

GEOMETRIC ANALYSIS SEMINAR

Speaker: Behrouz Taji
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Date: Thursday, August 30, 2018

Time: 9:30 AM

Location: 258 Hurley Hall



Lecture Title:

Introduction to the minimal model program

Abstract

This will be a very light introduction to the classification of smooth (complex) projective varieties via a sequence of birational "surgery operations". Such operations are redundant in dimension one as there are not many objects to classify. Every smooth projective curve is isomorphic to either the projective line, a torus or a hyperbolic curve. But in higher dimensions the isomorphism classes are too vast to allow for such a straightforward classification. We thus switch to the more flexible, birational classes. This is the aim of the so-called Minimal Model Program. My goal in this talk is to introduce the main objects, tools, theorems and open problems in this program, but with more focus on the relatively manageable case of the surfaces.