

SYMMETRY CLASSES OF TENSORS ASSOCIATED WITH BRAUER CHARACTERS

AVANTHA KODITHUWAKKU

ABSTRACT. The Generalized Orthogonality Relation of (ordinary) characters of a finite group has important applications when identifying the necessary and sufficient conditions for the existence of an orthogonal basis consisting of standard (decomposable) symmetrized tensors for a symmetry class of tensors. We will discuss the existence of a more general version of the Generalized Orthogonality Relation associated with Brauer characters of a finite group.

AVANTHA KODITHUWAKKU, DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO,
SRI LANKA AVANTHAIS@GMAIL.COM