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Discrete Morse Functions for Complexified Hyperplane Arrangements

Abstract for the Combinatorics Seminar 2008 April 15

This is a continuation of my talk on [Discrete Morse Theory](#) of March 18. I will show discrete Morse theory at work in the study of arrangements of complex hyperplanes. Given a complex arrangement (satisfying some additional hypotheses), discrete Morse theory allows one to explicitly construct CW-complexes that are homotopy equivalent to the complement of the arrangement and have the smallest possible number of cells in each dimension.

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