HORAIRE / PROGRAM

MODÈLES ET ALGÈBRES EXACTEMENT SOLUBLES
26 septembre au 7 octobre 2022

EXACTLY SOLVABLE MODELS AND ALGEBRAS
September 26-October 7, 2022
Les sessions du 26 au 30 septembre auront lieu dans la salle 5340 (salle/Room 5340)
The September 26-30 sessions will be held in room 5340 (salle/Room 5340)

09:30–10:30 Bart Vlaar (Beijing Institute for Mathematical Sciences and Applications)
«The origin of trigonometric K-matrices (Online)»
“The origin of trigonometric K-matrices (Online)”

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

11:00–12:00 Kirone Mallick (CEA Saclay)
«Exact Results in non-equilibrium statistical mechanics I»
“Exact Results in non-equilibrium statistical mechanics I”

12:00–14:00 Déjeuner / Lunch

14:00–15:00 Plamen Iliev (Georgia Institute of Technology)
«Integrability, orthogonality and bispectrality»
“Integrability, orthogonality and bispectrality”

15:00–15:30 Pause-café / Coffee break

15:30–16:30 Rei Inoue (Chiba University)
«Cluster algebras and combinatorics in representation theory (Aisenstadt Chair Lecture)»
“Cluster algebras and combinatorics in representation theory (Aisenstadt Chair Lecture)”

16:30–17:15 Vincent Pasquier (CEA/DSM/IPhT, CEA Saclay)
«TBA»
À venir/TBA
Le mardi 27 septembre 2022 / Tuesday, September 27, 2022

Les sessions du 27 septembre PM auront lieu dans la salle 6214/6254 (salle/Room 5340)
The September 27 PM sessions will be held in room 6214/6254 (salle/Room 5340)

09:30–10:30 Lauren K. Williams (Harvard University)
«Macdonald polynomials and the ASEP»
“Macdonald polynomials and the ASEP”

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

11:00–12:00 Sylvie Corteel (University of California, Berkeley)
«Interlacing particles, vertex models and tilings»
“Interlacing particles, vertex models and tilings”

12:00–14:00 Déjeuner / Lunch

14:00–15:00 Plamen Iliev (Georgia Institute of Technology)
«Integrability, orthogonality and bispectrality II»
“Integrability, orthogonality and bispectrality II”

15:00–15:30 Coffee break / Coffee break

15:30–16:30 Rei Inoue (Chiba University)
«Cluster algebra and its development (Aisenstadt Chair colloquium lecture)»
“Cluster algebra and its development (Aisenstadt Chair colloquium lecture)”

16:30–18:00 Réception / Reception (Salle / Room 6245)
Le mercredi 28 septembre 2022 / Wednesday, September 28, 2022

Les sessions du 26 au 30 septembre auront lieu dans la salle 5340 (salle/Room 5340)
The September 26-30 sessions will be held in room 5340 (salle/Room 5340)

09:30–10:30 Sylvie Corteel (University of California, Berkeley)
«Interlacing particles, vertex models and tilings II»
“Interlacing particles, vertex models and tilings II”

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

11:00–12:00 Kirone Mallick (CEA Saclay)
«Exact Results in non-equilibrium statistical mechanics II»
“Exact Results in non-equilibrium statistical mechanics II”

12:00–14:00 Déjeuner / Lunch

14:00–15:00 Rei Inoue (Chiba University)
«Cluster algebras and hyperbolic geometry (Aisenstadt Chair Lecture)»
“Cluster algebras and hyperbolic geometry (Aisenstadt Chair Lecture)”
Les sessions du 26 au 30 septembre auront lieu dans la salle 5340 (salle/Room 5340)
The September 26-30 sessions will be held in room 5340 (salle/Room 5340)

09:30–10:30 Bart Vlaar (Beijing Institute for Mathematical Sciences and Applications )
«The origin of trigonometric K-matrices II (Online)»
“The origin of trigonometric K-matrices II (Online)”

10:30–11:00 Pause-café / Coffee break

11:00–12:00 Kirone Mallick (CEA Saclay)
«Exact Results in non-equilibrium statistical mechanics III»
“Exact Results in non-equilibrium statistical mechanics III”

