

## Workshop IV: Quasiconformal Geometry and Elliptic PDEs

### Monday May 20, 2013

- 8:30–9:25 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:25–9:30 *Welcome and Opening Remarks*
- 9:30–10:30 **Gaven Martin** (Massey University)  
*Kari Astala: life and work*
- 10:30–11:00 *Break*
- 11:00–11:50 **Daniel Faraco** (Autonomous University of Madrid)  
*Recovery of Rough Potentials in the plane*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–2:50 **Istvan Prause** (University of Helsinki)  
*Area distortion, quasicircles and harmonic measure*
- 3:00–3:15 *Break*
- 3:15–4:05 **Jani Onninen** (Syracuse University)  
*Existence of 2D traction free minimal deformations*
- 4:15–4:30 *Break*
- 4:30–5:20 **Michel Zinsmeister** (Université d'Orléans)  
*Exact solutions of Beliaev-Smirnov type equations*
- 5:30–7:00 *Reception (Location: IPAM Lobby)*

### Tuesday May 21, 2013

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:20 **Gregory Miermont** (École Normale Supérieure de Lyon)  
*Random maps and 2-dimensional random geometries*
- 10:30–11:00 *Break*

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- 11:00–11:50 **Joan Lind** (University of Tennessee)  
*Loewner Curvature*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–2:50 **Brent Werness** (University of Washington)  
*Uniformization and CLE Carpets*
- 3:00–3:30 *Break*
- 3:30–4:20 **Jarmo Jaaskelainen** (Autonomous University of Madrid)  
*Nonlinear Beltrami Equations: Uniqueness and QC Families*
- 6:00 *Dinner Banquet to Honor Kari Astala (UCLA Faculty Center)*

### Wednesday May 22, 2013

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Pekka Koskela** (University of Jyväskylä)  
*Boundary blow up under Sobolev mappings*
- 10:00–10:15 *Break*
- 10:15–11:05 **James Gill** (Saint Louis University)  
*Distributional Limits, Doubling Metric Spaces, and a Lemma*
- 11:15–11:30 *Break*
- 11:30–12:20 **Marianna Csörnyei** (University of Chicago)  
*Modulus of continuity of Sard theorem*
- 12:30 *Afternoon Free*

### Thursday May 23, 2013

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:20 **Jang-Mei Wu** (University of Illinois at Urbana-Champaign)  
*On Semmes Spaces*
- 10:30–11:00 *Break*

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- 11:00–11:50 **Dapeng Zhan** (Michigan State University)  
*Reversibility of Backward SLE Lamination*
- 12:00–2:00 *Lunch (on your own)*
- 2:00–2:50 **Jason Miller** (Massachusetts Institute of Technology)  
*Imaginary Geometry and the Gaussian Free Field*
- 3:00–3:15 *Break*
- 3:15–4:05 **Maria Gonzalez** (University of Cádiz)  
*Geometry of quasicircles and Beurling type operators*
- 4:15–4:30 *Break*
- 4:30–5:20 **Stanislav Hencl** (Charles University)  
*Sobolev and BiSobolev homeomorphisms with zero Jacobian almost everywhere*

### Friday May 24, 2013

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Michael Lacey** (Georgia Institute of Technology)  
*The Two Weight Inequality for the Hilbert Transform*
- 10:00–10:15 *Break*
- 10:15–11:05 **Izabella Laba** (University of British Columbia)  
*On the sharpness of Mockenhaupt's restriction estimate*
- 11:15–11:30 *Break*
- 11:30–12:20 **Xavier Tolsa** (Universitat Autònoma de Barcelona)  
 *$L^2$  boundedness of Riesz transforms and rectifiability*
- 12:30 *Conclusion*

