

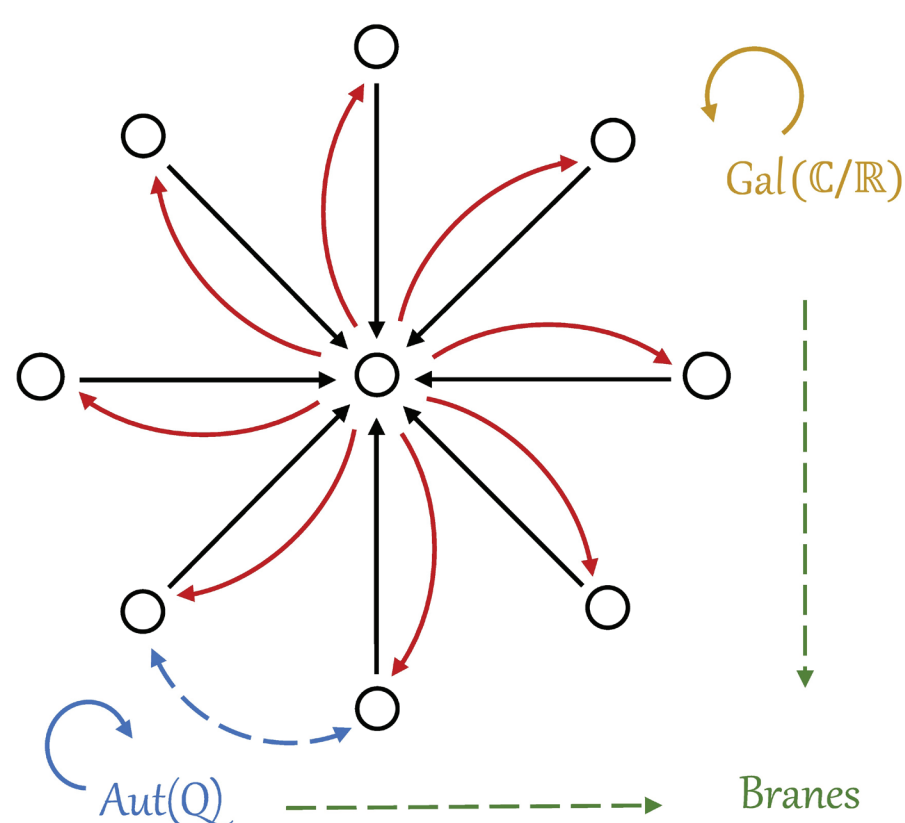


Berlin
Mathematical
School

BMS Days 2019

Monday 18 February 2019

BMS Loft, Urania, An der Urania 17, 10787 Berlin



© Victoria Hoskins

11:00 Victoria Hoskins (FU Berlin)

15:30 Volker Kaibel (U Magdeburg)

Victoria Hoskins: The ubiquity of quiver moduli

Moduli of quiver representations generalise many classification problems in linear algebra and lead to quiver moduli spaces which appear in algebraic geometry, mathematical physics, symplectic and hyperkähler geometry, as well as representation theory. After introducing moduli spaces and quiver representations, Hoskins will discuss some surprising occurrences of quiver moduli spaces.

Victoria Hoskins is a junior professor of algebraic geometry and complex analysis at the FU Berlin. Her research interests include moduli of sheaves and moduli of quivers, geometric invariant theory, moment maps and symplectic reduction.

Volker Kaibel: Projections in combinatorial optimization

Formulating problems via linear inequalities and projections is at the heart of the polyhedral combinatorics approach to combinatorial optimization. In his talk, Kaibel will present some examples for which this can be achieved with surprisingly few inequalities and will give an almost pictorial proof showing that for other problems exponentially many inequalities are required.

Volker Kaibel is a professor of mathematics and a Chair for Mathematical Optimization at the Otto von Guericke University Magdeburg. His scientific research focuses on discrete mathematics with a strong emphasis on optimization and geometry.



© Volker Kaibel