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In mathematics, more specifically in

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group theory, the character of a group representation is a function on the group that associates to each group element the trace of the corresponding matrix. The character carries the essential information about the representation in a more condensed form. Georg Frobenius initially

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developed representation theory of finite groups entirely based on the characters, and without any explicit matrix realization of representations themselves. This is possible becau

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tool for proving theorems about finite groups. In addition to dealing with techniques for applying characters to "pure" group theory, a large part of this book is devoted to the properties of the characters themselves and how these properties reflect and are reflected in the structure of the group.

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Given a group G and representations V and W , let $\text{Hom } G(V;W)$ be the linear maps $\phi: V \rightarrow W$ with $\phi \circ V(g) = \phi \circ W(g)$.

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Representation theory and character theory are basic tools for the study of the structure of finite groups. Based on the classical results by Frobenius,

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Burnside, and Schur, character theory makes a central contribution to the complete classification of finite simple groups.

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Understanding finite groups. In particular, the theory has been a key ingredient in the classification of finite simple groups. Characters are also of interest in their own right, and their properties are closely related to properties of the structure of the underlying group.

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Through the fundamental work of
Deligne and Lusztig in the 1970s,

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further developed mainly by Lusztig, the character theory of reductive groups over finite fields has grown into a rich and vast area of mathematics. It incorporates tools and methods from algebraic geometry, topology, combinatorics and computer algebra, and has since evolved substantially.

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The Character Theory of Finite Groups of Lie Type

A linear representation of a finite group is a group homomorphism: $\rho = (\rho(g))$. Here $GL(V)$ $\{\displaystyle \{\text{GL}\}(V)\}$ is notation for a general linear group, and $\text{Aut}(V)$ $\{\displaystyle$

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$\{\text{Aut}\}(V)$ for an automorphism group .

Representation theory of finite groups
- Wikipedia

The character: χ of a representation ρ of a group G on a finite-dimensional vector space V over a field F is the

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trace of the representation χ , i.e. $\chi(g) = \text{tr}(\rho(g))$ for $g \in G$. In general, the trace is not a group homomorphism, nor does the set of traces form a group [citation needed]. The characters of one-dimensional representations are identical to one-dimensional representations, so the above ...

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Character (mathematics) - Wikipedia
In mathematics, a character group is the group of representations of a group by complex-valued functions. These functions can be thought of as one-dimensional matrix representations and so are special

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cases of the group characters that arise in the related context of character theory. Whenever a group is represented by matrices, the function defined by the trace of the matrices is called a character; however, these traces do not in general form a group. Some important properties of these

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Character group - Wikipedia

Representation theory and character theory are basic tools for the study of the structure of finite groups. Based on the classical results by Frobenius, Burnside, and Schur, character theory

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Martin Isaacs's contribution to the complete classification of finite simple groups. This book serves as a modern introduction to this important part of group theory.

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As the title perhaps gives away, Isaacs approaches the theory of group representations from a viewpoint that is very much character-theoretic. He primarily works over the field of complex numbers, but several chapters also address the modular theory.

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Character theory provides a powerful tool for proving theorems about finite groups. In addition to dealing with techniques for applying characters to "pure" group theory, a large part of this

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important results, such as Frobenius' theorem, for which no proof without characters is known. (Until fairly recently, Burnside's pq theorem was another outstanding example of this.)

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This classic book offers one of the definite treatments of character theory of finite groups, written by one of the foremost experts in the field. The text assumes that the reader had been exposed to a one year sequence of graduate level algebra course (knowledge about the basics of the

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Character Theory of Finite Groups by Bertram Huppert was published on 20 Apr 2011 by De Gruyter.

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Character theory is a powerful tool for understanding finite groups. In particular, the theory has been a key ingredient in the classification of finite simple groups. Developing the module

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theory of complex group algebras, this book provides the module-theoretic foundations. It covers the development of the basic theory.

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