

1108-20-121

Bhama Srinivasan and **C. Ryan Vinroot*** (vinroot@math.wm.edu). *Jordan decomposition of real-valued characters of finite reductive groups with connected center.*

Let \mathbf{G} be a reductive group with connected center defined over a finite field \mathbb{F}_q with q elements, and let $G = \mathbf{G}(\mathbb{F}_q)$ be the finite group of \mathbb{F}_q -points. We classify all irreducible complex characters of G which are real-valued through the Jordan decomposition of characters. The main tool is a uniqueness result of Digne and Michel for the Jordan decomposition of characters when the center is connected. (Received January 06, 2015)