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Schur indices and Character Values of Association Schemes

Content :

Each irreducible character of an association scheme (S, X) determines a simple component of the rational adjacency algebra QS . The center and dimension of the division algebra part of this simple component is determined by the field of character values and Schur index of this character. I will survey what is known about these fields of character values and the methods available for calculating these Schur indices. Most of these results have appeared in joint work with Amir Rahnamai Barghi.

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