# FROM TOPOLOGICAL K-THEORY TO K-THEORY OF $C^*$-ALGEBRAS

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I shall present an overview of topological motivation of basic notions in K-theory of $C^*$-algebras based on two theorems:

- Gelfand's theorem on equivalence of categories of locally compact spaces and commutative $C^*$-algebras;

- Serre-Swan theorem on equivalence of categories of vector bundles and finitely generated projective modules over the ring of continuous functions.

The talk will be addressed to those who came to K-theory of $C^*$-algebras from analytic rather than topological background.