Programme on
“Infinite-dimensional Riemannian geometry with applications to image matching and shape analysis”
January 7 – February 27, 2015

organized by
Martin Bauer (U Vienna), Martins Bruveris (Brunel), Peter W. Michor (U Vienna)

Week 3
“Currents, surfaces and manifolds of mappings”
January 26 – 30, 2015

• Tuesday, January 27, 2015
  9:00 – 10:00 Tudor Ratiu
  Representations of continuum mechanics models
  10:00 – 10:30 Coffee break
  10:30 – 11:30 Boris Khesin
  Steady Euler flows on hyperbolic plane

• Wednesday, January 28, 2015
  10:00 – 11:00 Stephen Preston
  The geometry of whips and chains
  15:45 – 17:00 Adrian Nachman
  Reconstruction method for the Calderon problem
  Organised by Otmar Scherzer as part of the mathematical colloquium. The talk takes place at the Sky Lounge of the Faculty of Mathematics, Oskar-Morgenstern-Platz 1.

• Thursday, January 29, 2015
  10:00 – 10:45 Kathrin Welker
  A Riemannian view on PDE constrained shape optimization

• Friday, January 30, 2015
  9:00 – 10:00 Yuri Neretin
  The space of holomorphic functionals on the space of univalent functions and actions of the group of diffeomorphisms of the circle
  10:00 – 10:30 Coffee break
  10:30 – 11:00 Boris Khesin
  Symplectic fluids and point vortices

All talks except A. Nachman’s take place at the ESI, Boltzmann Lecture Hall.