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Fakultät für Mathematik

## EINLADUNG

zum

## HABILITATIONSVORTRAG

**Alexander Glazman, PhD**

(Fakultät für Mathematik, Universität Wien)

**“Phase transitions in two dimensions”**

## **“Phase transitions in two dimensions”**

### Abstract:

*Phase transitions are natural phenomena when a small change of external parameter, like temperature, leads to a drastic change of the properties of the material: ice melting to water, ferromagnets becoming paramagnets above the Curie temperature, etc. To study these phenomena, one introduces lattice models - particles are placed in a lattice and only adjacent particles interact. In two dimensions, this leads to beautiful conjectures of universality and conformal invariance, with random fractal SLE curves appearing in the limit.*

*The talk aims to describe some of the classical results and my contribution to the field. In particular, we will discuss the phase transition in loop and height models. If time permits, we will also briefly mention main ideas in the proofs.*

**Freitag, 11. März 2022**

**14:00 Uhr – 14:45 Uhr**

**Fakultät für Mathematik**

**Oskar-Morgenstern-Platz 1**

**SR 15, 3. Stock**

Christian Krattenthaler

Radu Bot