

INSTITUT DE RECHERCHE MATHÉMATIQUE AVANCÉE
(UMR 7501 de l'Université de Strasbourg et du CNRS)

MASTER CLASS ON GEOMETRY
(April 27 – May 2, 2009)
Lieu : Salle de conférences de l'IRMA

Program of the week

Monday April 27, 2009

- 9:00-10:00 **C. Petronio**
Algorithmic methods in 3-dimensional hyperbolic geometry (I)
- 10:00-10:30 Pause café - Refreshments
- 10:30-11:30 **S. Matveev**
Topics in 3-manifolds topology (I)
- 11:30-12:30 **J. Marché**
Symplectic geometry of representation spaces in $SU(2)$ (I)
- 12:30-14:00 Déjeuner Lunch at IRMA offered to all participants.
- 14:00-15:00 **F. Herrlich**
Introduction to origamis in Teichmüller space (I)
- 15:00-15:30 Pause café - Tea and refreshments.
- 15:30-16:30 **V. Fock**
Higher Teichmüller spaces (I)
- 16:30-17:00 Music Interlude: An artist will play Bach's Violin Chaconna BWV 1004.
- 17:00-18:00 **F. Herrlich**
Introduction to origamis in Teichmüller space (II)

Tuesday April 28, 2009

- 9:00-10:00 **C. Petronio**
Algorithmic methods in 3-dimensional hyperbolic geometry (II)
- 10:00-10:30 Pause café - Refreshments
- 10:30-11:30 **S. Matveev**
Topics in 3-manifolds topology (II)
- 11:30-12:30 **J. Marché**
Symplectic geometry of representation spaces in $SU(2)$ (II)
- 12:30-14:00 Déjeuner libre - Free time for lunch
- 14:00-15:00 **V. Fock**
Higher Teichmüller spaces (II)
- 16h:00-17h15
by *Départ pour un tour en bateau autour de la vieille ville. Boat trip offered
the Mayor of Strasbourg.*
- 17:30-18:30 *Apéritif de réception à la Mairie, place Broglie - Reception at the Mairie
(Place Broglie) offered to participants by the Mayor of Strasbourg*

Wednesday April 29, 2009

- 9:00-10:00 **C. Petronio**
Algorithmic methods in 3-dimensional hyperbolic geometry (III)
- 10:00-10:30 Pause café - Refreshments
- 10:30-11:30 **S. Matveev**
Topics in 3-manifolds topology (III)
- 11:30-12:30 **J. Marché**
Symplectic geometry of representation space in $SU(2)$ (III)
- 12:30-14:00 Déjeuner libre - Free time for lunch
- 14:00-15:00 **G. Massuyeau**
What is the mapping class group
- 15:00-15:30 Pause café - Tea and refreshments
- 15:30-16:30 **D. Alessandrini**
What is a complex projective structure
- 16:30-17:30 **V. Fock**
Higher Teichmüller spaces (III)

In the evening, there will be a classical music concert given by the participants, at Collège Doctoral Européen (46 Bd. de la Victoire). The exact time will be set during the conference.

Thursday April 30, 2009

- 9:00-10:00 **C. Petronio**
Algorithmic methods in 3-dimensional hyperbolic geometry (IV)
- 10:00-10:30 Pause café - Refreshments
- 10:30-11:30 **S. Matveev**
Topics in 3-manifolds topology (IV)
- 11:30-12:30 **J. Marché**
Symplectic geometry of representation space in $SU(2)$ (IV)
- 12:30-14:00 Jambon en croûte
Déjeuner - Lunch at IRMA offered to all participants
- 14:00-15:00 **F. Costantino**
What is the Volume conjecture
- 15:00-15:30 Pause café - Tea and refreshments
- 15:30-16:30 **S. Matveev**
Topics in 3-manifolds topology (V)
- 16:30-17:30 **F. Herrlich**
Introduction to origamis in Teichmüller space (III)

Friday May 1st

This is a non-working day. The participants have a free day, but they are also welcome to come to the Mathematical Institute building for discussions and for doing mathematics for their pleasure.

Saturday May 2, 2009

- 9:00-10:00 **C. Petronio**
Algorithmic methods in 3-dimensional hyperbolic geometry (V)
- 10:00-10:30 Pause café - Refreshments
- 10:30-11:30 **V. Fock**
Higher Teichmüller spaces (IV)
- 11:30-12:30 **J. Marché**
Symplectic geometry of representation spaces in $SU(2)$ (V)
- 12:30-14:00 Déjeuner libre - Free time for lunch
- 14:00-15:00 **F. Herrlich**
Introduction to origamis in Teichmüller space (IV)
- 15:00-15:30 Pause café - Tea and refreshments
- 15:30-16:30 **V. Fock**
Higher Teichmüller spaces (V)
- 16:30-17:30 **F. Herrlich**
Introduction to origamis in Teichmüller space (V)

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