Injectivity of rational maps on rational points

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The recent Carney–Hortsch–Zieve conjecture asserts that every rational map $f : \mathbb{Q} \to \mathbb{Q}$ is at most 32-to-1 over all but finitely many values. We shall discuss recent advancements towards proving this conjecture, and its proof in sufficiently large degree.

Based on joint work with Thao Do, Nimrod Segol and Michael Zieve.