

COMBINATORICS
SEMINAR

Ramsey and density results for approximate arithmetic progressions.

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Abstract: Let $AP_k = \{a, a+d, \dots, a+(k-1)d\}$ be an arithmetic progression of length k . For a given $\epsilon > 0$, we call a set $AP_k(\epsilon) = \{x_0, \dots, x_{k-1}\}$ an ϵ -approximate arithmetic progression of length k for some a and d , if the inequality $|x_i - (a+id)| \leq \epsilon d$ holds for all i in $\{0, 1, \dots, k-1\}$. In this talk we discuss numerical aspects of Van der Waerden and Szemerédi type of results in which arithmetic progressions are replaced by their ϵ -approximation. Joint work with Vojtech Rodl.

Friday, February 23, 2024, 4:00 pm
Mathematics and Science Center: MSC W201

MATHEMATICS
EMORY UNIVERSITY