QMath14: Mathematical Results in Quantum Physics

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Abstract

Random Systems

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Gaussian Approximation of the Distribution of Strongly Repelling Particles on the Unit Circle

Joint with Alexander Soshnikov

In this talk, we consider an interacting system of n particles randomly distributed on the unit circle with stronger repelling than that of the Circular beta Ensemble. I will prove the Gaussian approximation of the distribution of the particles in this model.