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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 algebreo-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
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 ...

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

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Abstract. We show that sums of the \(\mathit{SL}(3,\mathbb{Z})\) 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 \(\mathit{SL}(3,\mathbb{R})\), which has to date been prohibitively ...

On sums of [equation] Kloosterman sums | 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 ...

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Kloosterman sums for Clifford algebras and a lower bound ...
@article{Man2020SymplecticKS, title={Symplectic Kloosterman Sums and Poincar\'e Series}, author={Siu Hang Man}, journal={arXiv: Number Theory}, year={2020} } Siu Hang Man Published 2020 Mathematics arXiv: Number Theory We prove power-saving bounds for general Kloosterman sums on $\operatorname{Sp}(4 ...

[PDF] Symplectic Kloosterman Sums and Poincar\'e Series ...
In mathematics, a Kloosterman sum is a particular kind of exponential sum.They are named for the Dutch mathematician Hendrik Kloosterman, who introduced them in 1926 when he adapted the Hardy–Littlewood circle method to tackle a problem involving positive definite diagonal quadratic forms in four as opposed to five or more variables, which [vague] he had dealt with in his dissertation in 1924.

Kloosterman sum - Wikipedia
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 ...
On the other hand, we introduce the classical Kloosterman sums K (n, q) which are defined as follows: For any positive integer q > 1 and integer n, K (n , q) = ∑ ′ b = 1 q e (n b + b ¯ q) , where b ¯ denotes the solution of the congruence x · b ≡ 1 mod q , ∑ ′ b = 1 q denotes the summation over all 1 ≤ b ≤ q with (b , q) = 1 and e (x) = e 2 π i x .

On the identity involving certain Hardy sums and ...
We infer, by the definition of the Kloosterman sum and the lemma, that(g (·), g (·) are two arbitrary sequences of complex numbers) 1 2 g (μ)g (ν)S(ν, μ ; c) 1 2 μ, ν μ h ν h = g (μ)e g (ν)e 1 2 c c h (mod c) μ ν ′ POINCARE SERIES AND HILBERT MODULAR FORMS 137 2 1/2 2 1/2 μ h ν h ≤ g (μ)e g (ν)e 1 2 c c μ ν h (mod c) h (mod c) 1/2 1/2 2 2 (| N (c)|+ X) |g (μ)| |g (μ)| . 1 2 μ μ Here for simplicity we let stand for the summation over μ ’s satisfying the ...

Poincaré Series and Hilbert Modular Forms, The Ramanujan ...
Poincaré series for SO(n, 1) J. Cogdell, I. Piatetski-Shapiro, J. S. Li, and P. Sarnak Full-text: Open access. PDF File (1880 KB) Note; Article info and citation; First page; References; Note. The work of the 1st author was supported in part by the NSF under the Grant No. DMS-88-03085, the 3rd author by the NSF Grant No. DMS-88-07336 and the ...

Cogdell , Piatetski-Shapiro , Li , Sarnak : Poincaré ...
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
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From Proposition 3 and Proposition 5 we conclude by the same calculation as in that the long Kloosterman sum Σ 3 in contributes O(R 2+ε P 1/2+ε). Similarly, if P < R 3− ε , the other two Kloosterman contributions Σ 2 a + Σ 2 b are O (R −100), and are otherwise O (R 5+ ε) which follows after a straightforward estimate using Proposition 5 and (6.7).

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