



연세대학교 수학기산학부

YONSEI
Math-CSE Colloquium

Graph homomorphism inequalities and their applications

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Abstract:

Counting (weighted) homomorphisms between graphs relates to a wide variety of areas, including graph theory, probability, statistical physics and theoretical computer science. In recent years, various new applications of inequalities between graph homomorphism counts have been found.

We will discuss both old and new examples along these lines, which includes a new proof of the classical Bondy--Simonovits theorem and some recent progress on major open problems in extremal graph theory such as bipartite Turán problems and Sidorenko's conjecture.

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Sci Building #225

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