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On representations of groups of odd order

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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

$$\dim C_V(g) < \tfrac{1}{2} \dim V \ .$$

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