

Optimal Transport: Tutorials

Tuesday March 11, 2008

- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–11:00 **Qinglan Xia** (University of California, Davis (UC Davis))
Introduction to Monge-Kantorovich problem and optimal transport paths
- 11:00–11:30 *Break*
- 11:30–12:30 *IPAM Orientation*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–3:00 **Adam Oberman** (Simon Fraser University)
Introduction to the Monge-Ampere equation and mass transportation
- 3:00–3:30 *Break*
- 3:30–5:00 **Maria D’Orsogna** (California State University, Northridge (CSU Northridge))
Discrete models for swarming

Wednesday March 12, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:30 **Martial Agueh** (University of Victoria)
Introduction to JKO schemes for PDEs (Part 1)
- 10:30–11:00 *Break*
- 11:00–12:00 **William Zame** (University of California, Los Angeles (UCLA))
Matching theory and Optimal Transport, part 1
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:30 **Martial Agueh** (University of Victoria)
Introduction to JKO schemes for PDEs (Part 2)
- 3:30–4:00 *Break*
- 4:00–5:00 **Andrea Bertozzi** (University of California, Los Angeles (UCLA))
Continuum models for swarming
- 5:00–7:00 *Reception (Location: IPAM Lobby)*



Thursday March 13, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:30 **Jose Carrillo** (Autonomous University of Barcelona)
- 10:30–11:00 *Break*
- 11:00–12:00 **Adam Oberman** (Simon Fraser University)
The Monge-Ampere equation and the Semi-Geostrophic equations
- 12:00–2:00 *Lunch (on your own)*
- 3:15–4:45 **Andrea Bertozzi** (University of California, Los Angeles (UCLA))
4th order PDEs

Friday March 14, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–10:30
TBA
- 10:30–11:00 *Break*
- 11:00–12:00 **William Zame** (University of California, Los Angeles (UCLA))
Matching theory and Optimal Transport, part 2
- 12:00–2:00 *Lunch (on your own)*
- 2:00–3:30 **Bjorn Birnir** (University of California, Santa Barbara (UC Santa Barbara))
The Mathematical Theory of SOC Systems with Applications to the Evolution of the Earth's Surface

