

Infinite matroids on lattices

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There are at least two well-studied ways to extend matroids to more general objects - one can allow the ground set to be infinite, or instead define the concept of independence on a lattice other than a set lattice. I will give several cryptomorphic definitions of an object that generalizes a matroid in both these ways at once, and argue that they are (in some ways) nicer than the usual finite matroid axioms. This is joint work with Andrew Fulcher.

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