

*Algebraic Geometry and
Commutative Algebra Seminar*



Speaker: Morgan Brownl
Michigan

Wednesday, April 8, 2015
3:00 pm
Room: 258 Hurley Hall

Title: The Poisson transform on a compact, real analytic Riemannian manifold

Abstract:

Berkovich spaces are a natural setting for analysis on varieties over fields with non-archimedean valuation. They have been studied in a variety of contexts, including tropical geometry and number theory. I will give an introduction to Berkovich spaces, and explain recent connections between the theory of Berkovich spaces and the minimal model program. In particular, I will show that if X is a rationally connected smooth projective variety over the Laurent series $\mathbb{C}((t))$, the Berkovich space is a contractible topological space. This is joint work with Tyler Foster.