Simultaneous Rational Periodic Points for Degree-2 Rational Maps

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One of the main goals in arithmetic dynamics is to study the behaviour of points under the iteration of rational maps. The orbit of a point under a rational map is the set of the images of the point under the iterations of the map. Assuming standard conjectures on the size of finite orbits under rational maps of degree two over the rational field, we will discuss some intersection results on finite orbits of such rational maps.