

08

Thursday 08.10.2015

07:30 Breakfast

09:00 **Francisco Santos**  
Enumerating lattice 3-polytopes

10:00 **Jean-Philippe Labb  **  
Bounding the discrepancy of odd-equal triangulations of the square

10:30 Coffee Break

11:00 **Christian Lubich**  
Dynamical low-rank approximation

12:00 Lunch

15:00 **Philipp Petersen**  
Anisotropic multiscale systems on bounded domains

15:40 **Wai Yeung Lam**  
Discrete minimal surfaces: critical points of the area functional from integrable systems

16:05 Coffee Break

16:30 **Alexander Gaifullin**  
On the bellows conjecture in spaces of constant curvature

17:35 **Nikolay Dimitrov**  
Discrete uniformization via hyper-ideal circle patterns

18:30 Dinner

20:00 **Wolfgang Carl**  
On semidiscrete constant mean curvature surfaces and their associated families

09

Friday 09.10.2015

07:30 Breakfast

09:00 **Sheehan Olver**  
Practical infinite-dimensional linear algebra

10:00 **Matteo Petrera**  
Discrete pluri-Lagrangian systems

10:30 Coffee Break

11:00 **Mats Vermeeren**  
Modified equations for variational integrators  
11:35 **G  nter Rote**  
Optimal homotopic systems of paths

12:00 Lunch

Schedule International Conference

## Discretization in Geometry and Dynamics

5<sup>th</sup> – 9<sup>th</sup> October 2015

Herrsching am Ammersee



### Information

Please clear your room by 9am on Friday morning.

A list of transfer times to the tube-station in Herrsching is on display in the main hall!

Please check out in good time to catch your transfer.

**05**

## Monday 05.10.2015

**11:00** Registration

**12:00** Lunch

**15:00** Welcoming words  
Alexander I. Bobenko

**15:15** **Melvin Leok**  
Space-time finite-element exterior calculus and variational discretizations of gauge field theories

**16:15** Coffee Break

**16:45** **Tudor Ratiu**  
Multisymplectic variational integrators for non-smooth Lagrangian continuum mechanics

**17:50** **Simon Plazotta**  
Existence and long-time behaviour of solutions of gradient flows with time dependent perturbation

**18:30** Dinner

**20:00** **Helmut Pottmann**  
Polyhedral patterns

**20:35** **Ulrike Bücking**  
Approximation of conformal mappings using conformally equivalent triangular lattices

**06**

## Tuesday 06.10.2015

**07:30** Breakfast

**09:00** **J.M. Sanz-Serna**  
Symplectic Runge-Kutta methods in non-symplectic applications

**10:00** **Massimo Fornasier**  
Discretization of evolutions of critical points and applications in fracture simulation

**10:30** Coffee Break

**11:00** **Eric Cancès**  
Discretization of implicit solvent models for molecular dynamics and quantum chemistry

**12:00** Lunch

**15:00** **Gero Friesecke**  
X-ray imaging, discrete symmetries, and phase retrieval

**15:35** **Felix Günther**  
A report on the relation between discrete spinors and discrete holomorphicity

**16:05** Coffee Break

**16:30** **Herbert Edelsbrunner**  
TDA with Bregman distances

**17:30** **Anton Nikitenko**  
The expected number of critical Delaunay simplices of a 3-dimensional Poisson point process

**18:30** Dinner

**20:00** Executive Board meeting/open scientific exchange

**07**

## Wednesday 07.10.2015

**07:30** Breakfast

**09:00** **Sergei Tabachnikov**  
Iterating evolutes and involutes

**10:00** **Felix Knöppel**  
Complex line bundles over simplicial complexes

**10:30** Coffee Break

**11:00** **Karl-Theodor Sturm**  
Super-Ricci flows for metric measure spaces

**12:00** Lunch

**15:00** **Wolfgang Schief**  
Circle complexes and the discrete CKP equation

**15:40** **Moritz Firsching**  
Realizability and inscribability of simplicial polytopes

**16:05** Coffee Break

**16:30** **Pavle Blagojević**  
Equivariant problems of convex geometry

**17:15** **Lauri Loiskekoski**  
Separation in the graph of a simple polytope

**17:50** **Florian Pausinger**  
Approximation of intrinsic volumes

**18:30** Dinner

**20:00** General Assembly  
SFB/TRR109