

Computer Science/Discrete Mathematics Seminar I

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Quasirandom Hypergraphs

Series: Computer Science/Discrete Mathematics

Dhruv Mubayi

University of Illinois at Chicago

Date & Time: Mon, 03/04/2013 - 11:15 - 12:15

Location: S-101

Video Link:

<http://video.ias.edu/csdm/1213/0304-DhruvMubayi>

Since the foundational results of Thomason and Chung-Graham-Wilson on quasirandom graphs over 20 years ago, there has been a lot of effort by many researchers to extend the theory to hypergraphs. I will present some of this history, and then describe our recent results that provide such a generalization and unify much of the previous work. One key new aspect in the theory is a systematic study of hypergraph eigenvalues. If time permits I will show some applications to Sidorenko's conjecture and the certification problem for random k-SAT. This is joint work with John Lenz.

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Thu, 09/20/2012 - 15:46

Mon, 02/25/2013 - 21:12

terms:

- [CSDM Seminars](#)