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Harmonic Conjugation in Harmonic Matroids

Abstract for the Combinatorics Seminar 2005 February 14

My topic is a generalization of the concept of harmonic conjugation from projective geometry and full algebraic matroids to a larger class of matroids called *harmonic matroids*. I use harmonic conjugation to construct a projective plane in harmonic matroids without using the axioms of projective geometry. As a particular case I have a combinatorial construction of a projective plane in full algebraic matroids.

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Last update: **2020/01/29 19:03**