

Matroids over hyperfields

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Matroids over hyperfields, recently introduced by Baker and Bowler, offer a beautiful recasting of matroid theory. Matroids, oriented matroids, phased matroids, and valuated matroids are all examples of matroids over hyperfields, but so are subspaces of finite-dimensional vector spaces. This talk will introduce matroids over hyperfields and discuss recent work that clarifies their interpretation as "generalized subspaces".