

**Program of Séminaire Lotharingien de Combinatoire n. 89 and Brenti Fest  
March 26<sup>th</sup> - 29<sup>th</sup>, 2023**

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**Sunday 26<sup>th</sup> March** – 20.30 Welcome Reception

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**Monday 27<sup>th</sup> March** – Morning session: Sala Jacopo da Bertinoro

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- 9.00 – 09.50      Christian Stump  
Lecture 1: Subword complexes and brick polyhedra
- 10.00 – 10.25      Roberto Pagaria  
Integral points in graphical zonotopes: an application to the Hitchin fibrations
- 10.30 – 10.55      **Coffee break**
- 11.00 – 11.25      José Bastidas  
The Primitive Eulerian polynomial
- 11.30 – 11.55      Chiara Mantovani  
A realization of poset associahedra as sections of graph associahedra
- 12.00 – 12.25      Aram Dermenjian  
Enumerating Weyl Cones of Shi arrangements
- 12.30 – 12.55      Balthazar Charles  
Minimal elements of Shi regions in affine Weyl groups
- 13.00 – 15.30      **Lunch at the canteen and free time**
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Afternoon session: Sala Jacopo da Bertinoro

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- 15.30 – 16.20      Christian Stump  
Lecture 2: Subword complexes and brick polyhedra
- 16.25 – 16.55      **Coffee break**
- 17.00 – 17.25      Leonardo Saud Maia Leite  
A study about the chain polynomial of the lattice of flats of a matroid
- 17.30 – 17.55      Inês Rodrigues  
A local characterization of quasi-crystal graphs
- 18.00 – 19.30      **Poster Session**

## Brenti Fest

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**Tuesday 28<sup>th</sup> March** - Morning session: Sala Jacopo da Bertinoro

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- 9.15 – 10.00      Ron Adin  
Descents – variations on a theme
- 10.00 – 10.25      **Coffee break**
- 10.30 – 11.15      Roberto Conti  
From operator algebras to combinatorics: the case of Cuntz algebras automorphisms
- 11.30 – 12.15      Christophe Hohlweg  
Problems around inversions and descents sets in Coxeter groups
- 12.25 – 14.55      **Lunch at the canteen and free time**
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Afternoon session: Sala Jacopo da Bertinoro

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- 15.00 – 15.45      Vic Reiner  
Francesco, Polya-frequency sequences, and Koszulity – online talk
- 16.00 – 16.45      Volmar Welker  
Subdivision of simplicial complexes beyond f- and h-vectors
- 16.45 – 17.10      **Coffee break**
- 17.15 – 18.00      Richard Stanley  
The X-Descent Set of a Permutation - online talk
- 18.15 – 19.00      Francesco Brenti  
Some open problems on Coxeter groups and unimodality
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20.30 **Social dinner** : [Ca' de Bè Osteria Enoteca](#) – Piazza della Libertà 9, 47032 Bertinoro

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## Séminaire Lotharingien de Combinatoire n. 89

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**Wednesday 29<sup>th</sup> March** - Morning session – Sala Jacopo da Bertinoro

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- 09.00 – 09.50      Christian Stump  
Lecture 3: Subword complexes and brick polyhedra
- 10.00 – 10.25      Davide Bolognini  
Linear extensions and shelling orders
- 10.30 – 10.55      **Coffee break**
- 11.00 – 11.25      Inês Legatheaux Martins  
The rank partition: new applications in matroid and representation theory
- 11.30 – 11.55      Galen Dorpalen-Barry  
The Poincare-Extended ab-Index
- 12.00 – 12.25      Eva Philippe  
Geometric Aspects of Realizations of the s-Permutahedron
- 12.30 – 15.00      **Lunch at the canteen and end of the conference**

## Poster Session

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**Monday 27<sup>th</sup> March** - 18.00 – 19.30: Sala Jacopo da Bertinoro

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Olga Azenhas: Non Symmetric Cauchy kernel, crystals and last passage percolation

Lorenzo Campioni: Maximal Unrefinable Partitions into Distinct Parts

Clément Chenevière: On linear intervals in the alt nu-Tamari lattices

Sabino Di Trani: Some Combinatorial Smoothness Criteria for T-Fixed Points in Flat Linear Degenerations

Albertin Dorien: A quasisymmetric invariant for families of posets

Corentin Henriët: From Tamari intervals to planar simple triangulations

Hans Höngesberg: Alternating sign matrices with reflective symmetry and plane partitions:  $n+3$  pairs of equivalent statistics

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**Monday 27<sup>th</sup> March** - 18.00 – 19.30: Sala Guarnigione

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Jihyeug Jang: Negative moments of orthogonal polynomials

Germain Poullot: Monotone path polytopes: the case of the hypersimplex  $\Delta(n,2)$

Alexander Lazar: Vertex Order Shellings

Loïc Le Mogne: Deficit and  $(q, t)$ -symmetry in triangular Dyck paths

Andrea Rivezzi: Combinatorics of the Universal Drinfeld-Yetter algebra

Florian Schreier-Aigner:  $(-1)$ -Enumerations of arrowed Gelfand-Tsetlin patterns

Daniel Tamayo Jiménez: Combinatorial Aspects of Realizations of the  $s$ -Permutahedron