

Zhexiu Tu (Cornell)

Topological Representations of Matroids and the cd-Index

Abstract for the Combinatorics Seminar 2017 February 28

There are several different topological representations of non-orientable matroids. In this talk, inspired by Swartz's work, I will show an explicit homotopy sphere arrangement that is a regular CW-complex whose intersection lattice is the geometric lattice of the corresponding matroid. I will also look at enumerative properties, including how the flag f -vector formula of Billera, Ehrenborg, and Readdy for oriented matroids applies to arbitrary matroids.

From:

<https://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics, Binghamton University**

Permanent link:

<https://www2.math.binghamton.edu/p/seminars/comb/abstract.201702tu>

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

