Dynamical Systems Working Seminar

The dynamical Mordell-Lang conjecture

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Abstract: Suppose that phi is an endomorphism of a smooth complex algebraic variety, p is a point on X, and V is a subvariety of X. The dynamical Mordell-Lang conjecture predicts that the set of n for which $phi^n(p)$ lands in V is the union of finitely many arithmetic progressions and a finite set. (This is already interesting when phi is just a matrix acting on $CP^n!$) I'll give a general introduction to the conjecture: where does it come from, what are some interesting cases, and what sorts of techniques come into play?

Tuesday, February 16 at 3:00 PM in SEO 712