

New Rational Points of Algebraic Curves over Extension Fields

Friday, July 5, 2019 4:45 PM (1 hour)

For L/K an extension of fields and V an algebraic variety over K say that V is Diophantine Stable for the extension L/K if $V(L) = V(K)$. That is, if ' V acquires no new rational points' when one makes the field extension from K to L . I will describe some recent results joint with Karl Rubin regarding Diophantine Stability and give a survey of related recent statistics, heuristics, and conjectures.

Presenter: Prof. MAZUR, Barry (Harvard University)