

Lecture Notes on C^* -Algebras and K-Theory

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Abstract: The aim of these lectures is to explain the basics of the theory of C^* -algebras and their associated K-groups in the light of noncommutative geometry. Part I is an introduction to C^* -algebras, covering the philosophy of noncommutative geometry, Banach algebras and C^* -algebras, commutative C^* -algebras, the original Gelfand-Naimark duality theorem, categories and functors, natural transformations and equivalence of categories, the categorical version of the Gelfand-Naimark duality theorem, the GNS-construction, the Gelfand-Naimark representation theorem, ideals and compact operators, the structure of finite-dimensional C^* -algebras, and applications to groupoids. Part II is an introduction to the K-theory of C^* -algebras, covering projections in C^* -algebras, the definition of K^0 , vector bundles and topological K-theory, K^0 for nonunital C^* -algebras, some explicit computations, properties of C^* -algebraic K-theory (half-exactness, excision, etc.), higher K-groups, the index map, and Bott periodicity.

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