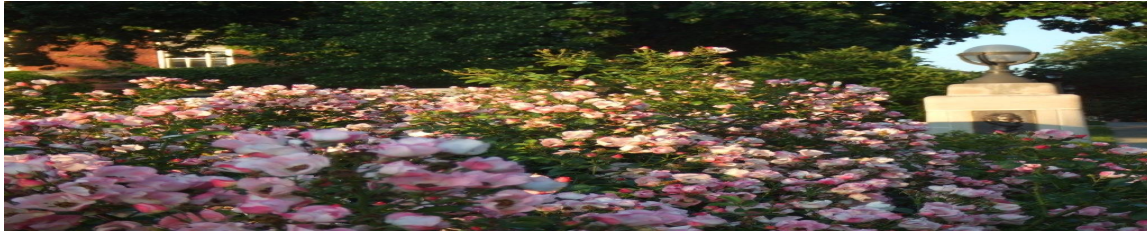


ISU ALGEBRA SEMINAR



SPRING 2018 SCHEDULE

Thursdays, 1:00 PM-1:50 PM at STV 352

Date: March 1, 2018

Speaker: Professor Lucian Ionescu

Talk Title: Primes and Deformations

Abstract: Rational primes and irreducible polynomials are very much related (Akman, F.), especially if going further to their quotients: finite fields and number fields (Ionescu-Zarrin).

Moreover, p -adic and real numbers coincide on the rational part, and are BOTH deformations of the system of digits mod p or $\mathbb{Z}/10\mathbb{Z}$, allowing to "glue" the polynomial ring "sheets", one for each degree (Use Topologist's intuition here ...).

I will present the overall setup for this exciting research: monoidal rings, their spectra and some questions regarding how this behaves under quotients and deformations ...

