

Topology, Algebraic Geometry, & Dynamics Seminar

Topological realization of varieties over $\text{Spec } \mathbb{C}((t))$ via log geometry

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I will describe some work in progress with Piotr Achinger about defining a “Betti realization” functor for varieties over the formal punctured disk $\text{Spec } \mathbb{C}((t))$, i.e. defined by polynomials with coefficients in the field of formal Laurent series in one variable. Our construction is via good models over the power series ring $\mathbb{C}[[t]]$ and the “Kato-Nakayama” construction in logarithmic geometry, that I will review during the talk.

Date: **Friday, April 6th, 2018**

Time: **2:30-3:20 pm**

Place: **4106 Exploratory Hall**

For special accommodations, please contact Sean Lawton via email at slawton3@gmu.edu.