

Representations and completely positive maps of C^* algebras, Stinespring's theorem, Arveson's extension theorem.

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The role of morphisms in the category of C^* -algebras is played by $*$ -representations. Nevertheless the notion of completely positive maps is also essential for their analysis. In this series of talks we will see three major results in this respect: Stinespring's Dilation Theorem, Arveson's Extension Theorem and Boca's Theorem.