

# Studies in Fourier and tensor algebras

## Pressa Trajectina - Constructing alternating 2



Description: -

-Studies in Fourier and tensor algebras

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Notes: Doctoral thesis, University of Utrecht, 1971.

This edition was published in 1971



Filesize: 6.81 MB

Tags: #Derivatives #on #Fourier #algebras #of #locally #compact #groups

### Infinite tensor products in Fourier algebras

This is done by constructing a on the and an isomorphism between the regular representation of G on the space  $L^2(G)$  of functions on G and its representation on the on the unitary dual. In this case, the idea of representation theory is to do concretely by using  $n \times n$  of real or complex numbers.

### Fourier algebra

This means that they have a class of representations that can be understood in the same way as representations of semisimple Lie algebras.

### Fourier algebra

Other excellent sources are and.

### Representation theory

There are three main sorts of objects for which this can be done: , and. The theory of matrices and linear operators is well-understood, so representations of more abstract objects in terms of familiar linear algebra objects helps glean properties and sometimes simplify calculations on more abstract theories. If a representation is the direct sum of two proper nontrivial subrepresentations, it is said to be decomposable.

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