

Nonlinear Partial Differential Equations

Boundary value problems and equations arising in fluid mechanics

Location: SU, Kräftriket, Building 5, room 33

- **Thursday, March 17**

14:00 – 14:25 Helge Holden, The Camassa–Holm Equation — A Survey

14:30 – 14:55 Anna Geyer, On the wave length of smooth periodic traveling waves of the Camassa-Holm equation

15:00 – 15:25 Irina Markina, Non-holonomic geodesic equations on the group of diffeomorphisms of the unit circle

Coffee break

16:00 – 16:25 Joachim Escher, On some geodesic flows on Fréchet–Lie groups

16:30 – 16:55 Hans Lundmark, Some recent advances in the study of peakons

17:00 – 17:25 François Genoud, Stable solitons of the cubic-quintic NLS with a delta-function potential

- **Friday, March 18**

14:00 – 14:25 Mark Groves, Three-Dimensional Solitary Water Waves with Weak Surface Tension

14:30 – 14:55 Vladimir Kozlov, Bounds for rotational water waves

15:00 – 15:25 Evgeniy Lokharu, Quasi-periodic steady water waves with vorticity

Coffee break

16:00 – 16:25 Dag Nilsson, Internal gravity-capillary solitary waves in finite depth

16:30 – 16:55 Gabriele Brüll, On decay and symmetry of traveling wave solutions to the Whitham equation

17:00 – 17:25 Mathias Arnesen, Non-uniform dependence on initial data for the Whitham equation

18:00 – 18:25 Erik Lindgren, Approximation of the least Rayleigh quotient for homogeneous functionals

• **Saturday, March 19**

14:00 – 14:25 Alexander Minakov, Modulated elliptic wave and a train of asymptotic solitons in a vicinity of the leading edge for MKdV

14:30 – 14:55 Dmitry Shepelsky, The short pulse equation by a Riemann-Hilbert problem approach

15:00 – 15:25 Lynnyngs Kelly Arruda, Stability of periodic traveling waves for a modified b-family equation