12:00–14:00 Déjeuner / Lunch

14:00–15:00 Plamen Iliev (Georgia Institute of Technology)
«Integrability, orthogonality and bispectrality III»
“Integrability, orthogonality and bispectrality III”

15:00–15:30 Pause-café / Coffee break

15:30–16:30 Sylvie Corteel (University of California, Berkeley)
«Interlacing particles, vertex models and tilings III»
“Interlacing particles, vertex models and tilings III”
Le vendredi 30 septembre 2022 / Friday, September 30, 2022

Les sessions du 26 au 30 septembre auront lieu dans la salle 5340 (salle/Room 5340)
The September 26-30 sessions will be held in room 5340 (salle/Room 5340)

09:30–10:30 Bart Vlaar (Beijing Institute for Mathematical Sciences and Applications )
«The origin of trigonometric K-matrices III (Online)»
“The origin of trigonometric K-matrices III (Online)”

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

11:00–12:00 Kirone Mallick (CEA Saclay)
«Exact Results in non-equilibrium statistical mechanics IV»
“Exact Results in non-equilibrium statistical mechanics IV”

12:00–14:00 Déjeuner / Lunch

14:00–15:00 Plamen Iliev (Georgia Institute of Technology)
«Integrability, orthogonality and bispectrality IV»
“Integrability, orthogonality and bispectrality IV”

15:00–15:30 Pause-café / Coffee break

15:30–16:00 Sylvie Corteel (University of California, Berkeley)
«Interlacing particles, vertex models and tilings IV»
“Interlacing particles, vertex models and tilings IV”
**Le lundi 3 octobre 2022 / Monday, October 3, 2022**

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<th>Speaker</th>
<th>Institution/Location</th>
<th>Topic</th>
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<tr>
<td>09:45–10:30</td>
<td>Rinat Kedem</td>
<td>University of Illinois</td>
<td>From Spherical DAHA to quantum Q-systems for classical root systems</td>
<td>&quot;From Spherical DAHA to quantum Q-systems for classical root systems&quot;</td>
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<td>10:30–11:00</td>
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<td>Pause-café / Coffee break</td>
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<tr>
<td>11:00–12:00</td>
<td>Anne Schilling</td>
<td>UC Davis</td>
<td>Crystal bases in statistical mechanics, representation theory and</td>
<td>Crystal bases in statistical mechanics, representation theory and combinatorics (Online)</td>
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<td>combinatorics (Online)</td>
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<td>12:00–14:00</td>
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<td>Déjeuner / Lunch</td>
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<td>14:00–14:30</td>
<td>Hadewijch de Clercq</td>
<td>Ghent University</td>
<td>Graphical calculus for quantum vertex operators (Online)</td>
<td>Graphical calculus for quantum vertex operators (Online)</td>
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<td>14:30–15:15</td>
<td>Éric Ragoucy Aubezon</td>
<td>CNRS, Université Savoie</td>
<td>Integrability and Matrix Ansatz</td>
<td>Integrability and Matrix Ansatz</td>
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<td>15:15–15:30</td>
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<td>Pause / Break</td>
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<tr>
<td>15:30–16:30</td>
<td>Lauren K. Williams</td>
<td>Harvard University</td>
<td>Combinatorics of hopping particles and positivity in Markov chains</td>
<td>Combinatorics of hopping particles and positivity in Markov chains (Aisenstadt Chair colloquium Lecture)</td>
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<td>(Aisenstadt Chair colloquium Lecture)</td>
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<td>16:30–18:00</td>
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<td>Réception / Reception</td>
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09:00–09:45 Plamen Iliev (Georgia Institute of Technology)
«The heat equation and soliton equations»
“The heat equation and soliton equations”

09:45–10:45 Lauren K. Williams (Harvard University)
«Schubert polynomials and the ASEP (Aisenstadt Chair Lecture)»
“Schubert polynomials and the ASEP (Aisenstadt Chair Lecture)”

10:45–11:15 Pause-café / Coffee break (Salle / Room 6245)

11:15–12:15 Anne Schilling (UC Davis)
«Crystal bases in statistical mechanics, representation theory and combinatorics II (Online)»
“Crystal bases in statistical mechanics, representation theory and combinatorics II (Online)”

