design of thin film solar cells</b>					
11:00-11:30	<b>Coffee Break</b>					
11:30-12:30	<b>Plenary Talk • Björn Engquist - Fast solvers for frequency domain wave propagation</b>					
12:30-14:30	<b>Lunch Break</b>					
14:30-16:30	<b>Excursion</b>					

**Friday, July 27, 9:00 – 10:00**

**Plenary Talk: Björn Sandstede**

*Nonlinear stability of sources*

Tulla Lecture Hall (11.40)

**Friday, July 27, 10:00 – 11:00**

**Plenary Talk: Peter Monk**

*Optimal design of thin film solar cells*

Tulla Lecture Hall (11.40)

**Friday, July 27, 11:00 – 11:30**

**Coffee Break** (Atrium in 20.30)

**Friday, July 27, 11:30 – 12:30**

**Plenary Talk: Björn Engquist**

*Fast solvers for frequency domain wave propagation*

Tulla Lecture Hall (11.40)

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