
Discrete Analysis Seminar

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Large deviations for subgraph counts in random graphs

The upper tail problem for subgraph counts in the Erdős–Rényi graph, introduced by Janson–Ruciński, has attracted a lot of attention. There is a related model of Gibbs measures, called exponential random graph model (ERGM). Despite its importance, lots of fundamental questions have remained unanswered owing to the lack of exact solvability. In this talk, I will talk about a brief overview on the upper tail problem and the ERGM. Based on the joint work with Shirshendu Ganguly and Ella Hiesmayr.

Date: 19th February, 2024

Time: 4:00pm – 5:00pm

Location: 262, Science Building



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주최: 4단계 BK21 수리과학 및 계산교육 연구단

