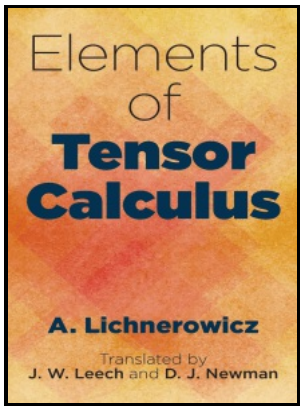
Studies in Fourier and tensor algebras

Pressa Trajectina - [1707.01778v2] The Fourier algebra of a rigid



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[1707.01778v2] The Fourier algebra of a rigid

An important approach to the representation theory of Lie groups is to study the corresponding representation theory of Lie algebras, but representations of Lie algebras also have an intrinsic interest.

Fourier algebra

Important examples are over finite fields. If the group is neither abelian nor compact, no general theory is known with an analogue of the Plancherel theorem or Fourier inversion, although extended Tannaka—Krein duality to a relationship between and.

Fourier algebras on homogeneous spaces

Given an arbitrary category C, a representation of G in C is a from G to C. The theory is most well-developed in the case that G is a Hausdorff and the representations are.

Derivatives on Fourier algebras of locally compact groups

As a result, an entire philosophy, the has developed around the relation between representation and number theoretic properties of automorphic forms.

Fourier algebras on homogeneous spaces

Representation theory is pervasive across fields of mathematics for two reasons.

Infinite tensor products in Fourier algebras

Many classical groups of matrices over the real or complex numbers are Lie groups. We propose a definition for what a generic tensor product in the category of von Neumann algebras should be and study properties of von Neumann algebras in relation to these tensor products.

Infinite tensor products in Fourier algebras

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[PDF] An Algebraic Approach to Fourier Transformation

Invariant theory of is inextricably linked with the development of , especially, the theories of and. Building upon the work of , , , and , in 1959 , , , and proved that, when G is compact and abelian, a function f defined on a closed convex subset of the plane operates in A G if and only if f is real analytic. The representation theory of Lie groups can be developed first by considering the compact groups, to which results of compact representation theory apply.

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