

Philadelphia Area Number Theory Seminar

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Fine scale properties of sequences modulo 1

Abstract: Given a sequence of numbers, a key question one can ask is how is this sequence distributed? In particular, does the sequence exhibit any pseudo-random properties? (i.e., properties shared by random sequences) For example one can ask if the sequence is uniformly distributed modulo 1 (macroscopic scale), or if the pair correlation or gap distribution is Poissonian (microscopic scale). In this talk I will introduce these concepts, and

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3:45 PM

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