

Centre de recherches mathématiques
Université de Montréal

Atelier sur les EDP géométriques
Du 23 au 27 avril 2012

Workshop on Geometric PDE
April 23-27, 2012

HORAIRE / PROGRAM

Conférences : salle 6214 (Pavillon André-Aisenstadt)

Pauses-café : salon Maurice-L'Abbé (salle 6245, Pavillon André-Aisenstadt)

Lectures: Room 6214 (Pavillon André-Aisenstadt)

Coffee Breaks: Salon Maurice-L'Abbé (Room 6245, Pavillon André-Aisenstadt)

Le lundi 23 avril 2012 / *Monday, April 23, 2012*

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- 09:00 - 09:30** Inscription (salle 5345) et café-croissants (salle 6245)
Registration (Room 5345) and Coffee & Croissants (Room 6245)
- 09:30 - 10:20** **Vestislav Apostolov** (Université du Québec à Montréal)
“Extremal Kähler metrics on toric orbifolds with $b_2(M) = 2$ ”
- 10:30 - 11:00** Pause-café / *Coffee break*
 (Salle / *Room* 6245)
- 11:00 - 11:50** **Ben Weinkove** (University of California, San Diego)
“The evolution of a Hermitian metric by its Chern-Ricci form”
- 12:00 - 14:00** Pause-déjeuner / *Lunch break*
- 14:00 - 14:50** **Bo Guan** (Ohio State University)
“Monge-Ampère type fully nonlinear equations on Hermitian manifolds”
- 15:00 - 15:50** **Jixiang Fu** (Fudan University)
“Limiting behavior of a class of Hermitian-Yang-Mills metrics”
- 16:00 - 16:30** Pause-café / *Coffee break*
 (Salle / *Room* 6245)
- 16:30 - 17:20** **Valentino Tosatti** (Columbia University)
“Collapsing of Calabi-Yau manifolds”
- 17:30** Réception / *Reception*
 (Salle / *Room* 6245)

Le mardi 24 avril 2012 / Tuesday, April 24, 2012

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Ailana Fraser** (University of British Columbia)
“An eigenvalue problem and minimal surfaces in the ball”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:50 **Joel Spruck** (Johns Hopkins University)
“The asymptotic Plateau problem for convex hypersurfaces of constant curvature in hyperbolic space and De Sitter space”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:50 **Natasa Sesum** (University of Pennsylvania)
“Ancient solutions to the Yamabe flow”

15:00 - 15:50 **Junfang Li** (University of Alabama at Birmingham)
“A new mean curvature type of flow and its fully nonlinear version”

16:00 - 16:30 Café / *Coffee*
(Salle / Room 6245)

Le mercredi 25 avril 2012 / *Wednesday, April 25, 2012*

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Steve Zelditch** (Northwestern University)
“The Cauchy problem for the complex homogeneous Monge-Ampère equation and geodesics in the space of Kahler metrics”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:50 **McKenzie Y. Wang** (McMaster University)
“Ricci solitons of cohomogeneity one”

12:00 - 12:50 **Mu-Tao Wang** (Columbia University)
“A variational problem for isometric embeddings into the Minkowski space”

Le jeudi 26 avril 2012 / *Thursday, April 26, 2012*

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Cristina Trombetti** (Università degli Studi di Napoli Federico II)
“Best constants in certain Sobolev-Poincaré inequalities”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:50 **Tom Ilmanen** (ETH Zürich)
“Update in mean curvature flow”

12:00 - 14:00 Pause-déjeuner / *Lunch break*

14:00 - 14:50 **Lei Ni** (University of California, San Diego)
“Solving Poincaré-Lelong equation via Hodge-Laplace heat equation”

15:00 - 15:50 **Spiro Karigiannis** (University of Waterloo)
“The moduli space of asymptotically conical G_2 manifolds”

16:00 - 16:30 Pause-café / *Coffee break*
(Salle / Room 6245)

16:30 - 17:20 **Marcus Khuri** (Stony Brook University)
“The Yamabe problem on manifolds with boundary”

Le vendredi 27 avril 2012 / *Friday, April 27, 2012*

09:00 - 09:30 Café croissants / *Coffee & Croissants*
(Salle / Room 6245)

09:30 - 10:20 **Maria Buzano** (University of Oxford)
“Ricci flow on spaces with a large symmetry group”

10:30 - 11:00 Pause-café / *Coffee break*
(Salle / Room 6245)

11:00 - 11:50 **Ahmed Zeriahi** (Université Paul Sabatier)
“Viscosity solutions to degenerate complex Monge-Ampère equations”

12:00 - 12:50 **Gantumur Tsogtgerel** (McGill University)
“On nonconstant mean curvature solution of the Einstein constraint equations”