Seminar/Talk

A variational characterisation of the $Sine_\beta$ point process

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The Sine_\beta point process is a stationary point process that appears as the limit of a certain system of interacting particles with a logarithmic repulsion, the so called one-dimensional log-gas. In this talk, we give a characterisation of the Sine_\beta process as the unique minimizer of a free energy functional. Our argument is based on the combination of optimal transport ideas for point processes and approximation techniques for log-gases (screening).

Tuesday, April 9, 2019 03:30pm - 04:30pm
Uni Wien, HS 11, 2. OG, OMP 1

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