DISCRETE ANALYSIS
SEMINAR

Bounds for subsets of $F_p^n x F_p^n$ without L-shaped configurations

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Abstract: I will discuss the difficult problem of proving reasonable bounds in the multidimensional generalization of Szemeredi's theorem and describe a proof of such bounds for sets lacking nontrivial configurations of the form (x,y), (x,y+z), (x,y+2z), (x+z,y) in the finite field model setting.

Monday, October 30, 2023, 4:00 pm
Mathematics and Science Center: MSC W301

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