

1143-60-228

Kyle Luh, Harvard University, and **Sean O'Rourke***, Department of Mathematics, University of Colorado Boulder, Campus Box 395, Boulder, CO 80309-0395. *Optimal delocalization bounds for eigenvectors of independent-entry random matrices.*

Intuitively, one expects the unit eigenvectors of a large-dimensional random matrix to behave like random vectors uniformly distributed on the unit sphere. This instinctive idea can be heuristically justified by quantifying various properties of the eigenvectors. In this talk, I will focus on some specific delocalization properties of the eigenvectors of independent-entry matrices, which match corresponding properties of uniformly distributed unit vectors. As an application, I will also consider normal vectors to random hyperplanes. (Received August 14, 2018)