

Michigan Math Club

Thursday at 4pm in the Nesbitt Room

Free Pizza and Pop

Visualizing Projective Space

Becca Rebhuhn-Glanz

Abstract for 10 October

The real projective plane is a famous topological space that doesn't embed into 3-space. It's also one of infinitely many projective spaces over the real numbers. As Flatland helps its readers picture 4-space, this talk will help us visualize real and complex projective spaces. Once we understand them, we'll look at the statement of Bezout's theorem about intersections of curves in the complex projective plane. We'll see why the theorem needs projective space, and we'll discover what it can tell us about spaces we can't draw.

