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*The classification of finite simple unital nuclear  $C^*$ -algebras*

Consider the class of simple unital separable nuclear  $C^*$ -algebras which can be rationally tracially approximated by subhomogeneous  $C^*$ -algebras with one-dimensional spectra. Then the Jiang-Su stable UCT algebras in this concrete class can be classified by the Elliott invariant. On the other hand, any finite unital UCT algebra with finite nuclear dimension is actually in this class, and hence this gives a classification of the unital UCT  $C^*$ -algebras with finite nuclear dimension.

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