

Institute for Applied Mathematics, Bonn University

## Oberseminar Stochastik

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Online

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### **Two "physical" characterizations of the Sine-beta process**

The Sine-beta process (defined and studied by Valko-Virag and Killip-Stoiciu) describes the limiting microscopic behavior of eigenvalues for certain random matrices. One can also look at it as an infinite-volume Gibbs measure for a statistical physics system in dimension 1. With this point of view, we give two "physical" characterizations: through DLR equations, and as the unique minimiser of a free energy functional.

Joint work with Dereudre-Hardy-Maïda and Erbar-Huesmann.