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Dynamics in combinatorial geometry

Associated to a surjective endomorphism of smooth projective varieties $f: X \rightarrow X$ is a number $\lambda_1(f) \geq 1$ which measures the geometric complexity of the dynamics of the morphism. Kawaguchi and Silverman conjectured that this geometric notion agrees with an associated arithmetic notion of dynamical complexity. We will explore some recent work on this conjecture in the context of combinatorial geometry.