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Kawaguchi-Silverman Conjecture for Projective Bundles on Curves

The Kawaguchi-Silverman Conjecture (KSC) is a recent conjecture equating two invariants of a dominant rational map between projective varieties: the first dynamical degree and arithmetic degree. The first dynamical degree measures the topological mixing of the map, and the arithmetic degree measures how complicated rational points become after iteration. Recently, the conjecture was established for several classes of varieties, including projective bundles over any non-elliptic curve. Together with Brett Nasserden (Western Ontario), I resolve the elliptic case, hence proving KSC for all projective bundles over curves.