AMIN BRENDJI A., SHAHRYARI M.

ON THE STABILIZER OF CERTAIN DECOMPOSABLE SYMMETRIZED TENSORS

Abstract

Let V be an n-dimensional complex inner product space and let $\{e_1,...,e_n\}$ be an orthonormal basis of V. Suppose G is a permutation group of degree m and χ is an irreducible character of G. We denote by $V_{\chi}(G)$ the symmetry class of tensors associated with G and χ . In this article we consider the decomposable symmetrized tensors e_{α}^* , in which α is a certain sequence $\alpha = (\alpha_1,...,\alpha_m)$ with $1 \le \alpha_i \le n$. Then we obtain the stabilizers of such tensors under the action of G.