

1135-46-791 **Shmuel Friedland** (friedlan@uic.edu) and **Todd Kemp*** (tkemp@math.ucsd.edu). *Most Quantum States are Almost Maximally Entangled.*

In 2009, Gross, Flammia, and Eisert showed that the geometric measure of entanglement of a random quantum state is very close to the theoretical maximum, with very high probability; this has some surprisingly negative consequences for quantum computation.

In this talk, I will discuss recent work proving the comparable concentration result for symmetric (Boson) quantum states; with a glimmer of hope for quantum computation.

Our techniques involve concentration methods well known in free probability, and representation theory of unitary groups. (Received September 14, 2017)