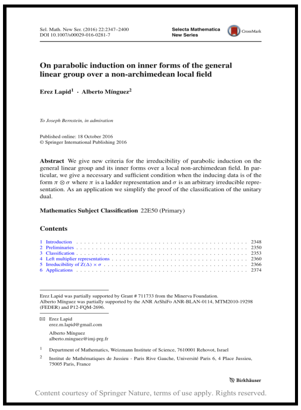
Duality theorems - cyclic representations, Langlands conjectures

Państwowe Wydawnictwo Naukowe - The Local Converse Theorem for SO(2n+1) and Applications on JSTOR



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On parabolic induction on inner forms of the general linear group over a non-archimedean local field

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To Joseph Bernstein, in admiration

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Abstract We give new criteria for the irreducibility of parabolic induction on the general linear group and its inner forms over a local non-archimedean field. In particular, we give a necessary and sufficient condition when the inducing data is of the form $\pi \otimes \sigma$ where π is a ladder representation and σ is an arbitrary irreducible representation. As an application we simplify the proof of the classification of the unitary dual.

Mathematics Subject Classification 22E50 (Primary)

Contents

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Geometric Langlands seminar page

Thus the characters of are the points of. Since , it maps to an element in the Weyl group and.

Geometric Langlands correspondence

Let be an orthogonal odd or symplectic even space of dimension such that , are the maximal isotropic space of dimension and.

Representation theory and number theory

In recent years, tools from algebraic geometry and mathematical physics have proven very influential in representation theory. Raikov, Irreducible unitary representations of arbitrary locally bicompact groups. Analogously, the Hecke algebra is generated by satisfying.

Langlands Items

In other words, there is a unique automorphic representation with such prescribed local behavior.

Weil conjectures

Warner, Harmonic analysis on semisimple Lie groups I, II, Springer-Verlag, 1972.

The duality theorems. Cyclic representations Langlands conjectures

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The Local Converse Theorem for SO(2n+1) and Applications on JSTOR

From this point of view, the Langlands program can be regarded as a vast nonabelian generalization of class field theory. Let be the conductor of an irreducible representation. The same argument eliminates the possibility of the coefficient field being the reals or the p-adic numbers, because the quaternion algebra is still a division algebra over these fields.

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