

Centre de recherches mathématiques
Université de Montréal

Atelier sur la géométrie des courbes holomorphes et algébriques sur des
variétés algébriques complexes
Du 30 avril au 4 mai 2007

*Workshop: The geometry of holomorphic and algebraic curves in complex
algebraic varieties
April 30 - May 4, 2007*

HORAIRE / PROGRAM

Conférences : salle 6214

Pauses-café : salle 6245

Lectures: Room 6214

Coffee Breaks: Room 6245

Le lundi 30 avril 2007 / Monday, April 30, 2007

08:30 - 09:00 Incription et Café / *Registration and Coffee*

09:00 - 09:50 **Eckart Viehweg** (Universität Duisburg-Essen)
“Curves in moduli stacks”

10:00 - 10:40 **Samuel Grushevsky** (Princeton University)
“A Characterization of Prym varieties”

10:40 - 11:00 Pause-café / *Coffee break*

11:00 - 11:40 **Bruno de Oliveira** (University of Miami)
“The existence of symmetric differentials on projective manifolds X and its geometric consequences”

11:40 Pause déjeuner / *Lunch Break*

14:30 - 15:20 **Fedor Bogomolov** (Courant Institute of Mathematics)
“Classical geometry and symmetric differentials”

15:20 - 15:40 Pause-café / *Coffee break*
(Salle / *Room* 6245)

15:40 - 16:10 **Reiko Miyaoka** (Kyushu University)
“The Gauss map of algebraic minimal surfaces”

16:20 - 17:10 **Ryoichi Kobayashi** (Nagoya University)
“Nevanlinna-Galois theory for the Gauss map of algebraic minimal surfaces”

17:10 - 18:45 Vin et fromages (6245) / *wine-and-cheese (6245)*

Le mardi 1 mai 2007 / *Tuesday, May 1, 2007*

- 09:00 - 09:50 Jean-Pierre Demailly** (Institut Fourier)
“Structure of jet differential rings and holomorphic Morse inequalities”
- 10:00 - 10:40 Erwan Rousseau** (Université Louis Pasteur)
“On the logarithmic Kobayashi conjecture”
- 10:40 - 11:00** Pause-café / *Coffee break*
(Salle / *Room* 6245)
- 11:00 - 11:50 Mohan Ramachandran** (University of Buffalo, SUNY)
“ L^2 Castelnuovo-DeFranchis lemma and filtered ends of Kahler groups”
- 11:50** Déjeuner / *Lunch*
- 14:30 - 15:15 Sai-Kee Yeung** (Purdue University)
“Fake projective planes”
- 15:20 - 16:00 Gerd-Eberhard Dethloff** (Université de Brest)
“Logarithmic Surfaces and Hyperbolicity”
- 16:00 - 16:15** Pause-café / *Coffee break*
- 16:15 - 17:00 Pit-Mann Wong** (University of Notre-Dame)
“Griffiths Conjecture for P^2 ”
- 17:00 - 17:50 Min Ru** (University of Houston)
“Defect relation for holomorphic curves intersecting hypersurfaces”

Le mercredi 2 mai 2007 / *Wednesday, May 2, 2007*

- 09:00 - 09:50 Yoichi Miyaoka** (University of Tokyo)
“An effective Bogomolov theorem on the boundedness of curves of given genus on a surface of general type”
- 10:00 - 10:40 Gianluca Pacienza** (Université L. Pasteur et CNRS)
“On the uniformity of the Iitaka fibration”
- 10:40 - 11:00** Pause-café / *Coffee break*
(Salle / *Room* 6245)
- 11:00 - 11:50 Yuri Tschinkel** (New York University)
“On arithmetic over function fields of curves”
- 11:50** Déjeuner / *Lunch*
- 14:30 - 15:20 Joerg Winkelmann** (Universitaet Bayreuth)
“À venir”
“*TBA*”
- 15:20 - 15:40** Pause-café / *Coffee break*
- 15:40 - 16:30 Qi Zhang** (University of Missouri-Columbia)
“Projective varieties with nef anticanonical divisors”
“*Projective varieties with nef anticanonical divisors*”
- 16:40 - 17:30** Discussion / *Discuss*

Le jeudi 3 mai 2007 / *Thursday, May 3, 2007*

- 09:00 - 09:50** **Hélène Esnault** (Universität Duisburg-Essen)
“Grothendieck’s packets and sections of Galois into the arithmetic fundamental group”
- 10:00 - 10:40** **James D. Lewis** (University of Alberta)
“Real Regulators on Milnor Complexes and the Mumford-Manin Conjecture Revisited”
- 10:40 - 11:00** Pause-café / *Coffee break*
(Salle / *Room* 6245)
- 11:00 - 11:50** **Shuji Saito** (Tokyo University)
“Chow group of 0-cycles on surface over a p -adic field with infinite torsion subgroup”
- 11:50** Déjeuner / *Lunch*
- 14:30 - 15:20** **Jason Starr** (Stony Brook University)
“Weak approximation and rational simple connectedness”
- 15:20 - 15:50** Pause-café / *Coffee break*
(Salle / *Room* 6245)
- 15:50 - 16:30** **Michael McQuillan** (University of Glasgow)
“À venir”
“*TBA*”
- 16:40 - 17:30** **Ziv Ran** (University of California Riverside)
“Deformations of schemes and curves on varieties”

Le vendredi 4 mai 2007 / *Friday, May 4, 2007*

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| 09:00 - 09:50 | Bernard Shiffman (Johns Hopkins University)
"Distribution of linear systems and random zero sets of Kahler manifolds" |
| 10:00 - 10:40 | Karen Chandler
"À venir"
"TBA" |
| 10:40 - 11:00 | Pause-café / <i>Coffee break</i>
(Salle / <i>Room</i> 6245) |
| 11:00 - 11:30 | Scott Zrebic (Johns Hopkins University)
"Large deviations in the distribution of the zeros of a random $SU(m+1)$ polynomials" |
| 11:40 - 12:30 | Terrence Napier (Lehigh University)
"Kahler manifolds with bounded geometry" |
| 11:50 | Déjeuner / <i>Lunch</i> |
| 15:45 - 16:00 | Café (6245) / <i>Coffee (6245)</i> |
| Session - Colloque CRM-ISM Colloquium | |
| 16:00 - 16:50 | Jean-Pierre Demailly (Institut Fourier)
"New analytic techniques in algebraic geometry" |
| 17:00 - 18:00 | Vin et fromages (6245) / <i>wine-and-cheese (6245)</i> |