

## **New Rational Points of Algebraic Curves over Extension Fields**

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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.

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