

Centre de recherches mathématiques  
Université de Montréal

Atelier : Transformées intégrales non-linéaires : Fourier-Mukai et Nahm  
Du 27 au 31 août 2007

*Workshop: Non-linear integral transforms: Fourier-Mukai and Nahm  
August 27-31, 2007*

## **HORAIRE / PROGRAM**

Conférences : salle 6214  
Pauses-Café : salle 6245

*Lectures: Room 6214  
Coffee Breaks: Room 6245*

Le lundi 27 août 2007 / *Monday, August 27, 2007*

09:00 - 09:30 Inscription (5345) et café-croissant / *Registration (5345) and Coffee & Croissants*

09:30 - 10:30 **Tony Pantev** (University of Pennsylvania)  
*"\*-quantization of Fourier-Mukai transforms"*

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

11:00 - 12:00 **Nuno Romao** (University of Aarhus)  
*"Spectral curves and the mass of hyperbolic monopoles"*

12:00 - 14:00 *Lunch break*

14:00 - 15:00 **Mark Stern**  
*"Self-dual connections interpolating between inequivalent components of moduli spaces of flat connections on  $T^3$ "*

15:00 - 15:30 Pause-café / *Coffee break*  
(Salle / *Room 6245*)

15:30 - 16:30 **David Ben-Zvi** (University of Texas, Austin)  
*"Langlands Duality for Complex Groups"*

16:30 - 17:30 **Ugo Bruzzo** (SISSA)  
*"Relating Nahm and Fourier-Mukai transforms"*

Le mardi 28 août 2007 / *Tuesday, August 28, 2007*

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- 09:30 - 10:30** **Richard Thomas** (Imperial College London)  
*“Hyperkahler mirror symmetry and braid group actions on derived categories”*
- 10:30 - 11:00** Pause-café / *Coffee break*  
(Salle / Room 6245)
- 11:00 - 12:00** **Marcos B. Jardim** (IMECC-UNICAMP)  
*“Nahm transform and Riemann surfaces”*
- 12:00 - 14:00** *Lunch break*
- 14:00 - 15:00** **Kota Yoshioka** (Kobe University)  
*“Stability and the Fourier–Mukai transform”*
- 15:00 - 15:30** Pause-café / *Coffee break*  
(Salle / Room 6245)
- 15:30 - 16:30** **Misha Verbitsky** (Glasgow University)  
*“Positive elliptic and toric fibrations”*
- 16:30 - 17:30** **Justin Sawon** (Colorado State University)  
*“Families of curves of Jacobians”*

Le mercredi 29 août 2007 / *Wednesday, August 29, 2007*

**09:30 - 10:30** **Thomas Nevins** (University of Illinois at Urbana-Champaign)  
*“Perverse bundles and CM spaces”*

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

**11:00 - 12:00** **Andrei Caldararu** (University of Wisconsin)  
*“A new perspective on an example of Vafa and Witten”*

**12:00 - 14:00** *Lunch break*

**14:00 - 15:00** **Szilard Szabo** (Alfréd Rényi Institute of Mathematics)  
*“Nahm transform for parabolic integrable connections on  $\mathbf{P}^1$ ”*

**15:00 - 15:30** Pause-café / *Coffee break*  
(Salle / Room 6245)

**15:30 - 16:30** **Philip Boalch** (École Normale Supérieure)  
*“Examples of moduli spaces of irregular connections”*

**16:30 - 17:30** **Paul Norbury** (Boston University)  
*“Magnetic monopole boundary value problems”*

**18:00** Cocktail / *Reception*

Le jeudi 30 août 2007 / *Thursday, August 30, 2007*

**09:30 - 10:30** **Sergey Cherkis** (Trinity College)

*“Bows and quivers: Instantons on ALF Spaces”*

**10:30 - 11:00** Pause-café / *Coffee break*

(Salle / *Room* 6245)

**11:00 - 12:00** **Gabor Etesi**

*“Moduli spaces of self-dual connections over asymptotically locally flat gravitational instantons”*

**12:00 - 14:00** *Lunch break*

**14:00 - 15:00** **Oscar Garcia-Prada** (Consejo Superior de Investigaciones Científicas)

*“Higgs bundles and surface group representations”*

**15:00 - 15:30** Pause-café / *Coffee break*

**15:30 - 16:30** **Daniel Negradi** (University of Wuppertal)

*“Moduli space of periodic instantons (aka calorons)”*

**16:30 - 17:30** **Ruxandra Moraru** (University of Waterloo)

*“Compact moduli spaces of stable bundles on Kodaira surfaces”*

Le vendredi 31 août 2007 / *Friday, August 31, 2007*

**09:30 - 10:30 Claudio Bartocci** (Università degli Studi di Genova)

*“Moduli spaces of bundles on elliptic fibrations”*

**10:30 - 11:00** Pause-café / *Coffee break*

(Salle / *Room* 6245)

**11:00 - 12:00 Daniel Hernández Ruipérez** (Universidad de Salamanca)

*“Fourier-Mukai for singular varieties and singular Mukai partners”*

**12:00 - 14:00** *Lunch break*

**14:00 - 15:00 Christopher Ford**

*“Doubly periodic instantons with twisted boundary conditions”*

**15:00 - 15:30** Pause-café / *Coffee break*

**15:30 - 16:30 Carlos Tejero Prieto** (Universidad de Salamanca)

*“Fourier-Mukai transforms for coherent systems on elliptic curves”*