

## Preliminary Program of Conference on Mathematics of Wave Phenomena, Karlsruhe, February 14-18, 2022

Timezone CET (UTC+1)	<b>Monday</b> February 14th, 2022	<b>Tuesday</b> February 15th, 2022	<b>Wednesday</b> February 16th, 2022	<b>Thursday</b> February 17th, 2022	<b>Friday</b> February 18th, 2022	
	Welcome Session					
09:00-10:00	Perugia	Krieger	Poulton	López-Fernández	Haddar	
10:00-11:00	Pelinovsky	Oksanen	Spence	Break	Einkemmer	
11:00-12:00	Break	Break	Break	Contributed talks sessions CT15, CT16, CT17 and Minisymposia 4, 12, 17, 19, 22	Break	
12:00-13:00	Contributed talks sessions CT1, CT2 and Minisymposia 1, 2, 10, 14, 15, 21	Contributed talks sessions CT4, CT5 and Minisymposia 5, 7, 9, 13, 14, 15	Contributed talks sessions CT10, CT11 and Minisymposia 3, 7, 8, 11, 16, 18		Break	Gérard
13:00-14:00	Break	Break	Break	Break		
14:00-15:00						
15:00-16:00	Minisymposia 2, 10, 14, 15, 21	Contributed talks sessions CT6, CT7 and Minisymposia 5, 7, 8, 9, 13, 21	Contributed talks session CT12, CT13 and Minisymposia 3, 8, 11, 12, 16, 18		Minisymposia 4, 6, 11, 12, 17, 19, 20, 22	
16:00-16:30	Break	Break	Break	Break		
16:30-19:00	Contributed talks session CT3(3) and Minisymposia 1(4), 2(2), 9(3), 10(4), 14(3), 15(4), 21(4)	Contributed talks sessions CT8(4), CT9(3) and Minisymposia 5(4), 7(4), 8(4), 9(3), 13(4), 16(3)	Contributed talks session CT14(4) and Minisymposia 3(3), 4(4), 8(4), 11(3), 12(2), 16(3), 18(3)	Contributed talks session CT18(3) and Minisymposia 6(4), 12(3), 17(2), 19(2), 20(5), 22(3)		

In parentheses is the number of talks in late afternoon session.

## Preliminary Program of Conference on Mathematics of Wave Phenomena, Karlsruhe, February 14-18, 2022

### List of Minisymposia

- 1 [Wave Propagation and Imaging in Biomedical Ultrasound](#)  
Organizers: Marta Betcke (London), Ben Cox (London), and Ashkan Javaherian (U College London)
- 2 [Advances in Computational Boundary Integral Equations for Electromagnetics](#)  
Organizers: Timo Betcke (U College London), David Hewett (U College London), and Kristof Cools (Ghent U)
- 3 [Stochastic Nonlinear Wave and Schrödinger Equations and Applications](#)  
Organizers: Zdzislaw Brzeźniak (U York)
- 4 [High Frequency Scattering and Wave Propagation: the Semiclassical/Numerical Analysis Interface](#)  
Organizer: Simon Chandler-Wilde (U Reading) and Euan Spence (U Bath)
- 5 [Discretization Methods for Indefinite Wave Propagation Problems](#)  
Organizers: Théophile Chaumont-Frelet (Inria Sophia-Antipolis) and Jens Markus Melenk (TU Wien)
- 6 [Advances in Inverse Design for Wave Propagation Problems](#)  
Organizers: Rasmus E. Christiansen (TU Denmark), Ole Sigmund (TU Denmark), Owen Miller (Yale U), and Eddie Wadbro (Karlstad U)
- 7 [Nonlinear Maxwell Equations](#)  
Organizers: Tomáš Dohnal (U Halle) and Giulio Romani (U Halle)
- 8 [Water Waves and Dispersive Equations](#)  
Organizers: Mats Ehrnström (NTNU Trondheim) and Gabriele Brüll (KIT)
- 9 [Wave Propagation in Periodic Structures: Analysis and Numerics](#)  
Organizers: Sonia Fliss (ENSTA Paris) and Ruming Zhang (KIT)
- 10 [Uncertainty Quantification for Waves](#)  
Organizers: Martin Frank (KIT) and Christian Wieners (KIT)
- 11 [Numerical Approaches to Wave Propagation in Complex Media](#)  
Organizers: Dietmar Gallistl (U Jena), Patrick Henning (U Bochum), and Barbara Verfürth (KIT)
- 12 [Wave Phenomena in Metamaterials and Metasurfaces](#)  
Organizers: Fatima Goffi (KIT) and Carsten Rockstuhl (KIT)
- 13 [Monotonicity Methods in Shape Reconstruction](#)  
Organizers: Roland Griesmaier (KIT) and Bastian von Harrach (U Frankfurt/Main)
- 14 [Mathematical Aspects of Wave Propagation in Plasmonic Structures](#)  
Organizer: Martin Halla (MPI Göttingen) and Lucas Chesnel (EP Palaiseau)
- 15 [The Stability of Nonlinear Waves](#)  
Organizers: Mat Johnson (U Kansas) and Björn de Rijk (KIT)
- 16 [Geometric Methods in Spectral Theory of Traveling Waves](#)  
Organizers: Chris Jones (U North Carolina) and Yuri Latushkin (U Missouri)
- 17 [Complete Integrability, Riemann–Hilbert Problems and Nonlinear Waves](#)  
Organizers: Christian Klein (U Bourgogne) and Bing-Ying Lu (U Bremen)
- 18 [Modelling and Inversion of Seismic Waves on the Global and Regional Scale](#)  
Organizers: Volker Michel (U Siegen), Naomi Schneider (U Siegen), and Karin Sigloch (Geoazur, Sophia Antipolis)
- 19 [Analysis and Numerics of Nonlinear Acoustic Waves in Relaxing Media](#)  
Organizers: Vanja Nikolić (Radboud U) and Belkacem Said-Houari (U Sharjah)
- 20 [Microlocal Concepts for Imaging by Waves](#)  
Organizers: Todd Quinto (Tufts U) and Andreas Rieder (KIT)
- 21 [Blow-up and Global Dynamics in Nonlinear Dispersive PDEs](#)  
Organizers: Sebastian Herr (Bielefeld U) and Birgit Schörkhuber (Innsbruck U)
- 22 [Stability and Instability in Fluids](#)  
Organizers: Christian Zillinger (KIT)

**Preliminary Program of Conference on Mathematics of Wave Phenomena, Karlsruhe, February 14-18, 2022**

**List of Contributed Talks sessions**

CT1 Jahnke, Carle, Schrammer

CT2 Melenk, Furuya, Kaya

CT3 Dörich, Leibold, Zerulla

CT4 Chandler-Wilde, Philipps, Ferrari

CT5 Duruk-Mutlubas, Pasquali, He

CT6 B, Yadav

CT7 Phan, Moriggl

CT8 Düll, Heß, Taraca, Klumpp

CT9 Fernandez-Corbaton, Lamprianidis, Vavilin

CT10 Fliss, Fritsch, Heleine

CT11 Moitier, Henninger, Kielwein

CT12 Ji, Yao

CT13 Bonnet-Ben Dhia, Carvalho

CT14 Rapun, Ivanyshyn Yaman, Le Louer, Liu

CT15 Hohage, Stocker, Müller

CT16 Lavrentiev, Feppon, Olkhovskiy

CT17 Oruc, Döding, Schiavone

CT18 Amenoagbadji, Beni Hamad, Gleichmann