## 1138-47-116 Kristin Courtney\*, kc2ea@virginia.edu, and Tatiana Shulman. Finite-dimensional representations of C\*-algebras and AF mapping telescopes.

A residually finite-dimensional (RFD) C\*-algebra is one for which the norm of every element equals the supremum of its norms under finite-dimensional representations. We consider the set of elements for which this supremum is a maximum: when is it dense, and when is it equal to the whole algebra? To answer the latter question, we develop a technique utilizing the projectivity of AF mapping telescopes. It turns out that this technique can be adapted to prove a variety of results, several of which will be highlighted. This is joint work with Tatiana Shulman. (Received February 05, 2018)