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Grassmannians Over Hyperfields

Abstract for the Combinatorics Seminar 2017 September 5, 12

The theory of matroids over hyperfields generalizes both combinatorial ideas such as matroid and oriented matroid theory and finite-dimensional vector spaces. The Grassmannian Gr(r, Fⁿ) over a hyperfield F is interesting from both of these perspectives. I will discuss joint work with Jim Davis on topologically relating various hyperfields—including the real and complex numbers, more combinatorial "shadows" of these, and "tropicalizations" of these—and their associated Grassmannians.

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