

1102-20-99

**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 in the case of a connected center. (Received July 23, 2014)