

COLLOQUIUM

Regularity lemmas for (hyper)graphs

Mathias Schacht
Humboldt University Berlin

Abstract: Szemerédi's regularity lemma is a powerful tool in extremal graph theory, which had many applications. In this talk we present several variants of Szemerédi's original lemma (due to several researchers including Frieze and Kannan, Alon et al., and Lovász and Szegedy) and discuss their relation to each other. If time permits we may consider several different looking regularity lemmas for hypergraphs of which some, but not all, turn out to be equivalent.

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