

Unramified Brauer groups of finite simple groups

Tihomir Petrov

I. Courant

New York

We study the subgroup $B_0(G)$ of $H^2(G, \mathbb{Q}/\mathbb{Z})$ consisting of all elements which have trivial restrictions to every Abelian subgroup of G . The group $B_0(G)$ serves as the simplest nontrivial obstruction to stable rationality of (quotient) algebraic varieties V/G where V is a faithful complex linear representation of the group G . We prove that $B_0(G)$ is trivial for finite simple groups of Lie type $A_n(q)$.