

1089-11-305

Shabnam Akhtari* (akhtari@uoregon.edu), Eugene, OR. *Thue inequalities with few solutions*. Preliminary report.

Let $F(x, y)$ be a binary form of degree $n \geq 3$ with integer coefficients and non-zero discriminant. I will use different techniques from Diophantine analysis to study the number of integer solutions (x, y) to Thue inequality

$$|F(x, y)| \leq m,$$

where m is an integer. It is well-known that the number of solutions to this inequality is finite. If the integer m is small enough in terms of the discriminant of F then we may obtain an upper bound for the number of solutions that only depends on n , the degree of F . (Received February 18, 2013)