Montag, 28.06.2021
17.00 Uhr, Zoom

GRK 2131 “High-dimensional Phenomena in Probability – Fluctuations and Discontinuity”
Johanna Nešlehová, McGill University, “Modeling extremes in the medium regime”

Interessenten melden sich bitte bei Tanja Schiffmann (tanja.schiffmann@rub.de) für die Zoom-Zugangsdaten. Weitere Informationen finden Sie auf der Seite des Graduiertenkollegs 2131.

Montag, 05.07.2021
16.30 Uhr – 17.45 Uhr, Zoom

Oberseminar Arrangements and Symmetries
Henri Mühle, TU Dresden, “Connectivity Properties of Factorization Posets”

Abstract: Let G be a group generated by a finite set A. A factorization poset of a group element g is a graded partially ordered set whose maximal chains are in bijection with the reduced A-factorizations of g. If the reduced A-factorizations of g have length n, then the braid group on n strands acts naturally on these factorizations by so-called Hurwitz moves. We consider three different notions of connectivity in factorization posets. 1) Chain-connectivity is satisfied if any maximal chain can be reached from a given one by a sequence of one-element substitutions. 2) Hurwitz-connectivity is satisfied if any reduced A-factorization of g can be reached from a given one by a sequence of Hurwitz moves. 3) Shellability is satisfied if the order complex of the proper part of the factorization poset is (topologically) shellable.

We explain how these three types of connectivity can be interpreted in terms of factorization posets and discuss connections, implications and non-implications among them. We exploit the recursive structure of factorization posets to give local (rank-2) criteria implying some of these connectivity types.

This talk is based on joint work with Vivien Ripoll, who is currently running a puzzle hunt business (https://solving-fun.com/).

Interessenten sind herzlich eingeladen, dem Vortrag über Zoom (Meeting-ID: 924 0679 6238, Passwort: ArrSym20) zu folgen.