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A Generalization of the Colored Kruskal-Katona Theorem

Abstract for the Combinatorics Seminar 2012 May 2

The colored Kruskal-Katona theorem, which extends the Kruskal-Katona theorem, is equivalent to a numerical characterization of the f -vectors of colored simplicial complexes. The underlying theme is the study of initial sets of the reverse lexicographical order. In this talk, I will give a generalization of the colored Kruskal-Katona theorem, explain its relation to the study of initial sets, and discuss its consequences for the f -vectors of colored complexes and balanced complexes of arbitrary type.

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