1125-46-1616   **David Kerr***, Department of Mathematics, Texas A&M University, College Station, TX 77843-3368. *Actions of amenable groups on the Cantor set and their crossed products.*

Recent historic progress in the classification theory for simple separable nuclear C*-algebras has reduced the problem of the K-theoretic classifiability of crossed products of actions of countable amenable groups to the simple question of when their nuclear dimension is finite. In particular, this has raised the striking possibility that large classes of actions of completely arbitrary countable amenable groups have classifiable crossed products. I will give one indication of how this general program might proceed by making use of the concept of $\mathcal{Z}$-stability. (Received September 18, 2016)