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Pete L. Clark and **Allan Lacy*** (alacy@math.uga.edu), Department of Mathematics, Boyd Graduate Studies Research Center, University of Georgia, Athens, GA 30602. *On the index of genus one curves over infinite, finitely generated fields.*

We show that every infinite, finitely generated field admits genus one curves with index equal to any prescribed positive integer. The proof is by induction on the transcendence degree. This generalizes – and uses as the base case of an inductive argument – an older result on the number field case. There is a separate base case in every positive characteristic p , and these use work on the conjecture of Birch and Swinnerton-Dyer over function fields. (Received September 16, 2014)