



ICTS Probability Seminar

Title : Spectrum of random perturbations of finitely banded Toeplitz

Matrices

Speaker : Anirban Basak, ICTS-TIFR, Bangalore

Date: Wednesday, August, 29, 2018

Time : 2:30 PM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : Consider a finitely banded Toeplitz matrix \$T N\$ and let \$E N\$ be

an error matrix with a polynomially vanishing operator norm. In this

talk, we will discuss the limiting spectral measure of \$T_N+E_N\$. We

will see that under a very mild assumption on the entries of E_N the

limit is a push forward of the uniform measure on the unit circle by

the symbol of the Toeplitz matrix \$T_N\$. This is based on an ongoing

joint work with Elliot Paquette and Ofer Zeitouni.

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