

ISU ALGEBRA SEMINAR



SPRING 2017 SCHEDULE

Wednesdays, 11:00 AM-11:50 AM at STV 216

April 12, 2017

Speaker: Gaywalee Yamskulna

Talk title: On Mathieu Moonshine conjecture and Super Lattice Theories

Abstract: Mathieu Moonshine Conjecture is named for the mysterious connection between the largest Mathieu group M_{24} and the complex elliptic genus of a K3 surface. This conjecture asserts that there exists a super vertex operator algebra which is a representation of M_{24} and of the $N=4$ super conformal algebra with a twisted Jacobi function given by the K3 elliptic genus.

In this talk, I will discuss connections between vertex operator superalgebras associated with odd lattices, and the Mathieu Moonshine conjecture.

This talk is based on my joint works with Mason and Tuite.

