Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 23rd June 12:30

Online meeting (Webex)

The asymptotic number of tournament score sequences

Brett Kolesnik

(Oxford University)

A tournament is an orientation of the complete graph. The score sequence lists the out-degrees in non-decreasing order. Works by Erdős and Moser, Winston and Kleitman, and Kim and Pittel bounded the number of score sequences. In this talk, we locate the precise asymptotics. These agree numerically with those conjectured by Takács. We will discuss connections to geometry, renewal theory, infinitely divisible probability distributions, the Erdős–Ginzburg–Ziv numbers, and random lattice walks.

Meeting link:

https://tugraz.webex.com/tugraz/j.php?MTID=m3162bb7e6bef850e659f657a18095a1c

Meeting number: 2733 453 3442

Password: bSDVGJDp976

Joshua Erde, Mihyun Kang