

1120-47-139 **Elias G. Katsoulis*** (katsoulise@ecu.edu), Department of Mathematics, East Carolina University, Greenville, NC 27858. *Crossed products of operator algebras.*

In this talk I will be defining the crossed product of an approximately unital operator algebra by a locally compact group of completely isometric automorphisms. I will explain how to make sense of iterated crossed products and then present a version of Takai duality. Applications will be given to the study of semisimplicity for operator algebras. (Joint work with Chris Ramsey.) (Received February 19, 2016)