

Chapter 1

C^* -Algebra Theory

This chapter contains some basic facts about C^* -algebras that the reader is assumed to be (or become) familiar with. There are very few proofs given in this chapter, and the reader is referred to other sources, for example Murphy's book [29], for details.

1.1 C^* -algebras and $*$ -homomorphisms

Definition 1.1.1. A C^* -algebra A is an algebra over \mathbb{C} with a norm $a \mapsto \|a\|$ and an involution $a \mapsto a^*$, $a \in A$, such that A is complete with respect to the norm, and such that $\|ab\| \leq \|a\| \|b\|$ and $\|a^*a\| = \|a\|^2$ for every a, b in A .

The axioms for a C^* -algebra A above imply that the involution is isometric, i.e., $\|a\| = \|a^*\|$ for every a in A .

A C^* -algebra A is called *unital* if it has a multiplicative identity, which will be denoted by 1 or 1_A . A $*$ -homomorphism $\varphi: A \rightarrow B$ between C^* -algebras A and B is a linear and multiplicative map which satisfies $\varphi(a^*) = \varphi(a)^*$ for all a in A . If A and B are unital and $\varphi(1_A) = 1_B$, then φ is called *unital* (or *unit preserving*). A C^* -algebra is said to be *separable* if it contains a countable dense subset.

1.1.2 Sub- C^* -algebras and sub- $*$ -algebras. A non-empty subset B of a C^* -algebra A is called a *sub- $*$ -algebra* of A if it is a $*$ -algebra with the oper-

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