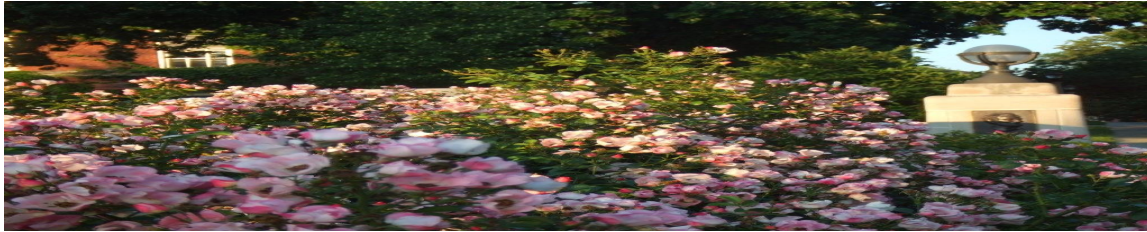


ISU ALGEBRA SEMINAR



SPRING 2017 SCHEDULE

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

February 8, 2017

Speaker: Lucian Ionescu

Title: Periods, Feynman integrals and Jacobi sums

Abstract: In 1999 Kontsevich identified and defined a new class of numbers, called periods, extending the class of algebraic numbers. Special cases of periods originate from Feynman integrals and multiple zeta values, which amazingly are related: real probabilities of high energy collisions are mathematical constants!

The connection with string amplitudes, the so called Veneziano amplitudes, leads to their formal discrete analog, the Jacobi sums of characters of finite fields.

This topic is current research in algebraic geometry and mathematical-physics.