

## ***FELIX KLEIN SEMINAR***

**Guest Speaker: Andrew Zimmer**  
**University of Chicago**

**Date:** Thursday, November 10, 2016

**Time:** 2:00 PM

**Location:** 125 Hayes-Healy Hall



**Lecture Title:**

**Negatively curved metric spaces and several complex variables**

**Abstract**

In this talk I will discuss how to use ideas from the theory of metric spaces of negative curvature to understand the behavior of holomorphic maps between bounded domains in complex Euclidean space. Every bounded domain has a metric, called the Kobayashi metric, which is distance non-increasing with respect to holomorphic maps. Moreover, this metric often satisfies well-known negative curvature type conditions (for instance, Gromov hyperbolicity or visibility) and one can then use this negative curvature to understand the behavior of holomorphic maps. Some of what I will talk about is joint work with Gautam Bharali.