

Cluster Algebras: 20 Years On

CIRM March 19–23 2018

PROGRAM

Monday March 19

7:30–9:00 Breakfast

9:00–9:50 **Vladimir Fock** (Université de Strasbourg)
Clusters and τ -function

10:00–10:50 **Ralf Schiffler** (University of Connecticut)
Cluster algebras and Jones polynomials

11:00–11:25 Coffee

11:25–12:15 **Tomoki Nakanishi** (Nagoya University)
Periodicities of x - and y -variables in cluster algebras

12:25–14:00 Lunch

17:00–17:50 **Anna Felikson** (Durham University)
*Quiver mutations, reflection groups and curves
on a punctured disc*

18:00–18:50 **Daniel Labardini-Fragoso** (Univ. Nacional Autónoma de México)
Associative algebras arising from surfaces with orbifold points

19:30–20:30 Dinner

Tuesday March 20

7:30–9:00 *Breakfast*

9:00–9:50 **Harold Williams** (University of California at Davis)
The coherent Satake category

10:00–10:50 **David Hernandez** (Université Paris-Diderot)
Quantum Grothendieck ring isomorphisms, cluster algebras and Kazhdan-Lusztig algorithm

11:00–11:25 *Coffee*

11:25–12:15 **Rinat Kedem** (University of Illinois)
From Q -systems to quantum affine algebras and beyond

12:25–14:00 *Lunch*

17:00–17:50 **Sergey Fomin** (University of Michigan)
Morsifications and mutations

18:00–18:50 **Karin Baur** (Universität Graz)
Friezes and cluster structures on Grassmannians

19:30–20:30 *Dinner*

Wednesday March 21

7:30–9:00 *Breakfast*

9:00–9:50 **Lauren Williams** (University of California at Berkeley)
Newton-Okounkov bodies for Grassmannians

10:00–10:50 **Nathan Reading** (North Carolina State University)
Dominance phenomena: mutation, scattering and cluster algebras

11:00–11:25 *Coffee*

11:25–12:15 **Michael Shapiro** (Michigan State University)
Cluster structures on Poisson-Lie groups

12:25–14:00 *Lunch*

18:30–19:30 *Apéritif*

19:30–20:30 *Dinner*

Thursday March 22

7:30–9:00 *Breakfast*

9:00–9:50 **Hugh Thomas** (Université du Québec À Montréal)
Generalized associahedra via representation theory

10:00–10:50 **Osamu Iyama** (Nagoya University)
Preprojective algebras and Cluster categories

11:00–11:25 *Coffee*

11:25–12:15 **Gordana Todorov** (Northeastern University)
Homology of Picture Groups

12:25–14:00 *Lunch*

17:00–17:50 **Robert Marsh** (University of Leeds)
 τ -exceptional sequences

18:00–18:50 **Rei Inoue** (Chiba University)
R-matrices in cluster algebra

19:30–20:30 *Dinner*

Friday March 23

7:30–9:00 *Breakfast*

9:00–9:50 **Milen Yakimov** (Louisiana State University)
c-vectors of 2-Calabi-Yau categories and Borel subalgebras of \mathfrak{sl}_∞

10:00–10:50 **Dylan Rupel** (University of Notre Dame)
Cluster Symplectic Groupoids

11:00–11:25 *Coffee*

11:25–12:15 **Jan Schröer** (Universität Bonn)
Irreducible components of module varieties and cluster algebras

12:25–14:00 *Lunch*

14:00–14:50 **Sergei Tabachnikov** (Penn State University)
Cross-ratio dynamics on ideal polygons

19:30–20:30 *Dinner*