
SHABNAM AKHTARI, Queen's
Quartic Thue Equations

Applying the theory of linear forms in logarithms, we will give upper bounds upon the number of integral solutions to binary quartic Thue equations. We will treat a certain family of quartic binary forms using a classical theorem of Thue based on Padé approximation to binomial functions. We shall also discuss the relation between the number of integral solutions to quartic Thue equations and integral points on elliptic curves.