



**UNIVERSITÄT
BIELEFELD**



Faculty of Physics



Faculty of Mathematics



THE UNIVERSITY OF
MELBOURNE

Seminar

Bielefeld - Melbourne Random Matrices

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Technische Universität Dortmund

Limit Theorems for Frozen Calogero-Moser-Sutherland Particle Systems

Interacting particle systems of Calogero-Moser-Sutherland type on R or intervals are described by some root system and coupling constants. From a probabilistic point of view they are multivariate Bessel processes; moreover they are closely related with dynamic random matrix models.

In this talk we discuss some limit results when the coupling constants and/or the number of particles tend to infinity. It turns out that for the limits the behaviour of associated deterministic dynamical systems and the zeroes of classical orthogonal polynomials play a major role.

Wednesday, 28 October 2020, 0900 hrs CEST

Zoom Konferenzschaltung— Please contact Anas Rahmann
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