AMIR AKBARY, University of Lethbridge, Lethbridge, Alberta Reduction $mod\ p$ of subgroups of the Mordell–Weil group of an elliptic curve

We investigate that for a free subgroup of the Mordell–Weil group of an elliptic curve defined over rationals, how the order of the reduction of this subgroup mod p varies as p goes to infinity. We discuss some results regarding the lower bounds on the size of the reduced subgroup.

This is a joint work with Kumar Murty.