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### Poincare Series Kloosterman Sums Springer

Poincaré series on  $GL(n)$  were first introduced by Bump, the author, and Goldfeld, who studied them in the case  $n=3$  ("Poincaré series and Kloosterman sums for  $SL(3,z)$ ", Acta Arithmetica, to appear). In this paper they are studied for arbitrary  $n$ .

### Poincare Series, Kloosterman Sums, Trace Formulas, and ...

Poincaré series for  $GL(n)$ : Fourier expansion, kloosterman sums, and algebro-geometric estimates Solomon Friedberg 1, 2 Mathematische Zeitschrift volume 196, pages 165 – 188 ( 1987 ) Cite this article

### Poincaré series for $GL(n)$ : Fourier expansion ... - Springer

D. Bump, S. Friedberg, D. Goldfeld. Poincare series and Kloosterman sums for  $SL(3,Z)$ . Preprint. Google Scholar

### Invariant theory and kloosterman sums | SpringerLink

A theory of Poincaré series is developed for Lobachevsky space of arbitrary dimension. For a general non-uniform lattice a Selberg-Kloosterman zeta function is introduced. It has meromorphic continuation to the plane with poles at the corresponding automorphic spectrum. When the lattice is a unit group of a rational quadratic form, the Selberg-Kloosterman zeta function is computed explicitly ...

### Poincaré series for $SO(n, 1)$ | SpringerLink

[5] Elstrodt, J., Grunewald, F. & Mennicke, J., Poincaré series, Kloosterman sums, and eigenvalues of the Laplacian for congruence groups acting on hyperbolic spaces ...

### Poincaré series for $SO(n, 1)$ | SpringerLink

7. Kuznetsov, N.V.: Peterson hypothesis, for parabolic forms of weight zero and Linnik hypothesis. Sums of Kloosterman sums. Math. Sbornik111, (153, no. 3) 334–383 ...

### Sums of Kloosterman sums | SpringerLink

Abstract. We show that sums of the  $\sum_{Z \in \mathbb{Z}^n} \chi(Z)$  long element Kloosterman sum against a smooth weight function have cancelation due to the variation in argument of the Kloosterman sums, when each modulus is at least the square root of the other. Our main tool is Li's generalization of the Kuznetsov formula on  $\sum_{R \in \mathbb{R}^n} \chi(R)$ , which has to date been prohibitively ...

### On sums of [equation] Kloosterman sums | SpringerLink

Poincaré (Ann Fac Sci Toulouse Sci Math Sci Phys 3:125-149, 1912) and Petersson (Acta Math 58(1):169-215, 1932) gave the now classical expression for the parabolic Fourier coefficients of holomorphic Poincaré series in terms of Bessel functions and Kloosterman sums. Later, in 1941, Petersson introduced hyperbolic and elliptic Fourier expansions of modular forms and the associated ...

### Hyperbolic Fourier coefficients of Poincaré series - Springer

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### Springer Undergraduate Mathematics Series

Abstract. We prove nontrivial bounds for general bilinear forms in hyper-Kloosterman sums when the sizes of both variables may be below the range controlled by Fourier-analytic methods (Pólya-Vinogradov range).

### Bilinear forms with Kloosterman sums and applications ...

Fourier coefficients and Kloosterman sums. Pages 39-46. Good, Anton. Preview. Computation of some integrals I. Pages 47-72. Good, Anton. Preview. Poincaré series and their Fourier series expansions. Pages 73-80. Good, Anton. Preview. Computation of some integrals II. Pages 80-86 ... Only valid for books with an ebook version. Springer ...

### Local Analysis of Selberg's Trace Formula | A. Good | Springer

The main purpose of this paper is, using the properties of Gauss sums and the mean value theorem of Dirichlet L-functions, to study a hybrid mean value problem involving certain Hardy sums and Kloosterman sums and give two exact computational formulae for them. MSC:11L05, 11M20.

### On the identity involving certain Hardy sums and ...

Pseudodifferential analysis, introduced in this book in a way adapted to the needs of number theorists, relates automorphic function theory in the hyperbolic half-plane  $\Pi$  to automorphic distribution theory in the plane. Spectral-theoretic questions are discussed in one or the other environment: in

### Pseudodifferential Analysis, Automorphic ... - Springer

The Poincaré series The Poincaré series are defined by (denote  $= (C)$  henceforth):  $-2k P(z; 2k, ) = N(cz + d)^{-k} e(\mu\gamma z)$ ,  $\gamma \in \Gamma \backslash \mathbb{H}^n$  for  $\gamma = (a, b, c, d)$ ,  $\mu \in \mathbb{O} / U$ ,  $\mu > 0$ ,  $= ((, b) \in \mathbb{O})$ .

### Poincaré Series and Hilbert Modular Forms, The Ramanujan ...

References top [1] R. W. Bruggeman and R. J. Miatello, Estimates of Kloosterman sums for groups of real rank one, Duke Math. J. 80 (1995), 105-137.

### EUDML | The asymptotic distribution of Kloosterman sums

For any integer  $m > 1$   $x_m = \exp(2\pi i x/m)$ , and let  $Z_m$  denote the group of reduced residues modulo  $m$ . Let  $q = p^a$ , a power of a prime  $p$ . The hyper-Kloosterman sums of dimension  $n > 0$  are dened for  $q \dots$

### (PDF) On Multiple Salie Sums - ResearchGate

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### Mindscapes Textbook Answers

There are many connections between Kloosterman sums and modular forms. In fact the sums first appeared (minus the name) in a 1912 paper of Henri Poincaré on modular forms. Hans Salié introduced a form of Kloosterman sum that is twisted by a Dirichlet character: Such Salié sums have an elementary evaluation.

### Kloosterman sum - Wikipedia

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### Economics Today And Tomorrow Student Edition | id ...

@article{RomualdDąbrowski1997, author = {Romuald Dąbrowski, Benji Fisher}, journal = {Acta Arithmetica}, keywords = {exponential sums; Fourier coefficients of automorphic forms; Kloosterman sums; -adic stationary phase; Hessians of arbitrary valuation; -dimensional version of Hensel's lemma; Kloosterman sets; Fourier coefficients of Poincaré series}, language = {eng}, number = {1}, pages ...

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