Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 4th March 14:15

Online meeting (Webex)

Counting regular hypergraphs

Nina Kamčev

(University of Zagreb)

How many d-regular k-uniform hypergraphs are there on n vertices? We provide an asymptotic formula covering a wide range of parameters, including regular k-uniform hypergraphs of density up to ϵk^{-1} for $3 \leq k < n^{1/10}$ and $\epsilon > 0$. We will discuss the perturbation method, originally applied to the graph enumeration problem by Liebenau and Wormald.

This is joint work with Anita Liebenau and Nick Wormald.

Meeting link:

https://tugraz.webex.com/tugraz/j.php?MTID=m40f85343e56ff5051d731ace1bea82e4

Meeting number: 2731 089 0467

Password: btHRJxCa252

Joshua Erde, Mihyun Kang