

Realization spaces of polytopes

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1643.

Lecture notes in mathematics (Springer-Verlag) ;

1643

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Realization Spaces of Polytopes

It is a comprehensive survey of the important results that have been obtained in that direction. See Jürgen Richter-Gebert, Günter M. I am not sure about Q2.



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Realization Spaces of Polytopes

The Platonic Solids solve a first enumerative question in polytopal geometry: to find all polytopes with a flag transitive symmetry group — a combinatorial concept. Perhaps those familiar with Richter-Gebert's proof technique and the surrounding literature e. On Q2, a colleague pointed me to a theorem that appears on p.

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The approaches chosen are direct and very geometric in nature. Are there convex polytopes combinatorially equivalent to each of the regular polytopes that are realized with integer vertex coordinates? Respectively, they identify realizations of the polytopes with the matrix whose columns are the coordinates of their vertices, the column space of said matrix, their Gale transforms, and their slack matrices. The former will find a comprehensive source for the above mentioned results.

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A similar construction works nicely in the case of planar polygons. Polytopes and their realization spaces Polytopes have a long tradition as objects of mathematical study.

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