

Colloquium

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AN INTRODUCTION TO CLUSTER ALGEBRAS

Friday, March 1st, 2019
3:00 p.m. in ES-143
(tea & coffee at 2:30 p.m. in ES-152)

ABSTRACT. Cluster algebras are commutative algebras with a special combinatorial structure. They originated in Lie theory in the context of canonical bases and total positivity, but are now connected to a number of areas including combinatorics, representation theory, knot theory, integrable systems and algebraic geometry. In this talk, we give an overview of the theory and highlight some of its applications.