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([hast@math.wisc.edu](mailto:hast@math.wisc.edu)). *Rational points on solvable curves over  $\mathbb{Q}$  via non-abelian Chabauty.*

We study the Selmer varieties of smooth projective curves of genus at least two defined over  $\mathbb{Q}$  which geometrically dominate a curve with CM Jacobian. We extend a result of Coates and Kim to show that Kim's non-abelian Chabauty method applies to such a curve. By combining this with results of Bogomolov–Tschinkel and Poonen on unramified correspondences, we deduce that any cover of  $\mathbf{P}^1$  with solvable Galois group, and in particular any superelliptic curve over  $\mathbb{Q}$ , has only finitely many rational points over  $\mathbb{Q}$ . (Received September 19, 2017)