

1108-11-354

Aaron Levin* (adlevin@math.msu.edu). *Siegel's theorem and the Shafarevich conjecture.*

It is known that in the case of hyperelliptic curves the Shafarevich conjecture can be made effective, i.e., for any number field k and any finite set of places S of k , one can effectively compute the set of isomorphism classes of hyperelliptic curves over k with good reduction outside S . We show that an extension of this result to an effective Shafarevich conjecture for *Jacobians* of hyperelliptic curves of genus g would imply an effective version of Siegel's theorem for integral points on hyperelliptic curves of genus g . (Received January 18, 2015)