

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, 201510:00 – 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.**