

Operator Algebras

The classification of simple unital separable C^* -algebras
with finite nuclear dimension

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I will talk about a recent classification result on the C^* -algebras with finite nuclear dimension. More precisely, let us consider the class of simple unital separable C^* -algebras with finite decomposition rank and satisfying the universal coefficient theorem (UCT); then this class of C^* -algebras is shown to be classifiable. In fact, any C^* -algebra in this class is shown to be rationally tracially approximated by certain subhomogeneous C^* -algebras with one-dimensional spectra.

The talk is based on a joint work with George Elliott, Guihua Gong, and Huaxin Lin.