

# DGD Days 2017

4<sup>th</sup> to 6<sup>th</sup> October 2017 at the TUM Study and Science Centre, Kloster Raitenhaslach

## Tuesday, 03.10.17

- Approx. 19:15 Shuttle service to Burghausen from Munich Airport for flight arrivals from Berlin
- Approx. 21:00 Arrivals at Hotel Glöcklhofer, Burghausen & light supper

## Wednesday, 04.10.17

- 07:30 - 9:00 Breakfast in Hotel Glöcklhofer
- 09:15 Shuttle service to Kloster Raitenhaslach from Hotel Glöcklhofer
- 09:25 Shuttle service from Burghausen Station (Munich arrivals) to Kloster Raitenhaslach
- 09:30 – 10:00 Registration**
- 10:05 – 11:00 Key Note Speaker**  
**Franz Pedit: Conformal flows minimizing the bending energy for curves and surfaces**
- 11:00 - 11:30 Coffee Break
- 11:30 - 12:00 Grzegorz Jablonski: Persistence in sampled dynamical systems faster**
- 12:00 - 12:30 Nada Sissouno: Compressed sensing and dynamical systems**
- 12:30 – 14:00 Lunch followed by short guided tours of the Abbey
- 14:45 – 18:15 Workshops & thematic discussion groups:**
- Flexible Coffee breaks:**  
**16:00 – 16:45**
- M. Evans & J. Sullivan: Geometry of a double helix
  - F. Kraemer: Analog-to-digital conversion as a dynamical system
  - U. Bauer & H. Edelsbrunner: Delaunay triangulations and circular nets
  - J. Richter-Gebert, M. Strobel & A. Montag: Workshop on CindyJS
  - Work in Groups
- 18:30 - 20:00 Dinner in the Klostergasthof, Raitenhaslach
- 20:00 Open scientific exchange / Board Meeting**
- 21:30 Shuttle service from Raitenhaslach to Hotel Glöcklhofer

## Thursday, 05.10.17

- 07:30 - 9:00 Breakfast in Hotel Glöcklhofer
- 09:00 Shuttle service to Kloster Raitenhaslach from Hotel Glöcklhofer
- 09:15 – 10:15 Key Note Speaker**  
**Stephan Tillmann: Convex Projective Manifolds**
- 10:15 - 10:45 Arseniy Arkopyan: Circle configurations and integrable systems**
- 10:45 - 11:15 Coffee Break

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## Thursday, 05.10.17, continued

- 11:15 - 12:00      **Boris Springborn: Discrete uniformization of spheres**
- 12:00 - 12:30      **Michael Kraus: On the structure-preserving discretization of noncanonical Hamiltonian systems**
- 12:30 – 13:45      *Lunch*
- 13:45                **SFB General Assembly** (Professors and PostDocs)
- 14:30 – 18:00      **Workshops & thematic discussion groups:**
- Flexible Coffee breaks:*
- 15:45 – 16:30
  - G. Kutyniok, S. Keiper & P. Petersen: Approximation with Deep Neuronal Networks
  - U. Pinkall & G. Friesecke: Geometry and Elasticity
  - R. Loewe & M. Radons: Polymake Workshop
  - Work in Groups
- 18:00 - 19:30      *Dinner*
- 19:45                *Shuttle to Burghausen Castle: Guided tours of the castle in German and English*

## Friday, 06.10.17

- 07:30 - 9:00        *Breakfast in Hotel Glöcklhofer*
- 09:00                *Shuttle service to Kloster Raitenhaslach from Hotel Glöcklhofer*
- 09:15 – 10:00      **Helmut Pottmann / Johannes Wallner: Geometry of force equilibrium**
- 10:00- 10:30      **Albert Chern: Inside Fluids: Clebsch maps for Visualization and Processing**
- 10:30 - 11:00      *Coffee Break*
- 11:00 - 11:45      **Anton Nikitenko: A discrete topological approach to questions in stochastic geometry**
- 11:45 - 12:15      **Sara Krause-Solberg: A tractable approach for one-bit compressed sensing on manifold**
- 12:15 – 13:45      *Lunch*
- 13:45 – 16:30      **Workshops & thematic discussion groups:**
- G. Kutyniok, S. Keiper & P. Petersen: Approximation with Deep Neuronal Networks
  - O. Junge & D. Karrasch: Dynamically induced geometric heat flows
  - U. Bücking & B. Springborn: Dimer models and discrete complex analysis
  - Felix Krahmer & U. Bauer: Topological data analysis and signal processing
  - Work in Groups
- 16:30 – 17:00      *Coffee and Snacks*
- 17:15                **DEPARTURES:**  
*Transfers to Burghausen Station and Munich Airport*