

1070-11-145

Xander Faber* (xander@math.uga.edu). *Uniform bounds for rational iterated pre-images.*

Let k be a number field, E/k an elliptic curve, and p a rational prime. A result of Manin from the late 1960s asserts that one can uniformly bound the p -part of the group of k -rational points $E(k)$ in terms of p and k alone. I will discuss a dynamical analogue of this result for rational functions on the projective line and some related geometric questions. (Received February 07, 2011)