Advancement to Candidacy

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K Stability and Moduli Spaces of Vector Bundles

Abstract:
Recently there has been great progress in constructing moduli spaces of K-stable Fano Varieties, and there are many questions to ask about the geometry of these moduli spaces. The question I am considering is whether they are uniruled. My goal is to show that there are components of these moduli spaces that are general type, answering that question in the negative. I wish to do this by studying moduli spaces of vector bundles on curves, showing they are K-stable, and studying the components of the moduli space of K-stable Fano varieties that parametrize them.

Advisor: James McKernan

Friday, June 4, 2021
11:00 AM
Email Jacob Keller for the zoom information