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**Don Hadwin\*** ([don@unh.edu](mailto:don@unh.edu)), MATH DEPT UNH, Durham, NH 03824, and **Qihui Li, Weihua Li** and **Junhao Shen**. *A survey of topological free entropy dimension*. Preliminary report.

We discuss the development of Dan Voiculescu's notion of topological free entropy dimension, which is an analog for  $C^*$ -algebras of his notion of free entropy dimension for von Neumann algebras having a tracial state. We include new results that give an upper bound 1 for the topological free entropy dimension for a large class of  $C^*$ -algebras, which parallels results in the von Neumann algebra setting. (Received September 10, 2011)