

Manin's conjecture and the Fujita invariant of finite covers

Akash Sengupta, Princeton University

Let X be a Fano variety defined over a number field. Manin's conjecture predicts an asymptotic formula for the number of rational points (outside of a thin set) on X with bounded height. According to the conjecture, the growth of rational points is governed by the Fujita invariant (or the a -constant). In this talk we will use birational geometric methods to prove statements related to Manin's conjecture. In particular, we will study the behavior of the Fujita invariant under pull-back to generically finite covers and prove a statement about geometric consistency of Manin's conjecture