

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 2

“Geometry of the diffeomorphism group”

January 19 – 23, 2015

• **Monday, January 19, 2015**

10:00 – 10:30 *Morning coffee*

10:30 – 11:30 **Peter W. Michor**

Overview on convenient calculus and differential geometry in infinite dimensions, with applications to diffeomorphism groups and shape spaces I

• **Tuesday, January 20, 2015**

09:00 – 10:00 **Cornelia Vizman**

Coadjoint orbits of diffeomorphism groups via dual pairs

10:00 – 10:30 *Coffee break*

10:30 – 11:30 **Peter W. Michor**

Overview on convenient calculus and differential geometry in infinite dimensions, with applications to diffeomorphism groups and shape spaces II

• **Wednesday, January 21, 2015**

10:00 – 10:30 *Morning coffee*

10:30 – 11:30 **Peter W. Michor**

Overview on convenient calculus and differential geometry in infinite dimensions, with applications to diffeomorphism groups and shape spaces III

16:15 – 17:00 **David Ebin**

Constraining forces and problems of fluid motion

The talk takes place at the Sky Lounge of the Faculty of Mathematics, Oskar-Morgenstern-Platz 1.

- **Thursday, January 22, 2015**

9:15 – 10:00 **Leandro Lichtenfelz**

Nonuniqueness of solutions of the Navier–Stokes equations on negatively curved manifolds

10:00 – 10:30 *Coffee break*

10:30 – 11:30 **Peter W. Michor**

Overview on convenient calculus and differential geometry in infinite dimensions, with applications to diffeomorphism groups and shape spaces IV

- **Friday, January 23, 2015**

10:00 – 10:30 *Morning coffee*

10:30 – 11:30 **Peter W. Michor**

Overview on convenient calculus and differential geometry in infinite dimensions, with applications to diffeomorphism groups and shape spaces V

All talks except D. Ebin's take place at the ESI, Boltzmann Lecture Hall.