12:00–14:00 Déjeuner / Lunch

14:00–14:30 Gilles Parez (CRM)
«Bipartite fidelity in the XXZ spin chain at the combinatorial point»
“Bipartite fidelity in the XXZ spin chain at the combinatorial point”

14:30–15:00 Guillaume Lemarthe (Université de Tours)
«Universal K-matrix and fused K-operators (Online)»
“Universal K-matrix and fused K-operators (Online)”

15:00–15:30 Pause-café / Coffee break

15:30–16:15 Eric Vernier (CNRS-LPSM Paris)
«Duality, Onsager algebra and Ising-type structures in root-of-unity six-vertex models»
“Duality, Onsager algebra and Ising-type structures in root-of-unity six-vertex models”
16:15–17:00 Rodrigo Pimenta (University of Manitoba)

«Diagonalization of the Heun-Askey-Wilson operator, Leonard pairs and the algebraic Bethe ansatz (Online)»

“Diagonalization of the Heun-Askey-Wilson operator, Leonard pairs and the algebraic Bethe ansatz (Online)”
09:15–09:45 **Atsuo Kuniba** (University of Tokyo)

«New solutions to the tetrahedron equation associated with quantized six-vertex models (Online)»

“New solutions to the tetrahedron equation associated with quantized six-vertex models (Online)”

09:45–10:30 **David Keating** (University of Wisconsin - Madison)

«k-tilings of the Aztec diamond»

“k-tilings of the Aztec diamond”

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

11:00–12:00 **Anne Schilling** (UC Davis)

«Crystal bases in statistical mechanics, representation theory and combinatorics III (Online)»

“Crystal bases in statistical mechanics, representation theory and combinatorics III (Online)”
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<tr>
<th>Time</th>
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<tr>
<td>09:00–09:10</td>
<td>Introduction par Luc Vinet / Introduction by Luc Vinet</td>
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<tr>
<td>09:10–09:45</td>
<td>Jørgen Rasmussen (The University of Queensland) «TBA (Online)»</td>
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<td>09:45–10:20</td>
<td>Jonathan Belletête (CEA Saclay) «TBA» À venir/TBA</td>
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<td>10:20–10:50</td>
<td>Pause-café / Coffee break (Salle / Room 6245)</td>
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<tr>
<td>11:25–12:00</td>
<td>Louis-Pierre Arguin (Baruch College, CUNY) «A Journey from Statistical Mechanics to Number Theory» “A Journey from Statistical Mechanics to Number Theory”</td>
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<td>12:00–14:00</td>
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<td>14:00–14:10</td>
<td>Introduction par Christiane Rousseau / Introduction by Christiane Rousseau</td>
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<td>14:10–14:45</td>
<td>David Ridout (University of Melbourne) «Reducible but indecomposable (Online)» “Reducible but indecomposable (Online)”</td>
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<td>14:45–15:20</td>
<td>Hubert Saleur (CEA - Saclay) «TBA (Online)» “TBA (Online)”</td>
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<td>15:20–15:50</td>
<td>Pause-café / Coffee break</td>
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<td>15:50–16:25</td>
<td>Théo Pinet (Université de Montréal)</td>
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<td>16:25–17:00</td>
<td>Alexi Morin-Duchesne (Ghent University)</td>
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<td>17:00–18:30</td>
<td>Réception / Reception</td>
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Le vendredi 7 octobre 2022 / Friday, October 7, 2022

09:00–09:30 Irfan Mahmood (University of the Punjab)
 «TBA (Online)»
 “TBA (Online)”

09:30–10:15 Yuan Miao (Galileo Galilei Institute for Theoretical Physics)
 «Onsager algebras in quantum lattice models (Online)»
 “Onsager algebras in quantum lattice models (Online)”

10:15–10:45 Pause-café / Coffee break (Salle / Room 6245)

10:45–11:15 Oleg Lychkovskiy (Skoltech Faculty)
 «Dynamics of quantum integrable systems via coupled Heisenberg equations: models with Onsager algebra and more (Online)»
 “Dynamics of quantum integrable systems via coupled Heisenberg equations: models with Onsager algebra and more (Online)”

11:15–12:00 Balázs Sandor Pozsgai (Eötvös Loránd University)
 «Large coupling limits of integrable spin chains»
 “Large coupling limits of integrable spin chains”