Algebraic Proof of Kalton Representation Theorems

Abstract:
In this thesis, we give an algebraic proof of the Kalton representation theorems. In chapter one, we give some basic standard definitions and some results we need later. In chapter two we discuss the concept of Boolean algebra, and bounded linear operators between two Boolean algebras. In chapter three, we discuss the concepts of measure, signed measure, measurable sets, measurable functions, integration with respect to signed measure; later in this chapter, we define $L^p$ spaces. In the last chapter (4) we give the main result of our thesis which is the proof of KALTON representation theorems.