Obstructions to rational points from Galois actions on fundamental groups. Preliminary report.

We study obstructions to rational points on curves coming from the Galois action on the fundamental group of the curve, with the goal of producing curves with no $\pi_1$-section, and hence no rational points. In particular, such curves would give examples where the section conjecture holds. This is joint work in progress with Dean Bisogno, Wanlin Li and Daniel Litt. (Received September 16, 2019)