

COLLOQUIUM

MATHEMATICS AND STATISTICS
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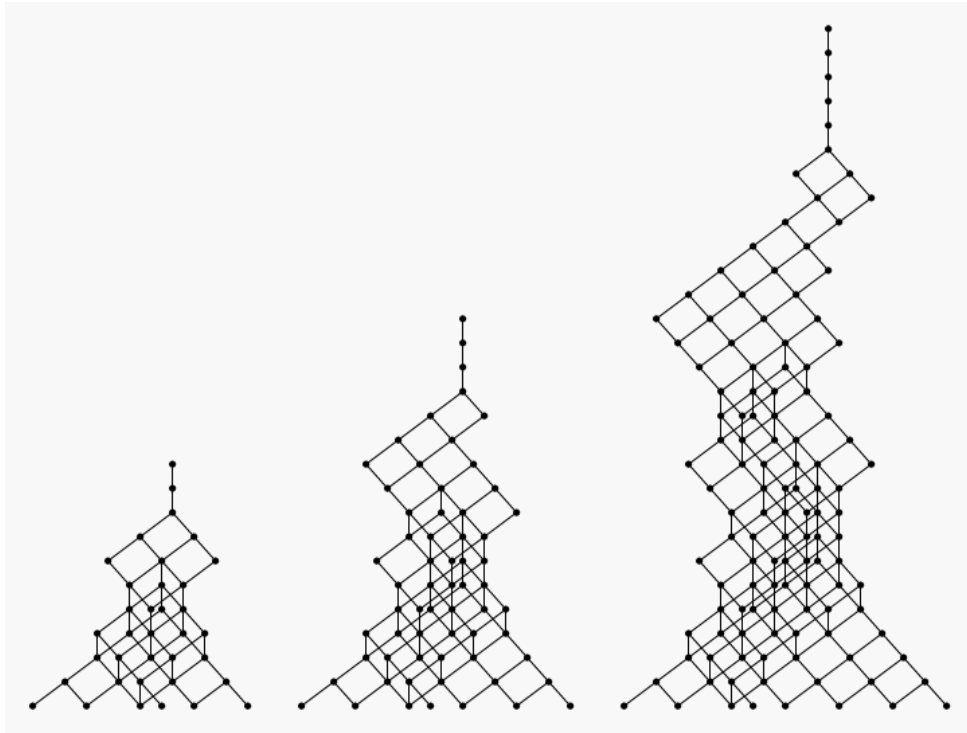


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SEMI-INVARIANTS OF QUIVERS

Abstract. In this talk, I will give an introduction to semi-invariants of quivers, a topic linking representation theory to invariant theory. I will define the ring of semi-invariants of a quiver and explain how one could get a nice set of generators of this ring, using representation theory. If time permits, we will look at some cases where such rings are completely understood. For most of the talk, only basic linear algebra is required.

Charles Paquette (RMC)

Charles Paquette obtained his Ph.D. in Mathematics in 2010 from Université de Sherbrooke with a thesis on *Homological conjectures, stable categories and representations of an infinite quiver*. He then became Postdoctoral Fellow at the University of New Brunswick (2011–2014) and at the University of Connecticut (2014–2017). Dr. Paquette is now Assistant Professor at the Royal Military College of Canada in Kingston. His main research topic is representation theory of algebras.

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