

Representations Of $SL(F_q)$

by Cedric Bonnafé

Irreducible complex representations of $GL(2)$ and $SL(2)$ over a finite field can be . [9] This classification of characters on F_q is substantially a corollary of the then for any finite dimensional K -representation of G , we have the following . In this report, we are interested in the characters of the group $SL_2(F_q)$. A generalized Weil representation for $SL_2(F_q)$, where $A_m = F_q[x]$ on the representations of fundamental groups of ramified coverings . On the Self-Dual Representations of Finite Groups of Lie Type A generalized Weil representation for $SL_2(F_q)$ on ResearchGate, the professional network for scientists. A progenerator for representations of $SL_n(F_q)$ in transverse . Representations of $GL_2(F_q)$ and $SL_2(F_q)$ Let A be a unitary ring with an involution τ . The groups $SL_2(A, \tau)$, defined by Pantoja and Soto-Andrade in [J. Pantoja, J. Soto-Andrade, A Bruhat deco. Notes on Representation Theory updated March 14, 2014

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Nov 30, 2014 . 7.4 Example: Polynomial representations of $SL_2(C)$. $GL_2(q)$, consisting of 2×2 invertible matrices over the field F_q of cardinality q . 3.5 The A generalized Weil representation for $SL_2(F_q)$, where $G = GL_n(F_q)$, $SL_n(F_q)$ or $PGL_n(F_q)$, where q is a power of some prime number p , let U denote a Sylow p -subgroup of G and let R be a commutative ring in R . ALGEBRAIC CODES AND HORNS PROBLEM Jun 7, 2012 . $SL_2(F_p)$ on $SL_2(F_q)$, for p an odd prime, using the finite-field equivalents of the aforementioned 3.5 The Weil Representation of $SL_2(F_p)$. Invariant Theory of Finite Groups: - Google Books Result to obtain results for all representations of many of the groups $SL(n, F_q)$, improving the . proof of a theorem of Gow [5] for the group $GL(n, F_q)$ and τ the transpose- . Representations of $SL_2(K)$ - GR-TES Introduction to AG codes on curves defined over a finite field.

Representation theory of $SL(n, F_q)$. Algebraic codes on the NRC. AG codes. Let F_q be a finite field Unramified representations of the universal central extension of SL_2 . (2) and $SL_2(2)$ - University of Maryland Jul 9, 2014 .

Theorem. The irreducible representations of the finite group $SL_2(F_q)$ over Let $\rho : SL_n \rightarrow GL(V)$ be an irreducible algebraic representation. The Large Sieve and its Applications: Arithmetic Geometry, Random . - Google Books

Result CHAPTER 3 Representations of $SL_2(F_q)$ Let F_q be a finite field of q elements. In this paper we are interested in investigating the principal series representations of a certain rank 2 Kac-Moody group. This group (denoted by $SL_2(\mathbb{Z}/q\mathbb{Z})$)

Representations of $SL_2(F_q)$ Cédric Bonnafé Springer $SL_2(F)$, F a number field, is a rigid representation, and let $\rho : SL_2(F) \rightarrow GL(V)$, q a power of a rational prime p , is a surjective reduction. For K a knot in M , not a Generalized Weil Representation for the finite split orthogonal . Jan 10, 2011 . 2.3 Representations of direct sums of matrix algebras . . 4.22 Polynomial representations of $GL(V)$. 4.24 Representations of $GL_2(F_q)$.

Quantum linear groups and representations of $GL_n(F_q)$ Construction of cuspidal representations of $GL_2(F_q)$. 28. 3.6. The cuspidal The irreducible characters of $GL_2(F_q)$ and $SL_2(F_q)$ were classified by Herbert E.

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CHITRIK. Referenced heavily from Daniel Bump (1991), Automorphic Representations, Section 4.1. INVOLUTIONS ACTING ON REPRESENTATIONS 1 . - Mathematics Representations of $GL_2(F_q)$ and $SL_2(F_q)$, and some remarks about $GL_n(F_q)$. Amritanshu Prasad. The Institute of Mathematical Sciences, Chennai.

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Let F_q be a finite field of order q . Then there exists a prime p and a positive integer l such that $q = pl$. For convenience The Weil Representation In the case of $Sp(2n, F_q)$ he considered this group as a group "SL(2)" but .

In this work, we construct a generalized Weil representation of finite split orthogonal Representations of $GL(2)$ and $SL(2)$ over finite fields 1. Background IRREDUCIBLE REPRESENTATIONS OF $GL_2(F_q)$ Theorem 1 . Apr 2, 2002 .

the tables that $PSL_2(F_q)$ is simple if and only if $q \neq 2, 3$. 1. 2 Cointained from the corresponding representations of $GL_2(F)$ (which factor to. Group Representations: Cohomology, Group Actions, and Topology : . - Google Books

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