

BMS/SFB Summer School 2013. Discrete Differential Geometry

First week

All lectures take place in **Room MA 041** (follow the signs), Institute of Mathematics, TU Berlin, Strasse des 17. Juni 136, 10623 Berlin

Registration starts Monday 8:30.

	Monday 09	Tuesday 10	Wednesday 11	Thursday 12	Friday 13
9:30 – 11:00	<i>Pentagram map, the first 21 years</i> Serge Tabachnikov	<i>Pentagram map, the first 21 years</i> Serge Tabachnikov	<i>Introduction to Yang-Baxter equation and statistical mechanics</i> Vladimir Bazhanov	<i>Introduction to Yang-Baxter equation and statistical mechanics</i> Vladimir Bazhanov	<i>An introduction to Teichmüller theory from the triangulation point of view</i> Feng Luo
11:00 – 11:30	coffee break	coffee break	coffee break	coffee break	coffee break
11:30 – 13:00	<i>A unified approach to smooth and discrete curvatures using Cartan's moving frames</i> Max Wardetzky	<i>A unified approach to smooth and discrete curvatures using Cartan's moving frames</i> Max Wardetzky	<i>Applied Harmonic Analysis meets Geometry</i> Gitta Kutyniok	<i>Applied Harmonic Analysis meets Geometry</i> Gitta Kutyniok	<i>Applied Harmonic Analysis meets Geometry</i> Gitta Kutyniok
13:00 – 14:30	lunch break	lunch break	lunch break	lunch break	lunch break
14:30 – 16:00	<i>Pentagram map, the first 21 years</i> Serge Tabachnikov	<i>Introduction to Yang-Baxter equation and statistical mechanics</i> Vladimir Bazhanov	<i>A unified approach to smooth and discrete curvatures using Cartan's moving frames</i> Max Wardetzky	<i>An introduction to Teichmüller theory from the triangulation point of view</i> Feng Luo	<i>An introduction to Teichmüller theory from the triangulation point of view</i> Feng Luo

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Second week

	Monday 16	Tuesday 17	Wednesday 18	Thursday 19	Friday 20
9:30 – 11:00	<i>The Lagrangian theory of discrete integrable systems</i> Yuri Suris	<i>Projective differential geometry of surfaces: integrable structure and discretization</i> Wolfgang Schief	<i>Conformal deformations of surfaces</i> Ulrich Pinkall	<i>The Lagrangian theory of discrete integrable systems</i> Yuri Suris	<i>The Lagrangian theory of discrete integrable systems</i> Yuri Suris
11:00 – 11:30	coffee break	coffee break	coffee break	coffee break	coffee break
11:30 – 13:00	<i>Conformal deformations of surfaces</i> Ulrich Pinkall	<i>Novel algorithms of 3D shape analysis</i> Daniel Cremers	<i>Convex relaxations for image segmentation</i> Daniel Cremers	<i>Projective differential geometry of surfaces: integrable structure and discretization</i> Wolfgang Schief	<i>Projective differential geometry of surfaces: integrable structure and discretization</i> Wolfgang Schief
13:00 – 14:30	lunch break	lunch break	lunch break	lunch break	lunch break
14:30 – 16:00	<i>Geometric reconstruction from images</i> Daniel Cremers	<i>Integrable systems and discrete Dirac operator</i> Vladimir Fock	<i>Integrable systems and discrete Dirac operator</i> Vladimir Fock	<i>Conformal deformations of surfaces</i> Ulrich Pinkall	<i>Integrable systems and discrete Dirac operator</i> Vladimir Fock
Evening events		19:00 Book presentation: G. M. Ziegler, <i>Mathematik – das ist doch keine Kunst</i> [German]			17:00 Film screening: <i>Colors of Math</i> [English]