

HORAIRE / *PROGRAM*

**MÉTHODES ALGÈBRIQUES EN PHYSIQUE  
MATHÉMATIQUE**

RENCONTRE SATELLITE À L'ICMP 2018

16 au 20 juillet 2018

***ALGEBRAIC METHODS IN MATHEMATICAL PHYSICS  
SATELLITE EVENT TO THE ICMP 2018***

*July 16–20, 2018*

**CONFÉRENCES :** salle 6254 (Pavillon André-Aisenstadt)

**PAUSES-CAFÉ :** salle 6245 (Pavillon André-Aisenstadt)

**LECTURES:** *Room 6254 (Pavillon André-Aisenstadt)*

**COFFEE BREAKS:** *Room 6245 (Pavillon André-Aisenstadt)*

## Le lundi 16 juillet 2018 / *Monday, July 16, 2018*

08:30–09:00 Inscription et café croissants  
*Registration and Coffee & Croissants*

**09:00–09:45 Rafael I. Nepomechie** (University of Miami)  
*“Symmetries and degeneracies of spin chains”*

**09:45–10:30 Simon Caron-Huot** (McGill University)  
*“A dispersion relation for conformal theories”*

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

**11:00–11:45 Paul M. Terwilliger** (University of Wisconsin)  
*“An infinite-dimensional  $\square_q$ -module obtained from the  $q$ -shuffle algebra for affine  $\mathfrak{sl}_2$ ”*

11:45–14:00 Pause-déjeuner / *Lunch break*

**14:00–14:45 Alexander Maloney** (McGill University)  
*“KdV Charges and Eigenstate Thermalization in 2D CFT”*

**14:45–15:30 Vincent Bouchard** (University of Alberta)  
*“W-algebras and higher Airy structures”*

15:30–16:00 Pause-café / *Coffee break*

**16:00–16:45 Jonathan Belletête** (CEA Saclay)  
*“Topological defects in lattice models and affine Temperley-Lieb algebra”*

**16:45–17:30 James Tener** (University of California, Santa Barbara)  
*“Local observables as boundary values of vertex operator algebras”*

## Le mardi 17 juillet 2018 / *Tuesday, July 17, 2018*

08:30–09:00 Café croissants / *Coffee & Croissants*

**09:00–09:45 Jan de Gier** (The University of Melbourne)  
*“Stochastic duality functions,  $qKZ$  and degenerate Macdonald polynomials”*

**09:45–10:30 Luc Lapointe** (Universidad de Talca)  
*“Macdonald operators in superspace and the supersymmetric Ruijsenaars-Schneider model revisited”*

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

**11:00–11:45 John Harnad** (Concordia University )  
*“Quantum Hurwitz numbers and their asymptotics”*

11:45–14:00 Pause-déjeuner / *Lunch break*

**14:00–14:45 Oleg Lisovyy** (Université François Rabelais)  
*“Quantum monodromy of conformal blocks and isomonodromic deformations”*

**14:45–15:30 Wouter van de Vijver** (Universiteit Gent)  
*“A discrete higher rank Racah algebra”*

15:30–16:00 Pause-café / *Coffee break*

**16:00–16:45 Nicolas Crampé** (CNRS - Université Montpellier)  
*“FRT presentation of the loop algebra and applications”*

**16:45–17:30 Ling Sequera** (Universidad de los Andes)  
*“Topological characterization of phase transitions”*

**Le mercredi 18 juillet 2018 / *Wednesday, July 18, 2018***

08:30–09:00 Café croissants / *Coffee & Croissants*

**09:00–09:45 Terry Gannon** (University of Alberta)  
*“Exceptional modular invariant partition functions are rare”*

**09:45–10:30 Shashank Kanade** (University of Denver)  
*“Tensor categories for vertex operator algebra extensions”*

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

**11:00–11:45 Alexei Zhedanov** (Renmin University of China)  
*“Algebraic Heun operator and its applications”*

11:45–14:00 Pause-déjeuner / *Lunch break*

**14:00–14:45 Azat Gainutdinov** (CNRS - Université de Tours)  
*“Quasi-Hopf algebras for extended  $W$ -algebras in Logarithmic CFTs”*

**14:45–15:30 Travis Scrimshaw** (The University of Queensland)  
*“Rigged configuration bijection for nonexceptional affine types”*

15:30–16:00 Pause-café / *Coffee break*

**16:00–16:45 Jonathan Michael Kress** (The University of New South Wales)  
*“Progress in the classification of second order superintegrable systems”*

**16:45–17:30 Kaveh Mousavand** (Université du Québec à Montréal - UQÀM)  
*“Generalized associahedra via representation theory”*

## Le jeudi 19 juillet 2018 / *Thursday, July 19, 2018*

08:30–09:00 Café croissants / *Coffee & Croissants*

**09:00–09:45 Samuel Belliard**  
*“Modified algebraic Bethe ansatz”*

**09:45–10:30 Eveliina Peltola** (Université de Genève)  
*“Quantum group symmetry in CFT”*

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

**11:00–11:45 Tianshu Liu** (The University of Melbourne)  
*“Affine osp(1/2) and its coset construction”*

11:45–14:00 Pause-déjeuner / *Lunch break*

**14:00–14:45 Jan Felipe van Diejen** (Universidad de Talca)  
*“Solutions of convex Bethe Ansatz equations and the zeros of (basic) hypergeometric orthogonal polynomials”*

**14:45–15:30 Hadewijch de Clercq** (Ghent University)  
*“The higher rank  $q$ -deformed Bannai-Ito and Askey-Wilson algebra”*

15:30–16:00 Pause-café / *Coffee break*

**16:00–16:45 Ana Ros Camacho** (Utrecht Univeristy )  
*“On a first example of tensor equivalence within the Landau-Ginzburg/conformal field theory correspondence”*

**16:45–17:30 Souad Tabban** (Universidad de Los Andes)  
*“Quantum entropic ambiguities and Tomita-Takesaki theory”*

**Le vendredi 20 juillet 2018 / Friday, July 20, 2018**

08:30–09:00 Café croissants / *Coffee & Croissants*

**09:00–09:45 Nicolai Reshetikhin** (University of California, Berkeley)  
*“Semiclassical  $6j$  symbols”*

**09:45–10:30 Alexi Morin-Duchesne** (Université Catholique de Louvain)  
*“Two-point boundary correlation functions of dense loop models”*

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

**11:00–11:45 Christian Hagendorf** (Université Catholique de Louvain)  
*“On the eight-vertex model at its supersymmetric point ”*

11:45–14:00 Pause-déjeuner / *Lunch break*

**14:00–14:45 Paul Zinn-Justin** (The University of Melbourne)  
*“Loop models and  $K$ -theory”*

**14:45–15:30 Luc Frappat** (CNRS - Université Savoie Mont Blanc)  
*“Elliptic deformations of quantum Virasoro algebras”*

15:30–16:00 Pause-café / *Coffee break*

**16:00–16:45 Hubert Saleur** (University of Southern California)  
*“Four point geometrical correlations in percolation and the  $Q$ -state Potts model”*