Department of Mathematics
University of Notre Dame

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR
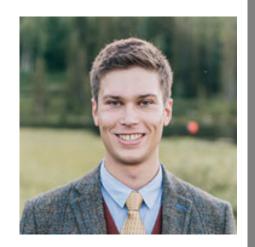
Speaker: Richard Birkett
University of Notre Dame

Date: Tuesday, November 30, 2021
Time: 2:30 PM
Location: 125 Hayes-Healy Hall
Zoom URL:

Lecture Title:
Dynamically Stabilising Birational Surface Maps: Two Methods

Abstract

We provide two new approaches to a theorem of Diller and Favre. Namely, a birational self-map $f : X \dashrightarrow X$ on a smooth projective surface X is birationally conjugate to a map which is algebraically stable. Among other things, the first approach confirms the validity of a longstanding practical method to stabilise birational maps. Secondly we show that a map becomes algebraically stable if one repeatedly lifts the map to its graph.