

Institut für Diskrete Mathematik

Combinatorics Seminar

27.03.2026, 12:30

Online meeting (Webex) & AE06, Steyrergasse 30

A Proof of the Kim-Vu Sandwich Conjecture

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Random regular graphs $G_d(n)$ are central objects in the study of random graphs, yet the lack of independence between edges makes them significantly more difficult to analyze than the standard binomial random graph $G(n, p)$. To bridge this gap, Kim and Vu (2004) formulated the “Sandwich Conjecture”, proposing that for degrees $d \gg \log n$, a random d -regular graph can be coupled with high probability between two binomial random graphs, that have very similar density. Such a coupling allows certain properties of random regular graphs to be directly inferred from the well-understood binomial model.

Webex link:

<https://tugraz.webex.com/tugraz/j.php?MTID=m6449da69552289b0d7eef2d0d2a27197>

Fabian Burghart, Mihyun Kang, Ronen Wdowinski