



INSTITUT FÜR
MATHEMATIK

Fachbereich 08 – Physik, Mathematik und Informatik



JOHANNES GUTENBERG
UNIVERSITÄT MAINZ

M. Birkner / L. Hartung / A. Klenke

Oberseminar Stochastik

Am **Dienstag, 28. Mai 2024** wird

Stein Andreas Bethuelen (Universität Bergen)

einen Vortrag halten mit dem Titel:

“Mixing for Poisson representable processes and the contact process”

Abstract:

In this talk I will present some new insights on so-called Poisson representable processes, a general class of 0,1-valued processes recently introduced by Forsström, Gantert and Steif. Particularly, I will discuss a new characteristic of these in terms of certain mixing properties. As an application thereof, I will argue that the upper invariant measure of the contact process on \mathbb{Z}^d is not Poisson representable, thereby answering a question raised in the above mentioned work. This relies on the upper invariant measure satisfying certain directional mixing properties, but not their spatial equivalent. Moreover, the general approach extends to other processes having similar properties, such as the plus phase of the Ising model on \mathbb{Z}^2 in the phase transition regime.

Zeit: Dienstag, 28. Mai 2024, 14 Uhr c.t.

Ort: Raum 05-136, Institut für Mathematik, Staudingerweg 9, 55128 Mainz

Alle Interessierten sind herzlich eingeladen!

i. A. E. Bonmann

<https://www.stochastik.mathematik.uni-mainz.de/>