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Kawaguchi-Silverman for Projective Bundles on Elliptic Curves

The Kawaguchi-Silverman Conjecture is a recent conjecture equating two invariants of a dominant rational map between projective varieties: the *first dynamical degree*, which measures the topological mixing of the map; and the *arithmetic degree*, which measures the complexity of rational points under iteration. Recently, the conjecture was established for several classes of varieties, including projective bundles over any non-elliptic curve. We will discuss my recent work with Brett Nasserden to resolve the elliptic curve case, hence proving the conjecture for all projective bundles on curves.