Schedule GAMM PDE meeting
Eindhoven, 27 – 29 September 2017

Wednesday, September 27

13:00 – 14:00   *Coffee*

14:00 – 14:10   *Opening*

14:10 – 14:55   Gero Friesecke (TU Munich)
Curse of dimension and nonlinearity in partial differential equations

14:55 – 15:40   Matthias Röger (TU Dortmund)
Charged elastic drops

15:40 – 16:10   *Coffee break*

16:10 – 16:40   Johannes Kampmann (Uni Regensburg)
Analysis of a coupled bulk-surface model for lipid raft formation in cell membranes and its connection to the Ohta-Kawasaki model

16:40 – 17:10   Athanasios Stylianou (Uni Kassel)
Modelling pattern formation on the surface of a ferrofluid

17:10 – 17:40   Stephan Wackerle (Fraunhofer ITWM)
Homogenization and dimension reduction for a textile shell

20:00   *Dessert party*

Thursday, September 28

8:30 – 9:00   *Coffee*

9:00 – 9:45   Felix Otto (MPI Leipzig)
                 Parallelisms between stochastic PDE and sto-
                 chastic homogenization
9:45 – 10:30   Hermen Jan Hupkes (Leiden University)
                 Discretization Schemes vs Travelling Waves
                 for Reaction-Diffusion Systems

10:30 – 11:00   *Coffee break*

11:00 – 11:30   Patrick Dondl (Uni Freiburg)
                 Gradient flow in a Phase Field Model for
                 Dislocations with Forest Hardening
11:30 – 12:00   Fabian Christowiak (Uni Regensburg)
                 Homogenization of layered materials with di-
                 verging elastic constants
12:00 – 12:30   Georg Prokert (TU Eindhoven)
                 Well-posedness for a moving boundary model
                 of an evaporation front in a porous medium

12:30 – 14:00   *Lunch*

14:00 – 14:45   Alexander Mielke (WIAS Berlin)
                 Perspectives for gradient flows
14:45 – 15:30   Mark Veraar (TU Delft)
                 Polynomial stability of semigroups and clas-
                 sical solutions to PDEs

15:30 – 16:00   *Coffee break*

16:00 – 16:30   Martin Heida (WIAS Berlin)
                 On G-convergence and stochastic two-scale
                 convergences of the squareroot approximation
                 scheme to the Fokker-Planck operator
16:30 – 17:00   Julia Orlik (Fraunhofer ITWM)
                 Stability conditions and energy estimates for
                 periodic frame structures made of thin beams

17:00 – 18:00   GAMM Activity group meeting

19:00   *Conference dinner at* The Effenaar

Friday, September 29

8:30 – 9:00   *Coffee*

9:00 – 9:45   Herbert Koch (Uni Bonn)
               The analysis of nonlinear dispersive waves
9:45 – 10:30   Stephan Luckhaus (Uni Leipzig)
               Geometric rigidity and dislocations

10:30 – 11:00 *Coffee break*

11:00 – 11:30 Matthias Köhne (Uni Düsseldorf)
               On Global Strong Solutions for a Class of Heterogeneous Catalysis Models
11:30 – 12:00 Clemens Förster (Uni Leipzig)
               Piecewise constant subsolutions for the incompressible Porous Media Equation
12:00 – 12:45 Christian Kuehn (TU Munich)
               Dynamics of Nonlocal PDEs

12:45 – 14:00 *Lunch*