

Seminar Working Group Nonlinear Partial Differential Equations

Winter Semester 2024/2025

22.10.24 - [Siliang Weng](#) (Doctoral Researcher @ KIT)
Magnetic Quantization and Phase Space Methods

29.10.24 - [Felix Brandt](#) (Postdoc @ TU Darmstadt)
Interaction of liquid crystals with a rigid body

05.11.24 - [Ferdinand Eitler](#) (Doctoral Researcher @ University of Augsburg)
Gradient integrability for bounded BD-minimizers

12.11.24 - Louis Garénaux (Postdoc @ KIT)
Existence of a monostable front for a KPP numerical scheme

19.11.24 - Emile Bukieda (Doctoral Researcher @ KIT)
Nonlinear Stability at the Eckhaus Boundary in case of a Shortwave Destabilization

26.11.24 - Two talks
11:30-12:15 [Wei Lian](#) (Postdoc @ Lund University)
Transverse instability of line periodic waves to the KP-I equation
12:15-13:00 [Maximilian Hanisch](#) (Doctoral Researcher @ Halle University)
- cancelled -

03.12.24 - Lukas Bengel (Doctoral Researcher @ KIT)
Soliton-based frequency combs in the Lugiato-Lefever equation

10.12.24 - Richard Nutt (Doctoral Researcher @ KIT)
Exponential Decay of the Linear Maxwell System due to Interior Conductivity

17.12.24 - Rebekka Zimmermann (Doctoral Researcher @ KIT)
Global regularity of 2D density patches for the incompressible inhomogeneous Navier-Stokes equations with largely varying viscosity coefficient

07.01.25 - Joannis Alexopoulos (Doctoral Researcher @ KIT)
- postponed to 11.02.25 -

14.01.25 - Sebastian Ohrem (Doctoral Researcher @ KIT)
Breather solutions for semilinear wave equations - Part 1

21.01.25 - Julia Henninger (Doctoral Researcher @ KIT)
Breather solutions for semilinear wave equations - Part 2

28.01.25 - Kevin Drescher (Doctoral Researcher @ KIT)
- cancelled -

04.02.25 - Robert Wegner (Doctoral Researcher @ KIT)
Gaussian White Noise (Script)

11.02.25 - Two talks
11:30-12:15 - [Martino Caliaro](#) (Doctoral Researcher @ Gran Sasso Science Institut (GSSI))
On the Gross-Pitaevskii flow past a delta potential in one dimension
12:15-13:00 - Joannis Alexopoulos (Doctoral Researcher @ KIT)
Nonlinear dynamics of periodic Lugiato-Lefever waves against nonlocalized perturbations