

ISU ALGEBRA SEMINAR



Date: Thursday, November 8, 2018

Time: 1:00PM-1:50 PM

Location: STV 131

Speaker: Katrina Barron

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Talk Title: Indecomposable modules for vertex operator algebras and logarithmic conformal field theory

Abstract: Up until about 10 years ago, the main vertex operator algebras of interest were those that had semi-simple representation theory. Such algebras were studied by mathematicians for their interesting connections to representations of finite simple groups and Lie algebras, as well as deep connections to number theory, and were studied by physicists as the basic building blocks of the theory of conformal fields, including string theory. However in the last decade, vertex operator algebras with non semi-simple representation theory are increasingly proving to be of importance both as an interesting mathematical setting and as the basis for logarithmic conformal field theory, a physical theory that incorporates disordered systems. This talk will be an overview of some of the different aspects of these two different settings.

