

Operator Algebra

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January 3, 2024

Abstract

Contents

1 Algebras on Normed Spaces

1.1 Banach Algebras

Definition 1.1.1: Banach Algebra

Let A be a Banach space over \mathbb{C} . If A is an algebra over \mathbb{C} in which the multiplication satisfies the inequality

$$\|xy\| \leq \|x\|\|y\|$$

then A is called a Banach algebra.