

**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 4**

**“Geometry of optimal transport”**

**February 2 – 6, 2015**

• **Tuesday, February 3, 2015**

9:00 – 10:00 **Facundo Mémoli**

*The shape space defined by the Gromov–Wasserstein distance*

10:00 – 10:30 *Coffee break*

10:30 – 11:15 **Gerard Misiołek**

*Geometry and analysis of the incompressible Euler equations I*

• **Wednesday, February 4, 2015**

9:00 – 10:00 **Gabriel Peyré**

*A review of Wasserstein barycenter algorithms, with a new one*

10:00 – 10:30 *Coffee break*

10:30 – 11:15 **Gerard Misiołek**

*Geometry and analysis of the incompressible Euler equations II*

• **Thursday, February 5, 2015**

9:15 – 10:00 **Bernhard Schmitzer**

*Contour manifolds and optimal transport in variational image segmentation*

10:00 – 10:30 *Coffee break*

10:30 – 11:15 **Gerard Misiołek**

*Geometry and analysis of the incompressible Euler equations III*

- **Friday, February 6, 2015**

9:00 – 10:00 **Karl–Hermann Neeb**

*Realization of reducible positive energy representations of the Virasoro group in spaces of holomorphic section*

10:00 – 10:30 *Coffee break*

10:30 – 11:15 **Gerard Misiólek**

*Geometry and analysis of the incompressible Euler equations IV*

**All talks take place at the ESI, Boltzmann Lecture Hall.**