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Bounding the Homology of a Simplicial Complex

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One of the most basic questions concerning a simplicial complex K is the following: How can we combinatorially construct a bound i such that $H_j(K)$ vanishes for $j < i$? For any complex K , the minimal nonfaces of K form a clutter (or hypergraph). We show how certain combinatorial invariants of this clutter bound the homology of the complex K , and also how they can be used to study algebraic invariants of K 's Stanley-Reisner ideal.

This is joint work with Hailong Dao.

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