

HORAIRE / *PROGRAM*

**ÉCOLE**

L'ABÉCÉDAIRE DE SIDE (ASIDE)

27 juin au 1 juillet 2016

***SCHOOL***

*ABECEDARIAN OF SIDE (ASIDE)*

*June 27–July 1, 2016*

**CONFÉRENCES :**

Salle Z-330 (Pavillon Claire-McNicoll) :

**PAUSES-CAFÉ :**

Couloir 3e étage (Pavillon Claire-McNicoll) :

***LECTURES:***

*Room Z-330 (Pavillon Claire-McNicoll):*

***COFFEE BREAKS:***

*Hallway 3rd floor (Pavillon Claire-McNicoll):*

**Le lundi 27 juin 2016 / Monday, June 27, 2016**

08:30–09:00 Inscription et café croissants (Salle 3e étage / 3rd floor (Pav. Claire-McNicoll))  
*Registration and Coffee & Croissants (Room 3e étage / 3rd floor (Pav. Claire-McNicoll))*

***Continuous symmetries of discrete equations. Structure preserving discretization of differential equations and numerical methods (salle/Room Z-330 (Pav. Claire-McNicoll))***

09:00–09:50 **Alexander Bihlo** (Memorial University of Newfoundland)  
*“Symmetry-preserving numerical schemes - I”*

09:50–10:40 **Alexander Bihlo** (Memorial University of Newfoundland)  
*“Symmetry-preserving numerical schemes - II”*

10:40–11:00 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

11:00–11:50 **Alexander Bihlo** (Memorial University of Newfoundland)  
*“Symmetry-preserving numerical schemes - III”*

11:50–12:40 **Alexander Bihlo** (Memorial University of Newfoundland)  
*“Symmetry-preserving numerical schemes - IV”*

12:40–14:30 Pause-déjeuner / *Lunch break*

***Cluster algebras and discrete integrable systems. Dynamics on graphs and combinatorics (salle/Room Z-330 (Pav. Claire-McNicoll))***

14:30–15:20 **Max Glick** (University of Minnesota)  
*“Introduction to cluster algebras (part 1)”*

15:20–16:10 **Max Glick** (University of Minnesota)  
*“Introduction to cluster algebras (part 2)”*

16:10–16:30 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**16:30–17:20** Max Glick (University of Minnesota)

*“Compatible Poisson structures and quantization of cluster algebras”*

**17:20–18:10** Max Glick (University of Minnesota)

*“Integrability in cluster algebras”*

**Le mardi 28 juin 2016 / Tuesday, June 28, 2016**

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

***Orthogonal polynomials, special functions and their relation to discrete integrable systems and their elliptic analogs (salle/Room Z-330 (Pav. Claire-McNicoll))***

**09:00–09:50 Vincent Genest** (MIT)  
*“Superintegrable systems of second order, recoupling of Lie algebra representations and the discrete branch of the Askey scheme - I”*

**09:50–10:40 Vincent Genest** (MIT)  
*“Superintegrable systems of second order, recoupling of Lie algebra representations and the discrete branch of the Askey scheme - II”*

10:40–11:00 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**11:00–11:50 Fokko J. van de Bult** (Deift University of Technology)  
*“Elliptic hypergeometric series and biorthogonality - I”*

**11:50–12:40 Fokko J. van de Bult** (Deift University of Technology)  
*“Elliptic hypergeometric series and biorthogonality - II”*

12:40–14:30 Pause-déjeuner / *Lunch break*

***Discrete, continuous and ultradiscrete Painlevé equations (salle/Room Z-330 (Pav. Claire-McNicoll))***

**14:30–14:40 Masakata Kanki** (Kansai University)  
*“Overview”*

**14:40–15:50 Nobutaka Nakazono** (The University of Sydney)  
*“Painlevé equations”*

15:50–16:10 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**16:10–17:20 Yang Shi** (The University of Sydney)  
*“Discrete Painlevé equations”*

**17:20–18:30 Masakata Kanki** (Kansai University)  
*“Ultradiscrete Painlevé equations”*

**Le mercredi 29 juin 2016 / Wednesday, June 29, 2016**

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

***Integrability criteria for single and multivariable difference equations and differential difference equations (salle/Room Z-330 (Pav. Claire-McNicoll))***

