EIGENFUNCTION ESTIMATE ON RANDOM HYPERBOLIC SURFACES IN THE RANDOM COVER MODEL

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Abstract:

It is expected that for a random closed hyperbolic surface, the Laplace eigenfunctions are delocalized and equidistributed. I will explain how to use the recently developed polynomial method to prove a polynomially improved L^\infty bound for the Laplace eigenfunctions on the random covers of a hyperbolic surface. This is joint work with Elena Kim.