## **SAEED GHASEMI**, Institute of Mathematics of the Czech Academy of Sciences *Strongly self-absorbing C\*-algebras and Fraïssé limits*

A unital separable C\*-algebra (other than the C\*-algebra of all complex numbers) is strongly self-absorbing if it is isomorphic to its (minimal) tensor product with itself, in a "strong" sense. Strongly self-absorbing C\*-algebras play a crucial role in Elliott's classification program of separable nuclear C\*-algebras by K-theoretic data. Among them, the Jiang- Su algebra Z has a special place and, to this date, the classification of separable, simple, unital, nuclear C\*-algebras that tensorially absorb Z and satisfy the UCT has been the most remarkable achievement of the classification program. In their original paper from 1999, Jiang and Su already proved that Z is strongly self-absorbing. However, their proof uses heavy results and machinery from the classification results, via establishing a general connection between the strongly self-absorbing C\*-algebras and the "Fraïssé limits" of categories of C\*-algebras that are sufficiently closed under tensor products. It was previously known that Z can be realized as the Fraïssé limit of the category of its building blocks and unital trace-preserving embeddings.