



Journal of Group Theory

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(PDF, 89 KB)

On representations of groups of odd order

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Citation Information: Journal of Group Theory. Volume 14, Issue 1, Pages 83–91, ISSN (Online) 1435-4446, ISSN (Print) 1433-5883, DOI: 10.1515/jgt.2010.034, July 2010

Publication History:

Received: 25/01/2010;

Published Online: 09/01/2012

Abstract

Let G be a soluble group of odd order generated by the conjugacy class of an element g of prime order p . Let V be a faithful G -module over any field and $C_V(g)$ be the fixed-point subspace of g on V . We prove that $\dim C_V(g) < \frac{1}{2} \dim V$.

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