

« Geometry and analysis of surface group representations »
Paris, January 3rd - March 30th, 2012

Workshop
« on Moduli spaces of representations »
February 6th – February 10th, 2012
Amphitheater Hermite

11 rue Pierre et Marie Curie – Paris 5^{ème}



Organizers

Bill Goldman (University of Maryland), **Ser Peow Tan** (National University of Singapore),
Anna Wienhard (Princeton University)

Speakers

Francis Bonahon (University of Southern California)
Martin Bridgeman (Boston College)
Marc Burger (ETH Zurich)
Daryl Cooper (University of California – Santa Barbara)
Jeff Danciger (University of Texas – Austin)
Martin Deraux (Institute Fourier – Grenoble)
Guillaume Dreyer (University of Southern California)
Elisha Falbel (University of Paris 6)
Oscar Garcia-Prada (CSIC, Madrid)
Olivier Guichard (University of Paris Sud, Orsay)
Alessandra Iozzi (ETH Zurich)
Misha Kapovich (University of California, Davis)
Inkang Kim (KIAS, Korea)
Bruno Klingler (University of Paris 7)
Marina Logares (CSIC, Madrid)
Greg McShane (Institute Fourier – Grenoble)
Pierre Pansu (ENS – Paris)
John Parker (University of Durham)
Adam Sikora (University of Buffalo)
Tobias Strubel (ETH Zurich)
Richard Wentworth (University of Maryland)
Graeme Wilkin (National University of Singapore)
Pierre Will (Institute Fourier – Grenoble)

Program

Monday February 6th

09.00 am – 09.30 am	Registration	
09.30 am – 10.15 am	Olivier GUICHARD	Anosov Representations: Properties and Examples.
10.30 am – 11.15 am	Francis BONAHO	Coordinates of Fenchel-Nielsen type for the Hitchin component.
11.15 am – 12.00 pm	<i>Coffee Break – Ground floor</i>	
12.00 pm – 12.45 pm	Guillaume DREYER	Geometric properties of Hitchin representations.
12.45 pm – 02.45 pm	<i>Lunch</i>	
02.45 pm – 03.30 pm	<i>Coffee Break – Ground floor</i>	
03.30 pm – 04.15 pm	Greg McSHANE	Four holed sphere pieces, pants and interpolating the forgetful map.
04.30 pm – 05.15 pm	Martin BRIDGEMAN	Volume identities for hyperbolic manifolds with totally geodesic boundary.

06.00 pm – 09.00 pm Cocktail – Ground Floor of IHP

Tuesday February 7th

09.30 am – 10.15 am	Richard WENTWORTH	On the cohomology of character varieties I.
10.30 am – 11.15 am	Graeme WILKIN	On the cohomology of character varieties II.
11.15 am – 12.00 pm	<i>Coffee Break – Ground floor</i>	
12.00 pm – 12.45 pm	Bruno KLINGLER	On rigidity for representations of complex hyperbolic lattices.
12.45 pm – 02.45 pm	<i>Lunch</i>	
02.45 pm – 03.30 pm	<i>Coffee Break – Ground floor</i>	
03.30 pm – 04.15 pm	Oscar GARCIA-PRADA	Higgs bundles and representations of surface groups.
04.30 pm – 05.15 pm	Marina LOGARES	Parabolic $U(p,q)$ -Higgs bundles.

Wednesday February 8th

09.00 am – 09.45 am	Daryl COOPER	Degenerations and transitions of sub-geometries of projective geometry I.
10.00 am – 10.45 am	Jeff DANCIGER	Degenerations and transitions of sub-geometries of projective geometry II.
10.45 am – 11.30 am	<i>Coffee Break – Ground floor</i>	
11.30 am – 12.15 pm	Inkang KIM	Density of Zariski density for surface groups I.
12.30 pm – 01.15 pm	Pierre PANSU	Density of Zariski density for surface groups II.

Thursday February 9th

09.30 am – 10.15 am	Alessandra IOZZI	Weakly maximal and causal representations of surface groups I.
10.30 am – 11.15 am	Mark BURGER	Weakly maximal and causal representations of surface groups II.
11.15 am – 12.00 pm	<i>Coffee Break – Ground floor</i>	
12.00 pm – 12.45 pm	Misha KAPOVICH	Polyhedral complexes and topology of projective varieties.
12.45 pm – 02.45 pm	<i>Lunch</i>	
02.45 pm – 03.30 pm	<i>Coffee Break – Ground floor.</i>	
03.30 pm – 04.15 pm	Adam SIKORA	Action-angle coordinates on character varieties of surfaces.
04.30 pm – 05.15 pm	Tobias STRUBEL	Fenchel-Nielsen Coordinates for Maximal Representations.

Friday February 9th

09.30 am – 10.15 am	Pierre WILL	Discrete groups in $PU(2,1)$ and spherical CR structures.
10.30 am – 11.15 am	Elisha FALBEL	$PGL(3,C)$ structures on 3 manifolds.
11.15 am – 12.00 pm	<i>Coffee Break – Ground floor</i>	
12.00 pm – 02.45 pm	<i>Lunch</i>	
02.45 pm – 03.30 pm	<i>Coffee Break – Ground floor</i>	
03.30 pm – 04.15 pm	Martin DERAUX	Real and complex hyperbolic geometry.
04.30 pm – 05.15 pm	John PARKER	Fundamental domains for complex hyperbolic lattices.