

## WIENER TAUBERIAN THEOREMS FOR VECTOR-VALUED FUNCTIONS

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**ABSTRACT.** Different versions of Wiener's Tauberian theorem are discussed for the generalized group algebra  $L^1(G, A)$  (of integrable functions on a locally compact abelian group  $G$  taking values in a commutative semisimple regular Banach algebra  $A$ ) using  $A$ -valued Fourier transforms. A weak form of Wiener's Tauberian property is introduced and it is proved that  $L^1(G, A)$  is weakly Tauberian if and only if  $A$  is. The vector analogue of Wiener's  $L^2$ -span of translates theorem is examined.

**KEY WORDS AND PHRASES.** Generalized group algebra, Wiener's Tauberian property.

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### 1. INTRODUCTION.

Weiner's Tauberian theorem for the group algebra  $L^1(G)$  of a locally compact abelian group  $G$  can be formulated in several ways. Here are two of them (see [1]):

(I) For every proper closed ideal  $I$  in  $L^1(G)$ , its hull

$$h(I) = \{\gamma \in \Gamma: \hat{f}(\gamma) = 0 \text{ for every } f \text{ in } I\}$$

is nonempty. (Here  $\Gamma$  is the dual group of  $G$  and  $\hat{f}$  is the Fourier transforms of  $f$ ).

(II) If a function  $f$  in  $L^1(G)$  has non-vanishing Fourier transform, then the closed ideal generated by  $f$  is the whole of  $L^1(G)$ .

What happens when we consider the "generalized" group algebra  $L^1(G, A)$  of  $A$ -valued integrable functions on  $G$ ? (We take  $A$  to be a commutative, semisimple, regular Banach algebra). If we consider the Gelfand transform, then the Tauberian theorem holds for  $L^1(G, A)$  provided it holds for  $A$  ([2]). What if we consider the ( $A$ -valued) Fourier transform? In section 2, we observe that a suitable version of (II) does hold in this case although the direct analogues of both (I) and (II) fail.

A weak form of Wiener's Tauberian property is considered in Section 3 and it is proved that  $L^1(G, A)$  is weakly Tauberian if and only if  $A$  is.

Since a closed linear subspace in  $L_1(G)$  is an ideal if and only if it is translation invariant,

# Tauberian Theorems For Generalized Functions

**A Gutmann**



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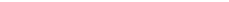
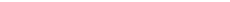
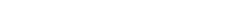
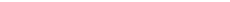
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