

Banach algebras generated by compact groups of operators

Armando R. Villena, University of Granada, Spain

We prove that if τ is a strongly continuous representation of a compact group G on a Banach space X , then the weakly closed Banach algebra generated by the Fourier transforms $\int_G \tau(t) d\mu(t)$ with $\mu \in M(G)$ is a semisimple Banach algebra.