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Part of the Lecture Notes in Mathematics book series (LNM, volume 1928)
We examine the complex NC_n of disconnected graphs on n vertices.
We also consider subcomplexes consisting of graphs with certain restrictions on the vertex size of the connected components.

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A graph complex is a finite family of graphs closed under deletion of edges.
Graph complexes show up naturally in many different areas of mathematics, including commutative algebra, geometry, and knot theory.
Identifying each graph with its edge set, one may view a graph complex as a simplicial complex and hence interpret it as a geometric object.

Simplicial complex—Wikipedia

Simplicial complexes are arrangements of simplices where any two are either disjoint or meet at a face, where by face we mean

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the convex hull of any subset of the vertices of a simplex.

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The emerging theory of High-Dimensional Expansion suggests a number of inherently different notions to quantify expansion of simplicial complexes. We will talk about the notion of local spectral expansion, that plays a key role in recent advances in PCP theory, coding theory and counting complexity. Our focus is on bounded-degree complexes, where the problems can be stated in

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2008 (English) In: Lecture Notes in Mathematics: Volume 1928, Springer Berlin/Heidelberg, 2008, 1-394 p. Chapter in book (Refereed) Abstract [en] Let G be a finite graph with vertex set V and edge set E . A graph complex on G is an abstract simplicial complex consisting of subsets of E .

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1 Answer. Lovasz' idea was to establish a lower bound on the chromatic number of a graph in terms of the (homological connectivity) of a simplicial complex - the neighborhood complex, associated with G . The faces of the neighborhood complex are sets of vertices that have a common neighbors. Lovasz proved that if G is k -connected...

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Simplicial Complexes of Graphs pp 29-47 | Cite as. Simplicial Topology. Chapter. 2 Readers; 1.3k Downloads; Part of the Lecture Notes in Mathematics book series (LNM, volume 1928) We present a brief overview of the theory of homology and homotopy for simplicial complexes and quotients of simplicial complexes. ... Simplicial Topology. In ...

~~Graphs associated with simplicial complexes~~

Combinatorial properties of the spanning simplicial complex of wheel graph are discussed, which are then used to compute the f -vector and Hilbert series of face ring $k[\Delta_s(W_n)]$ for the spanning simplicial complex $\Delta_s(W_n)$.

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Combinatorial properties of the spanning simplicial complex of wheel graph are discussed, which are then used to compute the f -vector and Hilbert series of face ring k for the spanning simplicial ...

~~What have simplicial complexes ever done for graph theory?~~

Simplicial complexes can be seen to have the same geometric structure as the contact graph of a sphere packing (a graph where vertices are the centers of spheres and edges exist if the

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corresponding packing elements touch each other) and as such can be used to determine the combinatorics of sphere packings, such as the number of touching pairs (1-simplices), touching triplets (2-simplices), and touching quadruples (3-simplices) in a sphere packing.

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One-dimensional abstract simplicial complexes are mathematically equivalent to simple undirected graphs: the vertex set of the complex can be viewed as the vertex set of a graph, and the two-element facets of the complex correspond to undirected edges of a graph. In this view, one-element facets of a complex correspond to isolated vertices that do not have any incident edges.

~~III.1 Simplicial Complexes — Duke University~~

of a simplicial complex S has the graph homology that are isomorphic to simplicial homology of S . In the present paper, we introduce a digraph $G(S)$, that is a subgraph of $B(S)$, with a natural cubical structure and whose homologies are isomorphic to the simplicial homologies of S . Contents 1 Introduction 2 2 Simplicial and cubical complexes 4

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Subdivisions. A simplicial complex L is a subdivision of another simplicial complex K if $|jL| = |jK|$ and every simplex in L is

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contained in a simplex in K . There are many ways to construct subdivisions. A particular one is the barycentric subdivision, $L = \text{Sd}K$, illustrated in Figure III.3. A crucial

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