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No-Broken-Circuit Sets of Truncated Affine Arrangements

Abstract for the Combinatorics Seminar 2010 October 6

I present some constructions on the class of no-broken-circuit (NBC) sets of some “deformations” of the braid arrangement. (The hyperplanes of the deformations have equation of the form $x_i - x_j = k$.) This leads us to new bijective proofs for the numbers of regions of the Shi, Linial and other hyperplane arrangements.

This is joint work with Sylvie Corteel and Véronique Ventos.

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