C^*-ALGEBRAS AND B-NAMES FOR COMPLEX NUMBERS.

ANDREA VACCARO

ABSTRACT. In recent years there have been many fruitful contacts between set theory and operator algebras theory. In this talk we show how to describe $\mathbb{C}^B$, the set of B-names for complex numbers in the boolean valued model V^B, with commutative C^*-algebras whose spectrum is extremely disconnected. We also present an application, using an absoluteness result, which puts in touch the first order theory of $\mathbb{C}$ with the theory of C^*-algebras.

PH.D. STUDENT, UNIVERSITY OF PISA
E-mail address: `vaccaro@student.dm.unipi.it`