

Don Hadwin, University of New Hampshire.

Title: Topological Free Entropy Dimension

Abstract: This talk describes a number of new results on Voiculescu's topological free entropy dimension for n -tuples of elements in a C^* -algebra. We develop precise formulas related to direct sums, tensoring with a matrix algebra, free products, commutative algebras, finite-dimensional algebras. The topological free entropy dimension is defined for a tuple precisely when its generated C^* -algebra is MF. We obtain a few new results on MF algebras that give new examples of C^* -algebras whose Ext is not a group.

This is a joint work with Junhao Shen and Qihui Li.