

Department of Mathematics and Statistics

Colloquium Announcement

Wednesday
January 25 2017
University of Saskatchewan

ARTS Building
Room 217
3:30 PM

Matrix problems and quiver representations

Guest Speaker: **Dr. Ryan Kinser**
University of Iowa

Abstract:

I will tell the story of how a simple visualization tool, namely directed graphs (quivers), provides a unified approach to ideas from classical linear algebra to modern representation theory.

The talk is intended to be completely expository, with the goal of progressing from a brief recollection of Jordan and Smith normal forms to simple statements of some of the major theorems about finite-dimensional algebras from the 1970s.

I hope it will be suitable for both graduate students and also mathematicians more advanced in their careers.



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