

Aaron Levin (Michigan State University). “Linear forms in logarithms and integral points on varieties.”

Abstract: One of the few effective methods in number theory comes from the theory of linear forms in logarithms, primarily due to Alan Baker. This theory has been applied, with notable success, largely in the context of curves. We will discuss an application to integral points on higher-dimensional varieties, generalizing an effective result of Vojta on the four-term (homogeneous) S -unit equation, $|S| < 4$.