**09:00–09:50 Giorgio Gubbiotti** (Università degli Studi Roma Tre)  
*“Integrability of difference equations through algebraic entropy and generalized symmetries - I”*

**09:50–10:40 Giorgio Gubbiotti** (Università degli Studi Roma Tre)  
*“Integrability of difference equations through algebraic entropy and generalized symmetries - II”*

10:40–11:00 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**11:00–11:50 Giorgio Gubbiotti** (Università degli Studi Roma Tre)  
*“Integrability of difference equations through algebraic entropy and generalized symmetries - III”*

**11:50–12:40 Giorgio Gubbiotti** (Università degli Studi Roma Tre)  
*“Integrability of difference equations through algebraic entropy and generalized symmetries - IV”*

Après-midi libre / *Free afternoon*

**Le jeudi 30 juin 2016 / Thursday, June 30, 2016**

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

***Discrete integrable systems and isomonodromy transformations. Yang-Baxter maps and quantum discrete integrable systems (salle/Room Z-330 (Pav. Claire-McNicoll))***

**09:00–09:50 Sotiris Konstantinou-Rizos** (Chechen State University)  
*“Darboux & Bäcklund transformations: discrete systems, matrix refactorisation problems and Yang-Baxter maps - I”*

**09:50–10:40 Sotiris Konstantinou-Rizos** (Chechen State University)  
*“Darboux & Bäcklund transformations: discrete systems, matrix refactorisation problems and Yang-Baxter maps - II”*

10:40–11:00 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**11:00–11:50 Deniz Bilman** (University of Michigan)  
*“The Toda lattice - I”*

**11:50–12:40 Deniz Bilman** (University of Michigan)  
*“The Toda lattice - II”*

12:40–14:30 Pause-déjeuner / *Lunch break*

***Difference Galois theory (salle/Room Z-330 (Pav. Claire-McNicoll))***

**14:30–15:20 Julien Roques** (Université Grenoble Alpes)  
*“Difference Galois theory - I”*

**15:20–16:10 Julien Roques** (Université Grenoble Alpes)  
*“Difference Galois theory - II”*

16:10–16:30 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**16:30–17:20 Julien Roques** (Université Grenoble Alpes)  
*“Difference Galois theory - III”*

**17:20–18:10 Julien Roques** (Université Grenoble Alpes)  
*“Difference Galois theory - IV”*



**Le vendredi 1 juillet 2016 / *Friday, July 1, 2016***

08:30–09:00 Café croissants / *Coffee & Croissants* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

***Discrete differential geometry (salle/Room Z-330 (Pav. Claire-McNicoll))***

**09:00–09:50 Ulrike Bücking** (TU Berlin)  
*“Introduction to linear and non-linear integrable theories in discrete complex analysis - I”*

**09:50–10:40 Ulrike Bücking** (TU Berlin)  
*“Introduction to linear and non-linear integrable theories in discrete complex analysis - II”*

10:40–11:00 Pause-café / *Coffee break* (Salle / Room 3e étage / 3rd floor (Pav. Claire-McNicoll))

**11:00–11:50 Ulrike Bücking** (TU Berlin)  
*“Introduction to linear and non-linear integrable theories in discrete complex analysis - III”*

**11:50–12:40 Ulrike Bücking** (TU Berlin)  
*“Introduction to linear and non-linear integrable theories in discrete complex analysis - IV”*

12:40–14:30 Pause-déjeuner / *Lunch break*

***Lattices and symmetries in physical applications (salle/Room Z-330 (Pav. Claire-McNicoll))***

**14:30–15:20 Milosz Panfil** (University of Warsaw)  
*“Lattice integrability and the XXX model - I”*

**15:20–16:10 Milosz Panfil** (University of Warsaw)  
*“Lattice integrability and the XXX model - II”*

16:10–16:30	Pause-café / <i>Coffee break</i> (Salle / <i>Room 3e étage</i> / 3rd floor (Pav. Claire-McNicoll))
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**16:30–17:20** **Milosz Panfil** (University of Warsaw)  
*“Lattice integrability and the XXX model - III”*

**17:20–18:10** **Milosz Panfil** (University of Warsaw)  
*“Lattice integrability and the XXX model - IV”*