

Department of Mathematics, BGU

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# Noncommutative Analysis

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*On Monday, April, 11 2022*

*At 11:00 – 12:00*

*In 32/114*

Wieslaw Kubis (Institute of Mathematics, Prague)

will talk about

## **A new universal AF-algebra**

**Abstract:** We introduce and study a new class of separable approximately finite-dimensional (AF)  $C^*$ -algebras, namely, AF-algebras with “Cantor property”. We show the existence of a separable AF-algebra  $A$  that is universal in the sense of quotients, i.e. every separable AF-algebra is a quotient of  $A$ . Moreover, a natural extension property involving left-invertible embeddings describes it uniquely up to isomorphism.

This is a joint work with Saeed Ghasemi. The paper is Universal AF-algebras. *J. Funct. Anal.* 279 ,(2020) no. ,5 ,108590 32 pp.