



# ALGEBRA SEMINARS

## Quiver Representations

By

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**Abstract:** A quiver is a directed graph where multiple edges and loops are allowed. In this introductory talk we describe representation spaces of quivers. A representation of a quiver assigns a vector space to each vertex, and a linear map to each arrow.

Isomorphism classes of representations of a fixed dimension correspond to orbits of algebraic groups in certain representations. This allows us to study the classification of quiver representations using invariant theory.

**Date:** November 26, 2018

**Time:** 10:40 – 11:50

**Place:** SA141 Mathematics Seminar Room

\* Tea and cookies will be served before the talk. All are most cordially invited.