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How to Complicate a ``Simple'' Problem: Computational Topology of Equivariant Maps from Spheres to Complements of Arrangements

Abstract for the Combinatorics and Number Theory and Geometry/Topology Seminars 2003 November 24

The point of this talk is to illustrate the interplay of combinatorial and topological methods in combinatorial problems. I will consider a combinatorial problem (a 4-fan partition of 2 masses), its transformation into a topological problem on subspace arrangements, and the combinatorial and equivariant cohomology techniques in the solution of this problem.

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