Geometry, Statistical Mechanics, and Integrability Tutorials

Tuesday March 12, 2024

8:00–8:55 *Check-in/Breakfast (hosted by IPAM)*

8:55–9:00 *Welcome and Opening Remarks*

9:00–10:15 **Nathanael Berestycki** (University of Vienna)
Gaussian free field and Schramm–Loewner Evolution (Part 1)

10:15–10:45 *Break*

10:45–12:00 **Cédric Boutillier** (Sorbonne Université)
Dimer models and random tilings (Part 1)

12:00–12:30 *Core Orientation with IPAM Staff*

12:30–2:00 *Lunch (on your own)*

2:00–3:15 **Greta Panova** (University of Southern California (USC))
Symmetric Functions (Part 1)

3:15–3:45 *Break*

3:45–5:00 **Pavel Galashin** (University of California, Los Angeles (UCLA))
Introduction to cluster algebras (Part 1)

Wednesday March 13, 2024

8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*

9:00–10:15 **Eveliina Peltola** (Aalto University)
Gaussian free field and Schramm–Loewner Evolution (Part 2)

10:15–10:45 *Break*

10:45–12:00 **Terrence George** (University of California, Los Angeles (UCLA))
Introduction to cluster algebras (Part 2)

12:00–2:00 *Lunch (on your own)*

2:00–3:15 **Greta Panova** (University of Southern California (USC))
Symmetric Functions (Part 2)

3:15–3:45 *Break*

3:45–5:00 **Tomas Berggren** (Massachusetts Institute of Technology)
Dimer models and random tilings (Part 2)

Thursday March 14, 2024

8:00–9:00	*Check-in/Breakfast (hosted by IPAM)*
9:00–10:15	**Marcin Lis** (Vienna University of Technology) *Embeddings & Statistical Mechanics (Part 1)*
10:15–10:45	*Break*
10:45–12:00	**Marianna Russkikh** (University of Notre Dame) *Embeddings & Statistical Mechanics (Part 2)*
12:00–2:00	*Lunch (on your own)*
2:00–3:15	**Leonid Petrov** (University of Virginia) *From Random Tilings to Integrable Vertex Models (Part 1)*
3:15–3:45	*Break*
3:45–5:00	**Sanjay Ramassamy** (Centre National de la Recherche Scientifique (CNRS)) *Introduction to Discrete Integrable Systems (Part 1)*

Friday March 15, 2024

8:00–9:00	*Check-in/Breakfast (hosted by IPAM)*
9:00–10:15	**Leonid Petrov** (University of Virginia) *From Random Tilings to Integrable Vertex Models (Part 2)*
10:15–10:45	*Break*
10:45–12:00	**Niklas Affolter** (Technische Universität Berlin) *Introduction to Discrete Integrable Systems (Part 2)*
12:00–2:00	*Lunch (on your own)*
2:00–3:15	*Research Groups Discussion*
3:15–3:45	*Break*