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Matroid Designs: A Crash Course in Finite Geometry and Design Theory

Abstract for the Combinatorics Seminar 2013 April 23

A finite geometry is any geometric system with a finite number of points, including (but not limited to) projective and affine planes. Closely related are many areas of discrete geometry, which include structures such as polytopes, matroids, hyperplane arrangements, and graphs. Design theory, which studies a set of points and selected subsets having regularity properties, allows for many connections between the aforementioned structures.

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