# Ideal Structure of Operator and Measure Algebras

By

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**Abstract.** Let $H$ denote a finite dimensional Hilbert space with subspace $E$. The set $J(E) = \{T \in B(H) : E \subseteq \ker T\}$ is a subalgebra of $B(H)$. A complete description of the ideal (two-sided, left and right) structure of $J(E)$ is given. Let $G$ denote a compact group with dual object $\Sigma(G)$, and let $\sigma$ be an element of $\Sigma(G)$. The results concerning $J(E)$ are applied to certain convolution subalgebras of $M(G)$, the algebras having the property that the set of operators, $\hat{\mu}(\sigma)$, where $\mu$ lies in the algebra, is of the form $J(E)$. In particular, all the minimal two-sided and right ideals are listed. The technique used is an extension of one employed by HEWITT and ROSS in [1] to study the closed ideals of some convolution subalgebras of $M(G)$ which contain $T(G)$.

## 1. Introduction

The study of the ideal structure of convolution algebras of measures defined on locally compact groups has long been a central problem in harmonic analysis. In the case of the familiar algebras such as $L^p(G)$, $1 \leqslant p < \infty$, or $C(G)$, for any compact group, the structure theory of closed ideals is simple; see for example § 38 of [1]. The important observation made is that the closed ideal structure for each of these algebras is the same as that of $L^1(G)$. In [2] REITER defined Segal algebras and showed that each such algebra also shared this property.

HEWITT and ROSS used a bare handed approach to write down many of the ideals in the algebras they considered. They observed that ideals in the algebra could be produced by first studying the ideal structure of the operator algebra $B(H)$ where $H$ is a finite dimensional Hilbert space.

In this paper, which is intended to provide the preliminary material required for [4] while presenting some results of independent interest, we show that the technique used by HEWITT and ROSS may be applied to a larger class of algebras if $B(H)$ is replaced by some of its subalgebras. We choose to study the algebras $J(E)$ defined by

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