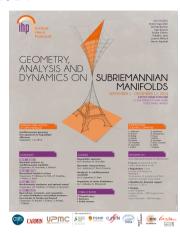


« Geometry, Analysis and Dynamics on Sub-Riemannian Manifolds » September 1st – December 12th, 2014

Workshop

« Equivalence, invariants, and symmetries of vector distributions and related structures: from Cartan to Tanaka and beyond » Paris, December 10th – December 12th, 2014 Amphithéâtre Hermite



ORGANIZERS

R. Bryant (Duke), Y. Chitour (Orsay), J. Merker (Orsay), I. Zelenko (Texas A&M)

SPEAKERS

Valery Beloshapka (Moscow)
Robert Bryant (Duke University)
Andreas Cap (Vienna)
Boris Doubrov (Minsk)
Maciej Dunajski (Cambridge)
Matthias Hammerl (Greifswald, Germany)
Jun-Muk Hwang (KIAS)

Svetlana Ignatovich (Kharkiv)
Alexander Isaev (Canberra, Australia)
Velimir Jurdjevic (Toronto)
Aroldo Kaplan (Cordoba, Argentina)
Boris Kruglikov (Tromso, Norway)
Richard Montgomery (Santa Cruz, USA)
Tohru Morimoto (Nara, Japan)

Gil Bor (CIMAT, Mexico) Alessandro Ottazzi (University of Trento, Italy) Colleen Robles (College Station, USA) Jan Slovak (Brno)





PROGRAM

Wednesday December 10th

10.00 am – 10.30 am	Registration Robert Bryant Coffee break Tohru Morimoto	IHP Ground floor Some geometric constructions of holonomic plane fields and their analysis. IHP Ground floor Equivalence problems of geometric structures and applications to differential equations and subriemannian geometries.	
11.35 am – 12.35 pm	Boris Kruglikov	Tanaka theory and dimensional bounds for the symmetry algebras.	
12.35 pm – 02.00 pm	Lunch time		
02.00 pm - 03.00 pm 03.05 pm - 04.05 pm 04.05 pm - 04.35 pm 04.35 pm - 05.35 pm	Coffee break	Projective compactness. Integrable affine-quadrartic systems on Lie groups: geometry and mechanics. IHP Ground floor Diffeomorphisms in Carnot groups and Tanaka prolongation.	
Thursday December 1	ursday December 11 th		
		Cone structures with characteristic connections. IHP Ground floor Characteristic cohomology of the horizontal distribution on flag manifolds and flag domains. Equivalence problem of vector distributions via abnormal extremals.	
10.00 am – 10.30 am 10.30 am – 11.30 am	Coffee break Colleen Robles Boris Doubrov	IHP Ground floor Characteristic cohomology of the horizontal distribution on flag manifolds and flag domains.	
10.00 am - 10.30 am 10.30 am - 11.30 am 11.35 am - 12.35 pm	Coffee break Colleen Robles Boris Doubrov Lunch time Gil Bor	IHP Ground floor Characteristic cohomology of the horizontal distribution on flag manifolds and flag domains.	

	Friday	December	12 th
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09.00 am – 10.00 am	Alexander Isaev	Reduction of five-dimensional uniformly Levi degenerate CR-structures to absolute parallelisms and its application to establishing the affine rigidity of Levi degenerate tube hypersurfaces.
10.00 am - 10.30 am 10.30 am - 11.30 am 11.35 am - 12.35 pm	Richard Montgomery	IHP Ground floor A Tale of Two Towers. Non-integrable systems in algebraic geometry.
12.35 pm – 02.00 pm	Lunch time	
02.00 pm - 03.00 pm 03.05 pm - 04.05 pm 04.05 pm - 04.35 pm 04.35 pm - 05.35 pm	Valery Beloshapka Coffee break	Subriemannian Metrics and some Parabolic Geometries. Coordinate approach in CR-geometry. IHP Ground floor A non-normal Fefferman-type construction: Holonomy-methods and characterization.