



**Thursday** 28.11.2013

**8:00** Breakfast

**9:00** Geometry and Combinatorics

**Ileana Streinu (C01)**

Keep it Simple: Maxwell's Problem: from bridges to nano-mechanics (45 min)

**Jean-Philippe Labbé (A03)**

Current research: The discrepancy of odd-equal-area triangulations of the square (30 min)

**Günter Rote (A07)**

Current research: Optimal triangulation of saddle surfaces (25 min)

**10:45 – 11:00** Coffee break

**Ileana Streinu (C01)**

Current research: Periodic Maxwell's Theorem, with applications (30 min)

**Günter Rote (A07)**

"Collapse" (50 min)

**12:30** Lunch

**15:00** Pluri Lagrangian B07

**Yuri Suris**

Basics of discrete and continuous pluri-Lagrangian systems (60 min)

**16:15 – 16:45** Coffee break

**Matteo Petrer**

Integrability of discrete variational systems (45 min)

**Alexander Bobenko**

Linear pluri-Lagrangian systems: discrete pluriharmonic functions (45 min)

**18:30** Dinner

**20:00** Interest Groups/Scientific Exchange



**Friday** 29.11.2013

**8:00** Breakfast

**9:00** Open Scientific Exchange

**10:30** Morning Coffee

**11:30** Departures

**11:49** Lichtenfels – München

**12:10** Lichtenfels – Berlin

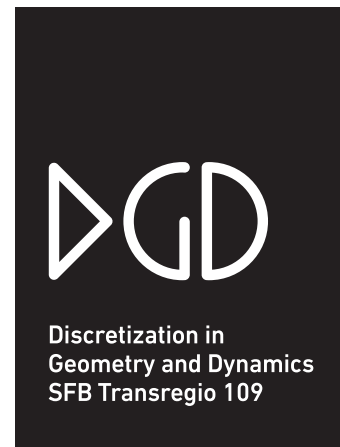


## Information

Please inform yourself of the time of your return-transfer to the train station at Lichtenfels.

**A list of the transfer times is on display at the reception!**

Please check out in good time to catch your transfer.



## Schedule SFB Workshop Lichtenfels, 2013



**Monday 25.11.2013**

**12:30 Arrivals**

**12:30 Lunch**

**15:00 Project A10**

**Gitta Kutyniok**

Keep it Simple: What are Shearlets? (60 min)

**Wang-Q Lim**

Edge analysis using highly localized shearlets Part 1: 2D edge analysis and geometric separation schemes to separate morphologically different contents such as curves (edges) and points (30 min)

**Philipp Petersen**

Edge analysis using highly localized shearlets Part 2: 2D and 3D Edge Classification using the shearlet transform by compactly supported shearlets (30 min)

**17:00 – 17:30 Coffee break**

**Daniel Matthes**

An Introduction to Optimal Transport and its Lagrangian Discretization (40 min)

**Horst Osberger**

Numerics for Gradient Flows (20 min)

**18:30 Dinner**

**20:00 Speed Dating**



**Tuesday 26.11.2013**

**8:00 Breakfast**

**9:00 DGD and its relation to Architecture**

**Helmut Pottmann**

Discrete differential geometry and freeform architecture (60 min)

**10:00 – 10:15 Coffee break**

**Florian Käferböck**

Discrete affine structures and low degree splines (50 min)

**Christian Müller**

Discretizing holomorphic maps and minimal surfaces with conical nets (50 min)

**12:30 Lunch**

**15:00 CMC Surfaces (A02)**

**Benno König**

S-conical minimal nets: a local geometric construction and their associated family (40 min)

**Stefan Sechelmann**

Constructing discrete minimal surfaces of s-conical type from orthogonal circle patterns: examples (20 min)

**16:00 – 16:30 Coffee break**

**Tim Hoffmann**

What we know and what we don't know about discrete cmc and minimal nets (40 min)

**Wolfgang Schief**

Gaussian (and mean) curvature(s) for discrete asymptotic nets (40 min)

**18:30 Dinner**

**20:00 Interest Groups/Scientific Exchange**



**Wednesday 27.11.2013**

**8:00 Breakfast**

**9:30 Physics and related topics**

**Caroline Lasser (B06)**

Keep it Simple: Quantum dynamics (45 min)

**Johannes Keller (B06)**

Current research: Hellmann-Feynman theory for Coulomb systems (45 min)

**11:00 – 11:15 Coffee break**

**Fernando Jimenez (B04)**

Current research: An elucidating example: the nonholonomic particle. (30 min)

**Yuen Au Yeung (B08)**

Current research: Crystalline Order, Surface Energy Densities and Wulff Shapes: Emergence from Atomistics (and bond-counting)

**12:30 Lunch**

**15:00 Discrete Conformality**

**Boris Springborn**

Open question: The dimer model and hyperbolic geometry

**15:40 – 16:10 Coffee break**

**Lara Skuppin**

Piecewise projective interpolation and discrete quasiconformal distortion (50 min)

**Felix Günther**

Discrete complex analysis on quad graphs (40 min)

**Ulrike Bücking**

Approximation of conformal maps by circle patterns

**18:30 Dinner**

**20:00 DGD General Assembly**