

abstract

MATHEMATICAL PHYSICS

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

Random band matrices have been proposed as an effective, or toy, model for a disorder induced localization-delocalization transition of eigenstates. Most results about these matrices, and the transition, are based on numerics or on calculations with a number of uncontrolled approximations. I will discuss this model and its context, presenting a number of interesting open problems, and discuss a rigorous bound on the localization length for eigenfunctions.