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Laura S. Walton*, 151 Thayer Street, Box 1917, Providence, RI 02912. *Counting periodic points on quotients of varieties over \mathbb{F}_q .*

Let V be a quasiprojective variety defined over \mathbb{F}_q , and let $\phi : V \rightarrow V$ be an endomorphism of V that is also defined over \mathbb{F}_q . Let G be a finite subgroup of $\text{Aut}_{\mathbb{F}_q}(V)$ with the property that ϕ commutes with every element of G . We show that periodic point counts for the endomorphism on V/G induced by ϕ are related to periodic point counts on V and all of its twists by G . (Received February 19, 2018)