

Institut für Diskrete Mathematik

Combinatorics Seminar

Friday 19th July 12:30

AE06, Steyrergasse 30

Maximum likelihood estimators and subgraph counts in planar graphs

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How many copies of a graph H can appear in a planar graph? We develop a technique which, for many graphs H, reduces this question to one of determining a quot;maximum likelihood estimatorquot; of a graph related to H. For example, in the case of $H = C_{2m}$, we are led to the following question: which probability mass (on the edges of some big clique) maximizes the probability that m independent samples from the mass form a copy of an m-cycle?

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