

Cartan Connections, Geometry of Homogeneous Spaces, and Dynamics

Schedule of talks, week two, July 18 - 22, 2011

organized by Andreas Cap, Charles Frances, Karin Melnick

- **Monday, July 18**

09:00 – 09:30 Welcome and registration

09:30 – 10:30: A. Čap (Univ. Vienna, Austria)

Introduction to Cartan geometries

10:30 – 11:00: coffee break

11:00 – 12:00: K. Neusser (ANU, Australia)

On automorphism groups of certain types of vector distributions

12:00 – 14:00: lunch break

14:00 – 15:00: J. Slovák (Masaryk Univ., Czech Republic)

Distinguished curves in Cartan geometries

15:00 – 15:30 coffee break

15:30 – 16:30: C. Frances (Univ. Orsay, France)

The Ferrand-Obata theorem for rank-one parabolic geometries

16:30 – 16:45: break

16:45 – 17:45: V. Matveev (Univ. Jena, Germany)

Symmetries of projective or h -projective structure of a metric

- **Tuesday, July 19**

09:30 – 10:30: K. Melnick (Univ. Maryland, USA)

Gromov-Zimmer theory of rigid geometric structures

10:30 – 11:00: coffee break

11:00 – 12:00: S. Dumitrescu (Univ. Nice, France)

Locally homogeneous rigid geometric structures

12:00 – 14:00: lunch break

14:00 – 15:00: D. Constantine (Univ. Chicago, USA)

Compact Clifford-Klein forms and group actions

15:00 – 15:30: coffee break

15:30 – 16:30 A. Nevo (Technion, Israel)

On the existence of homogeneous projective factors for semisimple Lie groups

16:30 – 16:45: break

16:45 – 17:45: R. Feres (Univ. Washington, USA)

Random dynamics and spectrum of classical mechanical systems with partial information

- **Wednesday, July 20**

09:00 – 10:00: I. Kath (Univ. Greifswald, Germany)

$G_2(2)$ -structures on indefinite symmetric spaces

10:00 – 10:30: coffee break

10:30 – 11:30: A. Zeghib (ENS Lyon, France)

Kähler manifolds with big automorphism group

11:30 – 12:30: R. Gover (Univ. Auckland, New Zealand)

Conformal tractors and infinitesimal automorphisms: An introduction

12:30 – 14:00: lunch break

14:00 – 14:30: C. Rossi (Univ. Avignon, France)

Globally hyperbolic conformally flat maximal spacetimes

14:30 – 15:00: D. Ruiz (Univ. Maryland, USA)

Affine deformations of hyperbolic structures and the Margulis invariant

15:00 – 15:30: coffee break

15:30 – 16:00: K. Mann (Univ. Chicago, USA)

Global fixed points for groups acting on the plane

16:00 – 16:30: J.P. Michel (Univ. Luxembourg)

Higher symmetries of Laplacian and quantization

16:30 – 16:45: break

16:45 – 17:45: G. Manno (Univ. Milano, Italy)

Projectively homogeneous metrics on 2-dimensional manifolds

- **Thursday, July 21**

09:00 – 10:00: D. Alekseevski (Univ. Hull, UK)

Classification of homogeneous Lorentzian manifolds of a semisimple Lie group

10:00 – 10:30: coffee break

10:30 – 11:30: Y. Kamishima (Tokyo Metropolitan Univ., Japan)

Lorentzian similarity manifolds

11:30 – 12:30: Open discussion

after 12:30: lunch and free afternoon

On Thursday evening there will be a gathering at a “Heurigen”.

- **Friday, July 22**

09:30 – 10:30: L. Marquis (Univ. Rennes, France)

Finite volume quotients of Hilbert geometries

10:30 – 11:00: coffee break

11:00 – 12:00: F. Kassel (Univ. Chicago, USA / CNRS, France)

Geometry and spectra of complete AdS^3 -manifolds

All lectures take place in the ESI Boltzmann Lecture Hall