

**Workshop on  
Combinatorics and Statistical Physics  
May 19 – 30, 2008  
organized by M. Drmota, C. Krattenthaler, B. Nienhuis and  
M. Bousquet-Mélou.**

**MONDAY, May 19**

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|--------------------------------|--|
| 9:30–10:15 Tony Guttmann:      | Quasi-prudent and prudent self-avoiding walks and polygons |
| ————— <i>Coffee break</i>      |  |
| 11:00–11:45 Christoph Richard: | A radius of gyration study for square lattice poly-gons    |
| 14:30–15:15 Jesper Jacobsen:   | Boundary loop models                                       |
| ————— <i>Coffee break</i>      |  |
| 16:00–16:45 Bálint Vetö:       | Models of the true self-avoiding walk on $\mathbb{Z}$      |

**ESI Common Room**

17.30 Reception

**TUESDAY, May 20**

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|-------------------------------|---|
| 9:15–10:00 Pavel Pyatov:      | Stochastic raise and peel model and combinatorics of Pascal's hexagon                             |
| 10:15–11:00 Jan de Gier:      | Punctured plane partitions, restricted fully packed loop diagrams and nest distribution functions |
| ————— <i>Coffee break</i>     |   |
| 11:45–12:30 Roger Behrend:    | Higher spin alternating sign matrices   |
| 14:30–15:10 Keiichi Shigechi: | Orthogonal basis and the quantum Knizhnik–Zamolodchikov equation of level one                     |
| ————— <i>Coffee break</i>     |   |
| 16:00–16:45 Xavier Viennot:   | An alternative approach to alternating sign matrices  |

## WEDNESDAY, May 21

- 9:15–10:00 Gérard Duchamp: Algebras of diagrams and the EGF Hadamard Product
- 10:15–11:00 Rinat Kedem: Cluster algebras and the Kirillov-Reshetikhin conjecture
- *Coffee break*
- 11:45–12:30 Bruno Salvy: Gfun: 15 years later
- *Free Afternoon*

## THURSDAY, May 22

- 9:15–10:00 Pavel Bleher: Exact solution of the six-vertex model with domain wall boundary conditions
- 10:15–11:00 Filippo Colomo: The limit shape of large Alternating Sign Matrices
- *Coffee break*
- 11:45–12:30 Gordon Slade: Invasion percolation on a regular tree
- 14:30–15:10 Soichi Okada: A compound determinant identity and its application
- *Coffee break*
- 16:00–16:45 Omar Foda: Free fermions, plane partitions and integrable hierarchies

**Heuriger Steinschaden, Kahlenbergerstraße 18, 1190 Wien**

18.30 **Heurigenabend (Conference Dinner)**

## FRIDAY, May 23

- 9:30–10:15 Balázs Rath: Erdős–Rényi random graphs + forest fires = self organized criticality
- *Coffee break*
- 11:00–11:45 Marc Noy: Random planar graphs
- *Free Afternoon*

## MONDAY, May 26

- 9:30–10:15 Jérémie Bouttier: Statistics of geodesics in large quadrangulations
- *Coffee break*
- 11:00–11:45 Emmanuel Guitter: The three-point function of planar quadrangulations
- 14:30–15:15 Alexander Berkovich: TBA
- *Coffee break*
- 16:00–16:45 Remco van der Hofstad: Random graph asymptotics on high-dimensional tori

## **TUESDAY, May 27**

- 9:15–10:00 Vladimir Korepin: History of domain wall boundary conditions for six vertex model
- 10:15–11:00 Alexander Razumov: Enumerations of alternating-sign matrices without Izergin–Korepin determinant
- *Coffee break*
- 11:45–12:30 Yuri Stroganov: Three colour statistical model with domain wall boundary conditions
- 14:30–15:10 Masao Ishiwaka: Littlewood’s (Cauchy’s) formulae of Schur functions and constant term expressions for the refined enumeration problems of TSSCPPs
- *Coffee break*
- 16:00–16:45 Philippe Di Francesco: Integrable Combinatorics: from qKZ to TSSCPP

## **WEDNESDAY, May 28**

- 9:30–10:15 Deepak Dhar: Exact entropy of dimer coverings of lattices in three and more dimensions
- *Coffee break*
- 11:00–11:45 Yvan Le Borgne: A normalization formula for Jack polynomials in superspace
- *Free Afternoon*

## **THURSDAY, May 29**

- 9:30–10:15 Aleks Owczarek: A tale of two napkins: Interacting partially directed walks with a tensile force and variable flexibility
- *Coffee break*
- 11:00–11:45 Buks van Rensburg: Directed paths in a layered environment
- 14:30–15:15 Makoto Katori: Noncolliding Brownian motions with arbitrary initial configuration and multiple Hermite polynomials
- *Coffee break*
- 16:00–16:45 Andrew Rechnitzer: Atmospheres, kinetic growth and approximate counting

**Heuriger Feuerwehr-Wagner, Grinzingerstraße 53, 1190 Wien**

**18.30 Heurigenabend (Conference Dinner)**

**FRIDAY, May 30**

9:30–10:15 Thomas Prellberg: Counting Defective Parking Functions

————— *Coffee break*

11:00–11:45 Anatoly Vershik: Combinatorics and integration over random configurations

————— *Free Afternoon*

**All lectures take place at the Boltzmann Lecture Hall**