

Departmental Colloquium

Regularity and VC-dimension for hypergraphs: improved bounds

Lior Gishboliner (University of Toronto)

Abstract: Regularity and VC-dimension are two fundamental notions with many applications in combinatorics and beyond. These notions are related via the result that graphs of bounded VC-dimension have (small) partitions where most pairs of parts have density close to 0 or 1. Recent work has generalized this to hypergraphs, but the quantitative aspects of these results are still far from fully understood. I will present some new results on this problem. Joint work with Asaf Shapira and Yuval Wigderson.

Friday, December 5 at 3:00 PM in 636 SEO