

Numerical and analytical approaches for nonlinear dispersive PDEs

Report of Contributions

Contribution ID: 2

Type: **not specified**

P. Gérard: Global wellposedness and soliton resolution for the half-wave maps equation with rational data on the line.

Monday, December 9, 2024 1:30 PM (45 minutes)

Contribution ID: 3

Type: **not specified**

Y. Alama Bronsard: Numerical approximations to nonlinear dispersive equations in non-smooth regimes

Monday, December 9, 2024 2:15 PM (45 minutes)

Contribution ID: 4

Type: **not specified**

C. Sun: Recent studies on the spectral (in-)stability of periodic traveling waves.

Monday, December 9, 2024 3:30 PM (45 minutes)

Contribution ID: 5

Type: **not specified**

J. Lampart: Superfluidity and the spectrum of polaron Hamiltonians

Tuesday, December 10, 2024 9:15 AM (45 minutes)

Contribution ID: 6

Type: **not specified**

C. Sulem: Bloch-Floquet band gaps for water waves over a periodic bottom

Tuesday, December 10, 2024 11:15 AM (45 minutes)

Contribution ID: 7

Type: **not specified**

D. Pelinovsky: Breathers on traveling wave background in BO and NLS-BO dispersive equations

Tuesday, December 10, 2024 1:30 PM (45 minutes)

Contribution ID: 8

Type: **not specified**

S. Gavriluk: Helicity in dispersive continuum mechanics

Tuesday, December 10, 2024 2:15 PM (45 minutes)

Contribution ID: 9

Type: **not specified**

M. Fasondini: Methods for computing PDEs in the complex plane

Tuesday, December 10, 2024 3:30 PM (45 minutes)

Contribution ID: **10**

Type: **not specified**

N. Stoilov: Spectral approaches to solutions that are non-trivial at infinity

Wednesday, December 11, 2024 9:15 AM (45 minutes)

Contribution ID: 11

Type: **not specified**

D. Tataru: The global well-posedness conjectures for 1D dispersive flows

Wednesday, December 11, 2024 10:00 AM (45 minutes)

Contribution ID: 12

Type: **not specified**

C. Lasser: Observing variational gaussian wave packets

Wednesday, December 11, 2024 11:15 AM (45 minutes)

Contribution ID: 13

Type: **not specified**

L. Gassot: Explicit formulas for the Benjamin-Ono equation

Wednesday, December 11, 2024 1:30 PM (45 minutes)

Contribution ID: 14

Type: **not specified**

A. Ostermann: Low Regularity Time Integration of the Boussinesq Equation

Wednesday, December 11, 2024 2:15 PM (45 minutes)

Contribution ID: 15

Type: **not specified**

G. Grahovski: On the N-wave hierarchy with constant boundary conditions

Wednesday, December 11, 2024 3:30 PM (45 minutes)

Contribution ID: 16

Type: **not specified**

S. Roudenko: Bi-harmonic NLS: well-posedness and soliton dynamics

Thursday, December 12, 2024 10:00 AM (45 minutes)

Contribution ID: 17

Type: **not specified**

L. Jeanjean:

Thursday, December 12, 2024 11:15 AM (45 minutes)

Contribution ID: **18**

Type: **not specified**

J. Sjöstrand: Polarization approach to certain singular integrals

Thursday, December 12, 2024 1:30 PM (45 minutes)

Contribution ID: 19

Type: **not specified**

P. Perry: Long-time asymptotics for the Kadomtsev-Petviashvili I Equation

Thursday, December 12, 2024 2:15 PM (45 minutes)

Contribution ID: 20

Type: **not specified**

S. Abenda: KP2 real multi-line solitons: the role of combinatorics and tropical geometry in the direct and inverse spectral problems

Thursday, December 12, 2024 3:30 PM (45 minutes)

Contribution ID: 21

Type: **not specified**

F. Valet: Collision of two solitary waves for the Zakharov-Kuznetsov equation

Friday, December 13, 2024 9:15 AM (45 minutes)

Contribution ID: 22

Type: **not specified**

E. de Leon: Parametrical numerical approximation of equations of the type $\partial_t u = f(t,x,u)$

Friday, December 13, 2024 10:00 AM (45 minutes)

Contribution ID: 23

Type: **not specified**

J.-C. Saut: Shock formation for weakly dispersive perturbations of the Burgers equation

Friday, December 13, 2024 11:15 AM (45 minutes)