Colloquium

Integer distance sets

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Host: Matthew Kwan and Robert Seiringer

Abstract: A set in the Euclidean plane is called an integer distance set if the distance between any pair of its points is an integer. All so-far-known integer distance sets have all but up to four of their points on a single line or circle; and it had long been suspected, going back to Erds, that any integer distance set must be of this special form. In a recent work, joint with Marina Iliopoulou and Sarah Peluse, we developed a new approach to the problem, which enabled us to make the first progress towards confirming this suspicion. In the talk, I will discuss the study of integer distance sets, its connections with other problems, and our new developments.

Wednesday, April 2, 2025 03:30pm - 04:30pm

Raiffeisen Lecture Hall, Central Building

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