Abstract: Recently, M. Baker and N. Bowler introduced the notion of ‘matroids over hyperfields’ to unify various generalizations of matroids. Motivated by the work of Baker and Bowler, in this talk, we introduce basic definitions and examples of hyperfields and illustrate how hyperfields can be employed to show that certain topological spaces (underlying topological spaces of schemes, Berkovich analytification of schemes, and real schemes) are homeomorphic to sets of rational points of schemes over hyperfields.

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