

SOME VARIANTS OF THE GRAPH REMOVAL LEMMA

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Time: Thursday, Oct. 22nd, 10:00 - 11:00

Zoom meeting ID: 667 227 57129 Password: 121323

Link: <https://zoom.com.cn/j/66722757129>

Abstract: Among the numerous applications of the regularity lemma, a classical one is the graph removal lemma. It has applications in fields such as number theory and theoretical computer science. For every fixed graph H , the H -removal lemma gives a highly nontrivial equivalence between the density of H in G and the L^1 distance between a graph G to the set of H -free graphs. Whether the huge bound in the quantitative estimate is necessary remains a big open question in graph theory. In this talk, I will discuss some recent works on a strengthening of the usual graph removal lemma. This talk is based on some joint work with Jacob Fox.