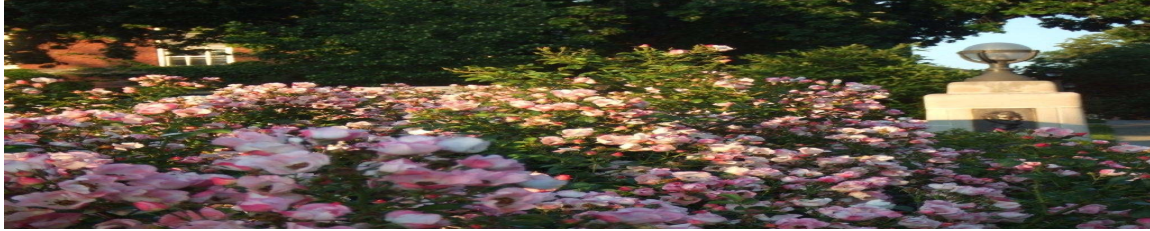


ISU ALGEBRA SEMINAR



Date: Wednesday, February 20, 2019

Time: 10:00 AM-10:50 AM

Location: STV 325

Speaker: Lucian Ionescu

Talk title: From Galois Theory to Anabelian Geometry

Abstract: The main point of Galois Theory is how symmetries (for example the Galois group) determine the object (fields and its subfields, via Galois correspondence). Grothendieck, around 1980s, took this to another level, that he referred to as Anabelian Geometry. The main concept is the algebraic fundamental group, with Galois group as a dominant example, and the problem is: When the algebraic fundamental group determines the corresponding "space". The theory relates to Riemann surfaces and branching covers, which I will explain on pictures.