

Seminerin konusu: “THE BANACH ALGEBRA GENERATED BY GROUP AND SEMIGROUP OF OPERATORS”.

Türkcesi: “OPERATÖRLER GRUBUNUN VE YARIGRUBUNUN DOĞURDUĞU BANACH CEBİRLERİ ÜZERİNE”.

ABSTRACT

Let G be a locally compact abelian group (or semigroup) and let $\mathbf{T} = \{T(g)\}_{g \in G}$ be a representation of G on a Banach space. We define $A_{\mathbf{T}}$ (resp. $W_{\mathbf{T}}$) as the closure with respect to the uniform operator topology (resp. weak operator topology) of the polynomials in \mathbf{T} .

We shall discuss some results concerning semisimplicity and reflexivity problems for such algebras. Some related problems are also discussed.